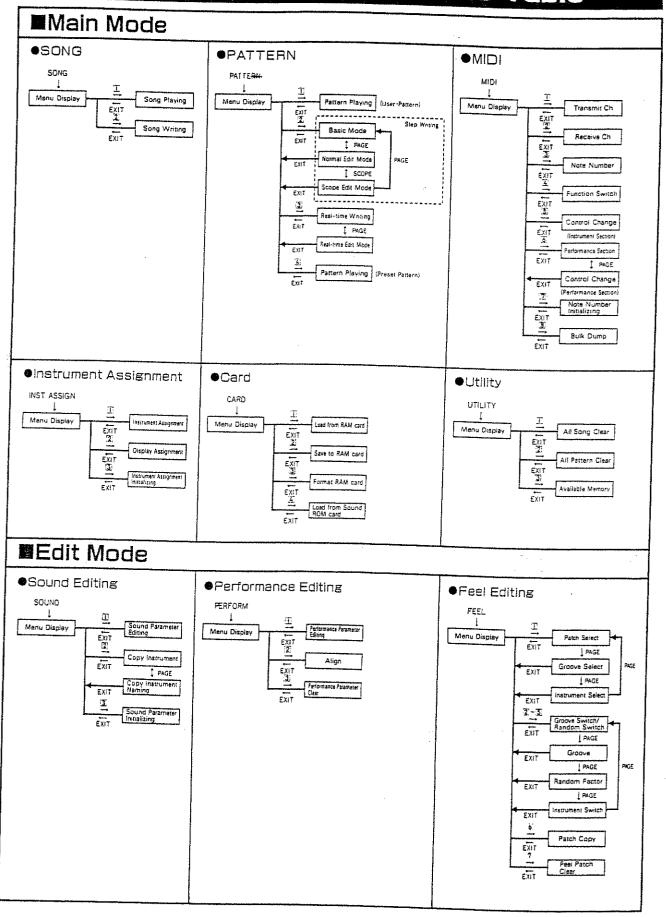


MIDI HUMAN RHYTHM COMPOSER

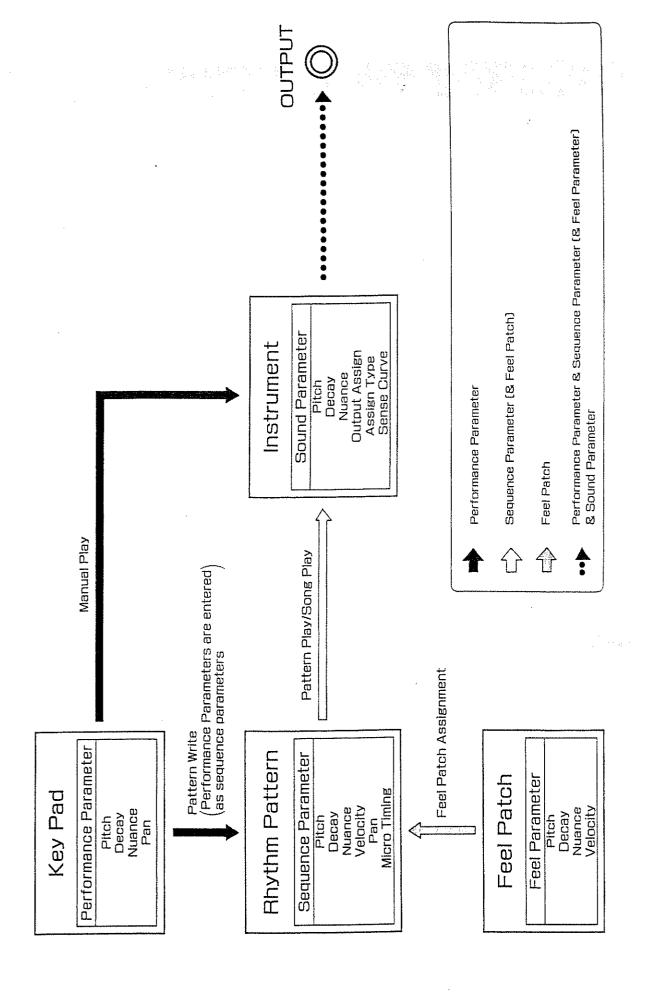


Owner's Manual

R-8 Quick Operation Mode Table



■Data Flow of each Parameters



■Parameter Table

| Daramoter | Sour | Sound Parameter | Perform | Performance Parameter | Fee | Feel Parameter | Sequer | Sequence Parameter |
|------------------------|---------|---|---------|-----------------------------------|---------|---|--|--------------------|
| | Display | Value Range | Display | Value Range | Display | Value Range | Display | Value Range |
| Velocity |) | | | 1 | VELO | -89~+89 | VL | 1-127 |
| Pitch | PITCH | -4800~+4800 | PITCH | -4800~+4800 | PITCH | -68- | ЪТ | 4800+4800 |
| Оесау | DECAY | 0~127 | DECAY | -63~+63 | DECAY | -99 | DC | -63~+63 |
| Nuance | NUANCE | 0~15 | NUANCE | -7~+7 | NUANCE | 11- | N N | -7-+7 |
| Output Assign (Pan) | OUTPUT | LEFT I~3/CENTER/ RIGHT I~3/MULTI I~8 | PAN | OFF/LEFT 1~3/ CENTER/RIGHT 1~3 | | *************************************** | Z N | OFF/L 1~3/C/R 1~3 |
| Micro Timing | 77 | | | 440000000 | | | F | -2~+} |
| Assign Type | ASSIGN | POLY/MONO/EXC 1~8 | | | | | | |
| Sense Curve | CURVE | 1~8 | , | | | | Transfer to the state of the st | |
| | | | | | | | | |

■Instrument Table

| INST = | DISPLAY | INSTRUMENT NAME | | | | |
|--|--|---|---|--|--|---|
| 1 | *DAY-K1 | DRY KICK 1 | 5 | il | TAMBRN 1 | TAMBOURINE 1 |
| 2 | * DAY-K2 | DRY KICK 2 | 5 | 52 | SHAKER 1 | SHAKER 1 |
| 3 | * WOOD-K 1 | WOOD KICK 1 | 5 | 33 | MUTE-CG | MUTE HIGH CONGA |
| 4 | * DBLH-K 1 | DOUBLE HEAD KICK 1 | 5 | 4 | SLAP-CG | SLAP HIGH CONGA |
| 5 | * DBLH-K2 | DOUBLE HEAD KICK 2 | 5 | i5 | LOW-CG | OPEN LOW CONGA |
| 6 | * SOLID-K | SOLID KICK | 5 | 56 | **SLID-CG | SLIDE LOW CONGA |
| 7 | * ROOM-K 1 | ROOM AMBIENT KICK 1 | 5 | 57 | AGOGO 1 | AGOGO 1 |
| 8 | *ROOM-K2 | ROOM AMBIENT KICK 2 | | 58 | **OCT-AGG | OCTAVE AGOGO |
| 9 | * MONDO-K | MONDO KICK | 5 | 59 | WHISTL 1 | WHISTLE 1 |
| 10 | * WOOD-51 | WOOD SNARE 1 | E | 30 | WHISTL 2 | WHISTLE 2 |
| 11 | * OPEN-S 1 | OPEN SNARE 1 | E | 31 | ** CAN 1 | CAN 1 |
| 12 | * TIGHT-S | TIGHT SNARE | E | S2 | **BACK-S1 | BACK SNARE 1 |
| 13 | *NICE-S1 | NICE SNARE 1 | l E | 53 | BACK-T1 | BACK TOM 1 |
| 14 | *FAT-S1 | FAT SNARE | [] E | 34 | BACK-C1 | BACK CYMBAL 1 |
| 15 | *IMPCT-S | IMPACT SNARE | 6 | 35 | ** SPARK 1 | SPARK 1 |
| 16 | * SNAP-S1 | SNAP SNARE | E | 56 | **SURF | SURF |
| 17 | *OUCH-S | OUCH SNARE | 8 | 3 7 | **WHEEL 1 | WHEEL 1 |
| 18 | * AVB-S1 | REVERB SNARE | [<u></u> 6 | 58 | REST | REST |
| 19 | * PICL-S 1 | PICCOLO SNARE 1 | | | | |
| 20 | * RIMSHT 1 | RIMSHOT SNARE 1 | | | | |
| 21 | * RIMSHT 2 | RIMSHOT SNARE 2 | | | | |
| 22 | SIDSTK 1 | SIDE STICK 1 | | | | |
| 20 | | CIDE OTION O | | 1 | 1 | 1 |
| 23 | SIDSTK 2 | SIDE STICK 2 | COPY | SOURCE | DISPLAY | INSTRUMENT NAME |
| 24 | * DRY-T1 | DRY TOM 1 | COPY NST= | SOURCE NST: | DISPLAY | INSTRUMENT NAME |
| i . | | _ · · · · - | COPY NST: | SOURCE NST: | DISPLAY *DBLH-K3 | INSTRUMENT NAME DOUBLE HEAD KICK 3 |
| 24 | * DRY-T1 | DRY TOM 1 | | | | |
| 24 25 26 27 | * DRY-T1 * DRY-T2 | DRY TOM 1 DRY TOM 2 | 1 | 4 | * DBLH-K3 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 |
| 24 25 26 27 28 | * DRY-T1 * DRY-T2 * DRY-T3 | DRY TOM 1 DRY TOM 2 DRY TOM 3 | 1 2 3 4 | 4 20 | * DBLH-K3 * RIMSHT 3 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 |
| 24 25 26 27 | *DRY-T1 *DRY-T2 *DRY-T3 *DRY-T4 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 | 2 8 8 | 20 35 | *DBLH-K3 *RIMSHT 3 DOOM-T2 DOOM-T3 **CLSD-H2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 |
| 24 25 26 27 28 | * DRY-T1 * DRY-T2 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 | 1 2 3 4 5 6 | 4 20 35 36 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 |
| 24 25 26 27 28 29 30 | * DRY-T1 * DRY-T2 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 | 1 2 3 4 5 | 20 36 36 37 37 37 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 |
| 24 25 26 27 28 29 30 31 | * DRY-T1 * DRY-T2 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 | 1 2 3 4 5 6 7 8 | 20 36 36 37 37 38 38 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 ** OPEN-H3 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 |
| 24 25 26 27 28 29 30 31 32 33 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 | 1 2 3 4 5 6 7 8 9 | 20 36 36 37 37 38 38 38 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 ** OPEN-H3 CRSH-C2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 |
| 24 25 26 27 28 29 30 31 32 33 | * DRY-T1 * DRY-T2 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 | 1 2 3 4 5 6 7 8 9 10 | 20 36 36 37 37 38 38 40 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 |
| 24 25 26 27 28 29 30 31 32 33 34 | * DRY-T1 * DRY-T2 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 3 | 1 2 3 4 5 6 7 8 9 10 | 20 36 36 37 37 38 38 40 40 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 |
| 24 25 26 27 28 29 30 31 32 33 34 35 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 | 1 2 3 4 5 6 7 8 9 10 | 20 36 36 37 37 38 38 40 40 40 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 2 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 | 1 2 3 4 5 6 7 8 9 10 | 20 36 36 37 37 38 38 40 40 40 40 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 | 20 36 36 37 37 38 38 40 40 40 40 45 46 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP * OPEN-D2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T4 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 PEDAL CLOSED HIHAT | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | 20 36 36 37 38 38 40 40 40 40 45 46 49 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP * OPEN-D2 CABASA 2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 2 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T2 * POWR-T4 DOOM-T1 ** CLSD-H1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 | 20 36 36 37 38 38 40 40 40 40 45 46 49 50 | * DBLH-K3 *RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP *OPEN-D2 CABASA 2 COWBEL 2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 ** MLLT-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 2 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 MALLET CRASH CYMBAL 1 | 1 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 | 20 36 36 37 37 38 38 40 40 40 40 45 46 49 50 55 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C1 SPLA-C2 DRYCLAP * OPEN-D2 CABASA 2 COWBEL 2 HIGH-CG | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 OPEN HIGH CONGA |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 36 39 40 41 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 ** MILLT-C1 ** RIDE-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 RIDE CYMBAL 1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | 20 36 36 37 37 38 38 40 40 40 45 46 49 50 55 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H2 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C1 SPLA-C2 DRYCLAP * OPEN-D2 CABASA 2 COWBEL 2 HIGH-CG AGOGO 2 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 OPEN HIGH CONGA AGOGO 2 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | * DRY-T1 * DRY-T3 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 ** RIDE-C1 ** ROBL-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 RIDE CYMBAL 1 RIDE BELL CYMBAL 1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | 20 36 36 37 38 38 40 40 40 45 46 49 50 55 57 38 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP *OPEN-D2 CABASA 2 COWBEL 2 HIGH-CG AGOGO 2 ** PLATE 1 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 OPEN HIGH CONGA AGOGO 2 PLATE 1 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | * DRY-T1 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T4 * ROOM-T4 * POWR-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 ** MILT-C1 ** RIDE-C1 ** ROBL-C1 BELL-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 MALLET CRASH CYMBAL 1 RIDE CYMBAL 1 RIDE CYMBAL BELL | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 | 20 36 36 37 37 38 38 40 40 40 45 46 49 50 55 57 38 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H2 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP *OPEN-D2 CABASA 2 COWBEL 2 HIGH-CG AGOGO 2 ** PLATE 1 RING 1 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 OPEN HIGH CONGA AGOGO 2 PLATE 1 RING 1 |
| 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 | * DRY-T1 * DRY-T3 * DRY-T3 * DRY-T4 * ROOM-T1 * ROOM-T2 * ROOM-T3 * ROOM-T1 * POWR-T2 * POWR-T3 * POWR-T4 DOOM-T1 ** CLSD-H1 ** OPEN-H1 PDAL-H1 CRSH-C1 ** RIDE-C1 ** ROBL-C1 | DRY TOM 1 DRY TOM 2 DRY TOM 3 DRY TOM 4 ROOM AMBIENT TOM 1 ROOM AMBIENT TOM 2 ROOM AMBIENT TOM 3 ROOM AMBIENT TOM 4 POWER TOM 1 POWER TOM 2 POWER TOM 3 POWER TOM 4 DOOM TOM 1 CLOSED HIHAT 1 OPEN HIHAT 1 PEDAL CLOSED HIHAT CRASH CYMBAL 1 RIDE CYMBAL 1 RIDE BELL CYMBAL 1 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 | 20 36 36 37 38 38 40 40 40 45 46 49 50 55 57 38 | * DBLH-K3 * RIMSHT 3 DOOM-T2 DOOM-T3 ** CLSD-H2 ** CLSD-H3 ** OPEN-H3 CRSH-C2 CHOK-C1 SPLA-C1 SPLA-C2 DRYCLAP *OPEN-D2 CABASA 2 COWBEL 2 HIGH-CG AGOGO 2 ** PLATE 1 | DOUBLE HEAD KICK 3 RIMSHOT SNARE 3 DOOM TOM 2 DOOM TOM 3 CLOSED HIHAT 2 CLOSED HIHAT 3 OPEN HIHAT 3 CRASH CYMBAL 2 CHOKED CRASH CYMBAL 1 SPLASH CYMBAL 1 SPLASH CYMBAL 2 DRY HAND CLAP OPEN DRUM 2 CABASA 2 COWBELL 2 OPEN HIGH CONGA AGOGO 2 PLATE 1 |

23

24

25

65

45

** The sound changes by changing the setting of Nuance.

TAIKO 1

CLAVE 1

CABASA 1

COWBELL 1



*TAIKO 1

CLAVE 1

CABASA 1

COWBEL 1

47

48

49

WOOD BLOCK 2

THRILLER

SHADOW

GUN SHOT 1

WBLOCK 2

GUNSHT 1

SHADOW

** THRILLR

^{*} The sound changes by changing the strength of Key Pad hitting or the setting of Nuance.

AN EASY METHOD TO GET YOU STARTED

Because this booklet is intended to illustrate the basic steps that might be taken for creating patterns and songs, many other details are not touched upon. We recommend that you read through the owner's manual beforehand to gain further useful information. We are going to create a song using 5 simple patterns written in real—time. We will make a few real—time edits, insert some repeat marks and a tempo change, and hopefully you will understand how easy it is to use the R-8. This exercise uses very simple patterns which we invite you to copy as we go along, or create your own. (For those of you who cannot read musical notation, please program the patterns as you wish, but maintain the same length as our example.)

Before Starting

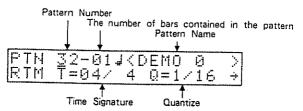
To make sure we stay together through this simple process, first initialize your R-8 by holding SELECT and PAGE down while turning on the power. Press ENTER twice and it's initialized.

*There are other ways of initializing specific parameters. See the owner's manual on page 158.

Let's Make Rhythm Patterns

We will use the Tempo of 120 BPM. To verify, push TEMPO adjust if necessary, then push TEMPO again.

Press **PATTERN**, and select number 3 for Real-time Writing. The display shows:



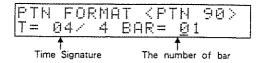
* You can always exit from any step along the way by pressing EXIT if you are not sure of what should be showing in the display.

Well, now we are ready to proceed one by one with our series of patterns.

Rhythm Pattern A

The cursor is under the pattern number, 32. Using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical keys, select a pattern number, in this case, 90.

Next, we decide how many bars the pattern is going to have. Hold SHIFT down and press CLEAR (key pad 14). The display shows:



and the cursor is under the "BAR=01" position. Now just press **ENTER**, because pattern number 90 is going to be one bar in length.

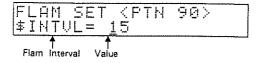
Now press START and you will hear the metronome. There is an accent on the "one".

Count along to make sure you follow, hold down FLAM and press the SNARE (key pad 14) on beat four.



• You hear the flam on beat "4". Let's edit the flam now. Stop the machine.

Hold SHIFT down and press FLAM SET (key pad 7). The display shows:



Make a big change in the INTERVAL, bring it from 15 to 10 and press **ENTER**. Start the machine and you should hear the difference. Repeat this until you get the flam feel you desire.

When setting the flam, you can change not only the INTER-VAL, but the RATIO as well. Use **SELECT** to go back and forth. INTERVAL changes the amount of time between each hit, and RATIO determines their difference in volume.

Press STOP.

Rhythm Pattern B

Let's go to pattern number 91. The cursor should be under the pattern number in the display. Using -1/OFF + 1/ON, select the next pattern, in this case, 91.

Format the pattern the way we did with number 90 except this time select 4 bars for it's length. Press ENTER and then START! You'll hear the metronome.

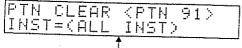
The quantize resolution is on 1/16 and you will notice that you can change the resolution while the pattern is in the record mode. To change the resolution you can use the VALUE slider, Numerical keys, or $\boxed{-1/OFF}$ $\boxed{+1/ON}$. Leave it at 1 √16 for now.

Pattern number 91 will be your basic 8-beat rhythm, as shown:



I suggest you start with the Hihat, playing eighth notes for the 4 measures.

● Now let's suppose you want to do the Hihat again. Press STOP. Hold SHIFT down and press CLEAR (key pad 14). The display shows:



This is the stage where you can erase everything you have done in the pattern, including the length; or you can just erase all of the Hihat, Kick, Snare or whatever you want. In this case, press the **CLOSED HH** (key pad 11), and it will appear in the display. Press ENTER and the Hihat is gone, and you can do it over again.

There is one other way of erasing, and that is in real-time. You should practice this once to understand. After you have programmed your Hihat part again, while the machine is still playing, hold SHIFT down and press the CLOSED HH (key pad 11) down for as long as you want to erase the sound. To experiment, I suggest you hold it down for the count of 4 and release it for 4, always keeping SHIFT pressed. Now that you know how to do this, program the Hihat part

again.

Program the Snare drum on the 2's and 4's and the Bass drum as is written above.

Rhythm Pattern C

Press STOP, and go to pattern number 92. Hold SHIFT down, press CLEAR (key pad 14), and format pattern number 92 for 2 bars.

Press START. The metronome sounds and you will be able to refer to the bar number indicator in the display.



Here we are going to program the first measure first. Count along and enter 8th notes with the Hihat in the first measure. Enter the Kick and Snare as written. Add a simple Tom fill to lead into the second measure. If you make a mistake, it is easy to create each voice, one by one.

Now, enter a Crash and Kick on the first beat of the second measure. While the machine is running, (you should have a full first measure and the Crash on the first beat of the second) change the quantize resolution to 1/32. On beat "2" of measure "2" we are going to enter a roll.

First, stop the machine and while holding down ROLL, press any of the key pads and feel what the roll can do. Increase the pressure on the pad and the volume increases as well. We are going to enter a roll from beat "2" through beat "4".

Start the machine, and counting if you have to, press ROLL and the SNARE (key pad 14) at the same time, from beat "2" of the second measure. Stop before the "1" of the first measure. If you do not end the roll well, erase the Snare drum, either just the roll or all of the Snare in this pattern, and do it again.

■ Real – time Edit (Pitch)

Let's have some fun with the roll. Let's use the real-time edit function, and change the pitch of the roll so that it starts low and finishes high.

Press **START**, and while the rhythm is playing, press **PAGE**. The display shows:

| PTN | 92^02 | 2√<++EDIT!!> |
|----------|-----------|--------------|
| RTM | \$VL= | @64 + |
| Sequence | parameter | † Value |

By pressing **SELECT** find "\$PT=0000" in the display.

Use the VALUE slider or $\boxed{-1/OFF}$ $\boxed{+1/ON}$ to determine the starting point of the pitch change. Move it to -2000. While the pattern is playing the roll, hold down the \boxed{SNARE} pad for the length of the roll only. Release your finger after the roll, and the next time it plays you will see what you have done. Now to correct this type of edit, you must just select the original setting, in this case 0000, hold down the key to be edited, and it will return to normal.

While the machine is playing, experiment with the VALUE slider, to see how gradual a change you can make in the tuning. If you hold down the **SNARE** pad while doing this. you will create a real-time edit. Do this until you have a rising-pitch roll.

Of course, with all the other parameters in this mode, there are changes you can make. Let's keep it simple for now.

Press PAGE to return to the real-time write display.

Rhythm Pattern D

Next, we want to program another 4 bar pattern. Format pattern number 93 for 4 bars, press ENTER, START, and program the same type of rhythm as pattern number 91, only this time play the eighth notes on the Ride Cymbal. Make sure you are still in Pad Bank "A".

The pattern should sound as written here.



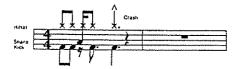
■ Real – time Edit (Pan)

While the machine is running, press PAGE and then SELECT until "\$PN=*OFF*" appears in the display.

Hold down the RIDE (key pad 4) and with the VALUE slider or -1/OFF +1/ON, change the pan of the cymbal from L-3 to R-3. Try to do it in rhythm or as you please, and release your hands after you think you have got what you want. This is only to show you how it works. You can of course, go back and pan that rising-pitch roll from left to right if you like.

Rhythm Pattern E

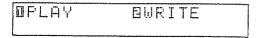
Format pattern number 94 for 2 bars. This is the ending pattern, so we will just make a simple accented ending, as shown here, or as you like.



Remember, we changed the quantize resolution earlier, for programming the roll, and depending on your real—time tapping skills, you may find programming 8th notes with the 1/32 resolution a bit difficult. Change it as you wish. One reminder here. There is also a roll resolution. It is important to remember that the overall quantize resolution will determine how the roll sounds. Match the two or set quantize to HIGH. Also, roll resolution will change with the tempo.

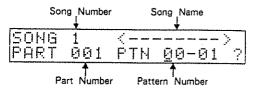
Putting it all together

So now we have 5 patterns to work with in making the song. 90, 91, 92, 93 and 94. Press **SONG** and the display shows:



Press Numerical key 1, and select the song number, in this case, 1.

Press **EXIT** and then Numerical key 2, to write a song, and the display shows:



Here is where we select the order of patterns to be used in the song. We will be logical and start from 90.

Pressing either +1/ON or -1/OFF will change the numbers appearing in the right side of the display. With 90 -01 showing, press ENTER. You will notice on the left side that "PART 002" shows. Here we are assigning rhythm patterns to "Parts" in the song.

Press $\boxed{+1/0N}$ to change the display to show "PTN 91-04". Press $\boxed{\text{ENTER}}$ again. Keep repeating this until you have made 5 parts in the song, with the patterns appearing in order from 90 to 94.

Press **EXIT** and then Numerical key 1 to go to song play mode.

Press START and what we have programmed is now a "song".Press STOP.

Song Edits

Let's make a few simple edits to the song.

Press SONG or EXIT. Select number 2 for song write. Push until "PART 002 PTN 91-04" appears in the screen. Press SHIFT and PART INSERT (key pad 10). Display shows:

Press SELECT and "REP || : " shows in the display, Press ENTER].

What we have done is enter the repeat mark, as we want to repeat this four—bar pattern. Remember that a repeat mark is entered as a "Part", so the number of parts in a song will increase with every inserted change, like repeats or tempo changes. It's important to remember this when you are writing a song, so you do not get confused with the changes.

Now, with the cursor move it so "PART 004 PTN 92-02" shows in the display. Press SHIFT and PART INSERT (key pad 10). Use SELECT to bring ":|| \times 01?" into the display. Press ENTER.

What we have done is to enter repeat marks before and after pattern number 91. Use the same procedure for entering other song edits, such as tempo or level changes.

It is very easy and it is always simple to push EXIT to start your editing process all over again. This concept prevails throughout all the editing functions of the R-8. Though there is a lot you can do with it, each process is simple and easy to understand. We hope this has made some of the most important functions of the R-8 easier to understand.

Press EXIT or SONG, select number 1 for song play, and

any programming miracles, you are on your way!.

To check that you have gotten everything entered correctly, press **SONG**, Numerical key 2 and then . This will take you through the PART order of the song as it is finally programmed. It should read as shown below:

PART 001 PTN 90-01
PART 002 REP || :
PART 003 PTN 91-04
PART 004 REP :|| × 01
PART 005 PTN 92-02
PART 006 PTN 93-04
PART 007 PTN 94-02

If you go beyond the end of the program of the song, a "?" will appear after the pattern number. The song will end with the last part/pattern you have selected.



Owner's Manual

Thank you for purchasing the Roland Rhythm Composer R-8. The R-8 is a completely new-type rhythm machine, featuring various functions that how make possible extremely realistic performances.

To make the best use of the R-8, please read this owner's manual carefully.

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■ IMPORTANT NOTES

◇Power Supply ◊

- Please use the supplied AC adapter with the R-8. Using any other AC adapter will cause trouble. Also, do not use the supplied AC adapter with any other unit but the R-8.
- The appropriate power supply for this unit is shown on its name plate. Please make sure that the line voltage in your country meets this requirement.
- Do not use the same socket used for any noise generating device. (such as a motor or variable lighting system)
- •Make sure that the unit is turned off before connecting the power plug to the AC socket.
- •When disconnecting the power plug from the socket, do not pull the cord, but hold the plug to avoid damaging the cord.
- Avoid damaging the power cord.
- If the unit is not to be used for a long period of time, unplug the cord from the socket.
- Disconnect the AC cord immediately in the event of an electrical storm.
- Before setting up the R-8 with other MIDI devices, turn this unit off along with all other units.
- If you must connect the instrument (this unit) to an amplifier while switched on, be sure to connect the cord to the instrument first. When disconnecting, disconnect the cord from the amplifier first.

♦Room Location ♦

- Avoid using this device in excessive heat or humidity conditions, or where it may be affected by direct sunlight or dust and avoid places subject to high vibration.
- Operating the unit near a neon light, fluorescent lamp, TV or CRT display may cause noise interference. If so, change the angle or the position of the unit.
- Operating this unit near a TV or radio may cause picture or noise interference. If this happens, move the unit away from these instruments.
- Do not place or drop anything heavy on the main unit or its power cord.
- Static electricity may cause the built-in computer to malfunction. Should this occur, simply rest it by turning the power switch off and then an again after a few seconds.

- •For cleaning the unit, use a dry and soft cloth.
- Should the casing become soiled use a cloth slightly dampened with water.
- To remove stubborn grime, clean the casing with a cloth moistened with a neutral detergent, then wipe it dry with a soft cloth.
- •Do not use solvents such as paint thinner when cleaning.

♦ Memory Back Up System ♦

- This unit features a memory backup system that retains the data even after switched off. The battery that supports the backup circuit should be replaced every five years. Call the Roland service station for a battery replacement. (The first replacement may be required before five years, depending on how much time had passed before you purchased the unit.)
- Although we do our utmost to protect your data during repairs, sometimes, especially when working on the memory itself or on a related area, some of your important data may be lost. Keep a separate record of all the data that you consider important. This can be done by saving it into the RAM card or by writing it down on a sheet of paper.

♦ How To Handle The Unit ♦

- Adjust the volume control to a level that will not disturb the neighborhood, especially at night when sounds can travel over long distances.
- Do not allow fluid or foreign matter, such as water, beverages, coins and wires, to enter this unit.
- Do not examine or modify the internal components or circuitry. Electrical shocks or damage may result.
- Do not subject this unit to strong shocks, or move it while the power is on.
- If this unit fails to operate correctly, turn it off immediately and contact your Roland dealer.
- •Never push or hit the display hard.
- Do not hit the key pads of the unit with a stick or anything hard.
- If the LCD display is difficult to view, adjust the contrast with the LCD Contrast Control Knob on the rear of the unit.

OUTLINE OF THE R-8

1. About Human Feel

Rhythm performances from conventional rhythm machines or sequencers sometimes a monotonous and mechanical impression to the listeners. Roland has succeeded in removing the causes of such limitations and has provided for expression of more realistic drum performances (a much more Human Feel). The result is the Roland rhythm machine R-8.

-Causes of monotonous and mechanical rhythm

There are two elements that prevent past rhythm machines from obtaining realistic expression:

- •When a human being plays a rhythm instrument, unlike a programmable rhythm machine, they change the strength or position with each beat to create accentuation. Thus, the effectiveness of the drum performance varies depending on the drummer.
- ◆Even though one intends to play in exactly the same manner, the strength or positions of beating will vary slightly. This means that the overall performance will contain a variety of tonal and Rhythmical qualities.

What the R-8 can do

The R-8 can express such subtle sound and timing changes as described above, presenting more realistic performances (what we call "Human Feel" in this manual), as follows.

Natural tone alteration according to the beating strength or beating positions

Depending on how hard you play the Snare drum, Kick drum or Tom, the tones of each drum voice (Snare, Kick, or Tom) will change in a very natural way.

Wide variety of sound editing parameters

By changing the setting of the parameters (Velocity, Pitch, Decay and Nuance), the tone of each instrument can be edited to your taste. Also, even after having written a rhythm pattern, you can edit the sound of each instrument.

Micro Timing

The timing (steps) of the R-8's rhythm performance (Pattern Play or Song Play) can be set with minute precision, to a resolution of 1/384 note.

●Feel Function

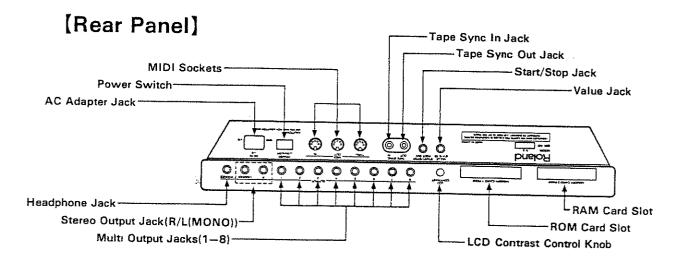
A Feel Patch consists of two sections, Groove that changes the strength or position for beating, and Random Factor section which sets random and subtle tone changes. When playing a rhythm pattern, you can set a desired Feel Patch to the rhythm pattern. The same rhythm pattern will be played differently by changing the Feel Patch data.

2. Features Of The R-8

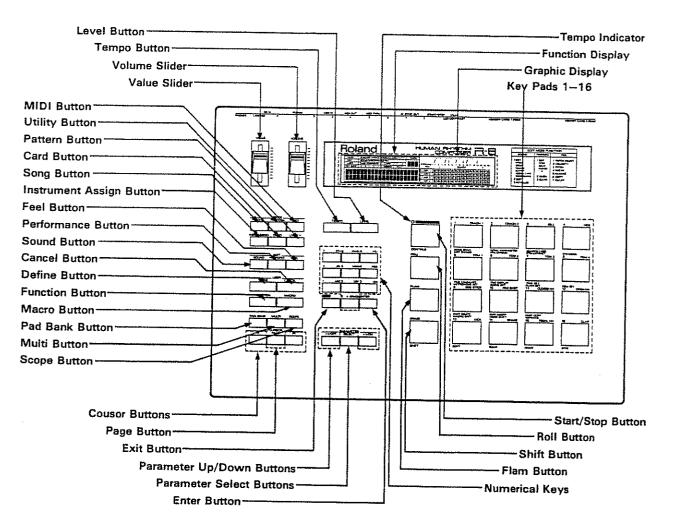
- ●The R-8 features 68 different high quality instruments (rhythm voices) sampled at 44.1kHz with 16 bit dynamic range. With the Touch Sense function provided on the Key Pads, you can obtain extremely realistic drum sounds, because of the natural alteration of the volume and tone according to the strength of pad striking.
- Some Instruments can be played so that the beating strength changes the nuance (Kick, Snare and Toms). With the Hihat and Ride cymbals only, the Nuance creates the effect of Hihats in different positions. Also, with Pan, Decay and Pitch settings a more expressive drumset can be realised.
- •The Copy Instrument function allows you to create up to 28 different Instruments, in addition to the 68 existing Instruments.
- ●For more realistic performance, the R-8 allows delicate adjustments in timing / velocity / decay / pitch and nuance.
- ●The R-8's internal memory can store 32 Preset Rhythm Patterns, 100 Userprogrammed Patterns and 10 Songs.
- ■Up to eight Feel Patches (regular tone changes in accord with accents set in the music, and random tone changes) can be set independently for Userprogrammed patterns.

- The following editing functions are available:
 - 会 Pattern Copy.
 - ☆Instrument Change this replaces one Instrument in a Pattern with another Instrument.
 - ☆Merge function that mixes two Patterns.
 ☆Pattern Append function that joins more than one Pattern, etc.
- Using an optional sound ROM card, you can extend 26 more Instruments.
- Frequently used button procedures can be registered as Users Functions.
- Frequently used rhythm patterns can be registered as Macro Notes. The registered pattern can be entered by tapping the Key pad once in the rhythm pattern writing mode.
- •The total performance time of a song can be checked, or the tempo needed for playing a song within a specified time can be calculated.

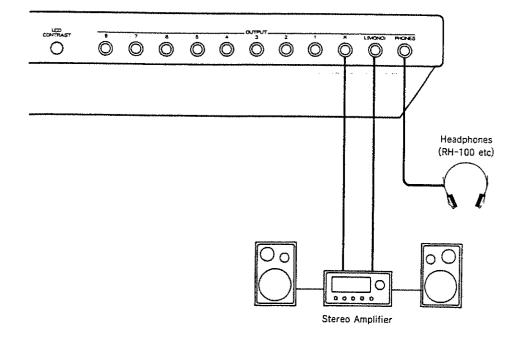
PANEL DESCRIPTIONS



[Front Panel]



BASIC CONNECTIONS



Specific: Instruments can be output from any individual Multi Output jacks (1-8). At the manufacturer, all the Instruments are set to be output from the Stereo Output jacks, therefore no sound is output from the Multi Outputs. If you wish to use the Multi Output jacks, change the Output Assign of each Instrument (see page 49).



- 1 Let's Play P. 14
- 2 Before Writing Rhythm Data P. 27

1 LET'S PLAY

The R-8 is programmed with 68 Rhythm Instruments plus 26 more Copy Instruments (when released from the manufacturer) as shown below. The sound of an Instrument with the "*" mark will change in accord with settings for Nuance (see page 49) or the strength of Key pad hitting. The sound of an Instrument with the "**" mark will change by editing the value of Nuance.

| INST # DISPLAY INSTRUMENT NAME COMMENT 1 * DRY_K1 DRY KICK 1 Close miking sound 2 * DRY_K2 DRY KICK 2 Close miking sound 3 * WOOD_K1 WOOD KICK 1 Close miking sound 4 * DBLH_K1 DOUBLE HEAD KICK 1 5 * DBLH_K2 DOUBLE HEAD KICK 2 6 * SOLID_K SOLID KICK 7 * ROOM_K1 ROOM AMBIENT KICK 1 With large room ambience 8 * ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience 9 * MONDO_K MONDO KICK 10 * WOOD_S1 WOOD SNARE 1 Close miking sound (8 inch snare) 11 * OPEN_S1 OPEN SNARE 1 Close miking sound (5 inch snare) 12 * TIGHT_S TIGHT SNARE Close miking sound (5 inch snare) 13 * NICE_S1 NICE SNARE 1 15 * IMPCT_S IMPACT SNARE With ambience 16 * SNAP_S1 SNAP SNARE 1 17 * OUCH_S OUCH I SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 1 Close miking sound 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 2 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T2 ROOM_AMBIENT TOM! With large room ambience 30 * * ROOM_T3 ROOM_AMBIENT TOM! With large room ambience | f | | | |
|--|-------|-----------|---------------------|--|
| 2 * DRY_K2 DRY KICK 2 Close miking sound 3 * WOOD_K1 WOOD KICK 1 Close miking sound 4 * DBLH_K1 DOUBLE HEAD KICK 2 6 * SOLID_K SOLID KICK 7 * ROOM_K1 ROOM AMBIENT KICK 1 With large room ambience 8 * ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience 9 * MONDO_K MONDO KICK 10 * WOOD_S1 WOOD SNARE 1 Close miking sound (8 inch snare) 11 * OPEN_S1 OPEN SNARE 1 Close miking sound (5 inch snare) 12 * TIGHT_S TIGHT SNARE Close miking sound (5 inch snare) 13 * NICE_S1 NICE SNARE 1 With ambience 14 * FAT_S1 FAT SNARE With ambience 16 * SNAP_S1 SNAP SNARE 1 17 * OUCH_S OUCH I SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM2 With large room ambience | INST# | DISPLAY | INSTRUMENT NAME | COMMENT |
| ** WOOD_K1 WOOD KICK 1 Close miking sound ** DBLH_K1 DOUBLE HEAD KICK 1 ** DBLH_K2 DOUBLE HEAD KICK 2 ** ** SOLID_K SOLID KICK ** ** ROOM_K1 ROOM AMBIENT KICK 1 With large room ambience ** ** ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience ** ** ** ** ** ** ** ** ** ** ** ** ** | 1 | * DRY_K1 | DRY KICK 1 | Close miking sound |
| # DBLH_K1 DOUBLE HEAD KICK 1 # DBLH_K2 DOUBLE HEAD KICK 2 # SOLID_K SOLID KICK # ROOM_K1 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience # ROOM_T2 ROOM AMBIENT TOME With large room ambience | 2 | * DRY_K2 | DRY KICK 2 | Close miking sound |
| ## DBLH_K2 DOUBLE HEAD KICK 2 *** SOLID_K SOLID KICK | 3 | * W00D_K1 | WOOD KICK I | Close miking sound |
| ## SOLID_K SOLID KICK Told ROOM_K1 ROOM_AMBIENT_KICK With large room ambience | 4 | * DBLH_K1 | DOUBLE HEAD KICK 1 | |
| # ROOM_K1 ROOM AMBIENT KICK 1 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # WONDO_K MONDO KICK 10 | 5 | * DBLH_K2 | DOUBLE HEAD KICK 2 | |
| # ROOM_K2 ROOM AMBIENT KICK 2 With large room ambience # MONDO_K MONDO KICK 10 | 6 | * SOLID_K | SOLID KICK | |
| # MONDO_K MONDO KICK 10 | 7 | * ROOM_K1 | ROOM AMBIENT KICK 1 | With large room ambience |
| 10 | 8 | * ROOM_K2 | ROOM AMBIENT KICK 2 | With large room ambience |
| 11 * OPEN_S1 OPEN SNARE 1 Close miking sound 12 * TIGHT_S TIGHT SNARE Close miking sound (5 inch snare) 13 * NICE_S1 NICE SNARE 1 With ambience 14 * FAT_S1 FAT SNARE 1 15 * IMPCT_S IMPACT SNARE With ambience 16 * SNAP_S1 SNAP SNARE 1 17 * OUCH_S OUCH I SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM2 With large room ambience | 9 | * MONDO_K | MONDO KICK | |
| 12 * TIGHT_S TIGHT SNARE Close miking sound (5 inch snare) 13 * NICE_S1 NICE SNARE 1 With ambience 14 * FAT_S1 FAT SNARE 1 15 * IMPCT_S IMPACT SNARE With ambience 16 * SNAP_S1 SNAP SNARE 1 17 * OUCH_S OUCH! SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM! With large room ambience | 10 | * WOOD_S1 | WOOD SNARE I | Close miking sound (8 inch snare) |
| 13 | 14 | * OPEN_S1 | OPEN SNARE I | Close miking sound |
| 13 | 12 | * TIGHT_S | TIGHT SNARE | Close miking sound (5 inch snare) |
| # IMPCT_S IMPACT SNARE With ambience 16 * SNAP_S1 SNAP SNARE ! 17 * OUCH_S OUCH! SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE ! Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE ! Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK ! 23 SIDSTK2 SIDE STICK ! 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM! With large room ambience | 13 | * NICE_S1 | NICE SNARE 1 | |
| 16 * SNAP_S1 SNAP SNARE : 17 * OUCH_S OUCH! SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE I Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE I Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK I 23 SIDSTK2 SIDE STICK I 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM! With large room ambience | 14 | * FAT_S1 | FAT SNARE 1 | |
| 17 * OUCH_S OUCH! SNARE With Reverb effect 18 * RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE I Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE I Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK I 23 SIDSTK2 SIDE STICK I 24 * DRY_T1 DRY TOM I Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 15 | * iMPCT_S | IMPACT SNARE | With ambience |
| # RVB_S1 REVERB SNARE With Reverb effect 19 * PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 16 | * SNAP_S1 | SNAP SNARE 1 | |
| # PICL_S1 PICCOLO SNARE 1 Close miking sound (3 inch snare) # RIMSHT1 RIMSHOT SNARE 1 Close miking sound # RIMSHT2 RIMSHOT SNARE 2 With ambience # RIMSHT2 RIMSHOT SNARE 2 With ambience # RIMSHT2 RIMSHOT SNARE 2 With ambience # SIDSTK1 SIDE STICK 1 # DRY_T1 DRY TOM 1 Close miking sound # DRY_T1 DRY TOM 2 Close miking sound # DRY_T2 DRY TOM 3 Close miking sound # DRY_T3 DRY TOM 4 Close miking sound # DRY_T4 DRY TOM 4 Close miking sound # ROOM_T1 ROOM AMBIENT TOM1 With large room ambience # ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 17 | * OUCH_S | OUCH! SNARE | With Reverb effect |
| # RIMSHT1 RIMSHOT SNARE 1 Close miking sound ## RIMSHT2 RIMSHOT SNARE 2 With ambience ## RIMSHT2 RIMSHOT SNARE 2 Close miking sound ## RIMSHT2 RIMSHOT SNARE 2 With ambience ## ROOM_T2 ROOM AMBIENT TOM1 Close miking sound ## ROOM_T2 ROOM AMBIENT TOM2 With large room ambience ## ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 18 | * RVB_S1 | REVERB SNARE | With Reverb effect |
| 20 * RIMSHT1 RIMSHOT SNARE 1 Close miking sound 21 * RIMSHT2 RIMSHOT SNARE 2 With ambience 22 SIDSTK1 SIDE STICK 1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 Close miking sound 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 19 | * PICL_S1 | PICCOLO SNARE 1 | Close miking sound (3 inch snare) |
| 22 SIDSTK1 SIDE STICK 1 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 20 | * RIMSHT1 | RIMSHOT SNARE 1 | *** |
| 23 SIDSTK2 SIDE STICK 1 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 21 | * RIMSHT2 | RIMSHOT SNARE 2 | With ambience |
| 24 * DRY_T1 DRY TOM 1 Close miking sound 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 22 | SIDSTK1 | SIDE STICK 1 | |
| 25 * DRY_T2 DRY TOM 2 Close miking sound 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 23 | SIDSTK2 | SIDE STICK I | |
| 26 * DRY_T3 DRY TOM 3 Close miking sound 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 24 | * DRY_T1 | DRY TOM 1 | Close miking sound |
| 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 25 | * DRY_T2 | DRY TOM 2 | Close miking sound |
| 27 * DRY_T4 DRY TOM 4 Close miking sound 28 * ROOM_T1 ROOM AMBIENT TOM1 With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 26 | * DRY_T3 | DRY TOM 3 | Close miking sound |
| 28 * ROOM_T1 ROOM AMBIENT TOM! With large room ambience 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 27 | * DRY_T4 | DRY TOM 4 | |
| 29 * ROOM_T2 ROOM AMBIENT TOM2 With large room ambience | 28 | * ROOMT1 | ROOM AMBIENT TOM! | |
| | 29 | * ROOM_T2 | ROOM AMBIENT TOM2 | |
| | 30 | * ROOM_T3 | ROOM AMBIENT TOM3 | ······································ |
| 31 - * ROOM_T4 ROOM AMBIENT TOM4 With large room ambience | 31 . | * ROOM_T4 | ROOM AMBIENT TOM4 | |
| 32 * POWR_T1 POWER TOM 1 With ambience | 32 | * POWR_T1 | POWER TOM 1 | |

| INST# | DISPLAY | DISPLAY INSTRUMENT NAME COMMENT | |
|-------|--------------|---------------------------------|-------------------------------------|
| 33 | * POWR_T2 | POWER TOM 2 | With ambience |
| 34 | * POWR_T3 | POWER TOM 3 | With ambience |
| 35 | * POWR_T4 | POWER TOM 4 | With ambience |
| 36 | * DOOMT1 | DOOM TOM 1 | With effect |
| 37 | * * CLSD_H1 | CLOSED HIHAT 1 | |
| 38 | * * OPEN_H1 | OPEN HIHAT 1 | |
| 39 | PDAL_H1 | PEDAL CLOSED HIHAT | |
| 40 | CRSH_C1 | CRASH CYMBAL 1 | |
| 41 | * * MLLTC1 | MALLET CRASH CYMBAL | Can be used for rolling with mallet |
| 42 | * * RIDE_C1 | RIDE CYMBAL 1 | |
| 43 | * * RDBLC1 | RIDE - BELL CYMBAL 1 | Mixture of bell and ride |
| 44 | BELLC1 | RIDE CYMBAL BELL | |
| 45 | 808CLAP | 808 HAND CLAP | Handelap of the TR - 808 |
| 46 | * OPEN_D1 | OPEN DRUM 1 | Large drum voice without Mute |
| 47 | * TAIKO1 | TAIKO 1 | Japanese drum, "Taiko" |
| 48 | CLAVE1 | CLAVE 1 | |
| 49 | CABASA1 | CABASA 1 | |
| 50 | COWBEL 1 | COWBELL 1 | |
| 51 | TAMBRN1 | TAMBOURINE 1 | |
| 52 | SHAKER1 | SHAKER 1 | |
| 53 | MUTE_CG | MUTE HIGH CONGA | |
| 54 | SLAP_CG | SLAP HIGH CONGA | |
| 55 | LOW_CG | OPEN LOW CONGA | |
| 56 | * * SLID_CG | SLIDE LOW CONGA | With sliding manner |
| 57 | AGOG01 | AGOGO 1 | |
| 58 | * * OCT_AGG | OCTAVE AGOGO | * |
| 59 | WHISTL1 | WHISTLE 1 | Short Whistle |
| 60 | WHISTL2 | WHISTLE 2 | Long Whistle |
| 61 | * * CAN1 | CAN 1 | |
| 62 | * * BACK_\$1 | BACK SNARE 1 | Reverse of RVB_S1 (INST # 18) |
| 63 | BACKT1 | BACK TOM 1 | Reverse of DOOM_T1 (INST # 36) |
| 64 | BACK_C1 | BACK CYMBAL 1 | Reverse of CRSH_C1 (INST # 40) |
| 65 | * * SPARK1 | SPARK 1 | |
| 66 | * * SURF | SURF | |
| 67 | * * WHEEL1 | WHEEL 1 | |
| 68 | REST | REST | No sound (for mute or choke) |

Copy Instruments

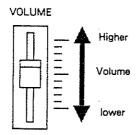
| COPY INST# | SOURCE INST # | DISPLAY | INSTRUMENT NAME | COMMENT |
|------------|------------------|-------------|-----------------------|--|
| 1 | 4 | * DBLH_K3 | DOUBLE HEAD KICK 3 | |
| 2 | 20 | * RIMSHT3 | RIMSHOT SNARE 3 | |
| 3 | 36 | .DOOM_T2 | DOOM TOM 2 | |
| 4 | 36 | DOOM_T3 | DOOM TOM 3 | |
| 5 | 37 | * * CLSD_H2 | CLOSED HIHAT 2 | Harder than CLSD_H1 |
| 6 | 37 | **CLSD_H3 | CLOSED HIHAT 3 | Similar to CLSD_H1, but hit at a position Closer to the edge |
| 7 | 38 | * * OPEN_H2 | OPEN HIHAT 2 | Can be used as halfopen |
| 8 | 38 | * * OPEN_H3 | OPEN HIHAT 3 | Open sound similar to bell |
| 9 | 40 | CRSH_C2 | CRASH CYMBAL 2 | |
| 10 | 40 | CHOK_C1 | CHOKED CRASH CYMBAL 1 | Muted with a hand immediately after hit |
| 11 | 40 | SPLA_C1 | SPLASH CYMBAL 1 | |
| 12 | 40 | SPLA_C2 | SPLASH CYMBAL 2 | |
| 13 | 45 | DRYCLAP | DRY HAND CLAP | *************************************** |
| 14 | 46 | * OPEN_D2 | OPEN DRUM 2 | |
| 15 | 49 | CABASA2 | CABASA 2 | |
| 16 | 50 | COWBEL2 | COWBELL 2 | |
| 17 | 55 | HIGH_CG | OPEN HIGH CONGA | |
| 18 | 57 | AGOGO2 | AGOGO 2 | |
| 19 | 38 | **PLATE | PLATE 1 | |
| 20 | 57 | RING1 | RING 1 | |
| 21 | 59 | PIPE1 | PIPE 1 | |
| 22 | 48 | WBLOCK1 | WOOD BLOCK ! | |
| 23 | 48 | WBLOCK2 | WOOD BLOCK 2 | |
| 24 | 65 | * * THRILLR | THRILLER | |
| 25 | 45 | GUNSHT1 | GUN SHOT 1 | |
| 26 | 52 | SHADOW | SHADOW | |

1. Manual Playing

You can try out a variety of sounds by playing it manually:

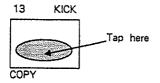
Step 1 Check that the unit is connected to your amplifier or mixer, switch the unit on.

Step 2 Raise the VOLUME slider.



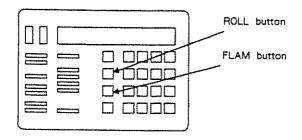
- Step 3 Simply tap each key; all keys have different drum instruments.

 Depending on the strength of tapping, the volume varies, instruments marked with "*" (in the table shown on page 14) will vary in according to the tapping strength.
 - *Tap the bottom of each key pad on the R-8 lightly, so that natural sound alteration (volume and tone) can be obtained. Hitting it with a drum stick will damage it.



To obtain a Flam effect, hit a key pad while holding FLAM down.

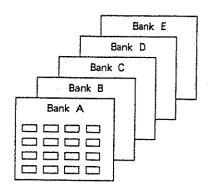
To add a Roll effect, depress a key pad with ROLL held down: while the key pad is being pressed down, the relevant sound will keep playing as long as ROLL is held down.



* If you wish to change the interval for Flam/Roll, see page 86 and 88.

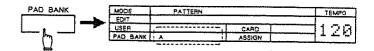
Pad Bank Selection

Any of the 80 different Instruments can be assigned to each key pad. A Pad Bank is a set of Instrument assignments to the 16 key pads. The R-8 can store up to five Pad Banks (A to E). You can select any of those five Pad Banks.



Procedure Press PAD BANK to change Banks.

The selected Pad Bank is shown in the display.



*If you wish to change the Instrument assignment or play an instrument which is not assigned to any key pad, perform "Instrument Assignment" on page 40,

The five Pad Banks consist of the following instruments:

Bank A

| CRSH_C1 (INT40) | CRSH_C2 (CPY09) | BELL_C1 (INT44) | RIDE_C1 (INT42) |
|-----------------|-----------------|-----------------|-----------------|
| DRY_T1 (INT24) | DRY_T2 (INT25) | DRY_T3 (INT26) | DRY_T4 (INT27) |
| SIDSTK1 (INT22) | RIMSHT1 (INT20) | CLSD_H1 (INT37) | OPEN_H1 (INT38) |
| DRY_K1 (INTO1) | FAT_S1 (INT14) | PDAL_H1 (INT39) | 808CLAP (INT45) |

Bank B

| CRSH_C1 (INT40) | CRSH_C2 (CPYO9) | BELL_C1 (INT44) | RIDE_C1 (INT42) |
|-----------------|-----------------|-----------------|------------------|
| ROOM_T1 (INT28) | ROOM_T2 (INT29) | ROOM_T3 (INT30) | ROOM_T4 (INT31) |
| BACK_S1 (INT62) | OUCH_S (INT17) | CLSD_H3 (CPY06) | OPEN_H2 (CPY07) |
| R00M_K1 (INT07) | RVB_S1 (INT18) | PDAL_H1 (INT39) | COWBELL1 (INT50) |

Bank C

| CRSH_C1 (INT40) | CRSH_C2 (CPY09) | BELL_C1 (INT44) | RIDE_C1 (INT42 |
|-----------------|-----------------|-----------------|-----------------|
| P0WR_T1 (INT32) | POER_T2 (INT33) | POWR_T3 (INT34) | POWR_T4 (INT35) |
| SIDTK2 (INT23) | RIMSHT2 (INT21) | CLSD_H1 (INT37) | OPEN_H1 (INT38) |
| DBLH_K2 (INTO5) | IMPCT_S (INT15) | PDAL_H1 (INT39) | SPLA_C2 (CPY12) |

Bank D

| WBLOCK1 (CPY22) | W8LOCK2 (CPY23) | AGOGO1 (INT57) | AGOGO2 (CPY18) | | | |
|-----------------|-----------------|-----------------|-----------------|--|--|--|
| LOW_CG (INT55) | HIGH_CG (CPY17) | SLAP_CG (INT54) | MUTE_CG (INT53) | | | |
| TAMBRN1 (INT51) | SHAKER1 (INT52) | CABASA1 (INT49) | CABASA2 (CPY15) | | | |
| OPEN_D1 (INT46) | CLAVE1 (INT48) | WHISTL1 (INT59) | WHISTL2 (INT60) | | | |

Bank E

| WHEEL1 (INT67) | BACK_T1 (INT63) THRILLR (CPY24) | SURF (INT66) GUNSHT1 (CPY25) | PIPE1 (CPY21) SHADOW (CPY26) |
|----------------------------------|---------------------------------|------------------------------|------------------------------|
| DOOM_T1 (INT36) BACK_C1 (INT64) | DOOM_T2 (CPY03) | SPARK1 (INT65) | PLATE1 (CPY19) |
| CHOK_C1 (CPY10) | SPLA_C1 (CPY11) | RDBL_C1 (INT43) | MLLT_C1 (INT41) |

INT: Internal Instrument CPY: Copy Instrument

2. Demonstration Songs

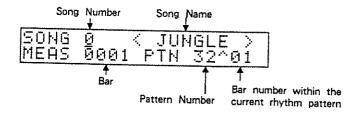
Sample song programs are stored in your R-8. Do as follows to play the demo songs.

Step 1 Press SONG .



*When the Menu Display is not shown, press EXIT

Step 2 Press 1 in the Numerical Keys to select "PLAY".

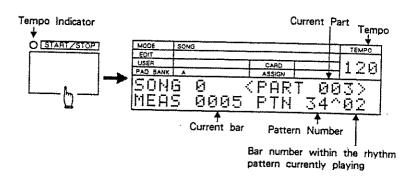


Step 3 Press 0 in the Numerical Keys to select song number 0.

* - 1 OFF + 1 ON or VALUE slider can also be used for selecting a song.

Step 4 Press START/STOP to start playing.

The Tempo Indicator blinks in step with the playing song, and the display shows the current status of the demo playback.

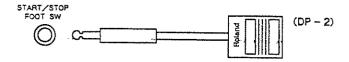


Step 5 Press START/STOP to stop playing.

Pressing START/STOP while holding SHIFT down will resume playing where it was stopped.

Start/Stop using a Footswitch

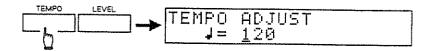
By connecting a footswitch (optional DP-2) to the Start/Stop Jack at the rear of the unit, you can start or stop playing with the footswitch.



Tempo Adjustment

To adjust the tempo, do as follows.

Step 1 Press TEMPO .



Step 2 Using -1/OFF +1/ON or the Numerical Keys, set the tempo (20 to 250).

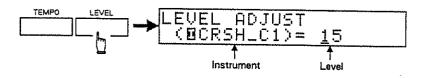
Higher values quicken the tempo.

Step 3 Press TEMPO to return to the previous display.

Level Adjustment

To adjust the level of each Instrument, do as follows.

Step 1 Press LEVEL .



Step 2 Press the key pad that correspond to the instrument whose level is to be changed.

Change Pad Banks with PAD BANK, if necessary.

Step 3 Using any of $\boxed{-1/OFF}$ $\boxed{+1/ON}$, the VALUE slider, or the Numerical Keys, set the level (0 to 15).

Higher values increase the volume (At zero, no sound is produced).

The level setting procedure can be monitored in the display.

LEVEL 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

| | | - | _ | - | _ | | | | | | | | | | | | |
|------|----------------------|--------------------------------------|-------------------------------------|--|--------|---|----------------|--------|--------|--------|--------|--------------------------|--------|--|---|-------|---|
| INST | 1 | • | | | • | • | • | | | • | | | Г | Т | Т | m | Г |
| INST | 2 | | • | | • | • | • | • | • | • | • | 1 | Г | - | - | ┪ | Η- |
| INST | 3 | | • | • | • | • | • | • | • | • | • | • | ٠ | • | • | • | _ |
| INST | 4 | | • | • | • | • | | • | | • | • | • | • | • | • | • | М |
| | INST INST INST | INST 1 INST 2 INST 3 INST 4 | INST 1 • INST 2 • INST 3 • INST 4 • | INST 1 • • • • • • • • • • • • • • • • • • | INST 1 | | INST 2 • • • • | INST 2 • • • • • • • • • | INST 2 | INST 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | NST 2 • • • • • • • • • • • • • • • • • • | NST 2 | NST 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |

You can make INST2 to INST4 show the Instruments set with Display Assign (see page 46). INST1 shows the last Instrument specified in Step Writing.

- Step 4 To continue, and set the level of the other Instruments, repeat steps 2 and 3.
- Step 5 Press LEVEL to return to the previous display.

3. Pattern Playing

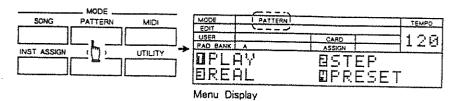
A song is made of many rhythm patterns. Let's play some Preset rhythm patterns and User-programmed (in fact, preprogrammed from the manufacturer) rhythm patterns.

a. Playing Preset Patterns

In the R-8, 32 different rhythm patterns (Preset Pattern Numbers 00 to 31) are preprogrammed. Any Preset Rhythm Pattern cannot be used for writing a song, Unless it is copied to a User-Pattern with the Pattern Copy function (see page 121). Also, the copied pattern can be edited to make a different rhythm pattern.

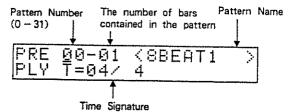
Let's play a Preset Rhythm Pattern.

Step 1 Press PATTERN to turn to the Pettern Mode.



* If the Menu Display does not appear, press EXIT .

Step 2 Press 4 in the Numerical Keys to select "PRESET".



Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, assign the Preset Number (0 to 31) you wish to play.

If you select a rhythm pattern made of more than one bar, you can start playing from the middle of the rhythm pattern.

Move the cursor to the Bar Number with \blacktriangleleft and \blacktriangleright , then assign the bar number to start playing using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys.

Step 4 Press START/STOP, and the rhythm pattern is played repeatedly.

To start playing from the assigned bar, press START/STOP while holding SHIFT down.

- Step 5 Press START/STOP to stop playing.
- Step 6 To play another Preset Pattern, repeat steps 3 and 4.
- Step 7 Press START/STOP to stop playing.

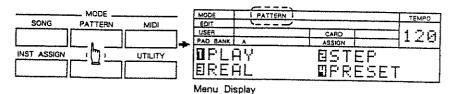
*To return to the Menu Display, press EXIT .

b. Playing User-Patterns

User-patterns can be edited any time.

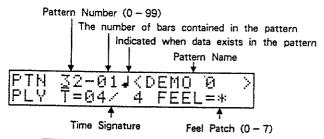
Now, let's play a user-pattern from the manufacturer (pattern numbers 00 to 31 are the same as the Preset patterns).

Step 1 Press PATTERN to turn to the Pattern Mode.



*If the Menu Display does not appear, press EXIT

Step 2 Press 1 in the Numerical Keys to select "PLAY".



Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, assign the Pattern Number (00 to 99) you wish to play.

If you select a rhythm pattern made of more than one bar, you can start playing from the middle of the rhythm pattern.

Move the cursor to the Bar Number with \blacktriangleleft and \blacktriangleright , then assign the bar number to start playing using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys.

Step 4 Press START/STOP, and the rhythm pattern is played repeatedly.

To start playing from the assigned bar, press START/STOP while holding SHIFT down.

Step 5 To play another User-Pattern, repeat step 3.

The selected pattern number is shown in the display and played after the current pattern.

Pattern Number to be played next

PTN 00°014<++PTN 02>
PLY T=04/ 4 FEEL=*

Step 6 Press START/STOP to stop playing.

*To return to the Menu Display, press EXIT .

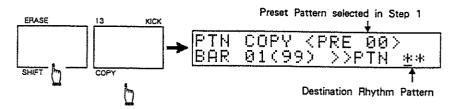
c. Feel Patch Assignment

Preset Rhythm Patterns contain rhythm patterns of past rhythm machine types, to demonstrate the effect of the Feel Patches. Feel Patches are not assigned to Preset Patterns, and therefore need to be copied to User-Patterns once.

Step 1 Select a Preset pattern where you wish to assign a Feel Patch from the following pattern numbers.

| Pattern Number | Type of the Rhythm Pattern |
|----------------|----------------------------|
| 00、01 | 8 beat type |
| 04、05 | 16 beat type |
| 10、11、20 | Triplet type |

Step 2 While holding SHIFT down, press Key pad 13 to enter the copying mode.



Step 3 Select the destination rhythm pattern (User-Pattern 00 - 99), then press ENTER.

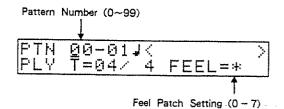
Pressing **ENTER** will copy the source pattern to the selected destination pattern.

*From the manufacturer, some demonstration rhythm patterns are preprogrammed in the User-Patterns. If you wish to retain these preprogrammed rhythm patterns, select a rhythm pattern number which contains no data.

Step 4 Press EXIT to return to the Menu Display.

Now, assign a preprogrammed Feel Patch to the copied User-Pattern.

Step 5 Press the Numerical Key 1, then assign the copied User-Pattern.



- Step 6 Press START/STOP to listen to the rhythm pattern before assigning a Feel Patch. Press START/STOP to stop playing.
- Step 7 Move the cursor to "FEEL" using . then select a Feel Patch with the Numerical Keys.

Select a Feel Patch that matches the rhythm pattern as shown in the table below.

| Pattern Number | Feel Patch Number |
|----------------|-------------------|
| 00、01 | 0, 1 |
| 04、05 | 2 – 4 |
| 10, 11, 20 | 5 - 7 |

To retrieve the rhythm pattern where the Feel Patch was not yet assigned, lower the VALUE slider to the minimum, then set the Feel Patch setting to "".

Step 8 Press START/STOP to start playing.

Natural and realistic performance is obtained because of the Feel Patch.

Next, play the same rhythm pattern with a different Feel Patch.

Step 9 Stop playing, then take the similar procedure as step 7 to play the rhythm pattern with a different Feel Patch.

The rhythm will sound different from Step 8.

Now, you see that Feel Patches work to create natural and realistic rhythm performance and that the same rhythm pattern will sound drastically different by using different Feel Patches.

There will be much more different and effective ways to use the Feel Patches.

2 BEFORE WRITING RHYTHM DATA

1. Procedures for Rhythm Programming

a. Three Procedures

To create original rhythm data, take the following three procedures.

Instrument Setting

- ●The R-8 stores 68 different Instruments. It may be a good idea to assign the Instruments to each Pad Bank before making rhythm patterns.
- The tone of each Instrument can be changed by editing the Sound parameters. Also, apart from the 68 Instruments, 26 more Instruments can be created using the Copy Instrument function.
- Using a Sound ROM card (optional), you can extend 26 more Instruments.

Pattern Write

- Pattern Write makes rhythm patterns which will later be used for combining into song data.
- ●Up to 100 rhythm patterns can be stored in the unit. Each rhythm pattern can have up to 99 bars.
- ●There are two methods for programming a rhythm pattern; Step Writing, in which the timing of sounds to be produced is determined one step at a time, and Real – time Writing, which is programming a rhythm by actually playing the key pads.
- The programmed rhythm patterns can be later edited using the range of Editing functions.

Song Write

- ●You can create data for use in performance (a song) by combining rhythm patterns you have made in Pattern Write.
- In a Song, a repeat mark, tempo and level change data, which is called a Part, can be appended with each rhythm pattern.
- ●Up to 10 Songs can be stored in the unit. Each song can have up to 999 Parts.
- For quicker song programming, use Delete, Insert and Copy functions, etc.

b. How to carry out Rhythm Programming

The R-8 features a great many functions and some of them may be unfamiliar to you. Some of you might feel lost and know not where to begin.

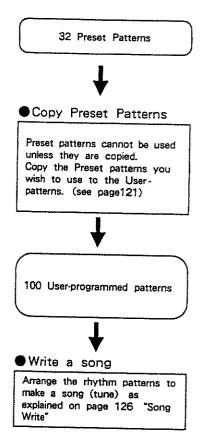
The following are three courses for rhythm pattern and song writing. Follow any course you like. To master the basic procedures for the R-8, follow all three courses.

The following three courses, however, do not include all the functions of the R-8. To make the best use of the R-8, read the owner's manual thoroughly.

The indexes (to functions and terminology) at the back of this owner's manual may be useful for accessing the function you want.

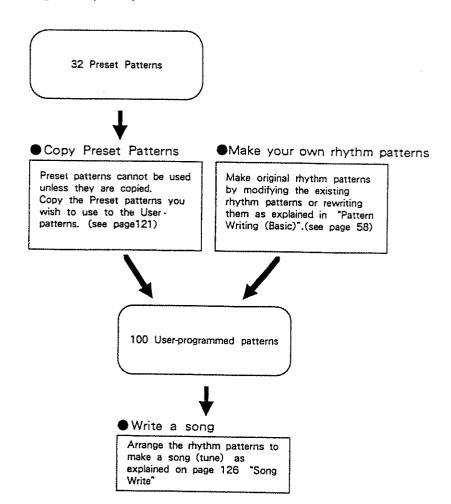
[Course 1]

Make a song using only the Preset or preprogrammed rhythm patterns.



[Course 2]

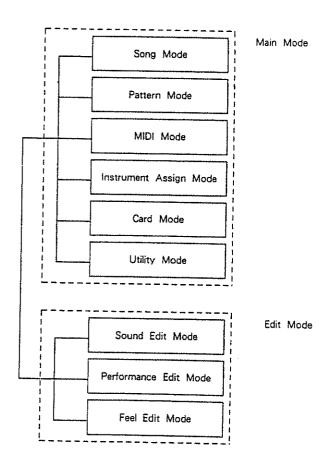
Make a song using not only preset rhythm patterns but also your original rhythm patterns.



[Course 3] Make a song with the Human Feel functions or Edit Functions. Procedure Set Performance parameters Editing procedure To write "tone change"data in a rhythm pattern, set the Performance parameters 32 Preset Patterns (see page 77) beforehand. ● Copy Preset Patterns Make your own rhythm patterns Preset patterns cannot be used Make original rhythm patterns by unless they are copied. modifying the existing rhythm Copy the Preset patterns you patterns or rewriting them as wish to use to the Userexplained in "Pattern Writing patterns. (see page 121) (Basic)".(see page 58) Edit Sequence Parameters Modify the sounds in a rhythm pattern to your taste as explained in "Editing the Sequence Parameters". (see page 107) 100 User-programmed patterns ● Edit the Timing Setting the Feel Patch Modify the timing of the sounds Add regular or random changes in a rhythm pattern delicately. to the sound to make the Editing the Timing performance more realistic. (see page 112) Feel Patch (see page 96) Write a song Arrange the rhythm patterns to make a song (tune) as explained on page 126 "Song Write"

2. The R-8's Nine Modes

The R-8 has the following modes; six Main modes and three Edit modes.



When the R-8 is on, it is set to one of the six Main modes. The Edit modes are of temporary status, so they can be reached from a Main mode at any time.

Main Mode

Song Mode

This mode is for playing, writing and editing Songs.

●Pattern Mode

This mode is for playing, writing and editing Rhythm Patterns.

●MIDI Mode

Select this mode to set MIDI parameters when using an external MIDI sound module or using the R-8 as a MIDI sound module.

●Instrument Assign Mode

This mode is used for assigning an instrument to each key pad or specifying instruments to be indicated in the Graphic display.

●Card Mode

This mode allows you to save data in the internal memory onto a memory card (RAM) or load data from an optional sound ROM card.

Utility Mode

This mode allows you to check the remaining memory capacity or erase all song or rhythm pattern data.

Edit Mode

Sound Edit Mode

This mode is for setting how each Instrument is to be played, by editing Pitch, Nuance, Sense Curve, Assign Type, Decay and Output Assign parameters.

◆Performance Edit Mode

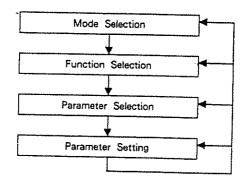
This mode allows you to set how the Instrument plays for each key pad, by editing Pitch, Decay, Nuance and Pan parameters.

●Feel Edit Mode

This mode is for setting the Feel Patch.

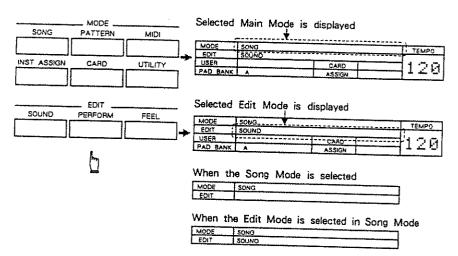
3. Basic Procedures

Proceed with the R-8's basic operations in the following order. It is very important to understand this before actually moving into each operation section.



1) Mode Selection

Select an appropriate Mode.



- ●Use an appropriate MODE button (SONG), PATTERN, MIDI, UTILITY

 CARD or INST ASSIGN), for selecting a Main Mode (without rhythm playing).
- ●Use an appropriate Edit button (SOUND, PERFORM or FEEL), for selecting an Edit Mode. To return to the Main Mode, press the same EDIT button or any MODE button.

2) Function Selection

Select a function you want.

The Menu Display appears on selecting a mode.

Menu Display of the Song Mode

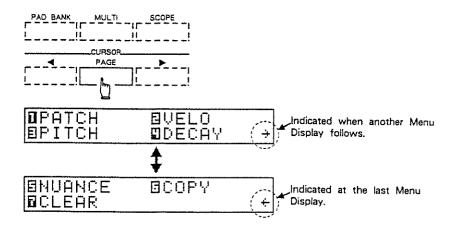
IPLAY 目以RITE

*When a Menu Display does not appear, press EXIT. If a Main Mode is selected, pressing the same MODE button will call a Menu Display just the same.

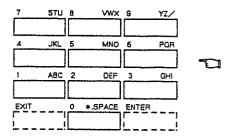


•A Menu Display shows the function names which are available in the current Mode.

Some Modes may have more than one page of menu display. If so, " \rightarrow " is shown at the right corner of the display, and you can shift the menu displays using \boxed{PAGE} .

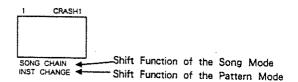


•Using the Numerical Keys, specify the number shown at the left of the function name, to change to the function setting display.

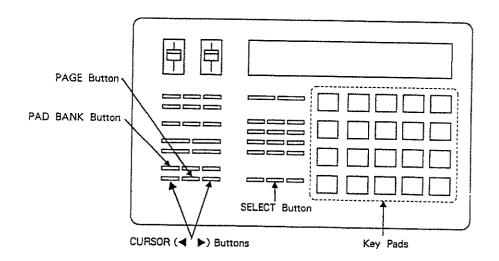


- *You can specify functions which reside in other pages of menu displays (those is not shown in the current menu display).
- ●To select another function that belongs to the same Mode, press EXIT to return to a Menu display.

The Song Mode and Pattern Mode feature functions (Shift Functions) which are not shown in the Menu Display. Shift functions are written under each key pad. To use a Shift function, with the unit stopped, tap the relevant key pad while holding SHIFT down.



3) Parameter Selection Select the parameter you want from the function in use, as follows.



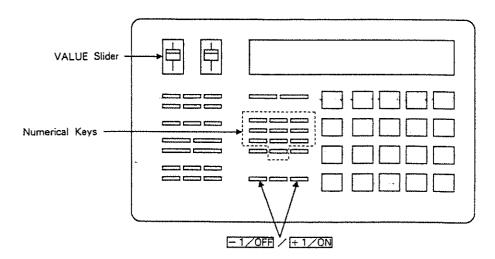
PAGE

Some Functions have more than one page of displays. When a function has more than one page, "-- " is shown at the right corner of the display, and you can shift pages using PAGE.

When more than one parameter is shown in the display, you can move the cursor (underline charactor) to the value of the relevant parameter using or .

- SELECT When "\$" is shown at the left of a parameter, pressing SELECT will change parameters.
- PAD BANK / Use this for selecting an Instrument or writing rhythm patterns.
 Key Pad

4) Parameter Setting The value of a parameter can be edited as shown below.



● - 1/OFF + 1/ON

Use these buttons to make precise changes in value.

+1/ON increases values, while -1/OFF decreases them.

While holding +1/ON (-1/OFF) down, press -1/OFF (+1/ON)

to quicken the value changes.

● VALUE Slider

Use this to change values drastically.

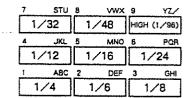
Numerical Keys

Use these to enter numbers and letters; or to set beat or Quantize values. When you enter a number, put 0 instead of leaving it empty.

< Ex.>

To change from 123 to 15, enter 015 instead of just 15. To change 13 to 3, enter 03 instead of just 3.

To set a beat or Quantize, the following values can be entered using Numerical Keys 1 to 9.



^{*}Parameters whose values are enclosed with the * marks (Ex. * POLY *) cannot be entered with the Numerical Keys.

Indications shown in the display have the following meanings:

| Mode | Display | Description |
|---|---|--|
| Function Selecting Parameter Selecting | ÷ ÷ Lower right corner or upper right corner | The display changed with PAGE. |
| Parameter Selecting | 李 Parameter Name | Pressing SELECT changes the parameters. |
| Parameter Setting | :†: Value :†: | The value cannot be entered with Numerical keys. |
| - diameter outling | * * * | The value is not set or cannot be set. |
| Instrument Selecting | (Instrument Name) | Specify the instrument with a Key Pad. |
| | PTN00-00 | Pattern number and the number of bars contained. |
| | PTNOO^OO | Pattern number and current bar. |
| Rhythm Pattern Display | PTN0000 | Pattern number and the bar number that can be written (in the step writing). |
| | PTNOO-OOJ | Data is written in the pattern number currently shown. |
| | PTH00-00* | No data exists in the pattern number currently shown. |
| Song Writing | ? | No data is written in the selected part. Or the data currently shown in the display is not yet written in the Part. |



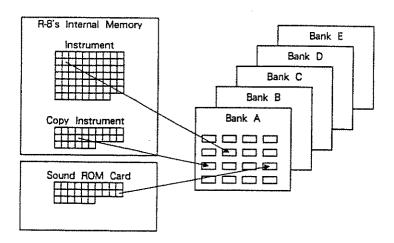
| 1 | Instrum | ent Ass | signment | P. 40 |
|---|---------|---------|------------|-------|
| 2 | Setting | Sound | Parameters | P. 47 |

1 INSTRUMENT ASSIGNMENT

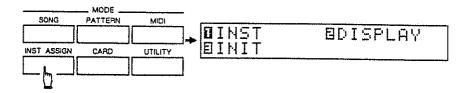
This section explains about the Instrument Assignment to each key pad, how to use a ROM card and how to set the Instrument to be shown in the Graphic Display.

1. Instrument Assigning

To each key pad, you can assign one of the 68 instruments, 26 instruments on a Sound ROM card or 26 Copy Instruments (see page 54).

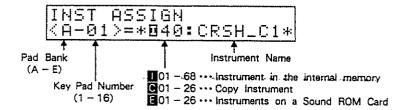


- *When you are using instruments on a Sound ROM card, read the next chapter "How to use a Sound ROM card", then follow the procedure.
- *Even after you have edited the original instrument assignment (preset from the manufacturer), it can be restored at any time with the instrument Assign initialize procedure (see page 158).
- Step 1 Press INST ASSIGN to turn to the Instrument Assign Mode.



*If the Menu Display is not shown, press EXIT .

Step 2 Press Numerical Key 1 to salect "INST".



*If the key pads are set to Multi Assign (see page 81), the display will respond as shown below. Turn to the instrument Assign mode by pressing MULTI.

- Step 3 Select a Pad Bank with PAD BANK .
- Step 4 Tap the key pad for which you wish to change the assignment.
- Step 5 Using 1/OFF + 1/ON or VALUE slider, specify the instrument to be assigned.
 - *You can assign the same instrument to more than one key pad.
 - *If you have assigned an instrument on a ROM card without connecting the relevant card, "* * E 01 : CARD01 *" is displayed.
- Step 6 To continue, and edit the other Banks, repeat steps 3 to 5.
- Step 7 Press EXIT to return to the Menu Display.

How to use a Rest

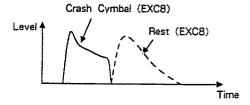
Instrument number 68 has no sound data (rest). Using the Rest, you can create a choking gate, or mute effect.

Procedure Set the Assign Type (see page 50) of the Rest and the instrument to the same EXC number. Then play the Rest (assigned key) right after the instrument. In this way, the instrument is muted in the middle.

< Ex.> Choking effect: hitting a crash cymbal then muting it with your hand.

Gate Snare: Cutting the snare's reverberation with gate.

*The muting effect using the Rest can be written in a rhythm pattern, then it will be performed (muted) at the right timing according to the tempo.

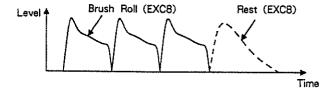


Brush Roll Performance

To use the Brush Roll on the optional Sound ROM card:

Set the Assign Type (see page 50) of the Roll Brush sound to any of the EXC numbers.

By entering Roll Brush sounds continuously, the sustained sound of the Brush Roll is muted, effecting Brush Roll performance.



- *By setting the Assign Type of the Brush Roll and the Rest (Instrument Number 68) to the same EXC number, then entering a Rest right after the last sound, the last Brush sound will also be muted.
- Brush Roll sound is a slow rising sound, and therefore will be played rhythmically by shifting the overall timing forward with "Macro Timing Shift" (see page 112), or "Micro Timing Shift" (see page 113).

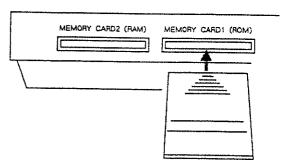
2. How to use a Sound ROM Card

Using an optional Sound ROM card, you can extend 26 more Instruments.

Playing the Demonstration Song on the Sound ROM card A Sound ROM card contains some demonstration songs. To play these songs, do as follows.

*Loading demonstration songs into R-8's internal memory will erase any current song and rhythm pattern data stored in the R-8.

Step 1 Connect the ROM card to the ROM Card Slot securely (so that it clicks).



Step 2 Press CARD to turn to the Card Mode.

| IOLOAD RAM | ASOUF | DOTAM |
|-----------------|--------|------------|
| | DOHVE | RAM I |
| IBFORMAT | mi ace | PT-100-1-1 |
| IBL OKUH! | ML OAD | RUM I |
| (C) (C) (C) (H) | ᄣᇆᄓᅜᅝ | KUNI |

Step 3 Press Numerical Key 4 to select "LOAD ROM".

| ₪ SOUND ₪ SOUND&DEMO |
|------------------------------------|
|------------------------------------|

Step 4 Press Numerical Key 2 to select "SOUND & DEMO".

| LOAD | ROM SOUND&DEMO | ٦ |
|-------|----------------|---|
| + → F | ire you sure ? | |

*Press EXIT if you want to leave the mode.

Step 5 Press ENTER .

The message "Loading" appears showing that the demonstration songs are now being loading.

Step 6 Assign Song Number 0 in the Song mode, then press START/STOP to start playing.

Loading a ROM Card When using a brand new ROM card, you need to perform the ROM Card Loading procedure so that the R-8 can recognize the specified ROM card. By loading the ROM card, instruments on the ROM card can be used.

> Also, when switching ROM cards, load each ROM card. The instruments on the ROM card cannot be used unless they are loaded to the R-8.

> *While using any instrument on a ROM card, keep the ROM card connected to the R-8.

> *If you load the ROM card after editing the Sound parameters of the instrument on the ROM card, the Sound Parameters of the Instrument (on the ROM card) will return to the previous values before any editing was made. To retain the original data being edited, save it onto a RAM card (see page 165).

> *The loaded data of a ROM card can be written on a RAM card. When you use a RAM card that contains a ROM card's data, you do not need to re - load the ROM card.

To use a brand new ROM card

When you use a brand new ROM card, insert the ROM card with the R-8 switched off, then switch it on. In this way, the ROM card will be automatically loaded.

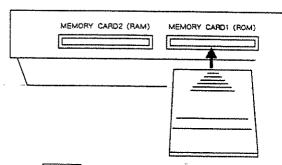
When the loading is completed, Card Number 1 is displayed.

| MODE | PATTERN | | | Ŧ | EMPO |
|----------|---------|--------|---|---------------|------|
| EDIT | | | | $\overline{}$ | |
| USER | | CARD | 1 | 1 | 201 |
| PAD BANK | ۸ | ASSIGN | | * | |

To exchange a ROM card

To replace the ROM card with another one, load the ROM card as follows:

Step 1 Connect the ROM card to the ROM Card Slot securely (so that it clicks).

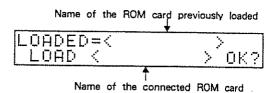


Step 2 Press CARD to turn to the Card Mode.

| 191 9141311 - 111614 11111 | OLOAD RAM Eformat | BSAVE | RAM ROM |
|----------------------------|----------------------|-------|------------|
|----------------------------|----------------------|-------|------------|

Step 3 Press Numerical Key 4 to select "LOAD ROM".

Step 4 Press Numerical Key 1 to select "SOUND".



*If the card is not correctly connected, the display responds with "Card not ready".

If this happens, remove the card, reinsert it properly, then repeat the procedure.

*If the connected ROM card is not the specified one, the display responds with "illegal card". If this happens, remove the card, insert a proper card, then repeat the procedure.

*Press EXIT if you want to leave the mode.

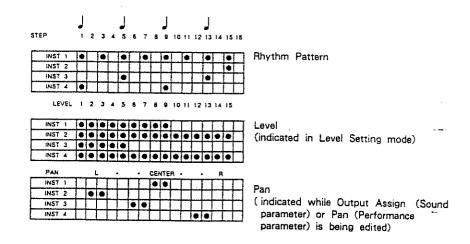
Step 5 Press ENTER .

"Completed" appears in the display showing that the loading is done. When the loading is completed, the display shows Card Number 1.

| | | | |
|----------|-------------|---------|---------|
| MODE | | CARD | TEMPO |
| EDIT | | | |
| USEA | | CARD 11 | 100 |
| PAD BANK | C A | ASSIGN | التاستا |

3. Display Assign

According to the mode currently selected, the Graphic Display shows the rhythm pattern, level and pan setting of the instruments you specified.



The instruments shown at INST 2 to 4 can be changed as follows.

*INST 1 displays the last instrument specified in Step Writing.

- Step 1 Press INST ASSIGN to turn to the Instrument Assign mode.
- Step 2 Press Numerical Key 2 to select "DISPLAY".

- Step 3 Specify INST 2 to 4 shown in the graphic display with SELECT.
- Step 4 Press the key pad that corresponds to the instrument to be assigned.
- Step 5 Press EXIT to return to the Menu Display.

2 SETTING SOUND PARAMETERS

Each Instrument's (rhythm voices) tone can be edited to your taste. Up to 26 edited versions of Instrument data can be registered as a Copy instrument.

The following parameters are involved for instrument editing.

| Display | Parameter |
|---------|---------------|
| PITCH | Pitch |
| DECAY | Decay |
| NUANCE | Nuance |
| ОИТРИТ | Output Assign |
| ASSIGN | Assign Type |
| CURVE | Sense Curve |

^{*}Pitch, Decay, Nuance and Output Assign can be edited separately for each key pad using performance parameters (see page 77).

1. Description of Sound Parameters

a. Pitch (-4800 to +4800 cent)

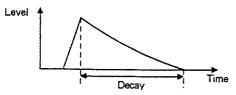
The pitch of each instrument can be set in 10 cent steps. Higher values increase the pitch (semitone = 100 cents).

*Some instruments will not become higher or lower than a certain pitch.

b. Decay (000 to 127)

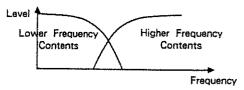
SOUND EDIT(BRIDE_C1) \$DECAY = 050:050

This sets the decay time of the instrument. Higher values make the decay time longer.



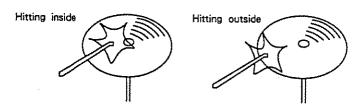
An Instrument which can accept Nuance (see next page) allows you to set two different decay times. Two values are shown in the display so that you can set each of them by moving the cursor with \blacktriangleleft and \blacktriangleright .

●An Instruments marked with "*" on page 14, such as kick drum, snare drum and tom, allow you to set the decay time individually for the attack sound content (higher frequency content: the valve shown left) and the shell resonance content (lower frequency content: the value shown right). Therefore, the snare on a snare drum or muting condition of a tom—tom can be controlled.



Hihat or Ride Cymbal with the "**" mark allows you to set the decay times individually for the sound created by hitting the inner part of the cymbal (the value at the right) and the outer part of the cymbal (the value at the left).

The sound can be delicately controlled by setting the decay times for the inside and outside of a cymbal.



- *Decay time of some instruments cannot be set longer or shorter than a certain value.
- *Decay time does not change in reversed type instruments.

c. Nuance (0 to 15)

SOUND EDIT(®RIDE_C1) \$NUANCE= <u>0</u>8

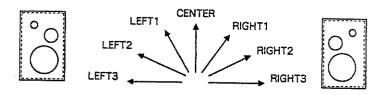
The nuance of an Instrument marked with the "*" or "**" mark (in the table shown on page 14) can be changed using the Nuance parameter.

- In an Instrument with the "*" mark, lower frequency sounds will be increased by raising the value.
- In Hihat or Ride Cymbal with the "**" mark, higher values represent sound created by hitting closer to the center of the cymbal.

*Instruments for which Nuance cannot be set will show "--" instead of the value.

d. Output Assign (LEFT 1 to 3, CENTER, RIGHT 1 to 3, MULTI 1 to 8)

This selects the output jack (Stereo out/Multi out 1-8) that outputs each instrument. When stereo outputs are being used, one of the 7 panning levels can be selected.



When Stereo Output is assigned, the set pan level is shown in the graphic display.

| PAN | | Ļ | | | | | CEI | YTE | Я | + | | ٠ | F | , | |
|---------|---|---|---|---|---|---|-----|-----|----|---|--------------|----|---|----|---|
| 'INST 1 | | Т | Т | Т | Г | Π | Г | 7 | Т | | Т | П | | • | Т |
| INST 2 | Т | Т | Т | 1 | _ | Т | • | • | 1 | T | Ι- | 1 | F | Ť | - |
| INST 3 | Т | Т | 1 | | Г | _ | • | • | Ι- | 1 | r | t- | H | ⊢ | r |
| INST 4 | 7 | ┱ | | | - | Н | | _ | ┢ | 1 | | ╆╌ | ⊢ | ┢╾ | ┝ |

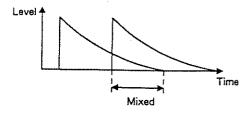
You can make INST 2 to 4 show the data of any Instrument you like. To change the Instruments, take the Display Assign procedure (see page 46). INST 1 shows the last instrument specified in the Step Writing.

e. Assign Type (Poly/Mono/EXC 1 to 8)

When more than one instrument or the same instrument are played simultaneously, this parameter determines how the instruments should play.

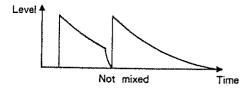
POLY

This is effective for playing a long decay sound like a cymbal continuously without cancelling sounds each time it is played.



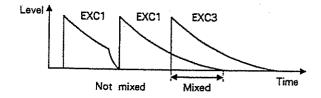
•MONO

If a long decay instrument is played continuously, every time it is played the decay will be cut.



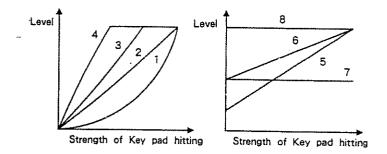
●EXC 1 to 8

The instruments which are set to the same EXC numbers cannot be played at the same time. Set two instruments (such as open and closed hihats) which are not normally played simultaneously to the same EXC number.



f. Sense Curve (1 to 8)

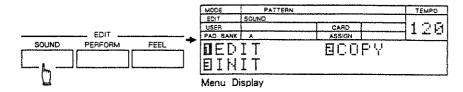
This selects one of the eight Sense Curves that determine tone and volume changes caused by tapping the key pads.



2. Editing Procedure

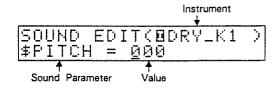
The following editing procedure can set the Sound parameters of the Instrument assigned to key pads.

- *When the instrument you wish to edit is not assigned to any Key pad, assign it to a Key pad using the instrument Assign procedure (See page 40). To use an instrument from an optional Sound ROM card, take the same procedure.
- *Even after editing Sound parameters, you can initialize them (restore the data preprogrammed from the manufacturer). See page 159 "Initializing Sound Parameters".
- Step 1 Press SOUND to turn to the Sound Edit Mode.



*If the Menu Display is not shown, press EXIT .

Step 2 Press Numerical Key 1 to select "EDIT".



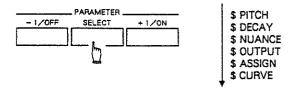
Step 3 Tap a key pad that corresponds to the instrument to be edited.

Switch the Pad Banks with PAD BANK, if necessary.

*If you have assigned an instrument on a ROM card without connecting the relevant card, " E CARDO1" is displayed.

Step 4 Select a parameter with SELECT.

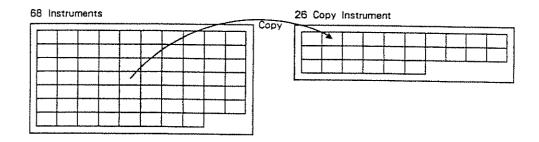
Pressing SELECT calls parameters in sequence as shown below.



- Step 5 Using -1/OFF +1/ON or VALUE slider, change values (Monitor the sound by tapping the key pads).
 - *Parameters other than Output Assign and Assign Type can be entered with the Numerical Keys.
- Step 6 To continue, and edit the other parameters, repeat steps 4 and 5.
- Step 7 To continue, and edit the other instruments, repeat steps 3 to 6.
- Step 8 Press SOUND to return to the previous display.

3. Copy Instrument

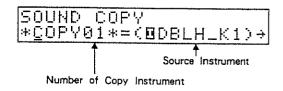
The R-8 can store 26 more instruments (which are called Copy Instruments: COPY 01 to 26) apart from the 68 main instruments. Copy instruments are created by copying existing instruments, which are registered as Copy Instruments. Any Copy Instrument can be edited.



Registering a Copy Take the following procedure to register a Copy Instrument.

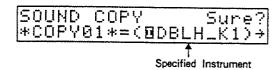
Instrument

- Step 1 Press SOUND to turn to the Sound Edit Mode.
- Step 2 Press Numerical Key 2 to select "COPY".



- Step 3 Using -1/OFF +1/ON or VALUE slider, specify the destination Copy Instrument number (COPY 01 to 26) where the copied instrument is to be registered.
- Step 4 Tap a key pad that corresponds to the instrument to be copied.

 Switch the Pad Banks with PAD BANK, if necessary.



*The Instruments on a sound ROM card (optional) can be registered as well. *To leave this mode, press $\boxed{\text{EXIT}}$.

Step 5 Press ENTER .

"Completed" appears in the display showing that the instrument is registered as a Copy Instrument.

Step 6 Press EXIT to return to the Menu Display.

*When you have copied an instrument on a Sound ROM card to a Copy Instrument number, keep the card connected.

Naming a Copy Instrument

A Copy Instrument can be named using up to 7 letters.

With the unit set to the Sound Edit Mode, do as follows:

Step 1 In the Menu display, Press Numerical Key 2 to select "COPY".

Step 2 Press PAGE to cause the display to change for naming instruments.

- Step 3 Using -1/OFF +1/ON or VALUE slider, specify the Copy Instrument number (COPY 01 to 26) to be named.
- Step 4 Move the cursor to the position with ◀ and ▶, you wish to change, then change numbers / letters / symbols using -1/OFF +1/ON, VALUE slider or Numerical Keys.

Pressing a Numerical Key also switches the number and letter/symbol mode alternately. Pressing the Numerical Key while holding SHIFT down will produce lowercase letters.

Step 5 Press EXIT to return to the Menu Display.

RHYTHM PATTERN PROGRAMMOG

| 1 | Pattern | Writing | (Basic) | Р. | 58 |
|---|------------|---------|------------|----|-----|
| 2 | Pattern | Writing | (Advanced) | P. | 77 |
| 3 | Feel Patch | | | Р. | 96 |
| 4 | Rhythm | Pattern | Editing | P. | 107 |

1 PATTERN WRITING (Basic)

Up to 100 different rhythm patterns (each consisting of up to 99 bars) can be programmed in the R-8.

*The R-8's memory capacity is limited. It may not allow you to program 100 rhythm patterns if they consist of many steps and/or bars.

To check how many more rhythm patterns can be written into memory, use the Available Memory function (see page 152).

There are two ways of writing patterns:

Real-time Writing

We can write rhythm patterns by tapping the key pads in time to the metronome. The Quantize function can correct timing inconsistency in rhythm pattern writing.

Step Writing

Enter the timing (a step) for each instrument. This method may be suitable for those who are not good at Real-time writing.

You can use both methods for writing one rhythm pattern. For instance, you may write a basic rhythm pattern in Step time, then add some more sounds in Real-time. Or you may make a rhythm pattern in Real-time then modify it using the Step Writing.

1. Default Settings for Pattern Writing

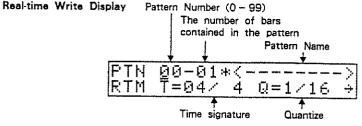
Before writing rhythm patterns either in the Step time or Real-time, take the following procedure.

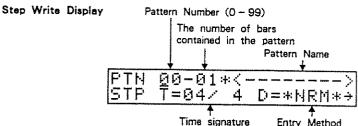
Step 1 Press PATTERN to turn to the Pattern Mode.

| D PLAY | BSTEP |
|---------------|----------------|
| DREAL | DPRESET |

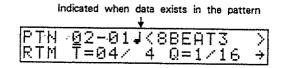
*If the Menu Display is not shown, press EXIT .

Step 2 To select Real-time writing, press Numerical Key 3, and to select Step writing, press Numerical Key 2.



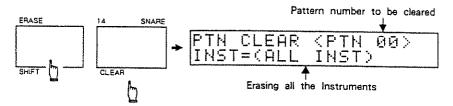


Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, select a pattern number (00 to 99).



If you wish to erase the entire rhythm pattern, specific instrument go to step 4 and/or 5. Otherwise, move to the Real-time Writing (page 61) or Step Writing (page 65),

Step 4 While holding SHIFT down, tap key pad 14.



*If no performance data is written in the selected rhythm pattern, the Measure/ Time setting display appears. Skip step 5 and go to step 6.

Step 5 Erase unneeded Instruments.

●To erase all the instruments, press ENTER .

The Measure/Time setting display appears, so that you can continue to step 6.

●To erase specific Instruments, tap the key pads that correspond to the Instruments, then press ENTER (The names of the specified Instruments are shown).

The Pattern Write display appears, so that you can move to Step writing (page 65) or Real-time writing (next page).

*To leave the mode, press EXIT .

Step 6 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, set the number of bars (00 to 99) to be used in the pattern.

Step 7 Set the Time Signature of the rhythm pattern.

Move the cursor to the time signature with \blacktriangleleft and \blacktriangleright , then specify the timing using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys. (Variable Range : 1-8/4, 1-12/6, 1-16/8, 1-24/12, 1-32/16, 1-48/24, 1-64/32)

Step 8 Press ENTER to return to the display of step 2.

Go to Step writing (page 65) or Real-time writing (next page).

*If you switch off the unit during Pattern writing, the data you have written may be erased.

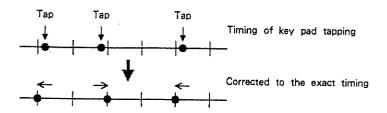
2. Real-time Writing

Take the following procedure after the "Default Settings for Pattern Writing" procedure (page 59).

*In the Real-time writing mode, you can use the metronome, preset by the manufacturer, to play in quarter note timing with Real-time writing. To change the metronome settings, see page 63.

Quantize

The Quantize function can correct the timing of the key pad tapping according to the set resolution. If you wish to write data in the timing of key pad tapping, set resolution to HIGH.



To change the Quantize setting, do as follows with the unit set to the Realtime writing mode.

*The Quantize values can also be changed during Real-time writing. In this case, the edited quantize value is in effect from the next bar.

Step 1 Move the cursor to the Quantize value with 4 and 1.

1/96 notes)

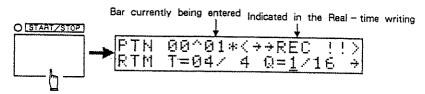
Step 2 Specify the Quantize value using - 1/OFF + 1/ON , VALUE slider or Numerical Keys 1 to 9.

(The variable range: 1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32, 1/48, HIGH =

Real-time Writing

Now, let's enter Instruments with Real - time Writing.

Step 1 Press START/STOP to start playing the rhythm pattern.



*The metronome plays according to the setting of the metronome (next page).

Step 2 Press TEMPO, then set the tempo using -1/OFF / +1/ON, VALUE slider or Numerical Keys.

*During tempo setting, you can play a rhythm by tapping the key pads, but the rhythm pattern is not written in memory. So, you may practice playing.

Step 3 Press TEMPO to return to the Real-time Writing display.

Step 4 Tap the key pads in time to the metronome to write the instrument sounds (the written sounds will be played repeatedly).

If necessary, change Pad Banks with PAD BANK .

Indicated when a sound is entered
$$+$$

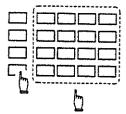
PTN 00^01 \downarrow < \Rightarrow REC !!>
RTM T=04 \neq 4 Q=1 \neq 16 \Rightarrow

Step 5 Press START/STOP to stop playing.

Step 6 Press EXIT to return to the Menu Display.

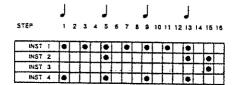
Erasing the sounds

To erase some sounds you have written, while still in the Real-time writing mode, hold **SHIFT** down, and without releasing it, push the key pad of that instrument until the sound has disappeared. Do this with the unit playing the rhythm.



Graphic Display

The written rhythm pattern is shown in the graphic display (Even finer timing values are shown with 16th note or triplet).



INST 1 shows the last Instrument written with Step Writing.
INST 2 to 4 can freely be assigned the Instrument to be shown.
To assign the instruments, take the Display Assign procedure (page 46).

Metronome Settings

The following parameters are integral to metronome setting.

Interval

This selects the timing of the metronome. (1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32)

●Mode

This selects one of the following modes.

EVERY RECMetronome is always on (in the Real-time writing).

EMPTY RECMetronome plays when no data is written in the rhythm

pattern and does not play when any sound is written.

EVER OFF......Metronome is off.

Level

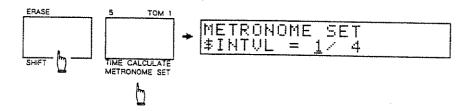
This sets the volume of the metronome (0-15). At zero, the metronome does not sound.

Output

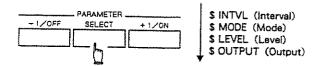
This selects an output jack where the metronome is output, from the Stereo output and Multi outputs 1-8. When the Stereo output jack is selected, one of the 7 pan settings (LEFT 1-3, CENTER, RIGHT 1-3) can be set.

To change the Metronome settings, do as follows with the unit set to the Pattern Playing mode and stopped.

Step 1 While holding SHIFT down, tap key pad 5.



Step 2 Press SELECT to select the parameter to be edited.



- Step 3 Edit the value of the parameter with -1/OFF / +1/ON, or VALUE slider.

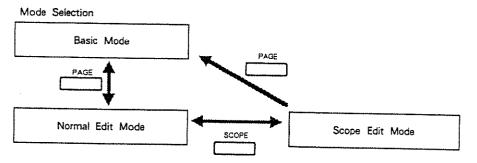
 The Interval and Level can also be set with Numerical Keys.
- Step 4 Repeat steps 2 and 3 to continue and edit the other parameters.
- Step 5 Press ENTER to return to the previous display.

3. Step Writing

The Step writing mode allows you to write one step for each Instrument at a time.

a. Step Writing modes

The Step Writing consists of the three displays (modes) as shown below. Select a display you need.

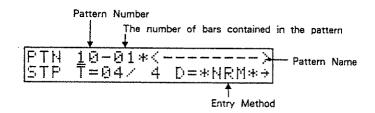


Functions of Modes

| Mode Display | Basic Mode | Edit Mode | | | | | | |
|--|--------------|------------------|-----------------|--|--|--|--|--|
| Function | Desic IVIOUS | Normal Edit Mode | Scope Edit Mode | | | | | |
| Rhythm Pattern selection | 0 | × | × | | | | | |
| Entry Method selection | 0 | × | × | | | | | |
| Step Write In Step unit In Scope Step unit | O × | O × | 0 | | | | | |
| Sequence Parameter Editing In Step unit In Scope Step unit | x x | O × | 0 0 | | | | | |

Basic Mode

To select the Basic Mode for Step Writing, select "STEP" in the Menu Display.



- 1) Selecting a rhythm pattern
- This selects the rhythm pattern where you write data.
- 2) Changing bars for writing steps

In Step writing, the steps are specified using the 16 key pads. When the total number of steps is more than 16 (that is, the rhythm pattern is made of more than one bar), you need to change bars for making a rhythm pattern.

3) Setting the length of a step and the graphic display Depending on the rhythm pattern to be programmed, you can select either of the two step entry modes.

*The step entry modes cannot be changed while the rhythm is playing in the Step Writing.

●Normal Entry (NRM)

This mode may be selected for making 8 or 16 beat rhythm pattern. In this normal entry mode, one step is 16th note (Quantize Q = 1/16 in the Real-time writing).

. Triplet .Entry (TRI)

This mode may be selected for making triplet type rhythm patterns. In this Triplet entry mode, one step is a triplet (Quantize Q = 1/12 in the Real-time writing).

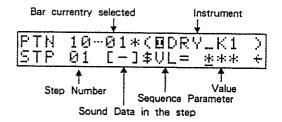
4) Basic Step Writing

The steps are entered using the 16 key pads for each Instrument respectively.

*In the Basic Mode, when the total number of steps in a bar exceeds 16 (Ex. 5/4 time), the exceeded steps cannot be written. You should use the Normal Editing or Scope Editing mode.

Normal Editing Mode

To select the Normal Editing mode, press PAGE in the Basic mode.

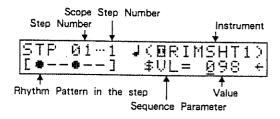


- 1) Step Write
- Just like in the Basic mode, the steps are entered using the 16 key pads for each Instrument respectively.
- 2) Editing Sequence Parameters

For each step you have written, sequence parameters (see page 107) can be set. The Normal Editing mode allows editing of the sequence parameters in a step unit.

Scope Editing Mode

To select the Scope Editing mode, press SCOPE in the Normal Editing mode.

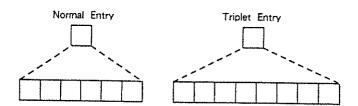


The Scope Editing mode has the following functions.

1)Step Writing in each Scope Step

In the Scope Editing mode, you can use a fine timing (1/96 note = Quantize Q = HIGH in the Real-time writing) for specifying steps (Scope steps).

Specify the step which you wish to write using a Scope step, then set the scope step. The number of scope steps which can be specified vary depending on the setting of the entry mode (6 in Normal Entry, and 8 in the Triplet Entry).



2)Editing Sequence Parameters in Scope Step unit

For each step you have written, sequence parameters (that affect the Tone of Instruments) can be set. The Scope Editing mode allows you to edit the sequence parameters in a Scope step unit.

b. Basic Step Writing

The following explains Step Write in the Basic mode.

Step 1 To write a rhythm pattern made of more than one bar, specify the number of bars to be written. Move the cursor to the bar number with ◀ and ▶, then using -1/OFF +1/ON, Numerical Keys or VALUE slider, set the bar number.

Bar Number to be written

→

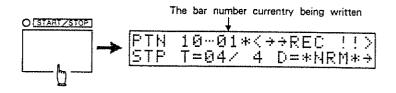
FTN 10...01*<---->

STP T=04...4 D=*NRM*

Entry Method

- Step 2 Select the length of a step. Move the cursor to the value of "D" with and , then using -1/OFF +1/ON or VALUE slider, select Normal Entry (16th note) or Triplet Entry (triplet).
- Step 3 Tap the key pad which corresponds to the Instrument to be entered (without the rhythm playing).

 If necessary, change Pad Banks with PAD BANK.
- Step 4 Press START/STOP to start playing the rhythm.



*While the rhythm is playing, key pads 1 to 16 behave as step number setting keys.

Step 5 Set the steps with the key pad 1 to 16. (The entered sound will be played repeatedly.)

The velocity (dynamics) is also entered at the same time.

*To cancel the step you have written, simply tap the same key pad.

The specified step number is shown at "INST1" with "●".

INST 2 to 4 show the steps of the instruments assigned in the Display Assign (see page 46).

STEP 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

- Step 6 To continue, and set the other Instruments, stop playing, and repeat steps 3 to 5.
- Step 7 To write a rhythm pattern made of more than one bar, repeat steps 1 to 6 as many times as necessary.
- Step 8 Stop playing, then press EXIT to return to the Menu Display.

c. Step Writing in the Edit Mode

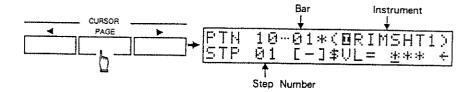
This section describes how to program rhythm patterns which cannot be made in the Basic Mode.

*The Edit mode also allows you to edit Sequence parameters (see page 107).

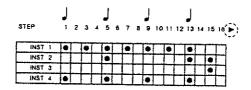
Normal Edit Mode

The basic step writing procedure in the Normal Edit mode is the same as the Basic mode (see the previous section). The Normal Edit mode, however, can set the steps even for the rhythm pattern which have more than 16 steps (Ex. 5/4 time). Do as follows:

Step 1 Press PAGE in the Basic mode to turn to the Normal Edit Mode.

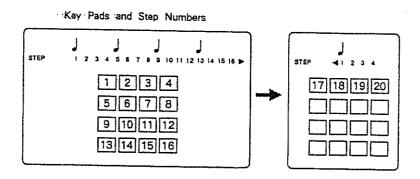


When a bar contains more than 17 steps (13 steps in the Triplet Entry), the ">" mark appears at the right of step number 16.



Step 2 Press and to advance the step numbers. Pressing () while holding () down will quicken the change.

When the step number exceeds 16 (12 in the Triplet Entry), the key pads and the step number assignments change (the "◀"mark appears at the left of step number 1).



□PATTERN WRITING (Basic)

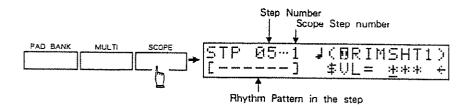
- *When writing steps of a rhythm pattern made of more than one bar, pressing will advance the step numbers, then moves to the next bar.
- Step 3 Using the same procedure as the Basic mode, set the steps with key pads.
 - *The number shown at the lower right of the display is the value of the sequence parameter (see page 107).

Scope Edit Mode

In the Scope Editing mode, you can use a fine timing (1/96 note = Quantize Q = HIGH in the Real-time writing) for specifying steps (Scope steps).

Select the step number which you wish to write a sound in a fine timing, and specify the steps in a Scope step unit (1 to 6 in Normal Entry, and 1 to 8 in the Triplet Entry).

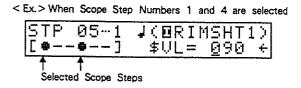
Step 1 Press SCOPE in the Normal Edit mode to change to the Scope Edit mode.



- Step 2 Press the key pad that corresponds to the instrument to be written (without the rhythm playing).
- Step 3 Press START/STOP to start playing the rhythm.
 - *With the start of play, the Key pads take on the function of scope step number assignment.
- Step 4 Set the number of steps to be entered in Scope step with and .

 Pressing (or) while holding (or) will quicken the change of step numbers.
 - *The Scope Step number shown in the display bears no meaning with respect to the correspondence between the Key pads and Scop Step numbers.
- Step 5 Set the Scope step number with the key pad 1 to 6 (1 to 8 in Triplet entry).

 The strength of hitting key pads is entered at the same time.



*To cancel a step you have selected, simply tap the same key pad.

- Step 6 To continue, and set the other step numbers, repeat steps 4 and 5.
- Step 7 To continue, and set another Instrument, stop playing and set it using an appropriate key pad.

*Pressing SCOPE returns the unit to the Normal Edit mode, while pressing PAGE returns to the Basic mode.

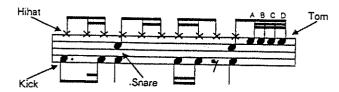
To check the Scope step status, change to the Normal Edit mode. The display will respond as shown below:

| Sign | Scope Step Number setting | |
|------|---------------------------|--|
| | [] | No sound is entered in the step number currently shown in the display. |
| * | [] | An instrument is entered in Scope Step number 1. |
| ф | [] etc. | Instruments are entered in the Scope Step number 1 and the other Scope Step numbers. |
| F | [F] | Flam sound is entered in Scope Step number 1. |
| Ē | [F] [FF-] etc. | Flam sound is entered in Scope Step number 1 and sounds are entered in the other Scope Step numbers. |
| * | [| Instruments are entered in the Scope Step numbers differently from the above settings. |

^{*}For detailed explanation of Flam entry (see page 86).

d. Examples for Step Writing

Enter the following score in the Step Writing.



The score may be modified as shown below for Step Writing.

STEP 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18

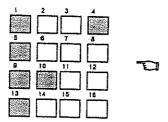
| Hihat | | • | ٠ | • | Г | | • | | • | * | Г | • | П | | _ |
|-------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tom | | | | _ | T | Γ | | 1 | | _ | | | Í | - | • |
| Snare | | Г | | • | Г | T | | | | | | • | | | Ī |
| Kiçk | • | | • | • | Г | | | | • | | | • | | | Н |

- Step 1 Erase all the unneeded data in the rhythm pattern and set the bar number to 1 and timing to 4/4 (See page 59).
- Step 2 This rhythm pattern is 16 beats, therefore select the Normal Entry in the Basic mode.

Step 3 Enter the kick drum.

In the Basic mode and stopped, press the key pad for the kick drum (key pad 13 in Pad Bank A).

- Step 4 Press START/STOP to start playing.
- Step 5 Tap the key pads that correspond to the step numbers to set the steps (step numbers 1, 4, 5, 9, 10 and 13).



*Be careful about the accents, since the strength of the key pad hitting is entered at the same time.

Step 6 Enter the snare drum.

Stop playing the rhythm, then press the key pad for the snare drum (key pad 14 in Pad Bank A).

- Step 7 Press START/STOP to start playing, then tap key pads 5 and 13.
- Step 8 Enter the Hihat in the same way (step numbers 1, 3, 4, 5, 7, 8, 9, 10, 11 and 13).
- Step 9 Enter the tom.

Stop playing the rhythm, then press the key pad for the tom (key pad 6 in Pad Band A).

Tom uses 1/32 notes, and therefore cannot select B or D step in the score. So, perform the Scope editing for step numbers 15 and 16.

Step 10 Press PAGE, then SCOPE to change to the Scope Edit mode.

Step 11 Specify step number 15 using 4 and .

Step 12 Start playing the rhythm, then select the Scope step number using the relevant key pad.

The Scope step is 1/96 note, therefore A and B in the score are Scope step numbers 1 and 4.

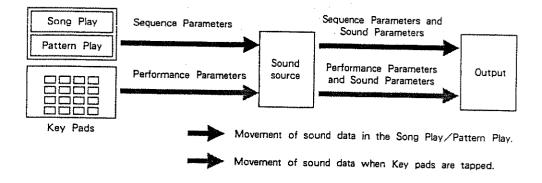
- Step 13 Specify step number 16 with , then repeat the procedure 12.
- Step 14 Stop playing, then press EXIT to return to the Menu Display.

2 PATTERN WRITING (Advanced)

1. Performance Parameters

The tone of an instrument assigned to each key pad can be changed by editing the Performance parameters; Pitch, Decay, Nuance and Pan.

Sound parameters and Performance parameters function as follows.



Sound Parameters

Sound parameters determine the sound which is the basic element of an Instrument.

- Sound parameters should normally be set before writing a rhythm pattern.
- If you wish to change the overall sound of an instrument after writing a song, you can do it by editing sound parameters.
- *Editing Sound parameters will affect the instruments in all the rhythm patterns. If you wish to retain the original sound even after edited, save it onto a memory card (See page 165).

Performance Parameters

Performance parameters set the amount of changes made to the values of the Sound parameters for each key pad. Tapping a Key pad will output the mixture of the sound parameter value and the performance parameter value.

- ●Value of a Performance parameter is effective only on the sound played by the relevant key pad. It has no effect when rhythm patterns or a song is being played.
- The set Performance parameters are entered into a rhythm pattern in the Pattern Writing as Sequence parameters (sound data).

If you have set Performance parameters before writing the rhythm pattern, you can change the sound of an Instrument in a specific rhythm pattern.

If you change Performance parameters during rhythm pattern writing or change Sequence parameters after writing a rhythm pattern, you can change the sound of the same Instruments in the rhythm pattern.

•Using the Multi Assign function (see page 81), you may assign the same Instrument to all 16 key pads and set the Performance parameters in each key pad to different values, so that you can play a Instrument with different sounds.

To set the Performance parameters of the key pads to values different from each other by a certain level in sequence, the Align function can be used (see page 82).

*The sound of each Instrument changes within the variable range of each Sound parameter. If you have set a value (add Performance parameter's value to Sound parameter's value) exceeding the range, there will be no more change in the actual sound.

a. Functions of the Performance Parameters

1) Pitch This can be set in 10 cent steps. Higher values raise the pitch.

(-4800 to +4800 cents)

*At zero, the same pitch as the Sound parameter's is obtained.

Decay Higher values make longer decay time.

(-63 to +63) If the instrument and not the Niverse the

If the Instrument can set the Nuance, the value set here will be added to each decay (Sound parameter).

*At zero, the same decay as the Sound parameter's is obtained.

3) Nuance The sound can be altered delicately with the Nuance function.

*If the Instrument which cannot set the Nuance is assigned, setting the Nuance will not affect the sound.

*At zero, the same nuance as the Sound parameter's is obtained.

4) Pan

(LEFT 1 to 3,

CENTER, RIGHT 1 to 3, CENTER, RIGHT 1 to 3), this parameter allows you to set the pan value (sound field positionings).

*The Pan setting of the Performance parameter is given priority. At OFF, the same pan setting as the Sound parameter's is obtained.

*If the Output Assign (Sound parameter) of an Instrument is set to MULTI OUT (MULTI's 1 to 8), the pan setting will be ignored.

*The Pan you are currently setting can be seen at INST 1 in the graphic display.

b. Setting Performance Parameters

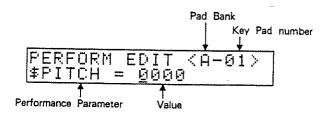
Set the Performance parameters for each key pad.

Step 1 Press PERFORM to turn to the Performance Edit mode.

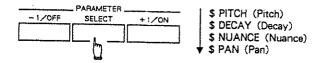


*If the Menu Display is not shown, press EXIT .

Step 2 Press Numerical Key 1 to select "EDIT".



- Step 3 Tap the key pad whose Performance parameters you wish to edit. If necessary, change the Pad Banks with PAD BANK.
- Step 4 Select the parameter to be edited with SELECT



- Step 5 Using -1/OFF +1/ON or VALUE slider, change the values (Parameters other than Pan can be set with Numerical Keys).

 Tap the key pads to listen to the sound.
- Step 6 To continue to change the other parameters, repeat steps 4 and 5 as many times as necessary.
- Step 7 To continue, and edit the other key pads, repeat steps 3 to 6 as many times as necessary.
- Step 8 Press PERFORM to return to the previous display.

c. Using the Multi Assign Function

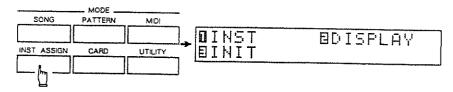
The Multi Assign function allows you to assign the same Instrument to all 16 key pads. This assignment is independent from the five pad Banks.

Use this function together with the Align function (that automatically sets the Performance parameters of the Key pads to certain values in sequence). Using this function, you can play Hihat that has continuously changing decays, or perform a "melodic tom" by shifting pitches in semitone steps.

Instrument Selection

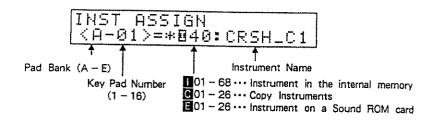
Select the Instrument to be assigned to all the 16 key pads.

Step 1 Press INST ASSIGN to turn to the Instrument Assign mode.

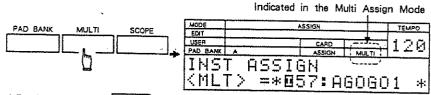


*If the Menu Display is not shown, press EXIT.

Step 2 Press Numerical Key 1 to select "INST".



Step 3 Press MULTI to set to the Multi Assign mode.



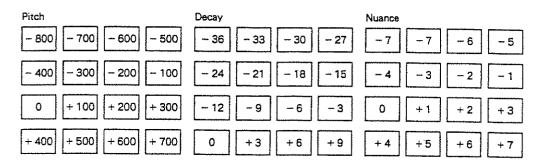
*Further presses of MULTI switches alternately between the Instrument Assign and Multi Assign modes.

Step 4 Using -1/OFF +1/ON or VALUE slider, select the Instrument to be used.

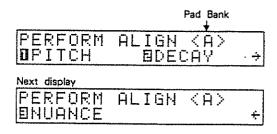
Step 5 Press EXIT to return to the Menu Display.

in the Align Function

Performance Parameters The Align function allows you to set the Performance parameters (Pitch, Decay and Nuance only) of key pads 1 to 16 in the sequence as shown below.



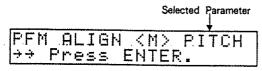
- Press PERFORM to turn to the Performance Edit mode. Step 1
- Press Numerical Key 2 to select "ALIGN". Step 2



Step 3 Press MULTI to change to the Multi Assign mode.

> *Further pressing of MULTI switches alternately between the Instrument Assign and Multi Assign modes. Pad Banks cannot be changed in the Multi Assign mode. *To set the Performance parameters of Pad Banks A to E with the Align function. select a Pad Bank with PAD BANK .

Step 4 Select the Performance parameter where you wish to use the Align function, with Numerical Keys 1 - 3.



Step 5 Press ENTER .

The display responds with "Are you sure?".

*To leave the mode, press EXIT .

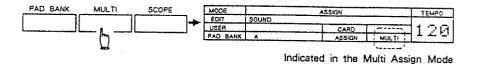
Step 6 To continue, press ENTER .

"Completed" appears, showing that the Align is done.

*Should the total value of the Sound parameter and Performance parameter exceed the variable range of the Sound parameter, the value will be automatically set within the range.

Multi Assign Performance

To play the R-8 with the Multi Assign function, press MULTI to turn to the Multi Assign mode.



*Further pressing of MULTI switches alternately between the Instrument Assign and Multi Assign modes. Pad Banks cannot be changed in the Multi Assign mode.

*If the Multi Assign mode is selected during rhythm pattern writing, the Performance parameter assigned with the Multi Assign function will be entered as a Sequence parameter.

2. Swing/Flam/Roll Entry

a. Swing

Swing is a feeling most commonly referred to as the "groove" of Jazz or Shuffle rhythms. The Swing effect can be set for each rhythm pattern separately, and is most effective if added to triplet type rhythm patterns. (Jazz, Shuffle, etc.)

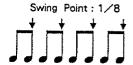
*The Swing effect is effective for pattern playing or song playing but has no effect in pattern writing.

The Swing is determined by the Swing Point and Swing Delay.

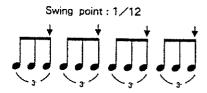
Swing Point

The Swing effect is obtained by delaying the timing of certain beats. The Swing Point sets the position (beat) where the timing is to be delayed.

1/4, 1/8, 1/16 or 1/32 delays the timing of the even number multiple beats.



1/6, 1/12 or 1/24 delays the timing of the beats positioned in multiples of three.



Swing Delay

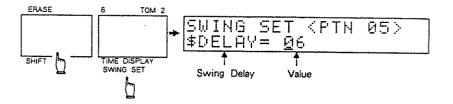
This sets the amount of delay.

Now, let's set the swing effect in a rhythm pattern.

Swing Setting

With the unit set to a Pattern Mode ("PLAY", "REAL" or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number where you wish to set the Swing effect.
- Step 2 Tap key pad 6 while holding SHIFT down.

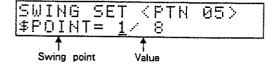


Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, set the Swing Delay value.

Higher values emphasize the feeling. (At zero, no Swing is obtained.)

*The variable range for the Swing Delay value changes depending on the Swing Point.

Step 4 Press SELECT to change to "POINT" display.



Step 5 Using -1/OFF +1/ON, VALUE slider or Numerical Keys 1 to 7, set the Swing Point.

(Value: 1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32)

Step 6 Press ENTER to return to the previous display.

b. Flam

A Flam is created when two sticks are dropped at the same time, yet from different heights. The Flam effect can be set for each rhythm pattern separately.

The Flam effect is determined by Flam Interval and Flam Ratio.

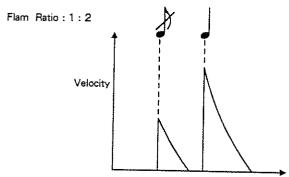
•Flam Interval

This sets the interval between the two sticks in 32 levels (0 to 31).



●Flam Ratio

This sets the intensity (velocity) of the first and second sticks.

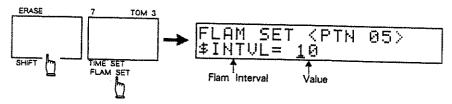


Flam Setting

Now, let's set the flam value.

With the unit set to a Pattern Mode ("PLAY", "REAL" or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number where you wish to set the Flam effect.
- Step 2 Tap key pad 7 while holding SHIFT down.



Using - 1/OFF + 1/ON , VALUE slider or Numerical Keys, set the Flam Step 3 Interval value (0 to 31). (At zero, no Flam is obtained.) Press SELECT to change to "RATIO" display. Step 4 Using -1/OFF +1/ON or VALUE slider, set the Flam Ratio. Step 5 (Value: 1:1, 1:2, 1:4, 1:8, 1:16, 1:32) Step 6 Press ENTER to return to the previous display. To write the Flam you have set, do as follows. In the Real-time Writing mode While holding FLAM down, tap the key pad in the timing for Flam entry (with the unit playing the rhythm). < Ex. > Adding Flam to the Instrument of Key Pad 14 While holding down

●In the Step Writing mode

D

Flam Entry

With the rhythm playing, hold **FLAM** down and press the key pad that corresponds to the step (or Scope step) where the Flam is to be entered. In the Normal Edit/Scope Edit mode, you can check the Flam entry status.

c. Roll

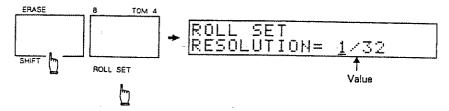
Roll is playing sounds sequentially in the same intervals.

Roll Setting

Now, let's set the Roll interval.

With the unit set to a Pattern mode and stopped, do as follows.

Step 1 Tap key pad 8 while holding SHIFT down.



Step 2 Using -1/OFF + 1/ON, VALUE slider or Numerical Keys 1 to 9, set the value of the interval.

(Value: 1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32, 1/48, HIGH (1/96 notes))

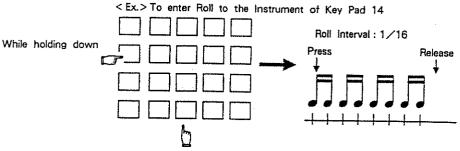
Step 3 Press ENTER to return to the previous display.

Roll Entry

To write the Roll you have set, with the unit set to the Real-time Writing mode, do as follows.

*When writing a Roll into a Rhythm pattern, the Quantize setting will determine the resolution of the Roll match the two settings.

Procedure While holding Roll down, keep pressing the relevant key pad.



The Roll effect is written until the key pad is released (the level changes depending on how hard you press the key pad).

- *In the Step Writing mode, the Roll effect cannot be written.
- *The Roll effect can be performed in the mode other than Pattern Write. Even when the rhythm is not playing, the Roll rate can be changed with the tempo.

3. Macro Note

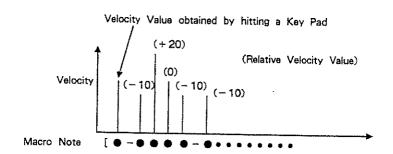
Up to 10 different Macro Notes can be registered in the R-8. A Macro Note is a performance pattern made of up to 16 steps. The Macro Note patterns you have registered can be written into the rhythm pattern just by tapping the key pad once. For quicker rhythm pattern programming, it may be wise to register performance patterns which are frequently used.

Also, in modes other than Pattern Writing, the specified Instrument can be played using the performance pattern of a Macro Note.

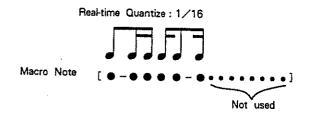
a. Macro Note Setting

A Macro Note can be set in the same way as step writing (setting one Step and another). Each step you have entered can have a relative velocity value. By decreasing the velocity values according to the step number, delay effect can be obtained.

*The relative velocity value is the amount of change to be made to the basic strength (zero) of key pad hitting set for each step.

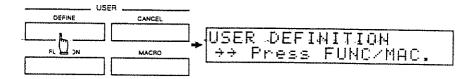


< Example of Macro Note Setting >

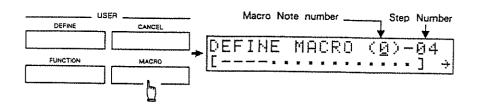


With the unit stopped, do as follows.

Step 1 Press DEFINE .



Step 2 Press MACRO to change to the Macro Note setting display.



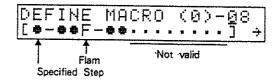
Step 3 Using -1/OFF / +/ON, VALUE slider, or Numerical Keys, specify a Macro Note number (0 to 9) to be registered.

*Key pads 1 to 16 now work as step number assigning keys.

Step 4 Using and , move the cursor to the right, to set the number of steps (2 to 16).



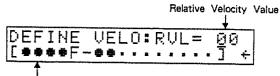
*The timing value (note length) of a step is determined by the Quantize value in the Real-time writing (or the length of a step in the Step writing) used for Macro Note. Step 5 Tap the key pad that corresponds to the Step number to be entered (To cancel the Step number you have entered, simply tap the same key pad).



*To add the FLAM effect, tap the key pad while holding FLAM down.

* Pressing key pads does not create sounds.

Step 6 Press PAGE to select the Relative Velocity Value setting display.



Step which can be set (flashes)

- Step 7 Specify the Step number with ◀ and ▶, then using -1/OFF +/ON, VALUE slider, or Numerical Keys, set the Relative Velocity value (-99 to +99) of each step.
 - *When the Macro mode is "ON", the actual sound can be monitored by playing Key pads. (See next page)
- Step 8 To continue, and set the other Macro Notes, change the displays with PAGE and repeat steps 3 to 7.
- Step 9 Press DEFINE to return to the previous display.

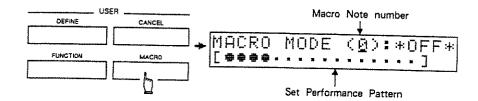
b. Using Macro Note

Now, play the registered Macro Note pattern with an Instrument. Macro Notes can be used in other modes, as well as the Rhythm pattern writing. To use the Macro Notes, set the Macro Mode ON.

Setting Macro Modes

Using the following procedure, the Macro Notes you have set can be played.

Step 1 Press MACRO



- Step 2 Using -1/OFF +/ON, VALUE slider, or Numerical Keys, select the number of the Macro Note to be played.
- Step 3 Move the cursor with and b, then set the Macro Mode to ON.

ON: The Macro Note you select is played by hitting a key pad.

OFF: Normal condition (playing a key pad generates sound once).

Step 4 Press MACRO to return to the previous display.

With the Macro Mode set to ON, the specified Macro Note is played by hitting a key pad even in modes other than Pattern Writing.

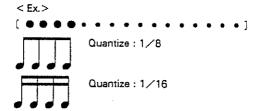
The timing value (the length of the note) of a step is determined by the last Quantize selected in Real-time writing. Also, the speed of the Macro Note performance is determined by the set tempo.

In Real-time Writing Mode

The following explains how to use Macro Notes in the Real-Time writing mode.

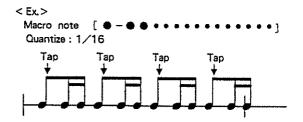
With the unit set to the Real-time writing mode, do as follows.

*The timing value (the length of the note) of a step for Macro Note is determined by the Quantize setting.



- Step 1 Specify the Macro Note number to be used.
 - ① Press MACRO .
 - ②Using -1/OFF +1/ON, VALUE slider, or Numerical Keys, select the number of the Macro Note (0 to 9) to be played.
 - ③ Press MACRO to return to the previous display.
- Step 2 Tap the key pad where the Macro Note is to be entered with the unit playing the rhythm.

The Macro Note data is written in the same timing as you tap the key pad.



In the Step Writing Mode

The following explains how to use Macro Notes in the Step writing mode.

The timing value (the length of the note) of a step for Macro Note differs depending on the current mode as shown below.

| Entry Method mode | Normal Entry | Triplet Entry |
|----------------------|--------------|---------------|
| Basic Mode | 1/16 note | Triplet |
| Normal Edit Mode | 1/16 note | Triplet |
| Scope Edit Mode | 1/96 note | 1/96 note |

With the unit set to the Step writing mode, do as follows.

Step 1 Specify the Macro Note number to be used.

① Press MACRO .

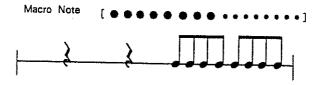
②Using -1/OFF / +/ON, VALUE slider, or Numerical Keys, select the number of the Macro Note (0 to 9) to be played.

③ Press MACRO to return to the previous display.

Step 2 Tap the key pad for the first step of the Macro Note with the unit playing the rhythm.

Macro Note data is written from the step number of the pad tapped.

< Ex.> Selecting Step Number 9 with Normal Entry of the Basic (or normal Edit) Mode.



*Macro Note data cannot be written into the steps which cannot be specified with key pads.

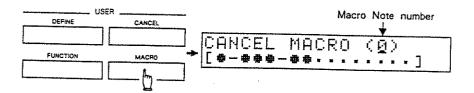
c. Macro Note Erasing

To erase the Macro Note pattern you have set, with the unit stopped, take the following procedure.

Step 1 Press CANCEL .



Step 2 Press MACRO .



- Step 3 Using -1/OFF +1/ON, VALUE slider, or Numerical Keys, select the number of the Macro Note (0 to 9) to be erased.

 The display shows the current Macro Note pattern.
- Step 4 Press ENTER .(The display responds with "Are you sure?")
- Step 5 Press ENTER to erase.

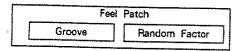
*To cancel the mode press EXIT .

3 FEEL PATCH

When humans express themselves rhythmically, unlike programmable rhythm machines, they use natural dynamics and accentuation. Even when they mean to play in exactly the same manner, the strength or positions of beating will vary slightly (random change). This means that the created sounds will not be perfectly consistent. The R-8 can set up to eight Feel Patches which contain regular tone changes (according to the accents set in the music) and random tone changes. By adding a Feel Patch to the rhythm pattern previously programmed, you can express subtle sound changes, creating a more "Human Feel".

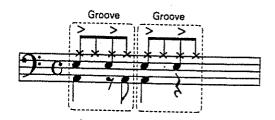
Feel Patch Structure

A Feel Patch is accompanied by two elements; Groove and Random Factor. By combining the two elements, Sequence parameters (Velocity, Pitch, Nuance and Decay) can be changed.



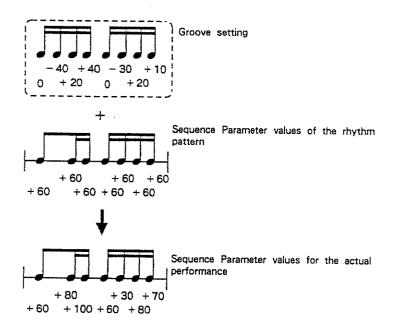
Groove

The Groove is associated with regular changes of accent and tone. This, therefore, can express the accents's changes which a drummer purposely creates.



The Groove sets the timing for the changes and relative values of some Sequence parameters.

By assigning the Groove settings to the existing rhythm patterns, the relative values are added to the same sounds (sequence parameters of the specified Instruments) as the timing set in the Groove, changing the sounds in a certain cycle.



●Random Factors

The Random Factors are used to alter the values of the specified Sequence parameters at random.

By changing the Nuance of a drum instrument, the sound will change delicately in each striking. Also, by changing the Nuance of a cymbal instrument, the sound will change depending on the position of striking. Such random changes create more realistic and natural performance.

1. Functions of Parameters

A Feel Patch is accompanied by the following parameters.

| Parameter | Variable Range |
|--|-------------------------------------|
| Groove Select Groove Type Groove Step | 1 - 8 1/4 - 1/32 |
| Instrument Select | INST1 - 8 |
| Groove Switch Random factor Switch | ON/OFF ON/OFF |
| Groove | - 99 - + 99 (Nuance : - 7 - + 7) |
| Random Factor Probability Random Depth | 1 - 8 1 - 4 |
| Instrument Switch INST1 – 8 | ON/OFF |

a. Groove Select

This parameter consists of two elements for setting the timing for the accents's changes, Groove Type and Groove Step.

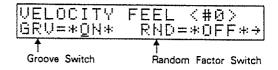
- ●Groove Type sets the number of notes whose accents should be …changed, from 1 to 8.
- ●Groove Step sets the timing value (length) of the note from 1/4 to 1/32.

b. Instrument Select



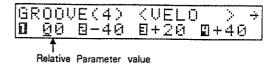
This sets eight Instruments which should be accentuated with the Groove and Random Factors.

c. Groove Switch and Random Factor Switch



For each Sequence parameter, On/Off of the Groove and Random Factors can be set.

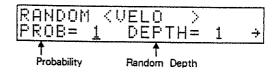
d. Groove



This sets the relative value for each Sequence parameter (-7 to +7 for Nuance and -99 to +99 for the other parameters) to each timing set with the Groove Select. The relative values set for the Sequence parameters are added to the same sound (specified Instruments) as the timing set in the Groove.

*The Sequence parameters whose Groove Switches are set to OFF do not change.

e. Random Factors

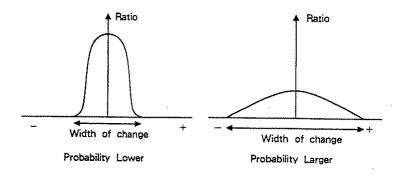


The Random Factors are Probability and Random Depth. Set these factors in each Sequence parameter to create irregular changes.

*The Sequence parameters whose Random Factor Switches are set to OFF do not change.

●Probability (1 to 8)

This sets the ratio and the width of change of each Sequence parameter. Higher values increase the ratio and width of the change caused on the Sequence parameter.



●Random Depth (1 to 4)

This sets the amount of the changes in the Probability. Higher values make it wider.

f. Instrument Switch



This selects whether to add the Feel Patch to each Instrument selected with the Instrument Select, for each Sequence parameter.

*When the same instrument is selected more than once with the instrument select, set any instrument Switch to "ON" to obtain the Feel Patch affect.

2. Editing Procedure

a. Groove Setting

Step 1 Press FEEL to turn to the Feel Edit Mode.



Step 2 Press Numerical Key 1 to select "PATCH".



- Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, select the feel Patch number (0 to 7) to be used.
- Step 4 Change to the Groove Select display with PAGE .

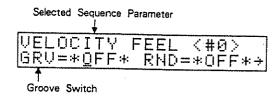
- Step 5 Using and move the cursor, then using -1/OFF +1/ON, VALUE slider or Numerical Keys, select the Groove Type (1 to 8) and the Groove Step (1/4 to 1/32).
- Step 6 Press PAGE to change to the Instrument Select display.

Step 7 Change Instruments (INST 1 to 8) using SELECT, then press the key pad corresponding to each instrument to be edited with the Groove (common for Random Factors).

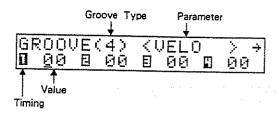
If necessary, change Pad Banks with PAD BANK.

Step 8 Press EXIT to return to the Menu Display.

- Step 9 Select the Sequence parameter to be edited with Numerical Keys 2 5.
 - 2: Velocity
 - 3: Pitch
 - 4: Decay
 - 5: Nuance
- Step 10 Using -1/OFF +1/ON or VALUE slider, select ON or OFF for the Groove Switch.



Step 11 Press PAGE to turn to the Groove Setting display.



- Step 12 Move the cursor with ◀ or ▶, then using -1/OFF +1/ON, VALUE slider or Numerical Keys, set the relative value for each timing (-7 to +7 for Nuance and -99 to +99 for the other parameters).
 - *When the Groove Type is to be set to higher than 4, change to the 5 to 8 timing setting display with .
- Step 13 Select the instrument Switch setting display with PAGE.

- Step 14 Change Instruments (INST 1 to 8) using SELECT, then with -1/OFF +1/ON or VALUE slider, select On or Off for the Instrument Switch.
- Step 15 To continue, and edit another Sequence parameter, press EXIT to return to the Menu Display then repeat steps 9 to 14.
- Step 16 Press FEEL to return to the previous display.

b. Random Factor Setting

Step 1 Press FEEL to turn to the Feel Edit mode.



Step 2 Press Numerical Key 1 to select "PATCH".



- Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, select the Feel Patch number (0 to 7) to be used.
- Step 4 Press PAGE to change to the Instrument Select display.

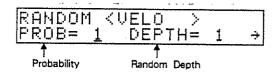
Step 5 Change Instruments (INST 1 to 8) using SELECT, then press the key pad corresponding to each Instrument to be edited with the Random Factors (common for Groove).

If necessary, change Pad Banks with PAD BANK.

- Step 6 Press EXIT to return to the Menu Display.
- Step 7 Select the Sequence parameter to be edited with Numerical Keys 2 to 5.
 - 2: Velocity
 - 3 : Pitch
 - 4: Decay
 - 5 : Nuance

Step 8 Move the cursor to the right, then using -1/OFF +1/ON or VALUE slider, select ON for the Random Factor Switch.

Step 9 Press PAGE to turn to the Random Factor Setting display.

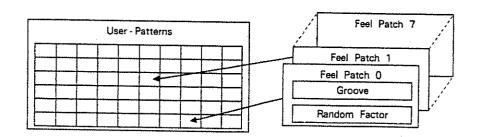


- Step 10 Move the cursor with ◀ or ▶, then using -1/OFF +1/ON, VALUE slider or Numerical Keys, set the Probability (1 to 8) and Random Depth (1 to 4).
- Step 11 Select the Instrument Switch setting display with PAGE .

- Step 12 Change Instruments (INST 1 to 8) using SELECT, then with -1/OFF +1/ON or VALUE slider, select On or Off for the Instrument Switch.
- Step 13 To continue, and edit another Sequence parameter, press EXIT to return to the Menu Display then repeat steps 7 to 12.
- Step 14 Press FEEL to return to the previous display.

3. Feel Patch Assignment

The Feel Patches you have made can be assigned to the User-patterns. Feel Patches change the feeling of the rhythm performance.



With the unit set to the Pattern Play mode and stopped, do as follows.

- Step 1 Select the rhythm pattern which you wish to assign a Feel Patch.
- Step 2 Move the cursor to "FEEL" value with and ▶, then using -1/OFF +1/ON, VALUE slider or Numerical Keys, select a Feel Patch (0 to 7).

If you do not assign any Feel Patch, select "" (This is not included in the Numerical Keys).

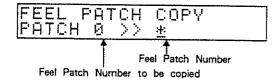
- Step 3 Start playing the rhythm pattern. It will be played with the Feel Patch assigned to it.
 - *The Feel Patch assigned to a rhythm pattern has no effect in the Pattern Writing mode.

4. Feel Patch Copy

The Feel Patch Copy function allows you to copy the contents of a Feel Patch to a different Feel Patch number.

With the unit set to the Feel Edit mode and showing the Menu Display, do as follows.

- Step 1 Press Numerical Key 1 to select "PATCH".
- Step 2 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, select the source Feel Patch (0 to 7) to be copied.
- Step 3 Press EXIT to return to the Menu Display.
- Step 4 Press Numerical Key 6, select "COPY".



Step 5 Using - 1/OFF + 1/ON, VALUE slider or Numerical Keys, select the destination Feel Patch (0 to 7).

*To leave this mode, press EXIT .

Step 6 Press ENTER .

The display shows the message "Completed", and the Feel Patch is copied.

4 RHYTHM PATTERN EDITING

1. Editing Sequence Parameters

Sequence parameters can be set to each sound entered in a rhythm pattern. There are six Sequence parameters, Velocity, Pitch, Decay, Nuance, Pan and Micro Timing. By editing Sequence parameters, the tone and timing can be changed after programming a rhythm pattern.

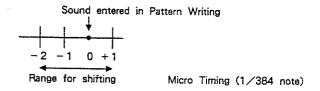
Functions of Sequence Parameters

Velocity

This parameter controls the intensity of key pad striking in the Pattern Writing mode. Higher values make the sound stronger.

●Micro Timing

This shifts the sound entered in a rhythm pattern forward or backward in 1/384 note unit (Micro Timing). -2, -1, 0 or +1 can be selected for Micro Timing. Negative values quicken the timing and positive values slow it. In the Pattern Writing, it is set to zero.



*To change the timing drastically, perform the Macro Timing Shift (see page 112).

●Pitch / Decay / Nuance / Pan

These parameters have the values of Performance parameter set in the Pattern Writing (see page 77). If they are not programmed in the Pattern Writing, then they will be set to zero.

Editing Procedure

There are two methods for editing Sequence parameters.

●Real-time Edit

This allows you to edit parameters by using the VALUE slider or foot volume while a rhythm is being played.

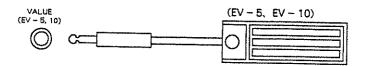
●Step Edit

This allows you to edit parameters in each sound written in the pattern.

a. Real-time Edit

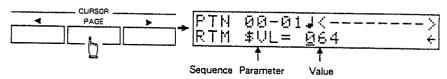
This allows you to edit each parameter by using the VALUE slider or foot volume while a rhythm is being played.

Using a Foot Volume A foot volume may be useful for changing values continuously. Connect a foot volume (optional EV-5. EV-10) to the VALUE jack on the rear of the R-8. Pressing the pedal deeper increases values.

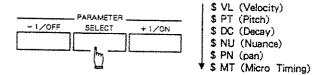


With the unit set to the Real-time Writing mode, do as follows.

Step 1 Press PAGE to turn to the Real-Time Editing mode.



Step 2 Using SELECT, select the Sequence parameter to be edited.



Step 3 Using -1/OFF +1/ON . VALUE slider, Numerical Keys or foot volume edit the value of the parameter.

*If you wish to change values continuously, set the basic value here (When using a foot volume, set the value with the foot volume).

- Step 4 Press START/STOP to start playing.
- Step 5 Hold down the key pad that corresponds to the Instrument to be edited.

 While the key pad is being pressed, the sequence parameters of the playing sound are edited.

To change values continuously, edit the value of the parameter while holding the key pad down.

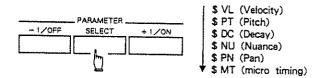
- *The Micro Timing does not change during writing. To check it, set to the Pattern Play or Song Play mode.
- Step 6 To continue, and edit the other parameters, repeat steps 2 to 5.
- Step 7 Stop playing.
- Step 8 Press EXIT to return to the Menu Display.

b. Step Edit

Step Editing allows you to edit the Sequence parameters of each sound written in a rhythm pattern.

With the unit set to Normal Edit (or Scope Edit) in the Step Writing mode and stopped, do as follows.

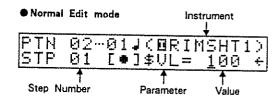
- Step 1 Press the key pad that corresponds to the instrument to be edited.
- Step 2 Using SELECT, select the parameter to be edited.

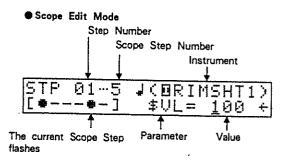


*If you wish to listen to the actual sound, press START/STOP to start playing the rhythm.

Step 3 Specify the Step number (or Scope Step number) to be edited with or

the using 1/OFF + 1/ON, VALUE slider or Numerical Keys, edit
the value of the parameter.





*If no sound is entered in the Step number (or Scope Step number) you have selected, editing cannot be performed ("***" is shown instead of the value).

*The Micro Timing does not change during writing. To check it, set to the Pattern Play or Song Play mode.

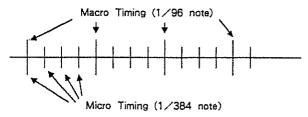
Step 4 To continue, and edit another Instrument, stop playing the rhythm, then specify the Instrument using the appropriate key pad.

Step 5 Stop playing.

Step 6 Press EXIT to return to the Menu display.

2. Timing Edit

The sound written in a rhythm pattern can be shifted forward or backward using 1/96 note unit (Macro Timing) or 1/384 note (Micro Timing).



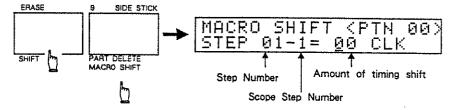
a. Macro Timing Shift

The Macro Timing Shift function can shift the steps of a rhythm pattern for each note, in 1/96 note (Macro Timing) forward or backward.

*Any note (step) pushed outside the rhythm pattern with the Macro Timing Shift will be automatically returned into the rhythm pattern.

With the unit set to the Normal Edit mode (or Scope Edit mode) in the Step Writing mode and stopped, take the following procedure.

- Step 1 Press the key pad that corresponds to the Instrument to be timing-shifted.
- Step 2 Using and , specify the Step number (or Scope Step number) to be timing-shifted.
- Step 3 Press key pad 9 while holding SHIFT down.



Step 4 Using -1/OFF + 1/ON, VALUE slider or Numerical Keys, set the amount of timing shift by clock number (-12 to +12:1 clock = 1/96 note).

Negative values quicken the timing and positive values slow it.

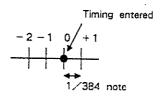
*Press EXIT to leave the mode.

Step 5 Press ENTER .

The display shows the message "Completed", and the timing is changed.

b. Micro Timing Shift

The sound written in a rhythm pattern can be shifted forward or backward using 1/384 note unit. The Micro Timing Shift can be performed for the entire Instrument (or rhythm pattern) or for each step.

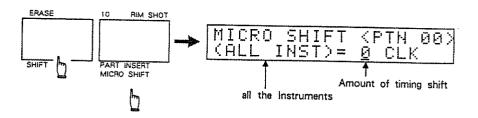


*To perform the Micro Timing Shift for each step, see "Step Edit" on page 110.

*If the Micro Timing Shift causes the sound to exceed the variable range (-2 to + 1), it will be automatically corrected within the range.

With the unit set to a Pattern Mode ("PLAY", "REAL" or "STEP") and stopped, take the following procedure.

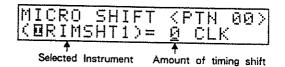
- Step 1 Specify the rhythm pattern number whose timing should be shifted.
- Step 2 Press key pad 10 while holding SHIFT down.



To shift the timing of all the Instruments, skip the following step 3 and go to step 4.

Step 3 Press the key pad that corresponds to the instrument to be timing-shifted.

If necessary, change Pad Banks with PAD BANK.



ARHYTHM PATTERN EDITING

Step 4 Using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys, set the amount of timing shift (variable range: -3 to +3).

Negative values quicken the timing and positive values slow it.

*To leave the mode, press EXIT .

Step 5 Press ENTER .

The display shows the message "Completed", and the timing is changed.

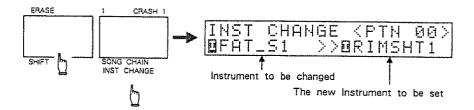
3. Pattern Edit

a. Instrument Change

The Instrument Change function allows you to swap an Instrument in a rhythm pattern with a different Instrument and play it.

With the unit set to a Pattern Mode ("PLAY", "REAL" or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number for which you wish to use the Instrument Change function.
- Step 2 While holding SHIFT down, press key pad 1.



Step 3 With and , move the cursor and specify the original Instrument and the new Instrument respectively with the corresponding key pads.

If necessary, change Pad Banks with PAD BANK.

*To cancel this mode, press EXIT .

Step 4 Press ENTER .

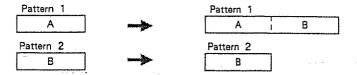
The display shows "Completed" and the Instrument Change is done.

*If the Instrument you specify as the original Instrument does not exist, the message "Inst not found" is shown in the display and the Instrument Change is not executed.

b. Pattern Append

Two rhythm patterns can be joined (appended), making one rhythm pattern. This may be useful for writing a Song that has a lot of same combinations of the specific Rhythm Pattern.

. < Ex. > Appending Pattern 2 to Pattern 1 .



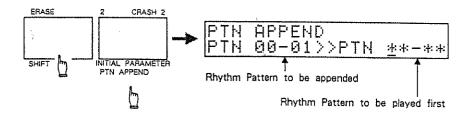
*It is not possible to append the rhythm patterns of different time signatures.

*The settings of the Swing, Flam and Feel Patch of the rhythm pattern selected: in step 3 have priority.

*if the total bar numbers of the two rhythm patterns exceeds 99, the Pattern Append cannot be executed.

With the unit set to a Pattern Mode ("PLAY", "REAL" or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number to be appended.
- Step 2 While holding SHIFT down, press key pad 2.



Step 3 Specify the Pattern number to be played first.

*To cancel this mode, press EXIT .

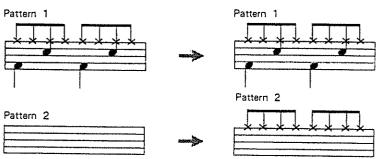
Step 4 Press ENTER .

The display shows "Completed" and the Pattern Append is done.

c. Pattern Extract

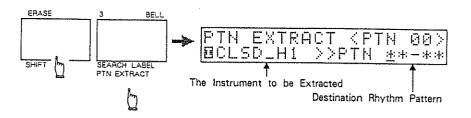
The Pattern Extract function allows you to extract the specified instrument data from a rhythm pattern and copy it to a different rhythm pattern number. This function may be used for using the same Instrument data in more than one rhythm pattern.

< Ex. > Extracting Pattern 1 and copying it into Pattern 2



Set the unit to a Pattern mode ("PLAY", "REAL", or "STEP") and stopped. do as follows.

- Step 1 Specify the Pattern number to be extracted.
- Step 2 While holding SHIFT down, press key pad 3.



- Step 3 Press the key pad that corresponds to the instrument to be extracted.

 If necessary, change Pad Banks with PAD BANK.
- Step 4 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, specify the destination Pattern (0 to 99).

Step 5 Press ENTER .

If the destination rhythm pattern has no data, the message "Completed" appears in the display showing that the copy is done.

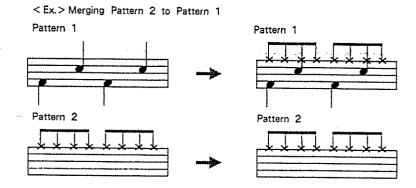
If there is any data written in the destination rhythm pattern, the message "Overwrite OK?" appears in the display. To copy, press ENTER again, to cancel press EXIT.

*Any previous data in the destination rhythm pattern is erased.

*If the instrument you have specified in step 3 does not exit in the rhythm pattern, the message "inst not found" appears in the display and the copy is not executed.

d. Pattern Merge

The Pattern Merge function mixes (merges) two rhythm patterns, making one rhythm pattern.

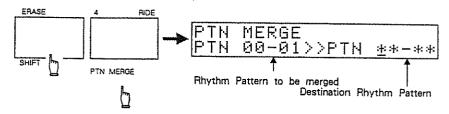


- *The merged rhythm patterns cannot be restored.
- *It is not possible to merge the rhythm patterns of different sizes or time signatures.
- *The settings of the Swing, Flam and Feel Patch of the destination rhythm pattern have priority.

Set the unit to a Pattern mode ("PLAY", "REAL", or "STEP") and stopped, do as follows.

Step 1 Specify the source Pattern number to be merged.

Step 2 While holding SHIFT down, press key pad 4.

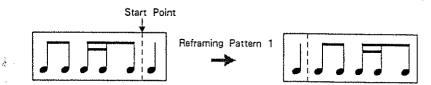


- Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, specify the destination Pattern (0 to 99).
 - *To leave this mode, press EXIT .
- Step 4 Press ENTER

The message "Completed" appears in the display showing that the merge is done.

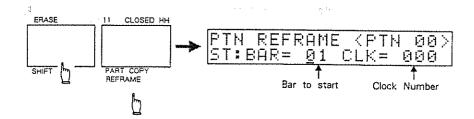
e. Reframe

The Reframe function allows you to set a start point at any position in a rhythm pattern and to shift the data from the start point to the end forward. This function may be useful to correct the delayed timing of the data you have entered when you are writing a rhythm pattern of more than one bar in Real-time.



Set the unit to a Pattern mode ("PLAY", "REAL", or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number to be reframed.
- Step 2 While holding SHIFT down, press key pad 11.



If you have specified a rhythm pattern of only one bar, skip the following step and go to step 4.

- Step 3 Using -1/OFF + 1/ON, VALUE slider or Numerical Keys, specify the first bar to be played.
- Step 4 Move the cursor to the right with ◀ and ▶, then using -1/OFF +1/ON. VALUE slider or Numerical Keys, specify the start point using clock number (1 clock = 1/96).

*To leave this mode, press EXIT .

Step 5 Press ENTER.

The message "Completed" appears in the display showing that the reframe is done.

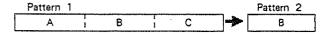
f. Pattern Copy

This function copies a User-Pattern or Preset pattern to a different pattern number. There are two types of Pattern Copy; one is copying the entire rhythm pattern and the other is copying selected bars from the pattern, giving you total freedom to create Rhythm patterns and Songs.

< Ex. > Copying Pattern 1 to Pattern 2



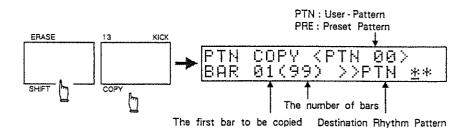
< Ex. > Copying "B" bar in Pattern 1 into Pattern 2



When using a User-pattern, set the unit to a Pattern mode ("PLAY", "REAL", or "STEP") and stopped, do as follows.

When using a Preset pattern, set the unit to "PRESET" and stopped, and take the following procedure.

- Step 1 Specify the Pattern number to be copied.
- Step 2 While holding SHIFT down, press key pad 13.



Step 3 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, specify the destination pattern number.

To copy the entire rhythm pattern, skip the next step and go to step 5.

- Step 4 Move the cursor with \blacksquare and \blacksquare , then using $\boxed{-1/OFF} + 1/ON$, VALUE slider or Numerical Keys, specify the first bar to be copied and the number of bars to be copied respectively.
- Step 5 Press ENTER.

 If the destination rhythm pattern has no data, the message "Completed" appears in the display showing that the copy is done.

 If there is any data written in the destination rhythm pattern, the message "Overwrite OK?" appears in the display. To copy, press ENTER again, to cancel press EXIT.

^{*}Any previous data in the destination rhythm pattern is erased.

^{*}If the number of bars to be copied exceeds the total length of the rhythm pattern, the rhythm pattern will be copied up to the end.

g. Pattern Name

A rhythm pattern can be named using up to 8 letters. The Pattern Name is shown in the display in the Pattern Play and Pattern Write mode.

Pattern names will help you recognize rhythm patterns when writing a song.

Set the unit to a Pattern mode ("PLAY", "REAL", or "STEP") and stopped, do as follows.

- Step 1 Specify the Pattern number to be named.
- Step 2 While holding SHIFT down, press key pad 15.



Step 3 Move the cursor with and , then using 1/OFF + 1/ON, VALUE slider or Numerical Keys, select numbers/letters/symbols.

Pressing a Numerical Key also offers switching between numbers, letters and symbols (the letters and symbols written at the upper right of each key). Pressing a Numerical Key while holding SHIFT down will produce lowercase letters.

Step 4 Press ENTER to return to the previous display.



| 1 | Song | Write | | | Р. | 126 |
|---|-------|----------|---|------|----|-----|
| 2 | Song | Edit | - Alak Mark - a | | P. | 135 |
| 3 | Funct | ions for | Song | Play | P. | 143 |

1 SONG WRITE

The R-8 allows you to write up to ten songs using the rhythm patterns you have programmed. Tempo and level data can also be written in a song.

*Preset rhythm patterns cannot be used for a song unless you copy them into Userprogrammed pattern with the Pattern Copy function (see page 121).

Song Data

Repeat, Tempo Change, Level Change and Label data can be written in a Song as well as rhythm patterns.

Repeat

This repeats playing the specified rhythm patterns in a Song.

●Tempo Change

The tempo of a song can be changed for each Rhythm pattern.

●Level Change

The level of a song can be changed for each Rhythm pattern.

●Label

This allows you to put a label (within eight letters) at a certain position in a Song. Later, with the Search Label function, you can quickly access the labeled position.

Song Structure

Rhythm Patterns and the relevant data are written into a song as a PART which is a unit constructing a song. Parts written in a song are numbered (Part Number) in the sequence as they have been written. One song can contain up to 999 Parts.

| Part Number | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 800 | 009 | |
|-------------|-------------------------|-------------------------|-----------------|--------|-------------------------|--------|-------|-----------------|-------------------------|--|
| Song Data | Rhythm Pattern 01 | Rhythm Pattern 02 | Tempo Change | Repeat | Rhythm Pattern 04 | Repeat | Label | Level Change | Rhythm Pattern 10 | |

- ■Tempo and Level Change parameters: These have effect on the succeeding rhythm patterns (after the Tempo or Level changes are entered).
- Repeat parameter: This repeats the rhythm patterns between the beginning and ending Parts (using the repeat signs as show above).

1. Song Writing

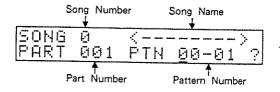
Let's write a song using rhythm patterns.

Step 1 Press SONG to turn to the Song Mode.



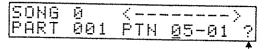
*If the Menu Display is not shown, press EXIT.

- Step 2 Press Numerical Key 1, to select "PLAY", then specify a song number.
- Step 3 Press EXIT to return to the Menu display, then specify "WRITE" pressing Numerical Key 2.



*To erase the entire song data, take the Song Clear procedure (see page 141).

Step 4 Using -1/OFF +1/ON, VALUE slider or Numerical Keys, specify a pattern number (0 to 99) to be written in the song.

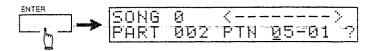


? :Indicated when no rhythm pattern is written in the Part currently shown.

To play the rhythm pattern you have specified, press START/STOP

Step 5 Press ENTER .

The rhythm pattern is written in the song, a part number in the display advanced.



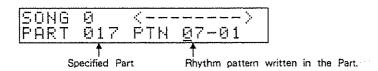
- Step 6 Repeat steps 4 and 5 until you have written up to the last bar.
- Step 7 If the unit is playing a rhythm pattern, stop it.
- Step 8 Press EXIT to return to the Menu Display.

Changing Pattern Numbers

To change the Pattern Numbers written in a song afterwards, do as follows with the unit set to the Song Write mode.

Step 1 Specify the Part of the pattern number to be changed with and .

Pressing (or) while holding (or) down will quicken the change of the Part numbers.



- Step 2 Using -1/OFF + 1/ON, VALUE slider or Numerical Keys, specify the pattern number (0 to 99) to be changed.
- Step 3 Press ENTER.

 Now the rhythm patterns are rewritten.
- Step 4 Repeat "the above procedures as many times as necessary.
 - *To delete a Part or insert a new Part, see page 135 "Song Edit".

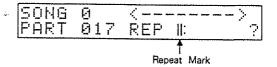
2. Repeat

The Repeat function allows you to repeat playing the rhythm patterns you have specified. Specify the first (!|:) and last (:||) Parts to be played, then the number of repeats, if you like.

| Song | Data | Rhythm Pattern A | Repeat | Rhythm Pattern B | Rhythm Pattern C | Repeat | Rhythm Pattern D | Rhythm "Pattern E |
|------|---------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|
| Song | Playing | Rhythm Pattern A | Rhythm Pattern B | Rhythm Pattern C | Rhythm Pattern B | Rhythm Pattern C | Rhythm Pattern D | Rhythm Pattern E |

Shown as above are the repeat marks. To insert Repeat Parts after having written a song, use the Part Insert procedure (see page 136).

Step 1 Before writing a rhythm pattern where the repeat starts, select "REP | |: " with SELECT .



Step 2 Press ENTER .

Repeat Part for start (||:) is written.

- Step 3 Write the rhythm patterns to be repeated.

Step 5 Press ENTER .

Repeat ending is written (:11).

*Within one set of Repeat Marks another eight sets of Repeat Marks can be used.

*When the number of start marks (||:) does not match the number of end marks (:||), the song will be played as follows.

| < Ex. > | Ignored | | | | | |
|--------------|------------------------|------------------------|-------------------------|-------------------------|------------------------|------------------------|
| Song Data | Repeat. | Repeat . | ∝Rhythm Pattern A | -Rhythm Pattern B | Repeat | Rhythm Pattern C |
| Song Playing | Rhythm Pattern A | Rhythm Pattern B | Rhythm Pattern A | Rhythm Pattern B | Rhythm Pattern C | |

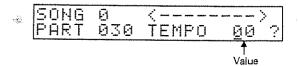
3. Tempo Change

It is possible to insert a Tempo Change in a Part of a song.

| Song Data | Rhythm Pattern A | Rhythm Pattern A | Tempo Change + 10 | Rhythm Pattern B | Rhythm Pattern C |
|--------------|------------------------|------------------------|-------------------------|------------------------|------------------------|
| Song Playing | Rhythm Pattern A | Rhythm Pattern A | Rhythm Pattern B | Rhythm Pattern C | |
| Tempo | 120 | 120 | 130 | 130 | ı |

Shown above are Tempo Change Parts written inbetween the patterns. To insert a Tempo change Part after having written a song, use the Part Insert procedure (see page 136).

Step 1 Before entering a rhythm pattern where you wish to change Tempo, select "TEMPO" with SELECT.



Step 2 Set the amount of tempo to be changed (-99 to +99), using -1/OFF +1/ON or Numerical Keys.

Negative values reduce the tempo and positive values increase it.

Step 3 Press ENTER.

Tempo Part is written.

*The tempo value set here is the amount of tempo to be changed from the base tempo. Should the total of the base tempo and the tempo value set here exceed 20 to 250, there will be no effect beyond the range.

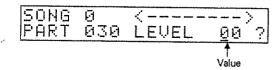
4. Level Change

It is possible to insert a Level Change in a Part of a song.

| Song [| Data | Rhythm Pattern A | Rhythm Pattern B | Level Change – 8 | Rhythm Pattern C | Rhythm Pattern D |
|--------|---------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Song F | Playing | Rhythm Pattern A | Rhythm Pattern B | Rhythm Pattern C | Rhythm Pattern D | *1 |
| | Leve | 32 | 32 | 24 | 24 | |

Shown above is a Level Change written inbetween the patterns. To insert a Level change after having written a song, use the Part Insert procedure (see page 136).

Step 1 Before entering a rhythm pattern where you wish to change levels, select "LEVEL" with SELECT.



Step 2 Set the amount of level to be changed (- 32 to + 32) using -1/OFF +1/ON, VALUE slider or Numerical Keys.

Negative values decrease the level and positive values increase it.

Step 3 Press ENTER .

Level Part is written.

*The level value set here is the amount of level to be changed from the Initial Level (see page 145). Should the total of the Initial Level and the value set here exceed the maximum level, higher levels will not be obtained.

5. Label

The Label function allows you to put a Label at any place in a song, and name the Label using up to eight letters.

If a label is written at impotant position in a song, you can quickly go to the specified label even after the Part numbers are changed by Part Delete or Part Insert, using the Search Label function.

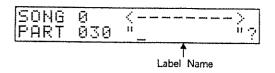
Also, in song playing, you can start playing from the labeled position.

| Song | Data | Rhythm Pattern A | Rhythm Pattern B | Label "END" | Rhythm Pattern C | Rhythm Pattern D | |
|------|------|------------------------|------------------------|----------------|------------------------|------------------------|--|
| | | | | | End | ing | |

a. Label Setting

Shown above is a Label inserted inbetween rhythm patterns. To enter a Label Part after having written a song, use the Part Insert procedure (see page 136).

Step 1 Before writing a rhythm pattern where you wish to put a Label, select " with SELECT .



Step 2 Move the cursor with -1/OFF +1/ON, then name the Label using VALUE slider or Numerical Keys.

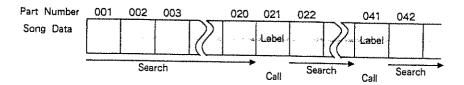
Pressing the Numerical Key switches alternately between numbers and letters /symbols (written at the upper right of each key). To write a small letter, press the Numerical Key while holding SHIFT down.

Step 3 Press ENTER .

Label Part is written.

b. Search Label

When more than one label are written, all the labels will be searched in sequence until the Part of the assigned label is found.

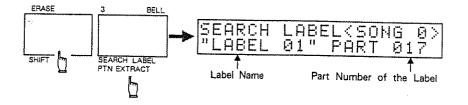


*See page 146 for details of how to use the Search Label function in Song Play.

With the unit set to the Song Write mode and stopped, do as follows.

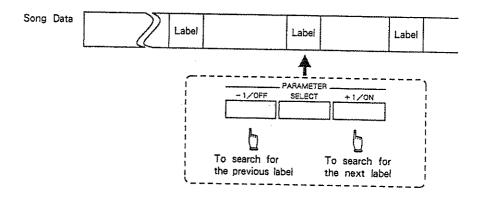
Step 1 Press key pad 3 while holding SHIFT down.

The Label Search starts from the beginning of the song. When the first label is found, the display responds with:



*When the label is not found, "Label not found" is shown in the display.

Step 2 To search for another label, press -1/OFF or +1/ON.

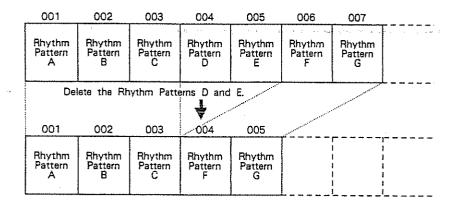


Step 3 Press ENTER to return to the display of Song Write mode.

2 SONG EDIT

1. Part Delete

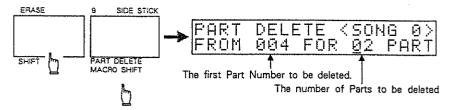
Specified Parts can be deleted.



With the unit set to the Song Write mode and stopped, do as follows.

Step 1 Specify the Part where the deleting starts using | and | ...

Step 2 Press key pad 9 while holding SHIFT down.



Step 3 Specify the number (1 to 99) of Parts to be deleted using -1/OFF + 1/ON, VALUE slider or Numerical Keys.

*It is not possible to set the number of Part larger than the number of Parts you have used in the Song.

*To leave this mode, press EXIT .

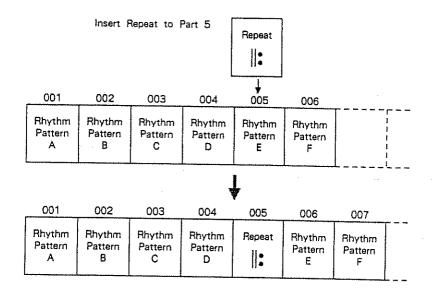
Step 4 Press ENTER .

"Completed" appears in the display showing that the deleting is done.

*If there is no Part to be deleted, the "No Part exists" message appears in the display.

2. Part Insert

A new Part can be inserted inbetween any Part Numbers.

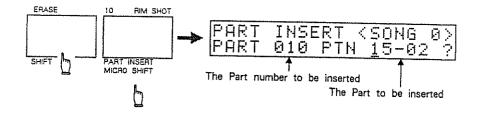


With the unit set to the Song Write mode and stopped, do as follows.

Step 1 Specify the Part number where a new Part is to be inserted using and

*The new Part is inserted before the specified Part.

Step 2 Press key pad 10 while holding SHIFT down.



- Step 3 Specify the Part to be inserted.
 - ●To insert a rhythm pattern, specify the rhythm pattern number using -1/OFF +1/ON, VALUE slider or Numerical Keys.
 - ●To insert Repeat/Tempo Change/Level Change/Label, select the relevant parameter with SELECT, then set the value.

*How to set each parameter is explained on page 129 (Repeat), 131 (Tempo Change), 132 (Level Change) or 133 (Label).

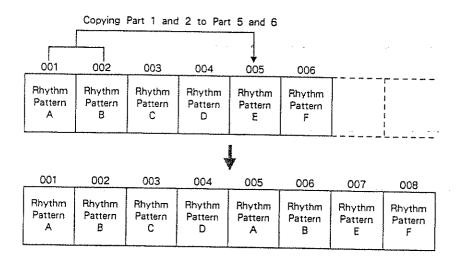
*To leave this mode, press EXIT .

Step 4 Press ENTER .

"Completed" appears in the display showing the insertion is done.

3. Part Copy

The Part Copy function copies specified Parts (Source Parts) to other Parts (destination). This function may be useful for writing a song consisting of the same patterns.

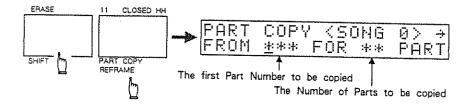


*The Part Copy function cannot copy Parts to a different song.

*It is not possible to copy Parts into Parts which are specified as source Parts.

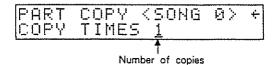
With the unit set to the Song Write mode and stopped, do as follows.

- Step 1 Specify the destination Part number using 4 and 1.
- Step 2 Press key pad 11 while holding SHIFT down.



Step 3 Move the cursor with \blacktriangleleft and \blacktriangleright , then specify the first Part to be copied and the number of Parts (1-99) to be copied using $\boxed{-1/OFF} + 1/ON$, VALUE slider or Numerical Keys.

Step 4 Press PAGE to select Copy Number setting display.



Step 5 Set how many times the Parts should be copied with $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys. (Valid:1 to 9)

*To leave this mode, press EXIT .

Step 6 Press ENTER .

"Completed" appears in the display showing the copying is done.

*If you have assigned the destination Part within the Part that has been specified, "Part overlap" is displayed, and the Step 2 display is returned to. When this happens, repeat step 3 to 6.

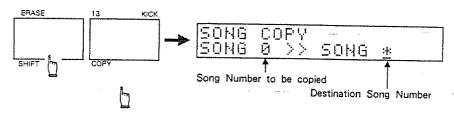
*If the specified Part does not exit, "No part exists" is displayed.

4. Song Copy

The entire data of a song can be copied to another song number. This function may be useful for retaining the source song data before experimenting with various edits.

With the unit set to the Song Play mode and stopped, do as follows.

- Step 1 Specify the source Song number to be copied.
- Step 2 Press key pad 13 while holding SHIFT down.



Step 3 Specify the destination Song number using -1/OFF + 1/ON, VALUE slider or Numerical Keys.

*To leave this mode, press EXIT .

Step 4 Press ENTER .

When the destination song does not have any data, the copying is done and "Completed" appears in the display.

When there is data in the destination song, the display shows the message "Overwrite OK?". If you wish to copy, press **ENTER**, and to stop copying, press **EXIT**.

5. Song Clear

The Song Clear function clears the entire song data. Use this function to write a song from scratch.

With the unit set to the Song Play mode and stopped, do as follows.

- Step 1 Specify the Song number to be cleared.
- Step 2 Press key pad 14 while holding SHIFT down.



*To leave this mode, press EXIT .

Step 3 Press ENTER .

"Completed" appears showing that the song clear is done.

6. Song Name

The Song Name function allows you to name each song within eight letters.

The Song name you have written appears in the display in the Song Play or Write mode for you to check.

With the unit set to the Song Play mode and stopped, do as follows.

- Step 1 Specify the Song number to be named.
- Step 2 Press key pad 15 while holding SHIFT down.



Step 3 Move the cursor with and , then name the Song using 1/OFF + 1/ON, VALUE slider or Numerical Keys.

Pressing the Numerical Key also switches alternately between numbers and letters/symbols (written at the upper right of each key). To write a small letter, press the Numerical Key while holding SHIFT down.

Step 4 Press ENTER to return to the previous display.

3 FUNCTIONS FOR SONG PLAY

1. Continue Play

This allows you to start playing a song from the exact point where you have stopped, or from a selected bar as show below.

With the unit set to the Song Play mode and stopped do as follows:

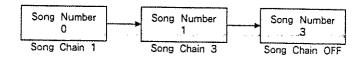
Step 1 Move the cursor to "MEAS" with ◀ and ▶, then using -1/OFF

+1/ON or Numerical Keys, specify the bar where you wish to start playing.

Step 2 Press START/STOP while holding SHIFT down.

2. Song Chain

In each song, you can specify one song number to be played next (in the Chain). By setting a song number to be chained in each song, you can play more than one song continuously.



With the unit set to the Song Play mode and stopped, do as follows:

- Step 1 Specify the song number.
- Step 2 Press key pad 1 while holding SHIFT down.

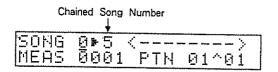


Step 3 Specify the song numbers (0 to 9) to be chained using -1/OFF +1/ON, VALUE slider or Numerical Keys.

To set the Song Chain function off, select. "OFF". To repeat playing one song, specify the same song number.

Step 4 Press ENTER to return to the previous Display.

The song number you have set here will be shown during song playing.

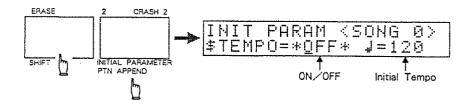


3. Initial Tempo and Initial Level

Each song can have a base tempo and level (initial tempo and level) for playing. The initial tempo and level you set will be automatically selected when selecting a song.

With the unit set to the Song Play mode and stopped, do as follows:

- Step 1 Specify the song number whose initial tempo or level you wish to set.
- Step 2 Press key pad 2 while holding SHIFT down.



Step 3 Select ON/Off of the initial tempo using -1/OFF + 1/ON or VALUE slider.

ON : The initial tempo you set is used

OFF : The initial tempo is not set

- Step 4 Move the cursor to the right with \blacktriangleright , then set the initial tempo (20 250) using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, or Numerical Keys.
- Step 5 Press SELECT to make the display show the initial level.

- Step 6 Set the initial level (0-32) using $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys.
- Step 7 Press ENTER to return to the previous display.

4. Search Label

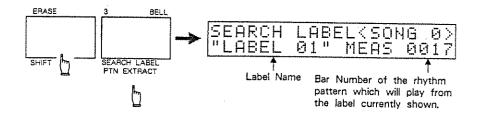
This function allows you to search for the label set in a song and play from the next rhythm pattern.

*How to set labels is fully explained on page 133.

With the unit set to the Song Play mode and stopped, do as follows:

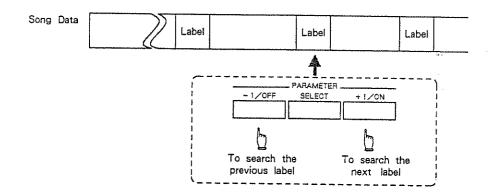
Step 1 Press key pad 3 while holding SHIFT down.

Labels are searched from the beginning of the song. When the first label is found, the display responds with:



*When the label is not found, the message "Label not found" appears.

Step 2 To search another label, press - 1/OFF + 1/ON .



- Step 3 Press ENTER to return to the display of Song Play mode.
- Step 4 Press START/STOP while holding SHIFT down, and the song starts playing from the label.

5. Time Calculate

This function allows you to calculate the time needed for a song to be played up to the last bar or a specific bar according to the initial tempo (see page 145) set in the song.

*The Time Calculate function is not obtained unless the Initial Tempo is set to ON.

Time Calculation for the entire song

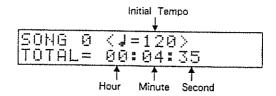
With the unit set to the Song Play mode and stopped, do as follows:

- Step 1 Specify the song number for which you wish to calculate time.
- Step 2 Press key pad 5 while holding SHIFT down.



Step 3 Press Numerical Key 1 to select "TOTAL".

The display shows "Calculating", showing that the total time is now being calculated, and calculated time is later displayed.



Step 4 Press ENTER to return to the previous display.

*If The Initial Tempo is set to "OFF", "Init Tempo Off" message appers in the display.

Time Calculation up to the specified bar

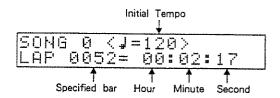
With the unit set to the Song Play mode and stopped, do as follows.

Step 1 Play the song up to the bar where you wish to calculate time.

*You can also specify the bar number using -1/OFF +1/ON or Numerical Keys: with the unit set to the Song Play mode and stopped, move the cursor to "MEAS" with and , then set the bar using -1/OFF +1/ON or Numerical Keys. In this case, the unit calculates the time needed before the specified bar starts playing.

- Step 2 Press key pad 5 while holding SHIFT down.
- Step 3 Press Numerical Key 2 to select "LAP".

 The display shows "Calculating", showing that the time is now being calculated.



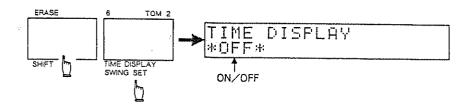
Step 4 Press ENTER to return to the previous display.

6. Time Display

The Time Display function allows you to check the time spent so far from the moment the song starts playing or resumes playing with the Continue Play (see page 143).

With the unit set to the Song Play mode and stopped, do as follows:

Step 1 Press key pad 6 while holding SHIFT down.

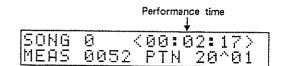


Step 2 Select ON/OFF of the Time Display function using -1/OFF +1/ON or VALUE slider.

ON : The playing time is displayed
OFF : The playing time is not displayed

Step 3 Press ENTER to return to the previous display.

With the Time Display function set to ON, the display responds as shown below during song playing.

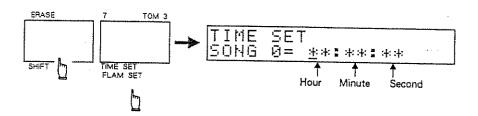


7. Time Set

This function allows you to set the initial tempo so that the song can be played within the specified time.

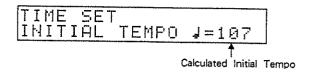
With the unit set to the Song Play mode and stopped, do as follows.

- *The Time Set function is not obtained unless the Initial Tempo (see page 145) is set to ON.
- Step 1 Specify the song number which you wish to time set.
- Step 2 Press key pad 7 while holding SHIFT down.



- Step 3 Move the cursor with and , then set the performance time with 1/OFF + 1/ON, VALUE slider or Numerical Keys.
- Step 4 Press ENTER .

"Calculating ... " appears showing that the initial tempo is now being calculated, and the set initial tempo is later displayed.



- *When the initial tempo exceeds 20 to 250, the display shows "Out of range", and the initial tempo is not entered.
- Step 5 Press ENTER again to return to the previous display.
 - *If The Initial Tempo is set to "OFF", "Init Tempo Off" message appers in the display.



| 1 | Utility | P. 152 |
|---|-------------------|--------|
| 2 | Users Function | P. 154 |
| 3 | Initialization | P. 158 |
| 4 | Memory Card (RAM) | P. 162 |
| 5 | Sync Play | P. 167 |
| 6 | MIDI | P. 172 |

1 UTILITY

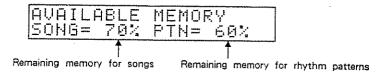
The Utility Mode is accompanied by three functions:

- Available Memory (checking the remaining memory of the song and rhythm patterns)
- ●All Song Clear (erasing the entire song data)
 - ●All Pattern Clear (erasing all the User-programmed rhythm patterns)

a. Available Memory

This function allows you to check the remaining memory for the song and rhythm pattern data. It is shown in percentage (%). At 0%, no more data can be written.

- Step 1 Press UTILITY to turn to the Utility Mode.
- Step 2 Press Numerical Key 3 to select "AVAIL".



The remaining memory capacity for songs and rhythm patterns is shown.

Step 3 Press EXIT to return to the menu display.

b. All Song Clear

This function erases the entire song data in the R-8.

- Step 1 Press UTILITY to turn to the Utility Mode.
- Step 2 Press Numerical Key 1 to select "SONG CLR".

ALL SONG CLEAR >> Press ENTER.

Step 3 Press ENTER .

ALL SONG CLEAR ++ Are you sure ?

*To leave this mode, press EXIT .

Step 4 Press ENTER .

"Completed" appears in the display showing that all songs are erased.

c. All Pattern Clear

This function erases the entire User-programmed pattern data in the R-8.

- Step 1 Press UTILITY to turn to the Utility Mode.
- Step 2 Press Numerical Key 2 to select "PTN CLR".

ALL PATTERN CLEAR >> Press ENTER.

Step 3 Press ENTER .

ALL PATTERN CLEAR >> Are you sure ?

*To leave this mode, press EXIT .

Step 4 Press ENTER .

"Completed" appears in the display showing that all rhythm patterns are erased.

2 USERS FUNCTION

The Users function allows you to set a sequence of keystrokes. Up to ten different settings (Users functions) can be registered. Once the sequence of the procedures (Users function) are registered, you can perform the entire procedure just by calling it.

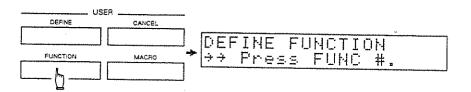
How to register the Users function

With the unit stopped, a sequence of procedures can be registered in a Users function as follows:

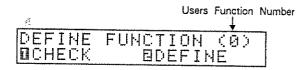
Step 1 Press DEFINE .



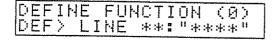
Step 2 Press FUNCTION



Step 3 Specify the number of the Users function to be used with Numerical Keys 0 to 9.



Step 4 Press Numerical Key 2 to select "DEFINE".



Step 5 Press the buttons in the sequence you wish to register (Up to 16 button procedures can be registered).

- *If you fail to specify the buttons in the right order from mode selection, the registered buttons do not function properly.
- *Each time you register a button procedure, a line number advances.
- *CANCEL, DEFINE, MACRO and FUNCTION buttons cannot be registered.
- *Pattern writing procedure with key pads-cannot-be-registered. --
- Step 6 Press DEFINE to return to the previous display.

[Ex.]

 With the unit stopped, play from the 17th bar of Song number 3.

| Line Number | Button | Display | Operation | |
|----------------|-----------------|---------|------------------------------|--|
| 1 | SONG | SONG | | |
| 2 | EXIT | EXIT | Select the Song Play Mode | |
| 3 | Numerical Key 1 | N1 | | |
| 4 | Numerical Key 3 | ИЗ | Select Song No. 3 | |
| 5 | > | CUR > | Assign bar 17 | |
| 6 | Numerical Key 0 | NO | | |
| 7 | Numerical Key 0 | N0 | | |
| 8 | Numerical Key 1 | N1 | | |
| 9 | Numerical Key 7 | N7 | | |
| 10 | SHIFT . | SHFT | | |
| 11 | START/STOP | s/s | Continue to start | |

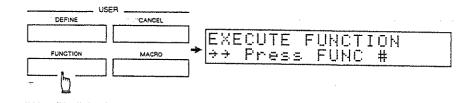
•With the unit in the Real-time Writing mode and Stopped, erasing the entire data of the next pattern number, and setting for four-quarter time, one bar.

| | · | | | |
|----------------|-----------------|---------|-------------------------------------|--|
| Line Number | Button | Display | Operation | |
| 1 | PATTERN | PTN | | |
| 2 | EXIT | EXIT | Select the Real-Time Write | |
| 3 | Numerical Key 3 | N3 | AATIG | |
| 4 | 4 | CUR < | | |
| 5 | 4 | CUR < | Select the next rhythm pattern | |
| 6 | + 1/0N | PAR > | | |
| 7 | SHIFT | SHFT | | |
| 8 | Key Pad 14 | PD14 | Erase the entire data to set it to | |
| 9 | ENTER | ENTR | four-quarter time and single bar | |
| 10 | ENTER | ENTR | | |

Executing the registered Users function

Specify the Users Function you have registered to execute it.

Step 1 Press FUNCTION .



Pressing FUNCTION again will return to the previous display.

Step 2 Specify the number of the Users function to be used with the Numerical Keys.

The selected Users function is now performed.

Checking the Users function

To check the Users Function you have registered, with the unit stopped, use the following procedure.

- Step 1 Press DEFINE .
- Step 2 Press FUNCTION .
- Step 3 Specify the number of the Users Functions (0-9) you wish to check with the Numerical Keys. (0 to 9)
- Step 4 Press Numerical Key 1 to select "CHECK".

DEFINE FUNCTION (0) CHK> LINE 01: "SONG"

Step 5 Using -1/OFF + 1/ON, change the line numbers to display the button name of each line number.

| Display | Button | |
|-----------|-------------|--|
| SONG | SONG | |
| PTN | PATTERN | |
| MIDI | MIDI | |
| ASGN | INST ASSIGN | |
| CARD | CARD | |
| UTIL | UTILITY | |
| SND SOUND | | |
| PFM | PERFORM | |
| FEEL | FEEL | |
| | | |

| Display | Button | |
|---------|-------------------|--|
| PAD | PAD BANK | |
| MLT | MULTI | |
| SCP | SCOPE | |
| CUR > | > | |
| PAGE | PAGE | |
| CUR < | ◀ | |
| ТМР | TEMPO | |
| LVL | LEVEL | |
| N0~9 | Numerical Key 0-9 | |
| | | |

| Display | Button | | |
|---------|-----------------|--|--|
| EXIT | EXIT | | |
| ENTR | ENTER | | |
| PAR < | − 1/0FF | | |
| SEL | SELECT | | |
| PAR > | + 1/0N | | |
| s/s | START/STOP | | |
| ROLL | ROLL | | |
| FLAM | FLAM | | |
| SHFT | SHIFT | | |
| PD1~16 | Key Pads 1 - 16 | | |

Step 6 Press DEFINE to return to the previous display.

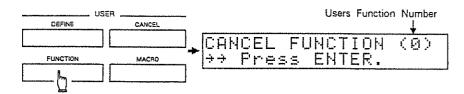
Clearing the Users function

To clear the Users function you have registered With the unit stopped, do as follows:

Step 1 Press CANCEL .



Step 2 Press FUNCTION .



- Step 3 Specify the number of the Users Function you wish to erase with -1/OFF and -1/ON -VALUE sliders or the Numerical Keys.
- Step 4 Press ENTER.

 The display responds with "Are you sure?".
- Step 5 To continue, press ENTER .

*To cancel this mode, press EXIT .

3 INITIALIZATION

The Initializing function of the R-8 can recall the factory preset data (data preprogrammed by the manufacturer) at any time even after it has been edited.

Initializing Note Numbers

The setting of the note numbers can be returned to the factory presets.

- Step 1 Press MIDI to turn to the MIDI Mode.
- Step 2 Press Numerical Key 7 to select "NT # INIT".

Step 3 Press ENTER .

The display responds with "Are you sure?".

Step 4 To continue, press ENTER again.
To stop, press EXIT.

Initializing Instrument Assignment

The instrument assignments to the key pads and instrument under Multi Assign can be returned to the factory presets.

- Step 1 Press INST ASSIGN to turn to the Instrument Assign Mode.
- Step 2 Press Numerical Key 3 to select "INIT".

To initialize the entire Instrument Assignment, skip the following step 3, then go to step 4.

Step 3 To initialize the instrument of a certain Pad Bank, select the Pad Bank with PAD BANK.

To initialize an instrument in the Multi Assign, press MULTI.

- Step 4 Press ENTER.

 The display responds with "Are you sure?"."
- Step 5 To continue, press ENTER again.

 To stop, press EXIT.

Initializing Sound Parameters

The Sound Parameters can be returned to the factory preset values.

- Step 1 Press SOUND to turn to the Sound Edit Mode.
- Step 2 Press Numerical Key 3 to select "INIT".

SOUND INIT 11 SOUND BALL

Step 3 Specify the instrument to be initialized with the Numerical Keys.

To initialize a specific instrument, press Numerical Key 1.

SOUND INIT(@CRSH_G1) →→ Press ENTER.

To initialize all the instruments, press Numerical Key 2.

SOUND INIT <ALL> →→ Press ENTER.

*If you have pressed Numerical Key 2 in the above step, skip step 4 and go to step 5.

- Step 4 Tap the key pad that corresponds to the instrument to be initialized.

 If necessary, change Pad Banks with PAD BANK.
- Step 5 Press ENTER.

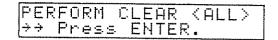
 The display responds with "Are you sure?".
- Step 6 To continue, press ENTER again.

 To stop, press EXIT.

Clearing Performance Parameters

The performance parameters of all the key pads can be cleared (Pan = OFF, all the other parameters = 0).

- Step 1 Press PERFORM to turn to the Performance Edit Mode.
- Step 2 Press Numerical Key 3 to select "CLEAR".



To initialize the Performance parameters of all the key pads, skip the following step 3, then go to step 4.

- Step 3 To initialize performance parameters of a certain Pad Bank, select the Pad Bank with PAD BANK.
 - To initialize Performance parameters in the Multi Assign, press MULTI.
- Step 4 Press ENTER.

The display responds with "Are you sure?".

Step 5 To continue, press ENTER again.

To stop, press EXIT.

Clearing Feel Patches The settings of the Feel Patches can be cleared.

- Step 1 Press FEEL to turn to the Feel Edit Mode.
- Step 2 Press Numerical Key 1 to select "PATCH".
- Step 3 Specify the Feel Patch number to be cleared.
- Step 4 Press EXIT to return to the Menu Display, then select "CLEAR" by pressing Numerical Key 7.

Feel Patch Number

FEEL PATCH CLEAR(#0)

Press ENTER.

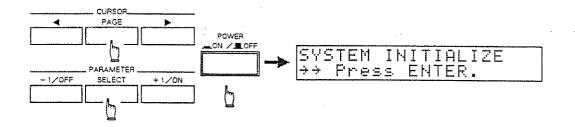
Step 5 Press ENTER .

The display responds with "Are you sure?".

Step 6 To continue, press ENTER again.

To stop, press EXIT.

- Initializing the R-8 The entire data of the R-8 can be initialized. Meanwhile the demonstration songs/User-patterns (Preset patterns are copied to pattern numbers 00 to 31) and Feel Patches are set.
 - Step 1 Switch the R-8 off.
 - Step 2 While holding PAGE and SELECT down, switch the unit on.



- Step 4 Press ENTER.

 The display responds with "Are you sure?".
- Step 5 To continue, press ENTER again.
 To stop, press EXIT .

4 MEMORY CARD (RAM)

All data programmed in the R-8, such as rhythm patterns, songs, sound parameters, performance parameters can be saved onto a RAM card (optional).

*The Sound ROM card cannot hold the R-8's data.

Notes on using a RAM card

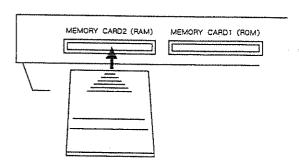
- ●Use only the M-256E or M-256D RAM card.
- Read the instructions supplied with the card carefully.
 - •Normally set the protect switch on the RAM card to the ON position to protect data saved. Set it to OFF only when saving data onto the card.
 - Inserting a RAM card with protect "OFF" into the ROM card slot will erase the data on the RAM card. When using it again later, format it.
 - ●If you keep the RAM card connected to the R-8 with the R-8 switched off, the lithium battery in the card will be wasted. When you switch off the R-8, remove the card.
 - If an error message is shown in the display, resolve it as explained in "Error Message Table" on page 189.
 - Do not switch off the unit while loading or saving a RAM card.
 Data on the card or in the internal memory of the R-8 may be erased.

1. Formatting

To save data onto a brand new RAM card or one used for another unit, the following formatting procedure is required. Formatting saves the entire data in the R-8 onto the card.

*Formatting will erase any previous data stored on the RAM card.

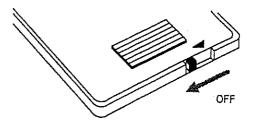
Step 1 Connect the RAM card to the RAM Card Slot securely (until it clicks).



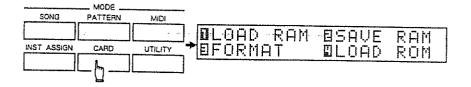
Card Number 2 is indicated

| MODE | PATTERN | TEMPO |
|----------|----------|---------|
| EOIT | | |
| USER | CARD | T2010al |
| PAD BANK | A ASSIGN | |

Step 2 Set the protect switch on the RAM card to OFF.



Step 3 Press CARD to turn to the Card Mode.



Step 4 Press Numerical Key 3 to select "FORMAT".

If you are using a brand new card, the Card Name setting display appears:

RAM CARD FORMAT CARD NAME:<_ >

Olf any data is written on the card, the following display appears:

RAM CARD FORMAT Data exist : FORMAT?

To continue, press ENTER, and to stop, press EXIT.

*If the RAM card is not connected correctly, the "Card not ready" message appears.

If this happens, remove the card, reinsert it properly, then repeat the procedure.

*If the connected card cannot be used for the R-8, the "illegal card" message appears.

Pressing a Numerical Key also switches alternately between numbers and letters/symbols mode (marked at the upper right of the keys). If you wish to use small letters, press a Numerical Key while holding SHIFT down.

Step 6 Press ENTER .

RAM CARD FORMAT ++ Are you sure ?

*To leave this mode, press EXIT .

Step 7 Press ENTER again.

"Completed" appears showing the card is now formatted.

Step 8 Set the protect switch on the card back to ON.

2. Save

The saving procedure saves the data on the R-8 onto a RAM card.

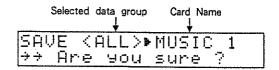
- *To save data onto a brand new RAM card or the one used for the other unit, the formatting procedure (see page 163) is required. Formatting saves the entire data in the R-8 onto the RAM card.
- Step 1 Connect the RAM card to the RAM-Gard-Slot-securely (until-it clicks).
- Step 2 Set the protect switch on the RAM card to OFF.
- Step 3 Press CARD to turn to the Card Mode.
- Step 4 Press Numerical Key 2 to select "SAVE RAM".

| SAVE | TO RAM | CARD |
|------|--------|---------------|
| DALL | BSEQ | OSETUP |

- Step 5 Specify the data group to be saved using Numerical Keys 1 to 3.

 Normally, use the All mode.
 - 1: ALL ... Saving the entire data in the R-8 (SEQ and SETUP)
 - 2: SEQ ··· Saving rhythm patterns and song data
 - 3: SETUP Saving Instrument Assign, Sound Parameters (Data of a ROM card),
 Performance Parameters, Macro Notes, Users Function, Metronome,
 Sync Mode, Feel Patches and setting of MIDI functions

The display responds with:



- *Saving with ALL or SETUP will copy the Loading status of the ROM card at the same time.
- *To leave this mode, press EXIT .
- Step 6 Press ENTER.

"Completed" appears showing data is now saved onto the card.

Step 7 Set the protect switch on the card back to ON.

3. Load

The loading procedure copies data on a RAM card into the R-8.

- Step 1 Connect the RAM card to the RAM Card Slot securely (until it clicks).
- Step 2 Press CARD to turn to the Card Mode.
- Step 3 Press Numerical Key 1 to select "LOAD RAM".

| LOAD | FROM | RAM | CARD |
|------|-----------|-----|--------|
| DALL | <u>85</u> | EQ | DSETUP |

Step 4 Specify the data group to be loaded using Numerical Keys 1 to 3.

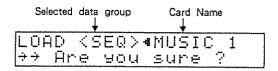
Normally, use the All mode.

1: ALL ... Loading the entire data on a RAM card (SEQ and SETUP)

2: SEQ ... Loading rhythm patterns and song data

3: SETUP Loading Instrument Assign, Sound Parameters (Data of a ROM card),
Performance Parameters, Macro Notes, Users Function, Metronome,
Sync Mode, Feel Patches and setting of MIDI Functions

The display responds with:



*To leave this mode, press EXIT .

Step 5 Press ENTER .

"Completed" appears showing data is now loaded into the R-8.

*Once you have loaded parameter data of ROM card from RAM card, the instruments on the Loaded ROM card are ready to be used just by connecting the card to the unit.

5 SYNC PLAY

The R-8 can sync to other MIDI equipment or MTR (multi track recorder).

1. Sync Mode Setting

The R-8 can select to what device it should sync to.

With the unit set to the Song or Pattern Mode and stopped, do as follows:

Stop 1 Tap key pad 16 while holding SHIFT down.



Step 2 Select one of the three Sync Modes using -1/OFF +1/ON, or VALUE slider.

INTERNAL ... An external device syncs to the R-8

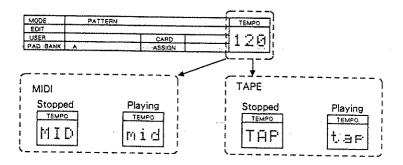
TAPEThe R-8 syncs to the sync signal recorded on an MTR
MIDIThe R-8 syncs to the MIDI clock signal of an external MIDI device

*When the Sync mode is set to MIDI (TAPE) but clock signals (Sync signals) are not being received, the Roll or Macro Note effect cannot be obtained with the Key pads.

Step 3 Press ENTER to return to the previous display.

Tempo Display

If the "MIDI" or "TAPE" Sync Mode is selected, the tempo display will be as shown below, and the tempo control cannot be done on the R-8.



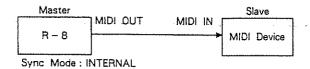
If START/STOP is pressed without any sync signal being fed into the R-8, the display shows the normal playing indication, but the R-8 does not start playing until the sync signal is sent from the external device.

2. MIDI Sync

In MIDI sync, the R-8 plays as a master or slave.

When the R-8 is a master device

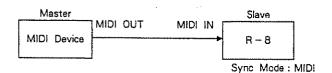
To control an external device with the R-8's Start/Stop or tempo, set up the R-8 with an external device as shown below.



*When the slave device (external device) can receive MIDI Song Select or Song Position Pointer messages, the song numbers bar numbers set on the R-8 are also selected on the slave device.

When the R-8 is a slave device

To control the R-8 with the Start/Stop or tempo of the external device, set up the R-8 and the external device as shown below.



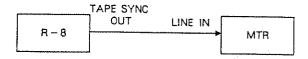
*When the master device (external device) can transmit MIDI Song Select or Song Position Pointer messages, the song numbers bar numbers set on the external device are also selected on the R-8.

3. Tape Sync

The R-8 syncs to the FSK signal recorded in an MTR. You may use the R-8 as a tape sync interface, to make another MIDI device which does not feature a tape sync function play to the MTR.

Recording Sync signals

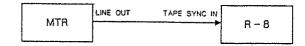
To record tape sync signals from the R-8 to an MTR, do as follows.



- *When recording tape sync signals, do not use noise reduction or an equalizer. It will cause malfunctions to the R-B. If you cannot avoid using them in recording because of the specifications of the MTR you use, you must use them in exactly the same settings during playback.
- Step 1 Set the Sync Mode of the R-8 to "INTERNAL" (see page 167).
- Step 2 Adjust the recording level (approx. 10 to 3VU) of the MTR.
 - *When the R-8 is stopped, pilot signals are always output from the TAPE SYNC OUT jack.
- Step 3 Set the tempo for the sync play.
- Step 4 Start recording on the MTR first, then start the R-8 in a few seconds.
- Step 5 When the R-8 stops playing, wait for a few seconds and stop the MTR.

Sync Play

The R-8 syncs to the MTR's tape sync signals.



- Step 1 Rewind the tape until the pilot tone changes to a modulated tone.
- Step 2 Set the Sync mode of the R-8 to "TAPE" (see page 167).
- Step 3 Start the MTR (Set the track of the tape sync signals to Play mode, and the other tracks to Recording mode if necessary).
- Step 4 Press START/STOP on the R-8.
 - *Be sure to press START/STOP before the pilot tone changes to a modulated tone.
 - When the tones change, the R-8 starts syncing to the tape sync signals.
 - *It is not possible to start tape sync while the tape is playing.
 - *When the tape sync does not perform well, adjust the output level of the tape sync signals then repeat the procedure. If you fail, record the tape sync signals again at a different level.

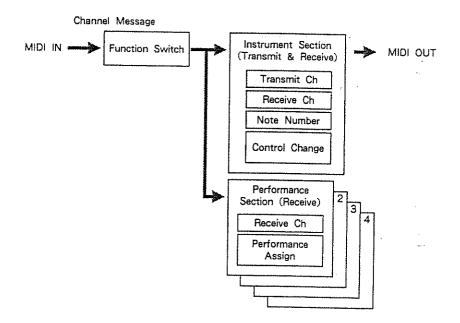
6 MIDI

The R-8 can be played using an external MIDI device, or can play an external rhythm machine or MIDI module. Also, using MIDI exclusive messages, the entire data in the internal memory of the R-8 can be transferred to an external device.

*Read the separate booklet "Guide Book for MIDI".

1. MIDI Function Settings

The R-8 transmits and receives MIDI messages as shown below.



Instrument Section

The Instrument section should be set when you play the R-8's rhythm voices with external MIDI equipment. In this section, a note number is assigned to each Instrument.

It is possible to play the instruments according to the assigned note numbers with performance data sent from an external MIDI device, or to play more than one MIDI device with the performance data of the R-8.

Performance Section 1 to 4

The Performance section should be set when you play the R-8 as a synthesizer sound module using an external MIDI keyboard.

In this section, one instrument is assigned to each four sections. The parameters (Pitch/Decay/Nuance/Pan) of the assigned instrument can be changed depending on the keys you play on the keyboard.

a. Transmit Channel (Instrument Section)

When playing an external MIDI sound module with the performance data (note messages) sent from the R-8, the transmit channel of the R-8 can be set for each instrument.

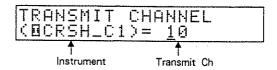
When using only one MIDI sound module, set the transmit channels of all the instruments to the same number. When using more than one MIDI sound module, set different channels if necessary to differentiate instruments.

*The Note number setting of each instrument preprogrammed from the manufacturer is shown on page 208.

Step 1 Press MIDI to turn to the MIDI mode.



Step 2 Press Numerical Key 1 to select "TX CH".



- Step 3 Tap the key pad for the instrument whose transmit channel is to be set.

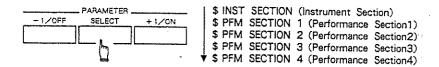
 Change Pad Banks with PAD BANK, if necessary.
- Step 4 Set the transmit channel (1 to 16) with -1/OFF +1/ON, VALUE slider or Numerical Keys.
- Step 5 To continue, and set the transmit channels of another instrument, repeat steps 3 and 4.
- Step 6 Press EXIT to return to the Menu Display.

b. Receive Channel (Instrument Section/Performance Section)

This sets the R-8's receive channel where MIDI messages are received from an external MIDI device, for each section.

- *The receive channel of the instrument Section is the Basic channel on which Exclusive messages are received.
- *Set the receive channels of the Performance section and Instrument section to different numbers. If they are set to the same number, the instrument section will be given priority.
- Step 1 With the Menu Display shown in the MIDI mode, press Numerical Key 2 to select "RX CH".

Step 2 Using SELECT, select the section whose receive channel is to be set.



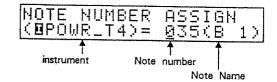
- Step 3 Set the receive channel (1 to 16) with -1/OFF +1/ON, VALUE slider or Numerical Keys.
 - *Set the unused Performance section to "OFF". (OFF cannot be set with the Numerical Keys.)
- Step 4 Press EXIT to return to the Menu Display.

c. Note Numbers (Instrument Section)

When Note messages are received on the receive channel set in the instrument section, Note numbers decide what instruments should be played. When the R-8 transmits Note messages, the note numbers set here will be used (see page 173).

- ・・・・米 Preset isettings for Note inumbers ware ishown ion page 208.

Step 1 With the Menu Display shown in the MIDI mode, press Numerical Key 3 to select "NOTE #".

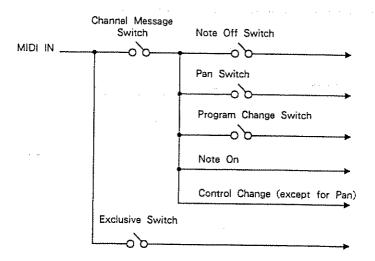


- Step 2 Tap the key pad for the instrument whose note number is to be set.

 Change Pad Banks with PAD BANK, if necessary.
- Step 3 Set the note number (0 to 127) with -1/OFF +1/ON, VALUE slider or Numerical Keys.
 - *Set Instruments that do not receive or transmit Note messages to "OFF". (This cannot be set with Numerical Keys.)
- Step 4 To continue, and set the note numbers of another instrument, repeat steps 2 and 3.
- Step 5 Press EXIT to return to the Menu Display.

d. Function Switch (Instrument Section/Performance Section)

A function switch selects whether or not to receive the MIDI channel messages. There are other switches for selecting respectively whether to transmit or receive. They are Note Off, Pan, Program Change and Exclusive switches.



*The setting of the Function Switch is relevant to all the sections.

Description of Function Switches

Channel Message Switch

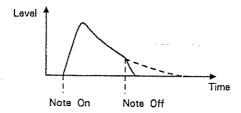
This selects whether or not to transmit and receive the Channel messages (Note/Program Change/Control Change).

*If the Channel Message Switch is set "OFF", no Channel message is transmitted or received regardless of the settings of the Note Off, Pan or Program Change switches.

Note Off Switch

This selects whether or not to receive the Note Off (or Note On with Velocity zero) messages sent by releasing Keys on a keyboard. Normally it should be set to "OFF", and set to "ON" to mute a long decay sound.

ON The instrument of the note number is muted upon receiving Note Off.



OFF The instrument of the note number is not muted even when Note Off is received.

●Pan Switch

This selects whether or not to control the pan (Control Change number 10) from an external MIDI device.

OFF Pan messages are not received.

*The Pan messages can control only the sound played by the MIDI messages received at MIDI IN, but cannot control the sound (Song Play or Pattern Play) played by the R-8 itself.

*When the Pan Switch is set to "ON", the Pan assigned to the other Control Change numbers will be invalid.

●Program Change Switch

This selects whether or not to receive the Program Change messages.

ON......Pattern Numbers / Feel Patch Numbers are changed according to the Program Change Numbers received on the Basic Channel (receive channel of the instrument section).

| Mode | Receivable Range | Operation |
|----------------------|------------------|---|
| Song Play Mode | 1 – 8/128 | Changes to the Feel Patch that is one number smaller than the receiving number. The selected Feel Patch is retained until it is changed to another Feel Patch or cancelled. **128* will cancel the assignment of the Feel Patches. |
| Pattern Play Mode | 1 100 | Changes to the Rhythm Pattern that is one number smaller than the receiving number. |

OFFProgram Changes are not received.

- *Even if the Program Change Switch is set to "ON", no Program Change is received if the unit is set to modes other than Song Play or Pattern Play mode.
- *If the Program Change Switch is set to "ON" in the Song Playing mode, the Feel Patch assigned to each rhythm pattern will be ignored.

●Exclusive Switch

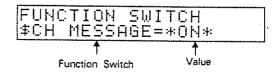
This selects whether or not to receive MIDI exclusive messages.

ON.....Exclusive messages are received when the R-8 is stopped.

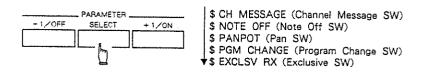
OFFExclusive messages are not received.

Now, let's set the Function Switches.

Step 1 With the Menu Display shown in the MIDI mode, press Numerical Key 4 to select "FUNCTION".



Step 2 Using SELECT, specify the Function Switch to be used.



- Step 3 Select ON or OFF with -1/OFF +1/ON, or VALUE slider.
- Step 4 To continue, and set the other switches, repeat steps 2 and 3.
- Step 5 Press EXIT to return to the Menu Display.

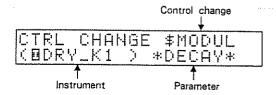
e. Control Change (Instrument Section)

Control Change messages (Modulation and General purpose controls 1 to 8) sent from an external MIDI device can control a parameter (Pitch, Decay, Nuance or Pan) of the specified instrument.

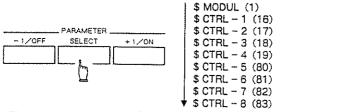
Once the Control Change is set, the corresponding control change (the value of the specified parameter) is transmitted when the specified instrument is played.

If you record these performance messages into a MIDI sequencer from the R-8, the instruments will be faithfully played back on the $R_{\rm c}$ 8 with the recorded performance data.

Step 1 With the Menu Display shown in the MIDI mode, press Numerical Key 5 to select "CTRL CHG".



Step 2 Using SELECT, select one of the Control Changes.



- *The numbers shown in () represent Control Change numbers.
- Step 3 Press the key pad that corresponds to the instrument that transmits or receives the Control Change.
- Step 4 Using -1/OFF + 1/ON or VALUE slider, specify parameter (Parameters : Pitch, Decay, Nuance or Pan).
 - * "Pitch" cannot be selected with CTRL 5 to 8.
 - *Set the parameter of the unused Control Change to "OFF".
- Step 5 To continue, and set the other Control Changes, repeat steps 2 to 4.
- Step 6 Press EXIT to return to the Menu Display.

f. Performance Section

The Performance section is used for changing parameter values (Pitch, Decay, Nuance or Pan) of a certain instrument depending on the playing key on the keyboard.

Function of the Performance Section

Assign an instrument and a parameter to be changed to each Performance section. Then set how it should be changed using the following parameters.

Center Note Number

This sets the base (0) note number (0 to 127) for changing the parameter values.

*The base value of the pan is the center.

Keyboard Follower

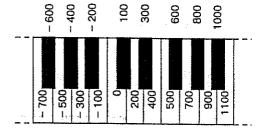
This sets the amount of changes from the center note number between two note numbers.

The parameter value of the center note number is zero, and increases as a note number advances, and decreases as note number goes backward.

| Parameter | Variable range |
|-----------|----------------|
| Pitch | 0~990 |
| Decay | 0~9 |
| Nuance | 0~3 |
| Рап | 0~1 |

< Ex. > Playing the R - 8

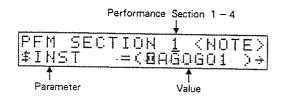
Center Note: C4 (60) Keyboard Follower: 100



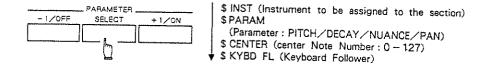
●Control Change

Independently of the parameters set in each Performance section, another one control change (MODUL/CTRL-1 to 8) can control the parameters (Decay/Nuance/Pan). Using the control Changes, it is possible to control a different parameter with the modulation lever, etc, while changing the parameter specified here from the Keyboard.

Step 1 With the Menu Display shown in the MIDI mode, press Numerical Key 6 to select " PFM SECT".



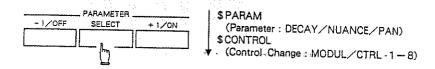
- Step 2 Specify the Performance section to be set with -1/OFF +1/ON, VALUE slider or Numerical Keys.
- Step 3 Using SELECT, select a parameter, then set the amount of change for the parameter with 1/OFF + 1/ON, VALUE slider or Numerical Keys.



*The instrument is assigned to "\$ INST" with a key pad.

Step 4 Turn to the Control Change setting display with PAGE.

Step 5 Select a parameter with <u>SELECT</u>, then set the value of the parameter using -1/OFF +1/ON or VALUE slider.



*The control number of each control change is shown on page 180.

*Set CONTROL to "OFF" when the Control Change is not to be used.

Step 6 Press EXIT to return to the Menu Display.

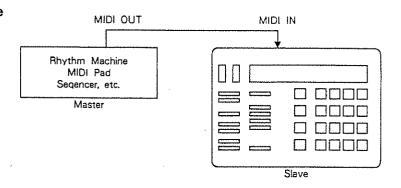
2. Example Setups

a. Using the R-8 as a MIDI Sound Module

The R-8 can be played by a sequencer, rhythm machine, MIDI keyboard or MIDI drum pags.

When the R-8 is played by an external MIDI device, the sound of each instrument can be edited using Sound parameters (see page 47). Performance parameters have no effect.

Using the R-8 as a rhythm sound module



Set the MIDI parameters as follows.

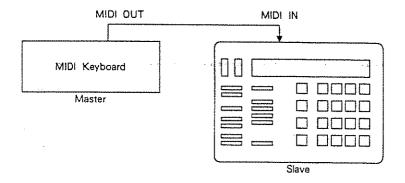
- ●Set the Channel Message Switch (Function Switch) to "ON" (see page 177).
- Set the receive channel of the Instrument section to the same number as the transmit channel of the MIDI device (see page 174).
- ●Change the note number assignment to instruments if necessary (see page 175).

*When the PAD-80 is used as a master and the Pan Switch (one of the Function Switches) is set to "ON", the pan for each pad can be received (see page 177).

Performance data from an external device can be written into rhythm patterns with the R-8 in the Real-time Write mode. However, Note Off cannot be entered to a rhythm pattern, therefore mute effect cannot be created.

Using the R-8 as a sound source for a MIDI keyboard

Depending on the key played on the keyboard, the pitch, pan, decay or nuance of specified instruments will be changed accordingly.

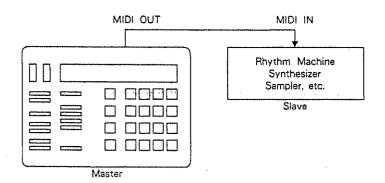


Set the MIDI parameters as follows.

- ●Set the Channel Message Switch (Function Switch) to "ON" (see page 177).
- •Set the receive channel of any Performance section, 1 to 4, to the same number as the transmit channel of the MIDI keyboard (see page 174).
- Set the Instrument, Parameter, Center Note Number and Keyboard Follower of the selected Performance section to appropriate values (see page 181).

Performance data from an external device can be written into rhythm patterns with the R-8 set to the Real-time Write mode. However, Note Off cannot be entered to a rhythm pattern, therefore mute effect cannot be created.

b. Playing an external MIDI sound module with the R-8



*When using a sampler unit or synthesizer, select a sound with a quick attack and long release time (the time needed from Note Off to zero) to prevent the created sound from muting or cutting.

Set the MIDI parameters as follows.

- ●Set the Channel Message Switch (Function Switch) to "ON" (see page 177).
- ●Set the transmit channel of each instrument to the same number as the receive channel of the slave device (see page 173);
- ●Change the note number assignment to instruments if necessary (see page 175).

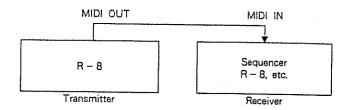
3. Data Transfer via Exclusive

Using MIDI Exclusive messages, the entire data written in the R-8 can be transferred to another R-8 or any MIDI device which can receive Exclusive messages. Also, the Sound parameters of any instrument can be transferred using the Exclusive messages.

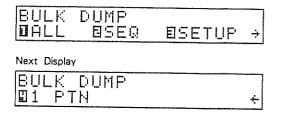
a. Transmit (Bulk Dump)

Data stored in the R-8 is transferred.

Connections

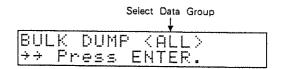


- Step 1 Set the basic channel (receive channel of the instrument section) to the basic channel of the receive unit (see page 174).
- Step 2 With the Menu Display shown in the MIDI mode, press Numerical Key 8 to select "BLK DUMP".



- Step 3 Using Numerical Keys 1 to 4, specify the data group to be transferred.
 - 1: ALLThe entire data is transferred. (SEQ and SETUP)
 - 2: SEQ ·····Rhythm Patterns and Song data are transferred.
 - 3: SETUP····Instrument Assign, Sound Parameters (Data of ROM card),
 Performance Parameters, Macro Notes, Users Function, Metronome,
 Sync Mode, Feel Patches and setting of MIDI functions data are
 transferred.
 - 4: 1-PTN ····One Rhythm Pattern is transferred.

The display responds with:



When you have pressed Numerical Key 4, specify the Pattern number to be transferred with $\boxed{-1/OFF}$ $\boxed{+1/ON}$, VALUE slider or Numerical Keys.

BULK DUMP (PTN 30) ++ Press ENTER.

Step 4 Press ENTER .

The display responds with "Are you sure?".

Step 5 Press ENTER to transfer the data.

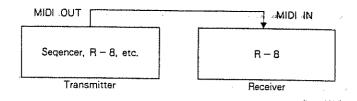
When the data transfer is finished, "Completed" appears in the display.

*To leave this mode, press EXIT .

b. Receive

The R-8 receives exclusive messages from another R-8 or MIDI device.

Connections



Step 1 Set the basic channel (receive channel of the instrument section) to the basic channel of the Transmitter (see page 174).

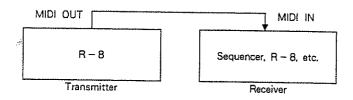
Step 2 Set the Exclusive Switch (Function Switch) to "ON" (see page 178).

If the R-8 is stopped, it receives Exclusive messages.

c. Transmitting Sound Parameters

Sound parameters of an instrument can be transferred via the Exclusive messages.

Connections



Step 1 With the unit set to the Edit Mode of Sound parameters, specify the instrument whose Sound parameters should be transferred.

Step 2 Press ENTER to transfer the data.

■ REFERENCE

1. Error Messages Table

If an error message is shown in the display, resolve it as follows.

++ Card not ready.

●A RAM Card is not correctly connected to the RAM Card Slot.

□Insert a RAM Card properly.

Name of previously loaded ROM card

LOADED=<

> Cand not ready.

●A Sound ROM Card is not correctly connected to the ROM Card Slot.

□Insert a Sound ROM Card properly.

→→ Card protected.

●The protect switch on the RAM card is set to "ON".

□Set the switch to "OFF".

→→ Ille9al card !

●The card connected to the RAM Card Slot cannot be used with the R-8.

□ Replace the card with the specified RAM card (M-256E or M-256D).

Pull out this CARD.

●The card connected to the ROM Card Slot is not the R-8's Sound ROM card.

Remove the card from the ROM Card Slot.

⇒⇒ Ptn memory full ‼

●There is no memory left for rhythm patterns.

Press EXIT, return to the previous mode.

To continue to write rhythm patterns, clear unneeded existing patterns.

REFERENCE

→→ Son9 memory full.

- •There is no memory left for songs.
- □To continue to write or edit song data, clear unneeded existing songs.

)) Bar # overflow.

- As a result of Pattern Append the number of bars in the pattern exceeds 99...
 - Change the settings so that the total number will not exceed 99.

🚧 Empty pattern.

●There is no data in the source rhythm pattern for Pattern Copy, Pattern Merge, Pattern Append, etc.

Select another rhythm pattern.

)) Event unpointed.

●in Micro Timing Shift or Macro Timing Shift, the sound to be timing-shifted is not yet selected.

□ Check the procedure for the Micro Timing (Macro Timing) Shift.

🔫 Inst not found.

- ●In Pattern Extract or Instrument Change, the instrument you specified does not exit in the pattern.
- Select a different source pattern or instrument.

→→ Checksum Error ‼

●Exclusive messages are not received correctly.

Press EXIT, return to the previous mode.

□Repeat the procedure carefully.

Too many MIDI messages are received at the →→ MIDI buffer full!! same time, making it impossible to deal with them. Press EXIT, and return to the previous mode. When it is shown during data receiving, decrease the amount of MIDI messages on the transmitter. Set the Function Switches so that unneeded data will not be transmitted or received. You have selected a Destination Part within the ++ Part overlar. specified source Part with Part Copy. Set an appropriate Part number. There is no data in the specified Part in the Part →→ No part exists. Copy or Part Delete procedure. Set the specified Part properly. Check if there is performance data in the specified Part. Part Insert or Part Copy will result in more than ⇒→ Part# overflow. 999 Parts in a song. Set so that the total number of Parts does not exceed 999. There is not enough memory left for executing 🗦 Ho are<u>a.</u> copy function. Delete unneeded rhythm patterns, then repeat the procedure. This is shown when a procedure is stopped in the

++ Aborted.

middle, or when a procedure cannot be executed.

2. Troubleshooting

Instrument

●No sound is heard

The level is set to zero.

□Raise the level.

A REST is assigned to the key pad.

Solution of the sey pad.

Solution of the sey pad.

A REST is assigned to the key pad.

Solution of the sey pad.

With the Macro Mode set to "ON", unspecified Macro note is selected.

□ Set the Macro Mode to "OFF".

You have not loaded the Sound ROM card yet.

□ Load the Sound ROM card.

More than 13 notes are simultaneously played.

The R-8's maximum number of voices is 12 and therefore cannot play more than 13 notes at the same time.

•The volume of sound does not change by changing the strength of Key pad hitting.

The Sense Curve (Sound Parameter) is set to 7 or 8.

Change the value of the Sense Curve.

The volume is too low

The level is set too low.

You are tapping the upper part of the key pad.

Tap the lower part of the key pad.

The sound is strange

Sound Parameters are not set properly.

Change the values of Sound parameters or initialize them.

Performance Parameters are not set properly.

Change the values of Performance parameters or clear them.

- The sound does not change after editing Sound parameters or Performance parameters.
 - The total value of the Sound parameter and Performance parameters exceeds the maximum range of the Sound parameter.

Even if it is within the range, this could happen when using certain instruments or parameters.

●Tapping a key pad produces continual sound.

The Macro Mode is set to "ON".

Set the Macro Mode to "OFF".

The same instrument is played by all the key pads.

The unit is set to the Multi Assign mode.

Press MULTI to cancel the Multi Assign mode.

Pad Banks cannot be changed.

The unit is set to the Multi Assign mode.

Press MULTI to cancel the Multi Assign mode.

Rhythm Patterns

- ●Pressing START/STOP does not cause the unit to play.

 The Sync mode is set to "TAPE" or "MIDI".

 □ Set the Sync mode to "INTERNAL".
- ●The instrument written in a rhythm pattern sounds different. You have edited Sound parameters.

Editing a Sound parameter affects instruments existing in any rhythm pattern as well.

The Swing effect is not obtained,

The Swing Delay parameter is set to zero.

Set the Swing Delay to an appropriate value.

The Swing point is not set properly.

Set the Swing point properly.

The unit is set to the Real-time Write or Step Write mode.

The Swing effect is not obtained during pattern writing.

•Real-time writing cannot be done.

The unit is set to the Real-time Edit mode.

Press PAGE to turn to the Real-time Write mode.

Feel Patch

● Feel Patch data has no effect.

The Groove Switch or Random Factor Switch is set to "OFF".

Set the Groove Switch or Random Factor Switch to "ON".

The instrument selected with Instrument Select is not used in the rhythm pattern.

Change the Instrument Select.

The Instrument Switch is set to "OFF".

Set the Instrument Switch to "ON".

The unit is set to the Real-time Write mode or Step Write mode.

The Feel Patch has no effect during pattern writing.

• Even when the Instrument Switch is set to "OFF", the sound of such instrument changes.

Check if the same instrument is assigned more than once with the Instrument Select.

Song

● Pressing START/STOP does not cause the unit to play. There is no data written in the selected song.

□Reselect a song or write data with Song Write.

The Sync mode is set to "TAPE" or "MIDI".

Set the Sync mode to "INTERNAL".

When a song is played, another song starts afterwards.
 Song Chain is set.

Cancel the Song Chain.

●The tempo of the song changes when it starts playing. Initial Tempo is set in the song.

Set the Initial Tempo to "OFF".

●The level of the song changes when it starts playing.
Initial Level is set in the song.

Change the Initial Level.

RAM Card

●Data cannot be saved

The protect switch on the RAM card is set to "ON".

Set it to "OFF".

The RAM card is not formatted.

●Data on a RAM card is erased.

If you connect a RAM card to the ROM card slot with the protect switch set to OFF, the data on the RAM card is erased.

Format the RAM card.

Sound ROM Card

The instruments on the card do not sound.

MIDI

(When the R-8 is a slave)

●No sound is heard.

The MIDI channels of the two units are not set to the same number.

Set the MIDI channels of the two units to the same number.

Instruments are not correctly assigned to note numbers.

Change the note numbers.

The Channel Message Switch is set to "OFF".

Set the Channel Message Switch to "ON".

●No sound is created in the Performance section.

The receive channels of the Performance section and Instrument section are set to the same number.

reset the receive channels of the Performance section and Instrument section to different numbers.

Only one instrument can be played.

MIDI messages are received on the receive channel of the Performance section.

Set the receive channel of the instrument section correctly.

Sound is muted partway through.

The Note Off Switch is set to "ON".

□ Set the Note Off Switch to "OFF".

The Pan does not change.

The Pan Switch is set to "OFF".

∽Set the Pan Switch to "ON".

Exclusive messages are not received.

The basic channels of the receiver and the transmitter are not set to the same number.

Set the basic channels to the same numbers. The basic channel of the R-8 is the receive channel of the Instrument section.

The Exclusive Switch is set to "OFF".

Set the Exclusive Switch to "ON".

(When the R-8 is a master device)

●No sound is heard,

The MIDI channels of the two units are not set to the same number.

Set the MIDI channels of the two units to the same number.

Instruments are not correctly assigned to the note numbers.

Change the note numbers.

The Note Number of the Instrument is set to "OFF".

Set the Note Number of the Instrument.

The Channel Message Switch is set to "OFF".

Set the Channel Message Switch to "ON".

Others

- ●The metronome stops in the middle.

 The Metronome mode is set to "EMPTY REC".

 Change the Metronome mode.
- ●Metronome is not heard.

 The metronome level is set to zero.

 □Increase the level of the metronome.

The Metronome mode is set to "EVER OFF".

Change the Metronome mode.

●The Flam effect is not obtained.

The Flam interval is set to zero.

Set the Flam interval to an appropriate value.

The Flam ratio is not set correctly.

Change the Flam ratio.

The Macro mode is set to "ON".

Set the Macro mode to "OFF".

- The Roll effect is not obtained.

 The Macro mode is set to "ON".

 □ Set the Macro mode to "OFF".
- ●The Modes are not changed by pressing buttons.

 The unit is set to the Users Function mode.

 □ Press □ DEFINE to cancel the Users Function.

3. Blank Chart

[Sound Parameters and Note Numbers]

| INST# | INST NAME | РІТСН | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE # |
|-------|-----------|-------|---------------------------------------|----------|---|----------------|------------------|--------|
| 1 | | | : | | | | | |
| 2 | | | · · · · · · · · · · · · · · · · · · · | | | F = 1 3.1 % | 1 11 20 11 11 11 | |
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| 17 | | | : | | | | | |
| 18 | | | : | | | | | |
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| 21 | | · | : | <u> </u> | | | | |
| 22 | | | : | | | | | |
| 23 | | | : | | | | | |
| 24 | | | : | | | | | |
| 25 | | | : | | | | | |
| 26 | 1. | | : | | | | | |
| 27 | | | : | | | | | |

| INST # | INST NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE# |
|--------|-----------|-------|-------|--------|------------------|----------------|----------------|-------|
| 28 | | | : | | | | | |
| 29 | | | ÷ | | | | | |
| 30 | | | : | | | | | |
| 31 | | | : | | | | | |
| 32 | | | : | В | | | | |
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| 52 | | | : | | | | | |
| 53 | | | : | | | | | |
| 54 | | | : | | <i>a</i> • | | | |

| INST# | INST NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE # |
|-------|-----------|-------|-------|--------|------------------|----------------|----------------|-------------|
| 55 | | | : | | | | | |
| 56 | | | : | | | | | |
| 57 | | | : | | | | | |
| 58 | | | : | | | | | |
| 59 | | | ÷ | | | | | |
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| 64 | | | : | | | | | |
| 65 | | | ; | | | | | |
| 66 | | | | | | | | |
| 67 | | | : | | | | | |
| 68 | | | : | | | | | |

| COPY INST # | SOURCE INST # | INST NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE# |
|----------------|------------------|-----------|-------|----------|--------|------------------|----------------|----------------|---|
| 1 | | | | : | | | | | |
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| 25 | | | | : | | | | | |
| 26 | | | | : | | | | | |

[Instrument Assigns and Performance Parameters]

| Instrument Assign | | | | | |
|-------------------|----|----|----|--|---|
| 1 | 2 | 3 | 4 | | |
| 5 | 6 | 7 | 8 | | £ |
| 9 | 10 | 11 | 12 | | |
| 13 | 14 | 15 | 16 | - Carlotte C | |

Performance Parameter

| Key Pad# | Pitch | Decay | Nuance | Pan |
|----------|-------|--|--------|-----|
| 1 | | | · · | |
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| 14 | | | | |
| 15 | | | | |
| 16 | | | | |

[Song Data]

| Part # | Data | Part # | Data | Part # | Data | Part # | Data |
|--------|------|--------------|----------|--------|------|--------|---|
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4. Preset Pattern Table

| Pattern # | Pattern Name Display | Description |
|-----------|-------------------------|------------------------------------|
| 00 | 8BEAT1 | * Rhythm Pattern with no accent |
| 01 | 8BEAT2 | * Rhythm Pattern with no accent |
| 02 | 8BEAT3 | |
| 03 | 88EAT4 | |
| 04 | 16BEAT1 | * Rhythm Pattern with no accent |
| 05 | 16BEAT2 | * Rhythm Pattern with no accent |
| 06 | 168EAT3 | |
| 07 | DISCO1 | |
| 08 | DISCO2 | |
| 09 | SLOWROCK | Appropriate tempo is about] = 85 |
| 10 | SHUFFLE1 | * Rhythm Pattern with no accent |
| 11 | SHUFFLE2 | * Rhythm Pattern with no accent |
| 12 | FUNKY1 | |
| 13 | FUNKY2 | |
| 14 | FUNKY3 | |
| 15 | OLDIES1 | Appropriate tempo is about J = 90 |
| 16 | OLDIES2 | Appropriate tempo is about J = 180 |
| 17 | OLDIES3 | |
| 18 | METAL1 | |
| 19 | METAL2 | |
| 20 | SWING1 | * Rhythm Pattern with no accent- |
| 21 | SWING2 | |
| 22 | BOSANOVA | |
| 23 | МАМВО | |
| 24 | MERENGUE | |
| 25 | RHUMBA | |
| 26 | BEGUINE | |
| 27 | SAMBA | |
| 28 | SALSA | |
| 29 | TANGO | |
| 30 | REGGAE | |
| | | |

5. Preprogrammed Sound Parameters and Note Numbers

| INST # | INSTRUMENT NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE# |
|--------|-----------------|-------|-------|--------|------------------|----------------|----------------|-------|
| 1 | DRY_K1 | 0 | 4:19 | 8 | CENTER | POLY | 2 | 35 |
| 2 | DRY_K2 | 0 | 20:12 | 8 | CENTER | POLY | 2 | OFF |
| . 3 | W00D_K1 | 0 | 16:14 | 8 | CENTER | POLY | 2 | 85 |
| 4 | DBLH_K1 | 0 | 19:13 | 8 | CENTER | POLY | 2 | OFF |
| 5 | DBLH_K2 | 0 | 25:12 | 8 | CENTER | POLY | 2 | 84 |
| 6 | SOLID_K | 0 | 7:7 | 8 | CENTER | POLY | 2 | OFF |
| 7 | R00M_K1 | 0 | 24:20 | 8 | CENTER | POLY | 2 | 36 |
| 8 | ROOM_K2 | 0 | 24:24 | 8 | CENTER | POLY | 2 | OFF |
| 9 | MONDO_K | 0 | 20:23 | 8 | CENTER | POLY | 2 | OFF |
| 10 | W00D_\$1 | 0 | 19:14 | 8 | CENTER | POLY | 2 | 88 |
| 11 | OPEN_S1 | 0 | 27:14 | 8 | CENTER | POLY | 2 | 86 |
| 12 | TIGHT_S | 0 | 19:14 | 8 | CENTER | POLY | 2 | OFF |
| 13 | NICE_S1 | · 0 | 23:17 | 8 | CENTER | POLY | 2 | 87 |
| 14 | FAT_S1 | 0 | 22:15 | 8 | CENTER | POLY | 2 | 38 |
| 15 | IMPCT_S | 0 | 23:16 | 8 | CENTER | POLY | 2 | 58 |
| 16 | SNAP_S1 | . 0 | 16:13 | 8 | CENTER | POLY | 2 | OFF |
| 17 | OUCH_S | 0 | 20:16 | 8 | CENTER | POLY | 2 | OFF |
| 18 | RVBS1 | 0 | 35:33 | 8 | CENTER | POLY | 2 | 40 |
| 19 | PICL_S1 | 0 | 19:16 | 8 | CENTER | POLY | 2 | OFF |
| 20 | RIMSHT1 | 0 | 16:13 | 8 | CENTER | POLY | 2 | OFF |
| 21 | RIMSHT2 | 0 | 21:17 | 8 | CENTER | POLY | 2 | OFF |
| 22 | SIDSTK1 | 0 | 10: | | CENTER | POLY | 2 | 37 |
| 23 | SIDSTK2 | 0 | 5: | | CENTER | POLY | 2 | OFF |
| 24 | DRY_T1 | 0 | 30:35 | 8 | RIGHT3 | POLY | 2 | OFF |
| 25 | DRY_T2 | 0 | 29:33 | 8 | RIGHT1 | POLY | 2 | 41 |
| 26 | DRY_T3 | 0 | 28:30 | 8 | LEFT 1 | POLY | 2 | 45 |
| 27 | DRY_T4 | 0 | 27:24 | 8 | LEFT 3 | POLY | 2 | 48 |
| 28 | ROOM_T1 | 0 | 34:33 | 8 | RIGHT3 | POLY | 2 | OFF |
| 29 | ROOM_T2 | · | 33:31 | × 8 × | RIGHT1 | POLY | 2 | 43 |
| 30 | ROOM_T3 | 0 | 32:29 | 8 | LEFT 1 | POLY | . 2 | 47 |
| 31 | ROOM_T4 | 0 | 31:27 | 8 | LEFT 3 | POLY | 2 | 50 |
| 32 | POWR_T1 | 0 | 34:27 | 8 | RIGHT3 | POLY | 2 | OFF |
| 33 | POWR_T2 | 0 | 33:25 | 8 | RIGHT1 | POLY | 2 | 89 |
| 34 | POWR_T3 | 0 | 32:23 | 8 | LEFT 1 | POLY | 2 | 91 |

| INST # | INSTRUMENT NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE # |
|--------|-----------------|-------|---------|----------|------------------|----------------|----------------|--------|
| 35 | POWR_T4 | 0 | 31:20 | 8 | LEFT 3 | POLY | 2 | 93 |
| 36 | DOOM_T1 | 0 | 50: | | RIGHT3 | POLY | 2 | OFF |
| 37 | CLSD_H1 | 0 | .12:12 | 8 | LEFT 1 | EXC1 | 2 | 42 |
| 38 | OPEN_H1 | 0 | 35:40 | 8 | LEFT 1 | EXC1 | 2 | 46 |
| 39 | PDAL_H1 | 0 | 15: | - | LEFT 1 | EXC1 | 2 | 44 |
| 40 | CRSH_C1 | 0 | 55: | <u> </u> | LEFT 2 | POLY | 2 | 49 |
| 41 | MLLT_C1 | 0 | 60:60 | 5 | LEFT 1 | POLY | 2 | OFF |
| 42 | RIDE_C1 | 0 | 50:50 | 8 | RIGHT2 | POLY | 2 | 51 |
| 43 | ROBL_C1 | 0 | 50:50 | 8 | RIGHT2 | POLY | 2 | OFF |
| 44 | BELLC1 | 0 | 50: | | RIGHT2 | POLY | 2 | 53 |
| 45 | 808CLAP | 0 | 23: | T | RIGHT1 | POLY | 2 | 39 |
| 46 | OPEN_D1 | 0 | 28:30 | 8 | RIGHT1 | POLY | 2 | OFF |
| 47 | TAIKO1 | 0 | 8:30 | 8 | CENTER | POLY | 2 | OFF |
| 48 | CLAVE1 | 0 | 9: | | CENTER | POLY | 2 | 75 |
| 49 | CABASA1 | 0 | 8: | | RIGHT2 | POLY | 2 | 69 |
| 50 | COWBEL1 | 0 | 16: | | LEFT 2 | POLY | 2 | 56 |
| 51 | TAMBRN1 | 0 | 21: | | LEFT 1 | POLY | 2 | 54 |
| 52 | SHAKER1 | 0 | 12: | T | LEFT 2 | POLY | 2 | OFF |
| 53 | MUTE_CG | 0 | 10: | | RIGHT1 | POLY | 2 | 62 |
| 54 | SLAP_CG | 0 | 20: | | RIGHT1 | POLY | 2 | OFF |
| 55 | LOW_CG | 0 | 29: | | CENTER | POLY | 2 | 64 |
| 56 | SLID_CG | 0 | 18:50 | 8 | CENTER | POLY | 2 | OFF |
| 57 | AGOGO1 | 0 | 20: | | RIGHT2 | POLY | 2 | 68 |
| 58 | OCT_AGG | 0 | 20:20 | 8 | LEFT 2 | POLY | 2 | OFF |
| 59 | WHISTL1 to | 0 | 7: | | LEFT 2 | EXC2 | 2 | 71 |
| 60 | WHISTL2 | 0 | 3: | | LEFT 2 | EXC2 | 2 | 72 |
| 61 | CAN1 | 0 | 20:30 | 8 | RIGHT3 | POLY | 2 | OFF |
| 62 | BACK_S1 | 0 | 0: 0 | 8 | LEFT 1 | POLY | 2 | OFF |
| 63 | BACK_T1 | 0 | 0: | | RIGHT1 | POLY | 2 | OFF |
| 64 | BACK_C1 | 0 | 0: | * | CENTER | POLY | 2 | OFF |
| 65 | SPARK1 | 0 | 70:70 | 8 | LEFT 2 | POLY | 2 | OFF |
| 66 | SURF | 0 | 127:127 | 8 | CENTER | POLY | 2 | OFF |
| 67 | WHEEL1 | 0 | 60:60 | 8 | RIGHT2 | POLY | 2 | OFF |
| 68 | REST | 0 | 0: | | CENTER | EXC8 | 2 | OFF |

| COPY INST # | SOURCE INST# | INSTRUMENT NAME | PITCH | DECAY | NUANCE | OUTPUT ASSIGN | ASSIGN TYPE | SENSE CURVE | NOTE# |
|----------------|-----------------|-----------------|--------|-------|--------|------------------|----------------|----------------|-------|
| 1 | 4 | DBLH_K3 | + 500 | 12:10 | 8 | CENTER | POLY | 2 | OFF |
| 2 | 20 | RIMSHT3 | + 500 | 21:14 | 8 | CENTER | POLY | 2 | OFF |
| 3 | 36 | DOOMT2 | + 500 | 50: | | RIGHT1 | POLY | 2 , | OFF |
| 4 | 36 | DOOMT3 | + 1100 | 50: | | LEFT 1 | POLY | 2 | OFF |
| 5 | 37 | CLSD_H2 | 0 | 10:12 | 15 | LEFT 1 | EXC1 | 2 | 90 |
| 6 | 37 | CLSD_H3 | 0 | 20:20 | 0 | LEFT 1 | EXC1 | 2 | OFF |
| 7 | 38 | OPEN_H2 | 0 | 20:20 | 0 | LEFT 1 | EXC1 | 2 | OFF |
| 8 | 38 | OPEN_H3 | 0 | 45:40 | 15 | LEFT 1 | EXC1 | 2 | OFF |
| 9 | 40 | CRSH_C2 | + 110 | 55: | | RIGHT2 | POLY | 2 | OFF |
| 10 · | 40 | CHOK_C1 | 0 | 14: | | LEFT 2 | POLY | 2 | 57 |
| 11 | 40 | SPLA_C1 | + 900 | 22: | | RIGHT1 | POLY | 2 | 55 |
| 12 | 40 | SPLA_C2 | + 1100 | 22: | | CENTER | POLY | 2 | OFF |
| 13 | 45 | DRYCLAP | - 200 | 12: | | RIGHT1 | POLY | 2 | OFF |
| 14 | 46 | OPEN_D2 | + 700 | 26:28 | 8 | RIGHT1 | POLY | 2 | OFF |
| 15 | 49 | CABASA2 | + 500 | 8: | | RIGHT3 | POLY | 2 | OFF |
| 16 | 50 | COWBEL2 | - 500 | 16: | | LEFT 3 | POLY | 2 | OFF |
| 17 | 55 | HIGH_CG | + 660 | 29: | | RIGHT1 | POLY | 2 | 63 |
| 18 | 57 | AGOGO2 | + 700 | 20: | | RIGHT3 | POLY | 2 | 67 |
| 19 | 38 | PLATE1 | 1200 | 50:10 | 15 | LEFT 3 | POLY | 2 | OFF |
| 20 | 57 | RING1 | + 1600 | 25: | | CENTER | POLY | 2 | OFF |
| 21 | 59 | PIPE1 | - 2200 | 10: | | RIGHT2 | POLY | 2 | OFF |
| 22 | 48 | WBLOCK1 | - 1500 | 9: | | LEFT 3 | POLY | 2 | 82 |
| 23 | 48 | WBLOCK2 | - 1200 | 9: | | LEFT 2 | POLY | 2 | OFF |
| 24 | 65 | THRILLR | - 3600 | 70:70 | 8 | RIGHT1 | POLY | 2 | OFF |
| 25 | 45 | GUNSHT1 | - 1950 | 60: | | CENTER | POLY | 2 | OFF |
| 26 | 52 | SHADOW | 3600 | 70: | | CENTER | POLY | 2 | OFF |

| INSTRUMENT NAME (INST#) | NOTE | 1 |
|----------------------------------|-----------|----------|
| OFF | 97 | - |
| OFF | 96 | 15 |
| OFE | 95 | 1 ~ |
| POWR T4 (I 35) | 94 93 | 1 |
| LOFE | 92 | - |
| POWR T3 (I 34) CLSD H2 (C 05) | 91 | |
| POWR T2 (1 33) | 89 | |
| WOOD S1 (F10) | 87 88 |] |
| OPEN ST (1 11) | 86 | |
| WOOD K1 (1 03) DBLH K2 (1 05) | 85 84 | , |
| OFF (108) | | 8 |
| WBLOCK1 (C 22) | 82 83 | |
| OFF OFF | 80 81 | |
| OFF | 79 | |
| <u>OFF</u> | <u>78</u> | 1 |
| OFF OFF | | |
| CLAVE1 ([48) | 75 76 | |
| OFF | 74 | |
| WHISTL2 (1 60) | 72 | යි |
| WHISTL1 (I 59) OFF | 71 | |
| CABASA1 (T49) | 70 | |
| AGOGO1 (157) | 68 | |
| | 66 67 | |
| OFF | 65 | |
| LOW CG (I 55) HIGH CG (C 17) | 64 | |
| MUTE CG (1 53) | 62 | |
| <u>OFF</u> | 61 60 | 2 |
| OFF | | • |
| | 58 59 | |
| F | 56 57 | |
| SPLA C1 (C 11) | 55 | |
| TAMBRN1 (I 51) BELL C1 (I 44) | 53 | |
| OFE | . 52 | |
| RIDE C1 (1-42) ROOM T4 (1-31) | 51 | |
| CRSH C1 (1 40) | 49 8 50 | m |
| DRY T4 (I 27) ROOM T3 (I 30) | 48 | ප |
| OPEN H1 (7 38) | 46 47 | |
| | 45 | |
| PDAL H1 ([39) ROOM T2 ([29) | 43 | |
| [CLSD H1 (F 37) | 42 | |
| DRY T2 (I 25) RVB S1 (I 18) | 41 | |
| [| 39 40 | |
| FAT S1 ([14) | 38 | |
| SIDSTK1 (1 22) ROOM K1 (1 07) | 37 36 | \aleph |
| DRY K1 (I 01) | 35 | |
| OFF | 34 | |
| · | | |

Roland Exclusive Messages

1. Data Format for Exclusive Messages

Roland's MIDI implementation uses the following data formal for all exclusive messages. (type IV);

| Byte | Description |
|--------|----------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model IQ |
| CMD | Command ID |
| [8004] | Main data |
| F7H | End of exclusive |
| | FOH 41H DEV MDL CMD (BODY) |

MIDI status - FOH, F7H

An exclusive message must be flanked by a pair of status codes, starting with a Manufacturer-1D immediately after FOH (MID) version (.0).

Manufacturer - ID: 41H

The Manufacturer-ID identifies the manufacturer of a MIDI instrument that triggeres an exclusive message. Value 41H represents Roland's Manufacturer-ID.

Device - ID: DEV

The Device-ID contains a unique value that identifies the individual device in the multiple implementation of MIDI instruments. It is usually set to 00H - 0FH, a value smaller by one than that of a basic channel, but value 00H - 1FH may be used for a device with multiple basic channels.

Model - ID: MDL

The Model-ID contains a value that uniquely identifies one model from another. Different models, however, may share an identical Model-ID if they handle similar data.

The Model-1D format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Model-1Ds, each representing a unique model:

01H 02H 03H 00H, 01H 00H, 02H 00H, 00H, 01H

Command - ID : CMD

The Command-ID indicates the function of an exclusive message. The Command-ID format may contain 00H in one or more places to provide an extended data field. The following are examples of valid Command-IDs, each representing a unique function:

0111 02H 03H 00H, 01H 00H, 02H 00H, 00H, 01H

Main data : BODY

This field contains a message to be exchanged across an interface. The exact data size and contents will vary with the Model-ID and Command-ID,

Address- mapped Data Transfer

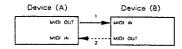
Address mapping is a technique for transferring messages conforming to the data format given in Section I. It assigns a series of memory—resident records——waveform and tone data, switch status, and parameters, for example——to specific locations in a machine—dependent address space, thereby allowing access to data residing at the address a message specifies.

Address-mapped data transfer is therefore independent of models and data categories. This technique allows use of two different transfer procedures: one-way transfer and handshake transfer.

One-way transfer procedure (See Section3 for details.)

This procedure is suited for the transfer of a small amount of data. It sends out an exclusive message completely independent of a receiving device status.

Connection Diagram

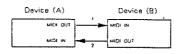


Connectional point2 is essential for "Request data" procedures. (See Section3.)

Handshake - transfer procedure (See Section4 for details.)

This procedure initiates a predetermined transfer sequence (handshaking) across the interface before data transfer takes place. Handshaking ensures that reliability and transfer speed are high enough to handle a large amount of data.

Connection Diagram



Connectional points1 and 2 is essential.

Notes on the above two procedures

- *There are separate Command~IDs for different transfer procedures,
- **DevicesA and B cannot exchange data unless they use the same transfer procedure, share identical Device—ID and Model ID, and are ready for communication.

3. One-way Transfer Procedure

This procedure sends out data all the way until it stops when the messages are so short that answerbacks need not be checked,

For long messages, however, the receiving device must acquire each message in time with the transfer sequence, which inserts intervals of at least 20milliseconds in between,

Types of Messages

| Message | Command iD |
|----------------|------------|
| Request data 1 | RQ1 (11H) |
| Data set 1 | OT1 (12H) |

Request data # 1 : RQ1 (11H)

This message is sent out when there is a need to acquire data from a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQ1 message, the remote device checks its memory for the data address and size that satisfy the request,

If it finds them and is ready for communication, the device will transmit a "Data set 1 (DT1)" message, which contains the requested data. Otherwise, the device will send out nothing.

| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 11H | Command ID |
| aaH | Address MSB |
| Has | Size MSB |
| sum | Check sum |
| F7H | End of exclusive |

- *The size of the requested data does not indicate the number of bytes that will make up a DT1 message, but represents the address fields where the requested data resides.
- *Some models are subject to limitations in data formul used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The same number of bytes comprises address and size data, which, however, vary with the Model-ID.
- *The error checking process uses a checksom that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

Data set 1: DT1 (12H)

This message corresponds to the actual data transfer process, Because every byte in the data is assigned a unique uddress, a DT's message can convey the starting address of one or more data as well as a series of data formatted in an address

The MIDI standards inhibit non-real time messages from interrupting an exclusive one. This fact is inconvenient for the devices that support a "soft-through" mechanism. To maintain compatibility with such devices, Roland has limited the DT1 to 256 bytes so that an excessively long message is sent out in

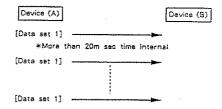
| Byte | Description |
|------------|--------------------------|
| FOH | Exclusive |
| aiH | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 12H | Command ID |
| a a H | Address MS8 |
| ddH sum | Data Check sum |
| F7H | End of exclusive |

- *A DTI message is capable of providing only the valid data among those specified by an RQ1 message.
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined
- address fields before it is exchanged across the interface.

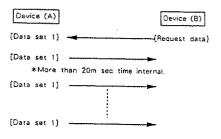
 *The number of bytes comprising address data varies from one Model-ID to another.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

Example of Message Transactions

Device A sending data to Device B
 Transfer of a DT1 message is all that takes place,



 Device B requesting data from Device A
 Device B sends an RQI message to Device A. Checking the message, Device A sends a DT1 message back to Device B.



4. Handshake - Transfer Procedure

Handshaking is an interactive process where two devices exchange error checking signals before a message transaction takes place, thereby increasing data reliability. Unlike one-way transfer that inserts a pause between message transactions, handshake transfer allows much speedier transactions because data transfer starts once the receiving device returns a ready signal.

When it comes to handling large amounts of data - - sampler waveforms and synthesizer tones over the entire range, for example - - across a MIDI interface, handshaking trunsfer is more efficient than one-way transfer,

Types of Messages

| Messaga | Command ID |
|---------------------|------------|
| Want to send data | WSD (40H) |
| Request data | RQD (41H) |
| Data set | DAT (42H) |
| Acknowledge | ACK (43H) |
| End of data | EOD (45H) |
| Communication error | ERR (4EH) |
| Rejection | RJC (4FH) |

Want to send data: WSD (40H)

This message is sent out when data must be sent to a device at the other end of the interface. It contains data for the address and size that specify designation and length, respectively, of the data to be sent.

On receiving a WSD message, the remote device checks its memory for the specified data address and size which will satisfy the request. If it finds them and is ready for communication, the device will return an "Acknowledge (ACK)" message. Otherwise, it will return a "Rejection (RJC)" message.

| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 40H | Command ID |
| aaH | Address MSB |
| ssH | Size MSB |
| sum | Check sum |
| F7H | End of exclusive |

- *The size of the data to be sent does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the data should reside. *Some models are subject to limitations in data format used
- for a single transaction, Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
 *The same number of bytes comprises address and size data,
- which, however, vary with the Model-ID.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

Request data: RQD (41H)

This message is sent not when there is a need to acquire data from a device at the other end of the interface, it contains data for the address and size that specify designation and length, respectively, of data required.

On receiving an RQD message, the remote device checks its memory for the data address and size which satisfy the request. If it finds them and is ready for communication, the device will transmit a "Data set (DAT)" message, which contains the requested data. Otherwise, it will return a "Rejection (RJC)" message.

| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 41H | Command ID |
| aaH | Address MSB |
| 55)H | Size MSB |
| ಕಲಗ | Check sum |
| F7H | End of explusive |

- *The size of the requested data does not indicate the number of bytes that make up a "Data set (DAT)" message, but represents the address fields where the requested data resides.
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The same number of bytes comprises address and size data, which, however, very with the Model-ID.

 *The error checking process uses a checksom that provides
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

Data set: DAT (42H)

This message corresponds to the actual data transfer process, Because every byte in the data is assigned a unique address, the message can convey the starting address of one or more data as well as a series of data formatted in an address—dependent order.

Although the MIDI standards inhibit non-real time messages from interrupting an exclusive one, some devices support a "soft-through" mechanism for such interrupts. To maintaincompatibility with such devices, Roland has limited the DAT to 256bytes so that an excessively long message is sent out in separate segments.

| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 42H | Command ID |
| аан | Address MSB |
| ddH | Data |
| sum | Check sum |
| F7H | End of exclusive |

- *A DAT message is capable of providing only the valid data among those specified by an RQD or WSD message.
- *Some models are subject to limitations in data format used for a single transaction. Requested data, for example, may have a limit in length or must be divided into predetermined address fields before it is exchanged across the interface.
- *The number of tytes comprising address data varies from one model ID to another.
- *The error checking process uses a checksum that provides a bit pattern where the least significant 7 bits are zero when values for an address, size, and that checksum are summed.

Acknowledge: ACK (43H)

This message is sent out when no error was detected on reception of a WSD, DAT, "End of data (EOD)", or some other message-and/a requested/setup-on-action-is-complete. Enless it receives an ACK message, the device at the other end will not proceed to the next operation.

| Byte | Description |
|------|----------------------------|
| FOH | Exclusive status |
| 41H | - Manufacturer (D (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 43H | Command ID |
| F7H | End of exclusive |

End of data; EOD (45H)

This message is sent out to inform a remote device of the end of a message. Communication, however, will not come to an end unless the remote device returns an ACK message even though an EOD message was transmitted.

| Byte | Description . |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device 1D |
| MDL | Model ID |
| 45H | Command ID |
| F7H | End of exclusive |

Communications error: ERR (4EH)

This message warns the remote device of a communications fault encountered during message transmission due, for example, to a thecksum error. An ERR message may be replaced with a "Rejection (RIC)" one, which terminates the current message transaction in midstream,

When it receives an ERR message, the sending device may either attempt to send out the last message a second time or terminate communication by sending out an RJC message.

| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 418 | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Model ID |
| 4EH | Command ID |
| F7H | End of exclusive |

Rejection: RJC (4FH)

This message is sent out when there is a need to terminate communication by overriding the current message. An RJC message will be triggered when:

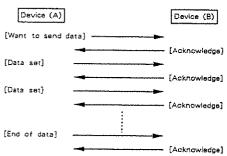
- a WSD or RQD message has specified an illegal data address or size,
- · the device is not ready for communication.
- an illegal number of addresses or data has been detected.
- · data transfer has been terminated by an operator.
- · a communications error has occurred.

An ERR message may be sent out by a device on either side of the interface. Communication must be terminated immediately when either side triggers an ERR message,

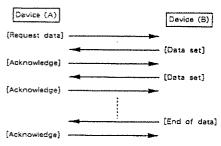
| Byte | Description |
|------|--------------------------|
| FOH | Exclusive status |
| 41H | Manufacturer ID (Roland) |
| DEV | Device ID |
| MDL | Madel ID |
| 4FH | Command ID |
| F7H | End of exclusive |
| | <u> </u> |

Example of Message Transactions

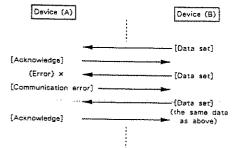
Data transfer from device (A) to device (B).



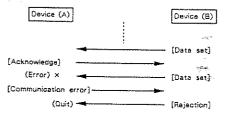
Device (A) requests and receives data from device (B).



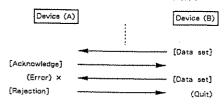
- Error occurs while device (A) is receiving data from device (B).
 - 1) Data transfer from device (A) to device (B).



2) Device (B) rejects the data re-transmittled, and quits data transfer.



3) Device (A) Immediately quits data transfer.



Model R - 8

MIDI Implementation

Date: Sep. 30 1988

Version: 1.00

1. TRANSMITTED DATA

Channel Voice Message

Note off

Status Second

kk = Note number 0H - 7FH (0 - 127) n = MIDI Channel 0H - FH (1 - 16)

A Note on

Status Second Third vvH kk = Note number OH - 7FH (0 - 127) vv = Velocity 01H - 7FH (1 - 127) n = MIDI Channel 0H - FH (1 - 16)

Note number (0 - 127 or OFF), and transmitting channel (1-16) can be set for each instrument. An instrument whose note number is set at OFF cannot send any Note

The period between a Note On and the subsequent Note Off is in the range of 25ms and 50ms. If, however, another note is made on the same instrument before the Note Off for the previous note is issued, a Note Off for the previous note precedes the new

The R+8 does not transmit a note event if the Function switch is set at CHANNEL MESSAGE = OFF.

Control change

O Modulation Depth

| Status | Second | Third | 34, |
|--------|--------|-----------|-----|
| BaH | OIH | VVH (MSB) | |
| BnH | 21H | vvH (LSB) | |

○ General purpose Controller - 1

| Status | Second | Third | |
|--------|--------|-----------|---|
| BnH | 10H | vvH (MSB |) |
| BnH | 30H | vvH (LSB) |) |

General purpose Controller - 2

| Status | Second | Third |
|--------|--------|-----------|
| BnH | 11H | vvH (MSB) |
| RoH | 91 H | vvH (LSB) |

○ General purpose Controller - 3

| Status | Second | Third |
|--------|--------|-----------|
| BnH | 12H | vvH (MSB) |
| BnH | 32H | vvH (LSB) |

O General nurnose Controller - 4

| Status | Second | Third | |
|--------|--------|-----------|---|
| BnH | 13H | vvH (MSB) | , |
| BnH | 33H | vvH (LSB) | |

O General purpose Controller - 5

| Status | Second | Third |
|--------|--------|-------|
| BnH | 50H | vvH |

○ General purpose Controller - 8

| <u>Status</u> | Second . | Third |
|---------------|----------|-------|
| BnH | 51H | vvH |

O General purpose Controller - 7

| Status | Second | Third |
|--------|----------|-------|
| | 0.000170 | |
| BnH | 5214 | ννΗ |

O General purpose Controller - 8

Second

Status

| BnH | 53H | vvH | | |
|----------------|-----|-----|-------------|------|
| vv = Performan | | | I (0 - 127) | *1-1 |

Third

Instruments and Performance parameters can be assigned to each of 9 controls (Modulation Depth and General purpose controllers (1-8)). These 9 controls | may be set to have no Performance parameter.

If an instrument has an assigned control number, it is sent with the current performance parameter value which is sent through the Control Change just before the Note event is sent.

Table * I - I relates Performance Parameter values to those actually transmitted by a Control Change. Since a Performance Pitch value requires 2 bytes for being transmitted, Control Number 21H, 30H, 31H,

32H or 33H is used as the lower byte. The Performance value of Decay,

Nuance or Pan can be expressed in 1 byte and does not need such Control Number. General purpose controllers, 5 - 8 have no Control Number usable as lower byte and are not used in transmitting Perfomance Pitch.

No Control Change is transmitted when the Function switch is set at CHANNEL MESSAGE = OFF.

+1-1 Control Change Value

| parameter | f transmitted | received |
|-----------|---|---|
| | - 4500 -> D400H | 0000H-0407H -> - 4800 |
| | - 4790 -> 0410H | 0408H-0417H -> - 4790 |
| | - 4780 -> G420H | 0418H-0427H -> - 4780 |
| | : | : |
| | - 0090 -> 3E70H | 3E68H-3E77H -> - 0090 |
| | - 0080 -> 3F00H | i 3E78H-3F07H -> - 8088 |
| | - 0070 -> 3F10H | 1 3F08H-3F17H -> - 0070 |
| | l . : | 1 ; |
| | - 0010 -> 3F70H | [3F68H-3F77H -> - 0010 |
| pi tch | 1 0000 -> 4000H | 3F78H-4007H -> 0000 |
| | + 0010 -> 4010H | 4008H-4017H -> + 0010 |
| | .: | : |
| | + 8070 -> 4070H | 4068H-4077H -> + 0070 |
| | 1 + 0080 -> 4100H | 1 4078H~4107H -> + 0080 |
| | + DOSD -> 4110H | 4108H-4117H -> + 0090 |
| | : + 4780 -> 7B50H | 1 7858H-7867H -> + 4780 |
| | + 4790 -> 7B70H | |
| | | 7B68H-7B77H -> + 4790 |
| | + 4800 -> 7C00H | 1 7B78H-7F7FH -> + 4800 |
| | 1 | E8 - <- B00 i |
| | - 63 -> OIH | 01H -> - 63 |
| | - 62 ~> 02H | 02H -> - 62 |
| | : | 1 : |
| | - 01 -> 3FH | 3FH -> - 01 |
| decay | 1 00 -> 40H | 40H -> 00 |
| | + 01> 41H | 418 -> + 01 |
| | i ± | 1 : |
| | + 52 -> 7EH | 7EH -> + 62 |
| | + 63 -> 7FH | 7FH -> + 63 |
| *** | - 7 -> DSH | 00H-0BH -> - 7 |
| | - 5 -> 1011 | OCH-13H -> - 8 |
| | | 1 14H-1BH -> - 5 |
| | | 1 148-158-7-5 |
| | · · · · · · · · · · · · · · · · · · · | 34H-3EH -> - 1 |
| Dusnes | . 0 -> 40% | |
| - nuance | + 1 -> 489 | 3CH-43H -> 0 44H-4BH -> + 1 |
| | : TI-2 487 | ! 447-450 */ + |
| | + 5 -> 589 | 64H-6BH -> + 5 |
| | + 6 -> 708 | 1 6CH-73H -> + 6 |
| | + 7 -> 78H | 74H-7FH -> + 7 |
| | | A |
| | | 00H-0FH -> 0 (L3) |
| | 0 (L3) -> 08H | 1 4011 41 11 7 (62) |
| | 0 (L3) -> 08H 1 (L2) -> 18H | 10H-1FH -> 1 (L2) |
| | | |
| pan | 1 (L2) -> 18H | 10H-1FH -> 1 (L2) |
| pan | 1 (L2) -> 18H 2 (L1) -> 28H | 10H-1FH -> 1 (L2) 1 20H-2FH -> 2 (L1) |
| pan | 1 (L2) -> 18H 2 (L1) -> 28H 3 (C) -> 38H | 10H-1FH -> 1 (L2) 1 20H-2FB -> 2 (L1) 1 30H-3FB -> 3 (C) |
| pan | 1 (L2) -> 18H 2 (L1) -> 28H 3 (C) -> 38H 4 (R1) -> 48H | 10H-1FH -> 1 (L2) 1 20H-2FH -> 2 (L1) 1 30H-3FH -> 3 (C) 1 40H-4FH -> 4 (R1) |

M System Exclusive message

Status

FOH : System Exclusive

F7H : EOX (End of Exclusive)

With the R-8; the System Exclusive Message can be used to transmit sound parameter of each instrument and Bulk Dump / Load of sequence data, set - up data and one pattern.

For details refer to para, 4, Exclusive Communications and "Roland Exclusive Messages".

System common message

Song position pointer

| <u>Status</u> | Second | <u>Third</u> |
|---------------|--------|--------------|
| F2H | 11H | hhH |

Transmitted in one of the following operations:

Song Play mode – measure reposition or measure selection Pattern Play or Real Time Write mode – bar reposition or bar selection

Song select

Status Second F3H ssH

ss = song select OH - 9H (0 - 9)

Transmitted when a Song is selected in Song Play mode.

M System Real Time measage

Timing Clock

_

Status

Transmitted when Sync mode is other than MIDI, even in non-play period.

Start

Status

Transmitted upon pressing START key for initiating play with Sync mode set at other than MIDL

Continue

Status FBH

Transmitted when CONTINUE START is made for initiating play with Sync mode set at other than MIDI.

• Stop

Status

FCH

Transmitted when STOP is made with Sync mode set at other than MIDL

Active Sensing

Status

FEH

Transmitted for checking MiDI connection between R-8 and external equipment.

2 RECOGNIZED RECEIVE DATA (INSTRUMENT SECTION)

III Channel Voice Message

■ Note off

 Status
 Second
 Third

 8nH
 kkH
 vVH

 9nH
 kkH
 00H

Mules the sounding notes upon receiving a Note Off message if the Function switch is set at NOTE OFF = ON.

■ Note on

 Status
 Second
 Third

 9nH
 kkH
 vvH

 kk = Note number
 0H - 7FH (0 - 127)

When the R-8 receives a Note On on the channel assigned to the instrument Section, it sounds the instrument assigned that Note Number.

In the case when one or more instrument has been set to the same Note Number, up to 12 instruments can sound simultaneously; if more than 12 instruments have the same Note Number, priority is given to larger Instrument Numbers.

The R-8 ignores note events if Function switch is set at CHANNEL MESSAGE = OFF.

Control change

O Panpot

 Status BnH
 Second OAH
 Third vvH

 vv = Panpot
 0H - 7FH (0 - 127)

n = MIDI Channel OH - FH

When the R-8 receives a PANPOT with the Function switch set at.PANPOT = ON: Every time the R-8 receives a Note On on the receiving channel-of the instrument Section, it sounds on the PANPOT position until the Panpot having different value is given.

(1 - 16)

*2-1

egy er

Refer to Table *2-1 for the relationship between Panpot values and positions of the instrument.

The R+8 does not recognize Panpot if the Function switch is set at CHANNEL MESSAGE \simeq OFF or PANPOT = OFF.

*2-1 Control Change Value (Panpot)

| f Par | ramete | r [| received | | |
|-------|--------|-----|--------------|------|---|
| 1 | | 1 | 00H-12H -> 0 | (L3) | • |
| 1 | | 1 | 138-248 -> 1 | (L2) | |
| i | | 1 | 25H-36H -> 2 | (L1) | |
| į | pan | 1 | 379-489 -> 3 | (C) | |
| Į. | | 1 | 49H-5AH -> 4 | (R1) | |
| ł | | 1 | 5BH-6CH -> 5 | (R2) | |
| 1 | | ł | 5DH-7FH -> 5 | (£3) | |

O Modulation Depth

| Status | Second | Third |
|--------|--------|-----------|
| BnH | 01H | vvH (MSB) |
| BnH | 21H | vvH (LSR) |

O General purpose Controller - 1

| Status | Second | Third | |
|--------|--------|-------|-------|
| BnH | 10H | VVH | (MSB) |
| BnH | 30H | vvH | (LSB) |

O General purpose Controller - 2

 Status
 Second
 Third

 BnH
 11H
 vvH
 (MSB)

 BnH
 31H
 vvH
 (LSB)

General purpose Controller - 3

| Status | Second | Third |
|--------|--------|-----------|
| BnH | 12H | vvH (MSB) |
| BnH | 32H | vvH (LSB) |

General purpose Controller - 4

| Status | Second | <u>Third</u> |
|--------|--------|--------------|
| BnH | 13H | vvH (MSB) |
| BnH | 33H | vvH (LSB) |

O General purpose Controller - 5

| Status | Second | Third |
|--------|--------|-------|
| BnH | 50H | vvH |

C Ganeral purpose Controller - 6

| Status | Second | Third |
|--------|--------|-------|
| BnH | 51H | vvH |

O General purpose Controller - 7

| Status | Second | Third |
|--------|--------|-------|
| BaH | 52H | vvH |

○ General purpose Controller - 8

| <u>Status</u> | <u>Second</u> | Third |
|---------------|---------------|-------|
| BnH | 53H | vvH |

```
vv = Performance parameter value OH - 7FH (0 - 127) *1 - 1 n = MID1 Channel OH - FH (1 - 16)
```

Instruments and Performance parameters can be assigned to each of 9 controls (Modulation Depth and General purpose controllers (1 - 8)). These 9 controls may be set to have no Performance parameter. (This assignment is in common with that of transmitter)

When the $R\cdot 8$ receives Modulation Depth or General purpose controllers (1-8) on the Receiving Channel of the Instrument Section, it memorizes the value with Control Number.

Upon receiving a Note On, and if an instrument has an assigned Control Number, the $R\cdot 8$ sounds the Performance Parameter which has been converted from the value memorized in the Control Change.

Refer to Table *1-1 for relationship between received Control Change values and Performance Parameters.

The R-8 does not recognize Control Change if the Function switch is set at CHANNEL MESSAGE = OFF.

Program change

| CnH | ppH |
|----------|------------|
| (Pattern | Play mode) |

smaller than the program number).

When the R-8 receives a Program Change on the Basic Channel (Instrument Section receiving channel) in Pattern Play mode with the Function switch set at PROGRAM CHANGE = ON, it changes the Pattern number to the new number (one number

(Song Play mode)

When the $R\cdot 8$ receives a Program Change on the Basic Channel (Instrument Section receiving channel) in Song Play mode with the Function switch set at PROGRAM CHANGE = ON, it changes the Feel Patch number to the new number (one number smaller than the program number).

Reception of 7FH (128) has an effect of no - Feel Patch.

The R-8 ignores Program Change when the Function switch is set at CHANNEL MESSAGE = OFF or PROGRAM CHANGE = OFF.

■ System Exclusive message

Status

FOH ; System Exclusive F7H : EOX (End of Exclusive)

With the R-8 the System Exclusive Message can be used to receive Sound Parameter of each instrument and Bulk Dump/Load of Sequence data,

Set - up data and one pattern.

For details refer to para 4. Exclusive Communications and "Roland Exclusive Message". The R-8 ignores Exclusive Message if the Function switch is set at EXCLSV RX \approx OFF.

System common message

Song position pointer

| <u>Status</u> F2H | | | <u>Ser</u> 11 | ond H | <u>lin</u> hhi | _ | | |
|----------------------|--|--|----------------------|----------|-------------------|------------|--|--|
| | | | position position | | | 7FH 7FH | | |

Recognized only when the R-8 is in stop with Sync at MIDI.

When the R-8 receives Song Position Pointer in Song Play mode it calls the position in the song and when in Pattern Play mode or Real Time Write mode, the position in the pattern.

Song select

Status Second F3H ssH

Recognized only when the R-8 is in stop with Sync at MIDL. When received in Song Play mode, it changes the songs.

System Real Time message

Timing Clock

Status

Recognized only when the Sync mode is set at MIDL

• Start

Status FAH

Recognized only when the Sync mode is set at MIDL

Continue

Status FBH

Recognized only when the Sync mode is set at MIDI.

• Stop

Status FCH

Recognized only when the Sync mode is set at MIDI.

3. RECOGNIZED RECEIVE DATA (PERFORMANCE SECTION 1 - 4)

III Channel Voice Message

Note off

 Status
 Second
 Third

 8nH
 kkH
 vvH

 9nH
 kkH
 00H

kk = Note number 0H - 7FH (0 - 127) vv = Velocity ignored n = MIDI Channel 0H - FH (1 - 16)

When the Function switch is set at NOTE OFF = ON, the received Note Off message mutes the sounds being reproduced.

Note on

Status Second Third
9nH kkH vvH

All sections can be assigned a channel (1-16) or OFF.

When the R-8 receives Note On on the MIDI receiving channel of a Performance Section, the instrument allocated to that section will sound.

The Performance parameter to be controlled by Note number can be selected from panel operation for each section. Received Note number

will be converted into the Performance Parameter before the instrument is reproduced.

When Instrument Section and Performance Section are set at the same receiving channel, priority is given to the Instrument Section. If more than one Performance Section is set at the same receiving channel, they are reproduced simultaneously.

The R-8 ignores Note event when the Function switch is set at CHANNEL MESSAGE = OFF.

Control change

O Panpot

<u>Status</u> <u>Second</u> <u>Third</u> BnH OAH vvH

When a Panpot is received with the Function switch set at PANPOT = ON, the subsequent Note On's on the same channel cause the instruments to sound on the same position. To change the position Panpot of different value must be issued on that channel. Refer to Fig. $\pm 2 - 1$ for Panpot values vs Positions.

Panpol is ignored if the Function switch is set at CHANNEL MESSAGE = OFF or PANPOT = OFF.

O Modulation Depth

 Status
 Second
 Third

 BnH
 01H
 vvH

O General purpose Controller - 1

 Status
 Second
 Third

 BnH
 10H
 vvH

O General purpose Controller - 2

 Status
 Second
 Third

 BnH
 11H
 vyH

O General purpose Controller - 3

 Status
 Second
 Third

 BnH
 12H
 yvH

○ General purpose Controller - 4

 Status
 Second
 Third

 BnH
 13H
 vvH

○ General purpose Controller - 5

 Status
 Second
 Third

 BnH
 50H
 vvH

O General purpose Controller - 6

 Status
 Second
 Third

 BnH
 51H
 vvH

O General purpose Controller - 7

 Status
 Second
 Third

 BnH
 52H
 vvH

○ General purpose Controlle - 8

 Status
 Second
 Third

 BnH
 53H
 vvH

vv = Performance parameter value 0H - 7FH (0 - 127) *1-1 n = MiDi Channel 0H - FH (1 - 16)

A control (Modulation Depth, or General purpose controllers (1 - 8)) and a Performance Parameter can be assigned to each section (No - Control - change - received can also be set).

The R-8, when it receives a Control on the receiving channel of a particular Performance Section, memorizes: the value for that section, and converts this memorized value to generate the Performance Parameter when it reproduces a sound upon receiving a Note On.

Refer to Table $\pm 1-1$ for relationship between received control change values and performance parameters.

The R-5 does not recognize Control Change if the function switch is set at CHANNEL MESSAGE = OFF.

4. EXCLUSIVE COMMUNICATIONS

With the R-8, Exclusive One Way Messages can be used for transferring of sound parameters and bulk dumping/loading of the internal memory.

In Exclusive message, the model ID is expressed by 28H and device ID by the basic channel number. In actual data, the value of device ID is smaller the basic channel number by 1.

M ONE - WAY COMMUNICATIONS

Request Data

| byte | Description | |
|--|--|--------------|
| FOH | Exclusive status | |
| 41H | Manufactures ID (Roland) | |
| DEV | Device ID | |
| 28H | Model ID (R-8) | |
| 11 H | Command ID (RQ1) | |
| aaH | Address MSB | |
| aaH | Address | |
| aaH | Address | |
| aaH | Address LSB | |
| Haz | Size MSB | |
| ssH | Size | |
| ssH | Size | |
| ssii | Size 1.5B | |
| sum | Check sum | |
| F7H | EOX (End of exclusive) | |
| | | |
| Data set | DT1 12H | |
| Data set | DT1 12H Description | |
| | | |
| byte | Description | · |
| byte F0H | Description Exclusive status | |
| byte FOH 41H | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) | |
| byte FOH 41H DEV | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) | A.> |
| byte FOH 41H DEV 28H | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) | \$ \$ |
| Dyte FOH 41H DEV 28H 12H | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) | \$ |
| byte FOH 41H DEV 28H 12H aaH aaH | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) Address MSB Address Address | <u>\$.</u> 2 |
| byte FOH 41H DEV 28H 12H aaH aaH aaH | Description Exclusive status Menufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) Address MSB Address | A.N. |
| byte FOH 41H DEV 28H 12H aaH aaH aaH aaH ddH | Description Exclusive status Manufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) Address MSB Address Address | <u> </u> |
| byte FOH 41H DEV 28H 12H aaH aaH aaH | Description Exclusive status Menufactures ID (Roland) Device ID Model ID (R-8) Command ID (DT1) Address MSB Address Address Address Address LSB Data : | 6.2 |
| byte FOH 41H DEV 28H 12H aaH aaH aaH aaH ddH | Description Exclusive status Manufactures ID (Roland) Device ID (R-8) Command ID (DT1) Address MSB Address Address Address LSB Data | 6.2 |

RQ1 11H

The R-8 sends parameter (s) by using one way communications in either of the following cases.

1. One Way Bulk Dump is selected and executed from MIDI Bulk Dump operation. (A group of designated parameters are sent.)

2. ENTER key is pressed during Sound Edit. (The sound parameters of the sound being edited are sent.)

The $R\cdot 8$ receives parameter (s) by using one way communications in either of the following cases.

The R-8's sequencer is stopped and EXCLSV RX of MIDI FUNCTION SW is ON.

Also note that Song data and Pattern data can be received on All songs, All patterns or one pattern basis while the remaining parameters can be received in a unit of mapped one byte.

5. PARAMETER ADDRESS MAP

Addresses are shown in 7 - bit hexadecimal

| Address | 1 | MSB | 1 | | 1 | | • | LSB | • |
|-----------|---|-----|---|-----------|---|----|---|-----|---|
| Binary | | | | 0566 pppp | | | | | |
| 7-bit hex | 1 | A٨ | 1 | BB | ì | 23 | į | DD | ş |

E Parameter base address

| Start address | Description | |
|--------------------|---------------------------------|---------------|
| 00 00 00 00 | Sound Parameter #1 | 45-1 |
| 00 00 00 00 0A | | 45-1 |
| : 1 | | |
| 00 00 09 25 | Sound Parameter #120 | |
| | | |
| 00 01 00 00 | Copy Sound Area | *5~2 |
| 00 02 00 00 | | *5~3 |
| 00 03 00 00 | | *5-4 |
| 00 03 00 08 | Performance Parameter #A-2 | |
| ; | : | |
| 00 03 00 78 | | |
| 00 03 01 00 | | |
| : | : | |
| 00 03 01 78 | | |
| 00 03 02 00 | Performance Parameter #C-1 : | |
| 00 03 02 78 | | |
| 00 03 02 00 | | |
| : | : | |
| 00 03 03 78 | Performance Parameter #D-16 | |
| 00 03 04 00 | Performance Parameter #E-1 | |
| : | : | |
| 00 03 04 78 | | |
| 00 03 05 00 | | |
| : : | \$ | |
| 00 03 05 78 | Performance Parameter #M-16 | |
| 00 04 00 00 | Feel Patch #0 | * \$-5 |
| 00 04 00 5C | Feel Patch #1 | |
| : ! | | |
| 00 04 05 04 | Feel Patch #7 | |
| | Assign Area | + 5-6 |
| 00 06 00 00 | Output Level | * 5-7 |
| 00 07 08 00 | WIDI Parameter Area | *5-8 |
| 00 00 80 00 | System data Area | * 5-9 |
| 01 00 00 00 | Song data Area | #5-10 |
| 02 00 00 00 | PTN 00 data Area | * 5-11 |
| 02 02 00 00 | | -4 11 |
| ; | : | |
| 03 45 00 00 | • | |

≠5-1 Sound Paraseter

| Offse | | 1 | | | | | |
|-------|-------|-----|------|------|-------|---------------------|----------------------|
| add | ress | - 1 | | De | SC | ription | |
| | 00 00 | -+ | 0000 | 2022 | I | Pitch data bit3-0 | G - 48D |
| | 00:01 | | | bbbb | i | : bit7-4 | 2 · 400 |
| | 00 02 | | | | i | | |
| | | | 0000 | | • | sign Pitch | 0 - 1 (0=p)us |
| | | *** | | | ŧ | | leminus) |
| | 00 04 | - 1 | 0aaa | aaaa | ŀ | Decay for Partial-1 | |
| | 00 00 | 1 | Osaa | aaaa | ŀ | Decay for Partial-2 | |
| | 00 08 | ŀ | 8000 | aaaa | 1 | Nuance | 0 ~ 15 |
| | 00 07 | ŀ | 0000 | aaaa | ł | Output | 0 - 14 |
| | | 1 | | | ł | | (LEFT3-1, CENTER, |
| | | í | | | 1 | | RIGHT1-3, MULTI1-8) |
| | 00 08 | 5 | 0000 | asas | į | Assign Type | 0 - 9 |
| | | ŧ | | | i | | (EXC1-8, MONO, POLY) |
| | 00 09 | - 1 | 0000 | 0aaa | F | Curve | 0 - 7 |
| | | ł | | | ŀ | | (1 - 8) |
| | | | | | -+- | | |
| | Tot | a l | size | | 1 | 00 00 00 0A | |

≠5-2 Copy Sound Area

| Į | | |
|-------|--|--|
| - | De | scription |
| 00 1 | Daga agaa | Source Inst no. #1 8 - 119 |
| 01 1 | Caas aaaa | Source inst no. #2 0 - 119 |
| : 1 | : | 1 : |
| }9 | 0888 8888 | ì Source in≤t no. #25 0 - 119 |
| 1A. I | | Copy Sound Name #1 +5-2-1 |
| 21] | | Copy Sound Name #2 |
| : 1 | | ! : |
| 49 [| | ! Copy Sound Name #26 |
| | 00 1 01 1 : [19 1A. [21] | 00 Daga asaa 01 Cass asaa : : 19 Osas saas 1A. ' 21 : |

*5-2-1 Copy Sound Name

| fset address | | Ì | De | escr!ption |
|---------------------|---------|---|----------------|----------------------------------|
| 00 | 00 : | | Свая азва : | Copy Sound Name char. 1 32 - 127 |
| 00 | 06 | 1 | Caaa aaaa | Copy Sound Name char. 7 32 - 127 |
| | ot | i | size | 1 00 00 00 07 |

≉5-3 ROM Card data Area

| Offset address | | | De | 3 ¢ | ripti | on | | | |
|-------------------|-----|----|-----------|------------|-------|------|------|---|--|
| 00 | 00 | | Case sass | 1 | ROM | Card | data | 0 - 127 | |
| 14 | 31 | | Оваа адва | i | ROM | Card | data | 0 - 127 | |
| 1 | ota | 11 | size | 1 | 00 0 | 0 14 | 32 | *************************************** | |

The data in this area will be read in when LOAD ROM is executed in Card mode.

*5-4 Performance Parameter

| į |)ffset | | | ł | | | | | | | | | |
|------------|---------|---|-----|---|--------|------|---------|---------|-------|-----|----|-----------------------|-----|
| | address | : | | ł | | De | sc | ription | | | | | i |
| • • • } | 00 | | 00 | + | nana | 0000 | ** i | Pitch | | | | | 1 |
| | - 00 | | | | | | 1 | rittii. | ua ta | bit | | 0 - 480 | 1 |
| | 80 | i | 02 | 1 | 0000 | | | | | bit | - | | 1 |
| | 00 | • | 03 | į | 0000 | 8008 | 1 | sign P | itch | | | 0 - 1 (0=pius | 1 |
| | | | | ı | | | 1 | | | | | 1=pinus) | i |
| | 00 | ١ | 04 | 1 | 0aaa | 8888 | ł | Decay | | | | -53 - +63 • | i |
| | 00 | į | 05 | ŧ | 0000 | aaaa | 1 | Nuance | | | | -7 - +7 * | i |
| | . 00 | | 06 | ı | -0000 | Оана | 1 | .Pan | | | | 0 - 1 | i |
| | | | | 1 | | | į | | | | | (LEFT3, 2, 1, CENTER, | . 1 |
| | | | | i | | | ŀ | | | | | RIGHT1, 2, 3, OFF) | ı |
| | 0.0 | | 07 | į | 0xxx | XXXX | t | dusmy | (igno | red | if | rece (ved) | 4 |
| | | _ | | | | | -+- | | | | · | | [|
| | | Ţ | ota | ì | 5 i 2e | | 1 | 00 00 (| 00 08 | | | | - 1 |

* 2's-complement

| 5. | Feel Patch I | arameter | |
|---------|-------------------|--|------------------------------------|
| 1 | Offset address | Description | |
| 1 | | 0asa aaaa inst no. #1 | 0 - 119 |
| | 90 07 | : : : Caaa aasa inst no. #8 | 0 - 119 |
| 1 | 00 08 | wood 1100 BH WI | |
| 1 | | | 7 - 1 (OFF, ON) 7 - 1 (OFF, ON) |
| - | | l c:Pitch | 0 - 1 (OFF, ON) 0 - 1 (OFF, ON) |
| [| : 00 OF | 1:1: | 1 - 1 (OFF, UB) |
| į | ** ** | l a: Velocity |) - 1 (OFF, ON) |
| 1 | | | - 1 (OFF, ON) |
| 1 | | , i d'ilitali |) - 1 (OFF,ON)) - 1 (OFF,ON) |
| } | 00 10 | | |
| ŀ | | la: Velocity (| - 1 (OFF, ON) |
| ļ | | | - 1 (OFF, ON) - 1 (OFF, ON) |
| [- | | to the second se | - 1 (OFF, ON) |
| | 00 11 00 12 | | ocity 1 - 8 |
| l | 00 12 | The state of the s | ay 1∼8 chirt≟a r |
| [- | 00 14 1 | 0000 asaa Random Probability for Nua | nce 1 - 8 |
| | 00 15 | 0000 Daza Random Depth for Velocity | 1 - 4 |
| í | 00 17 1 | | 1 - 4 |
| - | 00 18 | 0000 Osaa Random Depth for Numnce | i - 4 |
| | 00 19 | | ****************************** |
| | i | | - 1 (OFF,ON) - 1 (OFF,ON) |
| | 1 | i c : Pitch p | - 1 (OFF, ON) |
| _ | ; ; | d : Nuance 0 | · 1 (OFF.ON) |
| | 1 A1 00 | 0000 sasa Groove Type 1 | . 8 |
| | OC 18 1 | 0000 0aaa Groove Step 1 | • |
| | 1 | | l, 1/6, 1/8, 2,1/16,1/24, |
| _ | ا • | 1/3 | |
| | 00 IC I | Groove Velocity offset #1 | +5-5-1 |
| | : i 00 2A i | : Groove Velocity offset #8 | |
| | 00 2C i | Groove Decay offset #1 | +5-5-1 |
| | : 1 1 AE 00 | : Groove Decay offset #8 | |
| ~- | 00 3C J | | *5~5~1 |
| | : † | I : | |
| | 00 4A | Groove Pitch offset #8 | 1 |

| 1 | 00 | 4C [| ŀ | Groove | Kuance | offset | #1 | ¢5-5-1 | į |
|---|----|------|------|---------|--------|--------|----|--------|---|
| | | : 1 | 1 | : | | | | | Í |
| | 00 | 5A I | 1 | Groove | Nuance | offset | #8 | | ŧ |
| | | | + | | | | | | ŧ |
| 1 | 1 | otal | size | 00 00 (| 30 SC | | | | ١ |
| | | | | | | | | | |

#5-5-1 Groove offset

| 00 0asa aasa absolute value | | Offse add | el tess | : | | De | sc | ription | | | | |
|---------------------------------|-------------------|--------------|------------|---|------|------|-------|----------------|----|-------|--------------|-------|
| | (0=plus, 1=minus) | | 00 | 1 | 0aaa | aaaa | ! | absolute value | 0 | - ; | 39 | ! |
| formula tentana | | | 01 | ! | 0000 | 000a | ı | sign bit | 0 | | 1 | 1 |
| (0"Ptus, 1"Ethus | | | | ì | | | ŀ | | (0 | ap lo | ıs, l≖mainus |) [|

*5-5 Assign Parameter

| Offset | | |
|---------|---------------------------------------|---------|
| address | Description | |
| 00 00 | Oasa assa inst# (Pad A-1) | 0 - 119 |
| : | 1 : 1 : | |
| 00 OF | Case seas Inst# (Pad A-15) | 0 - 119 |
| 00 10 | Oasa aasa Inst# (Pad B-1) | 0 - 119 |
| : | 1 : 1 : | |
| 00:1F | ! Oaaa asaa ! inst# (pad B-15) | 0 - 119 |
| 00 20 | 0eaa aasa Inst# (Pad C-1) | 0 - 119 |
| : | t : † : | |
| 00 2F | 0aaa aaaa inst# (Pad C-16) | 0 - 119 |
| 00 30 | Gaaa aana Inst# (Pad D-I) | 0 - 119 |
| - | : 1 : | |
| 00 3F | Casa sasa Inst# (Pad D-15) | 0 - 119 |
| 00 40 | Ogaa asaa Inst# (Pad E-1) | 0 - 119 |
| ; | 1 : 1 : | |
| 00 4F | Oama amma Inst# (Pad E-15) | 0 - 119 |
| 00 50 | Daza aaza Inst# (Display assign #2) | 0 - 119 |
| 00 51 | daza agaz inst# (Display assign #3) | 0 - 119 |
| 00 52 | Oasa asaa inst# (Display assign #4) | 0 - 119 |
| 00 53 | Qaaq aass inst# (Multi) | 0 - 119 |
| Tata | l size 00 00 00 54 | |

#5-7 Output Level

| ā | daress | | 1 | De | escription |
|---|--------|-----|----|-----------|------------------------|
| | 00 | 00 | 1 | 0000 aaaa | Output Level #1 0 ~ 15 |
| | 00 | 01 | ì | 0000 aaaa | Output Level #2 |
| | | : | Ī | : | 1 : |
| | 80 | 77 | ļ | 0000 aaaa | Output Level #120 |
| | | Tet | a! | size | 00 00 00 78 |

+5-8 MIDI Parameter Area

| address i | De: | scription | |
|-----------|------------|-------------------------------------|----------|
| 00 00 | 0000 aaaa | i Tx Channel #1 0 | - 15 |
| 1 | l | 1 (1 | - 16 |
| : 1 | : | : | |
| 00 77 | 0000 assas | 1 Tx Channel #120 0 | - 15 |
| | l | 1 (1 | - 18 |
| 00 78 | 000a aaaa | Rx Channel (Perform Section #1) 0 | - 18 |
| 1 | i | 1 41 | lê, of F |
| 00 79 | 000a aasa | 1 Rx Channel (Perform Section #2) 0 | - 18 |
| 1 | i | | 16, OFF |
| 00 7A 1 | 000a aasa | i Rx Channel (Perform Section #3) 0 | |
| | İ | | 16, OF |
| 00 7B | 000a asaa | 1 Rx Channel (Perform Section #4) 0 | |
| **** | | į (Į- | 16. OF |
| 00 70 | l | Note no. assign #1 +5-8- | 1 |
| 00 7E | l | Note no. assign #2 #5-8- | 1 |
| ; | | 1 ; | |
| 02 6A | | i Note no. assign #120 +5-8- | 1 |
| 02 6C | 0000 dcba | Function sw. | |
| 1 | | a: CH MESSAGE 0 - 1 (0 | FF. ON) |
| 1 | | b : NOTE OFF 0 - 1 (0 | FF, ON) |
| 1 | | c : PANPOT 0 - 1 (0 | FF. CN) |
| | | d : PGH CHANGE 0 - 1 (0 | FF, ON) |
| 02 SD | | Control Change Parameter +5-8- | 2 |
| 02 7F (| | Performance Section #1 +5-8- | 3 |
| 03 05 1 | | Performance Section #2 #5-8- | |
| : 1 | | : | |
| 03 11 ! | | Performance Section #4 +5-8- | 3 |
| Total | size | 00 00 03 17 | |

*5-8-1 Note# assign

| | | • | | De | SC. | ription | | | | |
|---------|----|---|------|------|-----|---------|------|---------------------|-------|-----|
| | 00 | i | 0aaa | 8888 | | note n | o. | ******************* | | 127 |
| | 01 | j | 0000 | 600a | 1 | OM/OFF | flag | | g + | t |
| | | ŀ | | | 1 | | | | (OFF, | OH) |

#5-8-2 Control Change Parameter

| Offset | 1 | | | | |
|---------|---------|------------|---------|-----------------------|-------------------|
| address | ı | De | | ription | |
| | -+- | | | Modulation | ******* |
| 00 | i | Озал заза | - 1 | Control Inst# | 0 - 119 |
| | • | | | Control Parameter | 0 - 4 |
| •• | | 41114 | , | | (Pitch, Decay, |
| | į | | , | | Nuance, Pan. Off) |
| | ì | | 1 | General purpose Contr | |
| 02 | i | Daaa aaaa | 1 | | 0 - 119 |
| 03 | • | | ٠, | Control Parameter | |
| • | į | 1000 | | General purpose Contr | - • |
| 6.4 | 1 | flage appa | | Control inst# | 0 - 119 |
| 05 | • | | ٠, | Control Parameter | 0 - 4 |
| | i | ***** | 1 | courte: Latamerer | V - 4 |
| • | i | • | ì | General purpose Cont | raliar 4 |
| 1.5 | ï | Nega apaa | , | Control Inst# | 0 - 119 |
| | | | | Control Parameter | 0 - 119 |
| 11 | ' | 0000 000d | ا د- | CONCION PRIMRETER | |
| Tot | ×1 | size | -7 | 00 00 00 12 | |

5

*5-8-3 Performance Section

| Offset | | 1 | | | | | | ļ |
|---------|-------|----|------|------|----|-----------------------------|-----------------|-----|
| address | | 1 | | De | SC | ription | | 1 |
| | ~ ~ ~ | +- | | | | | | -1 |
| | 00 | 1 | 0aaa | aasa | Į | Control inst# | 0 - 119 | 1 |
| | 01 | 1 | 0000 | 00aa | ı | Parameter (Note# Controlled | t) 0 - 3 | ١ |
| | | ļ | | | 1 | | (Pitch, Decay, | . 1 |
| | | į | | | 1 | | Nuance, Pan) | ì |
| | 02 | ı | Qaaa | aasa | 1 | Center note no. | 0 - 127 | į |
| | 03 | I | 0aaa | 8888 | 1 | Keyboard follow | 0 - 99 | ţ |
| | 04 | ŀ | 0000 | asss | F | Control change no. | 0 - 9 | ì |
| | | l | | | 1 | | (Modulation, | - |
| | | ł | | | ‡ | (| Controller I-8, | .] |
| | | ļ | | | ŧ | | OFF) | 1 |
| | 05 | I | 0000 | 00aa | ł | Parameter (Control change) | 1 - 3 | 4 |
| | | I | | | 1 | | (Decay, | |
| | | ļ | | | 1 | | Nuance, Pan) | ŧ |
| | | | | | -+ | | | - [|
| | Tati | ı | size | | ŀ | 00 00 00 05 | | 1 |

≠5-9 System data Area

| Offset address | | 1 | Des | eription | |
|-------------------|---------------|---------------|------|--|--|
| 00 | 00 | 0000 | 00aa | Sync mode - | 0 - 2 (INTERNAL, MIDI, TAPE) |
| 00 | 01 | 0000 | 2222 | ROLL Resolution | 1 ~ 9 (1/4, 1/6, 1/8, 1/12, 1/16, 1/24, 1/32, 1/48, High) |
| 00 | 02 | 1 | | Metronome set | *5-9-1 |
| 00 | 06 15 : | 1 | | User function #0 User function #1 : : User function #9 | \$5~9~2 |
| 01 | 26 4D : | 1 | | Macro #0 #1: macro #1 : Et crosm | * 5−9−3 |
| | Tota | l size | | 00 00 04 2C | ~~~ |

≉5-9-1 Metronome Set

| Offset addre | 225 | 1 | | De | sc | ription | |
|-----------------|------|---|------|------|----|-------------|---------------------|
| | 00 | 1 | 0000 | Osaa | | Interval | : 1 - 7 |
| | | ŀ | | | 1 | | (1/4, 1/8, 1/8, |
| | | ١ | | | ١ | | 1/12, 1/16, 1/24, |
| | | ŧ | | | ì | | 1/32) |
| | 01 | ł | 0000 | 00aa | ŧ | Mode | 0 - 2 |
| | | 1 | | | ł | | (OFF, EMPTY, EVERY) |
| | 02 | ţ | 0000 | aaaa | 1 | Level | 0 - 15 |
| | 03 | ŧ | 0000 | aaaa | 1 | Output | 0 - 14 |
| | | ŧ | | | ì | | (LEFT3-1, CENTER, |
| | | 1 | | | i | | RIGHT1-3, MULT[1-8) |
| | | | | | -+ | | |
| | Tota | i | size | | 1 | 0D 00 00 04 | |

≠5~9~2 User function

| Offset address | | 1 | De | sc | riptio | en | | | |
|-------------------|----|---|-----------|----|--------|-------|-----|--------|--|
| | 00 | 1 | Casa sasa | 1 | key# | | | 0 - 52 | |
| | 01 | 1 | Oasa saaa | 1 | key# | (LINE | 02) | 0 - 52 | |
| | : | ł | : | l | | ; | | | |
| | 0F | 1 | Gasa asas | 1 | key# | (LINE | 16) | 0 - 52 | |

•5-9-3 Macro

| address |) Des | cription | |
|---------|-----------|-----------------------------|-----------|
| 00 | 000a aaaa | Macro note Length | 2 - 16 |
| 01 | 0000 deba | Normal timing (step1-4) | |
| | 1 | l a: step1 ON/OFF flag | 0 - 1 |
| | į. | I | (OFF, ON) |
| | Į. |) b: step2 ON/OFF flag | 0 - 1 |
| | ‡ | ‡ | (OFF, ON) |
| | 1 ' | c: step3 ON/OFF flag | ~0 - 1 |
| | 1 | ‡ | (OFF, ON) |
| | 1 | d; step4 ON/OFF flag | 0 - 1 |
| | | 1 | (OFF, ON) |
| 02 | | Normal timing (step5-8) | |
| 03 | | Normal timing (step9-12) | |
| 04 | 0000 dcba | Hormal timing (step13-16) | |
| . 05 | 0000 deba | Flam timing (stepi-4) | |
| | 1 | a: stepi ON/OFF flag | 0 - 1 |
| | I | 1 | (OFF, ON) |
| | l | b: stepZ OM/OFF flag | 0 - 1 |
| | l | Į. | (OPF, ON) |
| | l | c: step3 ON/OFF flag | 0 - 1 |
| | | 1 - | (OFF, ON) |
| | ļ | d: step4 ON/OFF flag | 0 - 1 |
| | | k | (OFF, ON) |
| -06 | | Flam timing (step5-8) | |
| 07 | | Flam timing (step9-12) | |
| 08 | OUUU BCBA | Flam timing (step13-15) | |
| i | | Relative velocity (step 2) | |
| 09 i | | l absolute value | 0 - 99 |
| OA | | sign bit | 0 - 1 |
| | | Relative velocity (step 3) | |
| 08 | | absolute value | 0 - 99 |
| OC 1 | | sign bit | 0 - 1 |
| : 1 | : | ! ; | |
| | | Relative velocity (step 15) | |
| 25 | | absolute value | 0 - 99 |
| 25 8 | 0000 000a | sign bit | 0 - 1 |

#5-10 Song data Area

Data included in the area are: Song data, Song name, Song chain and Initial parameters of Songs O to 9.

When the data in this area are transmitted from Bulk Dump operation, the size of the data depends upon that of Song data.

If you want to send Data Request to the R-8 in this area, set the address to 01 00 00 00 , and the size to 01 00 00 00.

The R - B ignores Data Requests designating different address or size. No data in this area can be transferred in units of one byte.

*5-11 Pattern data Area

Data included in the area are: Rhythm data, Time signature, Number of measures, Flam interval, Fiam ratio, Shuffle point, Shuffle delay, Feel patch number in each pattern, and Pattern names.

When the data in this area are transmitted from Bulk Dump operation.

the size of the data depends upon the number of notes.

If you want to send Data Request to the R-8 in this area, set the address and the size as follows.

one pattern address = the address of the pattern

size = 00 02 00 00

all pattern ----- address = 02 00 00 00 size = 01 48 00 00

The R-8 ignores Data Requests designating different address or size.

No data in the area can be received in unit of one byte.

| Address | Block | | Sub block | |
|-------------|-----------------|---|---------------|--------------------------|
| 00 00 00 00 | | | | |
| | Sound Param. | | inst #1 | 1 5-1 1 |
| | | | inst #2 | ! |
| | į į | | : | |
| | † † | • | inst #119 | |
| | | | inst #120 | |
| 00 61 00 68 | 1 | | | · . , , , , (|
| 00 02 00 00 | Copy Sound data | | | 1 5-2 |
| 00 63 60 66 | ROW Card data | | + | 1 5-3 |
| | Perform Param | | <u> </u> | 1 5-4 |
| | 1 | | 1 A-2 | 1 |
| | 1 1 | • | : | |
| | t I | | M-15 | |
| | | - | N-16 | |
| 00 04 00 00 | 1 | | + | t t,,,,,,,,,, |
| | Feel Patch | | # 0 | 5-5 |
| | 1 1 | | #1 | 1 |
| | 1 | • | : | |
| | | • | # 5 | i |
| | 1 1 | | #1 | , |
| 00 05 00 00 | + | | | , |
| 00 06 00 00 | Assign Param. i | | | 5-6 |
| | Output Level | | lnst#1 | |
| | | | inst #2 | |
| | 1 | • | : | |
| | | • | last #119 | |
| | !!!! | | inst #120 | |
| 00 07 00 00 | t t | | , | |
| 00 00 80 00 | i MIDI Param. | | | 1 5-8 |
| 01 00 00 00 | System data | | | 5-9 |
| | Song data | | | 1 5-10 I |
| 02 00 00 00 | Pattern data | | PTN 00 | |
| | + | | PTN 01 | |
| | | | : | |
| | | | PTN 98 | • |
| | | | PTN 99 | • |
| | | | | • |

MIDI Implementation Chart

Date : Sep. 30 1988

Version: 1.00

| | Function · · · | Transmitted | Recognized | Remarks |
|---------------------|---|-------------------------------------|--|---|
| Basic Channel | Default Changed | 1 - 16 1 - 16 | 1 - 16 1 - 16 | Memorized (Non – volatile) |
| Mode | Default Messages Altered | Mode 3 × ****** | Mode 3 | |
| Note Number | True Voice | 0-127 ** ****** | 0-127 ** | Assignable to each instrument |
| Velocity | Note ON Note OFF | * 9n v=1-127 × 9n v=0 | * 9b v = 1 - 127 × | n = Inst Ch *** b = Basic Ch |
| After Touch | Key's Ch's | × | × | |
| Pitch Bend | ier | × | × | |
| Control Change | 1, 33 10 16, 48 17, 49 18, 50 19, 51 80 81 82 | * * * * * * * * * | * * * * * * * * * * | Modulation Panpot General purpose control – 1 General purpose control – 2 General purpose control – 3 General purpose control – 4 General purpose control – 5 General purpose control – 6 General purpose control – 7 |
| Prog | 83 | * × | * | General purpose control – 8 |
| Change | True # | ****** | * ** | |
| System Exc | clusive | 0 | * | |
| System Common | Song Pos Song Sel Tune | 0 × | O SYNC = MIDI O SYNC = MIDI x | 0-9 |
| System Real Time | Clock Commands | O SYNC = INT/TAPE O SYNC = INT/TAPE | O SYNC = MIDI O SYNC = MIDI | |
| Aux Message | Local ON/OFF All Notes OFF Active Sense Reset | × × O × | x x x x | |
| Notes | | ** Can be changed | or X manually and memor manually and memorized. of each instrument can b | |

Mode 1: OMNI ON, POLY

Mode 3: OMNI OFF, POLY 222

Mode 2: OMNI ON, MONO

Mode 4: OMNI OFF, MONO

O: Yes

× : No

| | Function ••• | Transmitted | Recognized | Remarks |
|---------------------|---|----------------------------|---|---|
| Basic Channel | Default Changed | × × | OFF OFF, 1 – 16 ** | Memorized (Non – volatile) |
| Mode | Default Messages Altered | × × ******* | Mode 3 × | |
| Note Number | True Voice | × ****** | 0 - 127 | |
| Velocity | Note ON Note OFF | × | ○ 9n v=1 - 127 × | n = Section Ch |
| After Touch | Key's Ch's | × | × | |
| Pitch Ben | der | × | × | |
| Control Change | 1 10 16 17 18 19 80 81 82 83 | x x x x x x | * * * * * * * * * * * * | Modulation Panpot General purpose control – 1 General purpose control – 2 General purpose control – 3 General purpose control – 4 General purpose control – 5 General purpose control – 6 General purpose control – 7 General purpose control – 7 General purpose control – 8 |
| Prog Change | True # | × ******* | × | |
| System Exc | clusive | × | × | |
| System Common | Song Pos Song Sel Tune | x x x | × × × | |
| System Real Time | Clock Commands | × | × | |
| Aux Viessage | Local ON/OFF All Notes OFF Active Sense Reset | × × × × | × × × × | |
| Notes | | (for each Performa | or × manually and memorizence Section) o OFF, R – 8 cannot recogn | |

Mode 1: OMNI ON, POLY Mode 3: OMNI OFF, POLY

Mode 2: OMNI ON, MONO

Mode 4: OMNI OFF, MONO

O: Yes

×: No

SPECIFICATIONS

R-8: Human Rhythm Composer

Sound Source

Sampling Frequency: 44.1 kHz

Dynamic Range: 16 bit
Maximum Voices: 32Voices
68 Internal Instrument Voices
26 Copy Instrument Voices
26 External Instrument Voices
(On a Sound ROM Card)

(Sound Parameters)

Pitch : ±4 oct (in 10 cent steps)

Decay : 0 to 127 Nuance : 0 to 15

Output Assign : Multi Out 1 to 8/

Stereo Out (7 level pan)

Assign Type : MONO/POLY/EXC1 to 8

Sense Curve :1 to 8

Rhythm Pattern

32 Preset Patterns

100 User - Patterns

(Maximum number of bars writable: 99)

Memorized Data: Velocity/Pitch/Decay/
Nuance/Pan/Micro Timing

Song

10 Songs (total of up to 999 parts)

Memorized Data: Initial Tempo/Initial Level/
Rhythm Pattern/Repeat/Tempo Change/
Level Change/Label

●8 Feel Patches

- ●10 Users Functions (Maximum number of lines: 16)
- ●10 Macro Notes (Maximum number of notes:16)
- External Memory

Memory Card : M - 256E, M - 256D

Step Resolution

1/96 note (in Writing)
1/384 note (in Playing)

●Tempo: 20 to 250 beats per measure

Display

Function Display (2 line, 20 characters)
Graphic Display
Tempo Indicator

● Control Section

[Front Panel]

Value Slider

Volume Slider

Song Button

Pattern Button

MIDI Button

Instrument Assign Button

Card Button Utility Button

Sound Button

Performance Button

Feel Button

Define Button

Cancel Button

Function Button

Macro Button

Pad Bank Button

Multi Button

Scope Button

Cursor Buttons

Page Button

Tempo Button

Level Button

Numerical Keys

Exit Button

Enter Button

Parameter Up/Down Button

Parameter Select Button

Start / Stop Button

Roll Button

Flam Button

Shift Button

Key Pads 1 to 16 (with Velocity)

[Rear Panel]

Power Switch

LCD Contrast Control Knob

Output Jacks

Multi Output Jacks 1 to 8
Stereo Output Jacks (R/L (MONO))
Headphone Jack

Connection Jacks

RAM Card Slot
ROM Card Slot
Start/Stop Jack
Value Jack
Tape Sync In Jack
Tape Sync Out Jack
MIDI Sockets (IN/OUT/THRU)
AC Adapter Socket (± 10V)

Dimensions

- ■Weight 3.1kg/6 lb 13 oz >
- Power Consumption 7 W

Accessories

AC Adapter
(ACH series: dedicated to the R-8)
Owner's Manual
Quick Operation Mode Table
Instrument Table
Data flow of each Parameters
Parameter Chart
Guide Book for MIDI

Options

RAM Card (M-256E/M-256D)
Sound ROM Card
Pedal Switch (DP-2)
Footswitch (FS-5U)
Foot Volume (EV-5/EV-10)

*The specifications of this product are subject to change without prior notice, in the interest of for improvement.

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