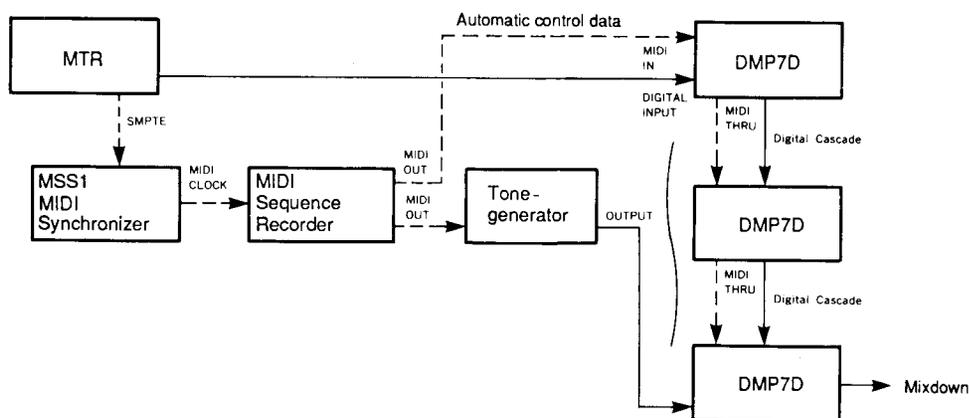


SECTION 3: MIDI SYSTEM EXAMPLES

In the system example given below, a MIDI sequence recorder is synchronized to SMPTE time code played back from a multitrack tape, and the sequencer is used to drive the DMP7D providing fully automated mixdown.

Playback Signal Flow



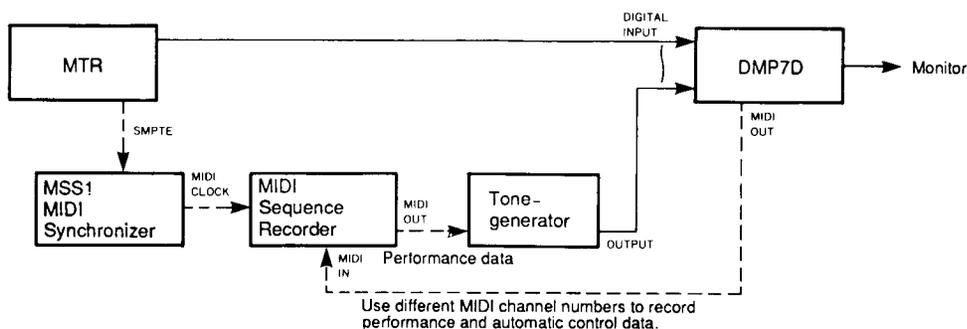
Note: The following have been omitted from the diagram for the sake of clarity:

- The interface unit between the recorder and DMP7D.
- The A/D converter between the tone generator and DMP7D.

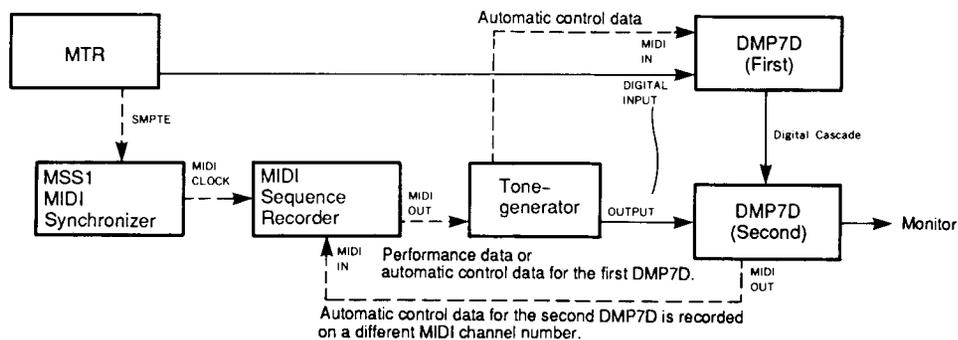
Note: When recording sequence data for more than one DMP7D, the MIDI connections must be changed and the mixdown data recorded to the sequencer separately for each DMP7D unit.

Note: The MSS1 MIDI Synchronizer can be used to directly store and replay MIDI program change data for automated "scene" changes. In this case the MIDI sequence recorder can be omitted from the system.

Signal Flow when Recording Sequence Data (Single DMP7D)



Signal Flow when Recording Sequence Data (Second DMP7D)



SECTION 4: CONNECTION EXAMPLES

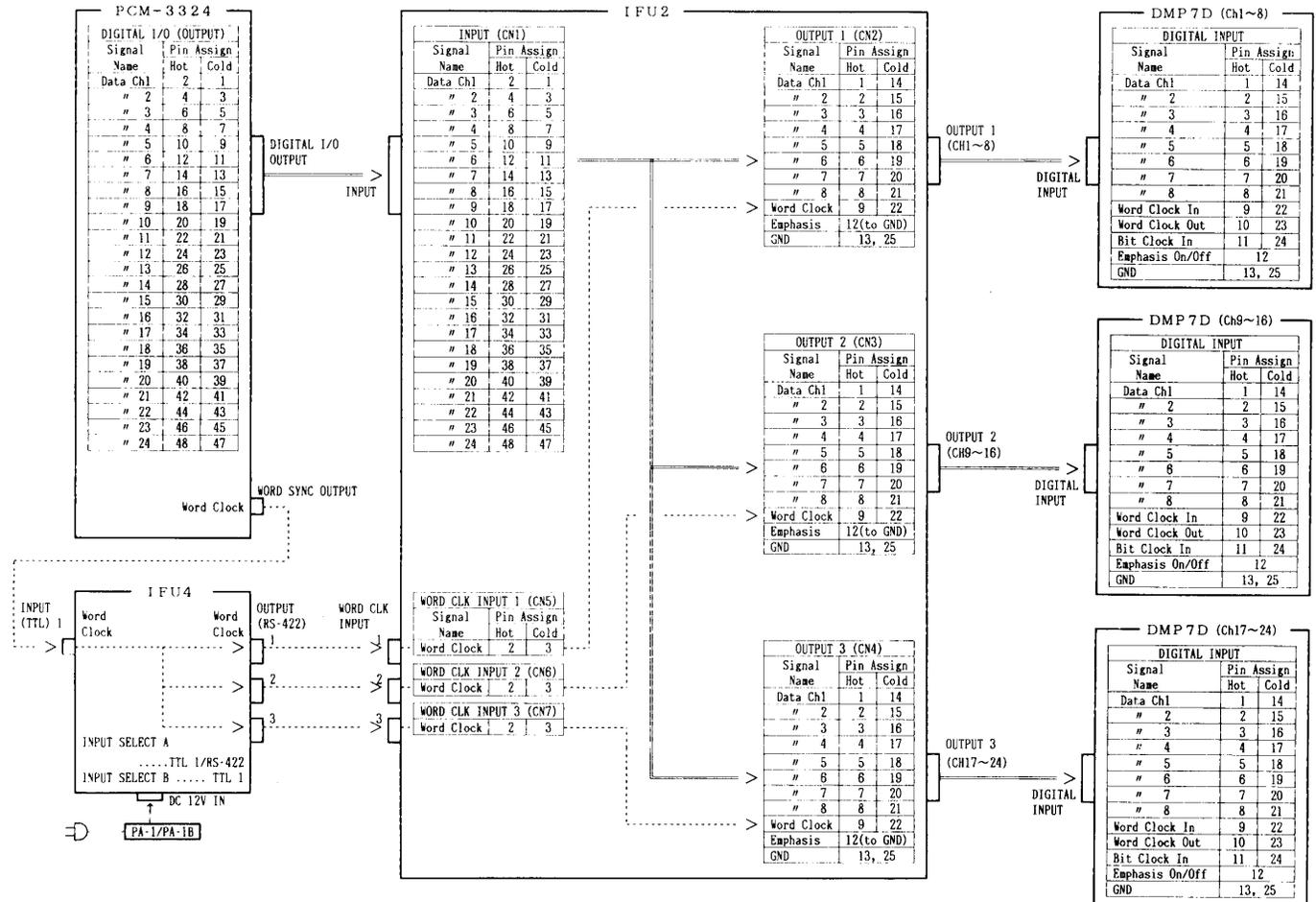
CHIPITRE 4: EXEMPLES DE MONTAGE

ABSCHNITT 4: ANSCHLUSSBEISPIELE

PCM-3324 Connected to DMP7D Input

PCM-3324 connecté à l'entrée du DMP7D

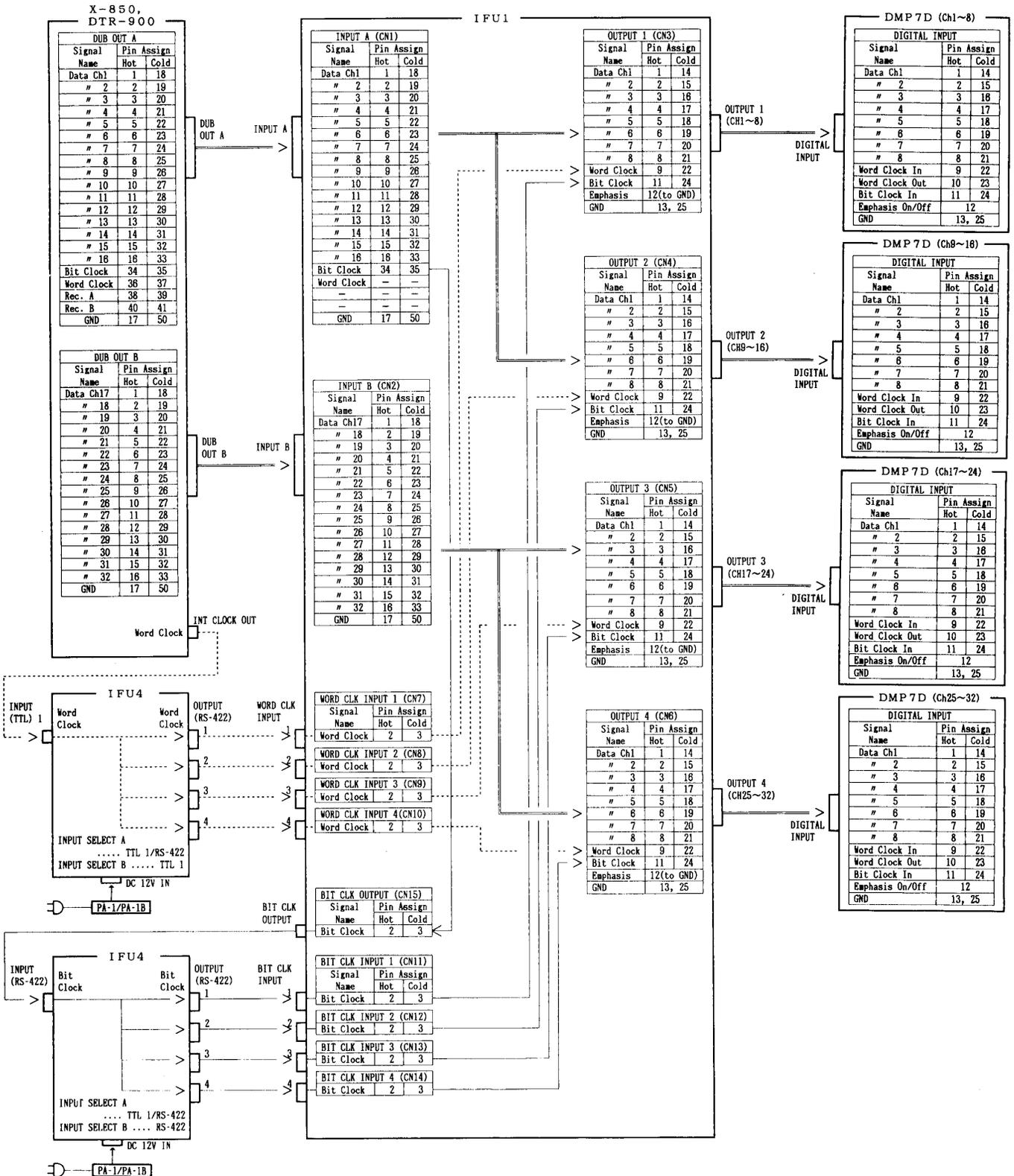
PCM-3324 mit Eingang des DMP7D verbunden



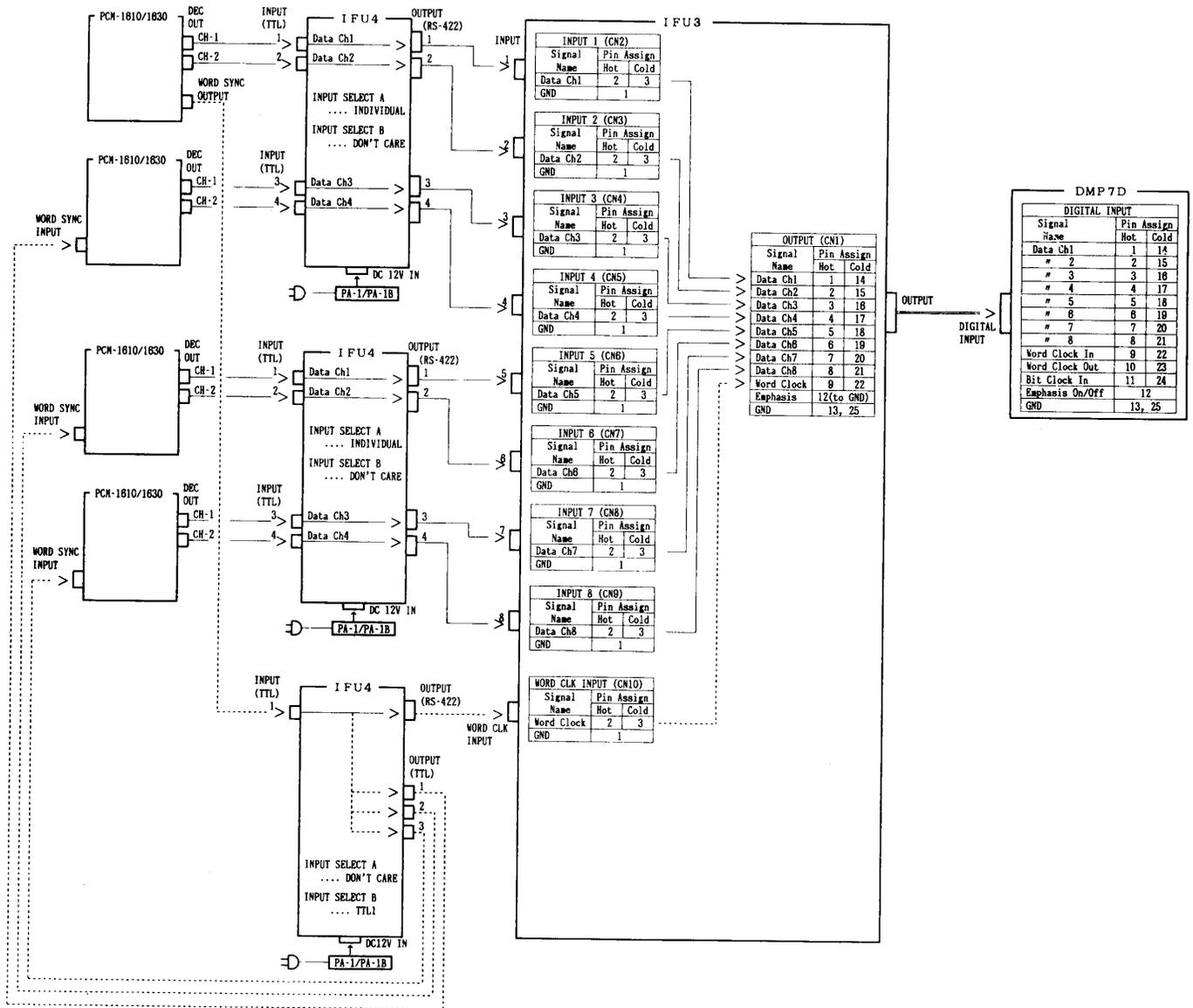
X-850/DTR-900 Connected to DMP7D Input

X-850/DTR-900 connecté aux entrées du DMP7D

X-850/DTR-900 mit dem Eingang des DMP7D verbunden.



4 PCM-1610/1630 Units Connected to DMP7D Input
4 unités PCM-1610/1630 connectées aux entrées du DMP7D
4 PCM-1610/1630 mit dem Eingang des DMP7D verbunden



SECTION 5: CONNECTOR COMPATIBILITY

The DMP7D has the following four types of output connector:

1. DIGITAL OUT (Sony format, RS-422 level, XLR type connector).
2. DIGITAL OUT (Sony format, TTL level, BNC connector).
3. CD/DAT OUT (AES/EBU IEC1 format, 0.5 V p-p/75 Ω , pin jack)
4. AES/EBU OUT (AES/EBU IEC1 format, RS-422 level, XLR type connector).

The following is a list of equipment which can currently be connected to the DMP7D outputs. Changes in the specifications of the equipment listed, however, may make this information invalid. Please refer to the specifications of the equipment in question.

● DIGITAL MULTITRACK AUDIO RECORDERS

Model	DMP7D Connector	Recorder Connector	Connection Cable
Sony PCM-3324	1	DIGITAL I/O INPUT connector (D-SUB 50P, RS-422)	Must be hand-made. (Connect only pins for the channels to be used)*
Mitsubishi X-850	2	Front-panel PATCH IN connector (mini-jack, TTL).	Must be hand-made. (Connect only pins for the channels to be used)
Mitsubishi X-400	1	DUB IN A connector (D-SUB 50P, RS-422)	Must be hand-made. (Connect only pins for the channels to be used)*
Otari DTR-900	1	DIGITAL IN connector (XLR type, RS-422)	XLR - XLR cable. (Connect only pins for the channels to be used)

● 2-CHANNEL PCM RECORDERS

Model	DMP7D Connector	Recorder Connector	Connection Cable
Sony PCM-3102	4	DIGITAL I/O AES/EBU D-1 connector (XLR type, RS-422)	XLR - XLR cable.
Sony PCM-3202	4	DIGITAL I/O AES/EBU D-1 connector (XLR type, RS-422)	XLR - XLR cable.
Sony PCM-3402	4	DIGITAL I/O AES/EBU D-1 connector (XLR type, RS-422)	XLR - XLR cable.
Mitsubishi X-86	1	DUB IN connector (D-SUB 25P, RS-422)	Must be hand-made.
Mitsubishi X-86LT	1	DUB IN connector (D-SUB 25P, RS-422)	Must be hand-made.
Mitsubishi X-80	1	DUB IN connector (D-SUB 25P, RS-422)	Must be hand-made.

● **PCM PROCESSORS**

Model	DMP7D Connector	Recorder Connector	Connection Cable
Sony PCM-1610	2	DIGITAL I/O ENC IN connector (BNC, TTL)	BNC - BNC cable.
Sony PCM-1630	2	DIGITAL I/O ENC IN connector (BNC, TTL)	BNC - BNC cable.

● **PROFESSIONAL DATA RECORDER**

Model	DMP7D Connector	Recorder Connector	Connection Cable
Sony PCM-2000	4	DIGITAL IN connector (AES/EBU, XLR type, 3V-10V)	XLR - XLR cable.
Sony PCM-2500	4	AES/EBU IN connector (XLR type, RS-422)	XLR - XLR cable.

* A patch bay is recommended for smooth system setup.

SECTION 6: OPTIONS

● IFU1 Interface Unit



Matches the X-850/DTR-900 pin assignment to the input pin assignment of 4 DMP7D units.

- Dimensions (W x H x D): 480 x 89.9 x 206.2 mm (18-7/8"x3-1/2"x8-1/8").
- Weight: 2.5 kg (5.5lbs).

● IFU2 Interface Unit



Matches the PCM-3324 pin assignment to the input pin assignment of 3 DMP7D units.

- Dimensions (W x H x D): 480 x 45.3 x 207.7 mm (18-7/8"x3-1/2"x8-1/8").
- Weight: 1.6 kg (3.5lbs).

● IFU3 Interface Unit



Matches 8 single-channel connectors (four PCM-1610/1630 units) to the input pin assignment of the DMP7D.

- Dimensions (W x H x D): 480 x 45.3 x 207.7 mm (18-7/8"x1-3/4"x8-1/8").
- Weight: 1.7 kg (3.7lbs).

● IFU4 Interface Unit



Converts TTL to RS-422 level and provides 4 output branches.

- PA-1/PA-1B AC Adaptor
- Dimensions (W x H x D): 480 x 45.3 x 217.1 mm (18-7/8"x1-3/4"x8-1/2").
- Weight: 1.85 kg (4.1lbs).

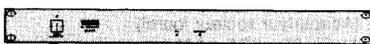
● AD808 A/D Converter



Converts 8 channels of analog input to digital signals acceptable by the DMP7D.

- 16-bit quantization. ● Switchable 44.1 kHz/48 kHz sampling frequency.
- Emphasis ON/OFF. ● Word clock selection.
- Channel input level controls. ● AC Power.
- Dimensions (W x H x D): 480 x 99.8 x 355 mm (18-7/8"x4"x14").
- Weight: 8.0 kg (17.6lbs).

● DA202 D/A Converter



Converts AES/EBU format RS-422 or 0.5Vp-p level digital audio to analog output.

- 18-bit processing & 8 times oversampling.
- Switchable 44.1 kHz/48 kHz sampling frequency.
- AC Power.
- Dimensions (W x H x D): 480 x 45.3 x 211.7 mm (18-7/8"x1-3/4"x8-3/8").
- Weight: 3.4 kg (7.5lbs).

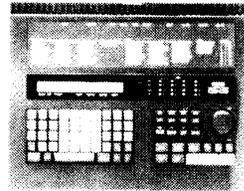
● MSS1 MIDI Synchronizer



Precisely synchronizes MIDI equipment to SMPTE time code from MTRs or VTRs. MIDI event mode included.

- 30, DF, 25 and 24 fps modes.
- Program change and control change event control (1,793 steps).
- AC Power.
- Dimensions (W x H x D): 439 x 73.5 x 286 mm (17-1/4"x2-7/8"x11-1/4").
- Weight: 3.8 kg (8.4lbs).

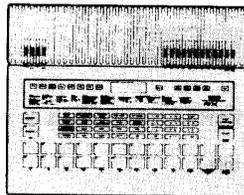
● QX3 Digital Sequence Recorder



Versatile MIDI sequence recording and playback for system automation.

- 16 tracks on independent MIDI channels.
- Internal RAM and 3.5" FD storage.
- AC Power.
- Dimensions (W x H x D): 439 x 80.8 x 340 mm (17-1/4"x3-1/8"x13-3/8").
- Weight: 4.4 kg (9.7lbs).

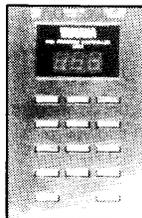
● RX5 Digital Rhythm Programmer



PCM percussion voices and rhythm programming for MIDI-controlled or stand-alone operation.

- 12-bit PCM tone generator.
- 12 independent output channels.
- AC Power.
- Dimensions (W x H x D): 439 x 88 x 340 mm (17-1/4"x3-1/2"x13-3/8").
- Weight: 3.8 kg (8.4lbs).

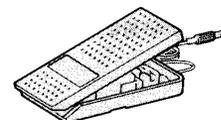
● MPC1 MIDI Program Controller



A convenient, compact MIDI program change message transmission unit. MIDI OUT.

- DC 9V IN (AC adapter provided).
- Dimensions (W x H x D): 95 x 37.5 x 141 mm (3-3/4"x1-1/2"x5-1/2").
- Weight: 480 g (1.0lbs).

● FC7 Foot Controller



Ideal for foot control of DMP7D stereo output level.

- Dimensions (W x H x D): 116 x 58 x 250 mm (4-1/2"x2-1/4"x9-7/8").
- Weight: 1.3 kg (2.9lbs).

SECTION 7: MIDI DATA AND SPECIFICATIONS

CHAPITRE 7: DONNEES MIDI ET SPECIFICATIONS

ABSCHNITT 7: MIDI-DATEN UND TECHNISCHE DATEN

MIDI DATA FORMAT

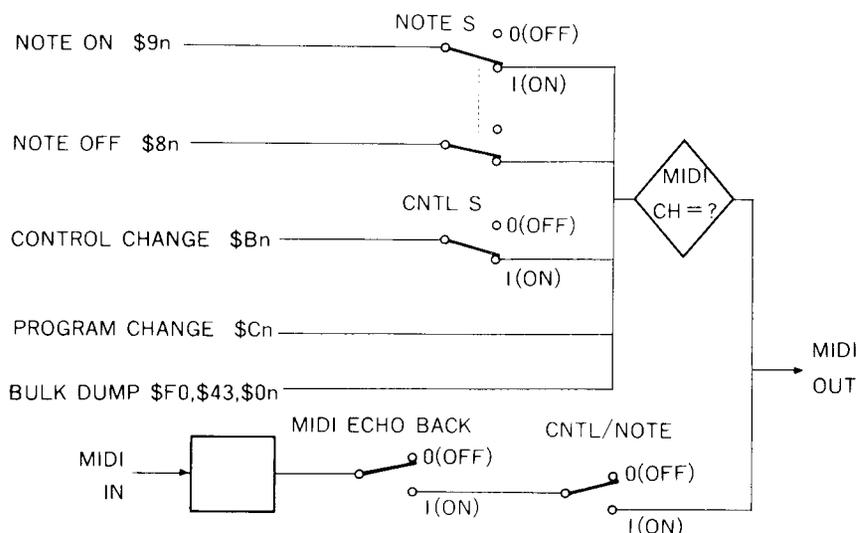
FORMAT DES DONNEES MIDI

MIDI-DATENFORMAT

1. Transmission Conditions

1. Conditions de transmission

1. Übertragungsbedingungen



2. Transmission Data

2. Données de transmission

2. Datenübertragung

2-1 Channel Information

1) Channel Voice Message

NOTE ON/NOTE OFF

When the NOTE ON/OFF SEND ENABLE function is "1" (ON), MIDI data is transmitted on the MIDI channel specified by the currently active bank.

The appropriate message is transmitted whenever a parameter is changed. The 2nd byte is the note number of the changed parameter, and the third byte is the new value.

Lorsque la fonction NOTE ON/OFF SEND ENABLE est "1" (ON), les données MIDI sont transmises sur le canal MIDI spécifié par le bank actif. Le message approprié est transmis chaque fois qu'un paramètre est modifié. Le deuxième octet est le numéro de note du paramètre modifié et le troisième octet, la nouvelle valeur.

Wenn die Funktion NOTE ON/OFF SEND ENABLE (Übermittlung von Noteneinschaltdaten) auf "1" gestellt (also aktiviert) ist, werden MIDI-Daten auf dem MIDI-Kanal übermittelt, der von der derzeit aktiven Bank bestimmt wird.

Die entsprechende Meldung wird jedesmal gesendet, wenn ein Parameter verändert wird. Das zweite Byte ist die Notennummer des geänderten Parameters, und das dritte Byte der neue Wert.

STATUS	1 0 0 1 n n n n (9nH)	n = 0 (channel no. 1) – 15 (channel no. 16)
NOTE NO.	0 k k k k k k k k	k = 0 (note no. 0) – 127 (note no. 127)
VALUE	0 v v v v v v v v	d = 0 (minimum value) – 127 (maximum value)
STATUS	1 0 0 0 n n n n (8nH)	n = 0 (channel no. 1) – 15 (channel no. 16)
NOTE NO.	0 k k k k k k k k	k = 0 (note no. 0) – 127 (note no. 127)
VALUE	0 v v v v v v v v	d = note on velocity

② CONTROL CHANGE

When the CONTROL CHANGE SEND ENABLE function is "1" (ON), MIDI data is transmitted on the MIDI channel specified by the currently active bank.

The appropriate message is transmitted whenever a parameter is changed. The 2nd byte is the control number of the changed parameter, and the third byte is the new value.

Lorsque la fonction CONTROL CHANGE SEND ENABLE est "1" (ON), les données MIDI sont transmises sur le canal MIDI spécifié par le bank actif.

Le message approprié est transmis chaque fois qu'un paramètre est changé. Le deuxième octet est le numéro de commande du paramètre changé et le troisième octet, la nouvelle valeur.

Wenn die Funktion CONTROL CHANGE SEND ENABLE (Übermittlung von Steuerelementdaten) auf "1" gestellt (also aktiviert) ist, werden MIDI-Daten auf dem MIDI-Kanal übermittelt, der von der derzeit aktiven Bank bestimmt wird.

Die entsprechende Meldung wird jedesmal gesendet, wenn ein Parameter verändert wird. Das zweite Byte ist die Steuerelementnummer des geänderten Parameters, und das dritte Byte der neue Wert.

STATUS	1011nnnn (BnH)	n = 0 (channel no. 1) – 15 (channel no. 16)
CONTROL NO.	0ccccccc	c = 0 (control no. 0) – 127 (control no. 127)
VALUE	0vvvvvvv	d = 0 (minimum value) – 127 (maximum value)

③ PROGRAM CHANGE

Can be transmitted on the MIDI channel set for each bank.

The message is transmitted when a memory is recalled. The program number corresponding to the recalled memory is transmitted as the 2nd byte.

Peut être transmis sur le canal MIDI fixé pour chaque bank.

Le message est transmis lorsqu'une mémoire est rappelée. Le numéro de programme correspondant à la mémoire rappelée est transmis en tant que deuxième octet.

Kann auf dem jeweiligen MIDI-Kanal übermittelt werden, der für die einzelnen Banken eingestellt wurde. Die entsprechende Meldung wird jedesmal gesendet, wenn eine Speicherstelle abgerufen wird. Die Programmnummer, die der abgerufenen Speicherstelle entspricht, wird als das zweite Byte übermittelt.

STATUS	1100nnnn (CnH)	n = 0 (channel no. 1) – 15 (channel no. 16)
PROG NO.	0ppppppp	p = 0 (program no. 0) – 127 (program no. 127)

③ 1 BANK PROGRAM CHANGE ASSIGNMENT TABLE BULK DATA

Can be transmitted on the MIDI channel set in the currently active bank.

The data is transmitted when a program change assignment table bulk dump request is received. The data transmitted consists of the program change assignment table (assignment of MIDI program change numbers to memory numbers).

Peuvent être transmises sur le canal MIDI fixé dans le bank actif. Les données sont transmises lorsqu'une demande de vidage de la table d'assignation des changements de programme est reçue. Les données transmises sont la table d'assignation des changements de programme (assignations de numéros de changement de programme MIDI à des numéros de mémoire).

Kann auf dem MIDI-Kanal übermittelt werden, der für die derzeit aktive Bank eingestellt wurde.

Die Daten werden übermittelt, wenn eine Blockabwurf-Anforderung für eine Programmwechsel-Zuweisungstabelle empfangen wird. Die übermittelten Daten bestehen aus der Programmwechsel-Zuweisungstabelle (Zuweisung von MIDI-Programmwechselnummern an Speichernummern).

```

STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0000nnnn (0nH)  n=0 (channel no.1)–
                               15 (channel no.16)

FORMAT NO.  01111110 (7EH)
BYTE COUNT  00000001 (01H)
BYTE COUNT  00001010 (0AH)
             01001100 (4CH)  "L"
             01001101 (4DH)  "M"
             00100000 (20H)  space
             00100000 (20H)  space
             00111000 (38H)  "8"
             00110011 (33H)  "3"
             00110111 (37H)  "7"
             00110110 (36H)  "6"
DATA NAME   01010100 (54H)  "T"
BANK NO.    0mmmmmmm        m = bank 1–4 (1 = A,
                               2 = B, 3 = C,
                               4 = D)

DATA        0ddddddd
             ↓
             0ddddddd      } 128 bytes
CHECKSUM    0eeeeeee
EOX         11110111 (F7H)
    
```

④ 4 BANK PROGRAM CHANGE ASSIGNMENT TABLE BULK DATA

Can be transmitted on the MIDI channel set in the currently active bank.

The data is transmitted when the BULK DUMP PGMC function is activated. The program change assignment tables for all four banks are transmitted.

Peuvent être transmises sur le canal MIDI fixé dans le bank actif.

Les données sont transmises lorsque la fonction BULK DUMP PGMC est activée. Les tables d'assignation des changements de programme des quatre banks sont transmises.

Kann auf dem MIDI-Kanal übermittelt werden, der für die derzeit aktive Bank eingestellt wurde.

Die Daten werden übermittelt, wenn die Funktion BULK DUMP PGMC aktiviert ist. Die Programmwechsel-Zuweisungstabelle für alle vier Banken werden übermittelt.

```

STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0000nnnn (0nH)  n=0 (channel no.1)–
                               15 (channel no.16)

FORMAT NO.  01111110 (7EH)
BYTE COUNT  00000001 (01H)
             ↓
CHECKSUM    0eeeeeee      } bank A
BYTE COUNT  00000001 (01H)
             ↓
CHECKSUM    0eeeeeee      } bank B
BYTE COUNT  00000001 (01H)
             ↓
CHECKSUM    0eeeeeee      } bank C
BYTE COUNT  00000001 (01H)
             ↓
CHECKSUM    0eeeeeee      } bank D
EOX         11110111 (F7H)
    
```

* For details on the data between BYTE COUNT (01H) and CHECKSUM see "1 BANK PROGRAM CHANGE ASSIGNMENT TABLE BULK DATA".

* Pour les données situées entre le BYTE COUNT (01H) et la CHECKSUM, voir "1 BANK PROGRAM CHANGE ASSIGNMENT TABLE BULK DATA".

* Siehe "1 BANK PROGRAM CHANGE ASSIGNMENT TABLE BULK DATA" für nähere Einzelheiten bezüglich der Daten zwischen BYTE COUNT (01H) und CHECKSUM.

5 NOTE ASSIGNMENT TABLE BULK DATA

Can be transmitted on the MIDI channel set in the currently active bank.

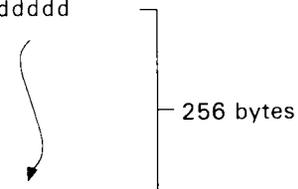
The data is transmitted when a note assignment table bulk dump request is received. The data transmitted consists of the note assignment table (assignment of MIDI note numbers to DMP7D parameter numbers).

Peuvent être transmises sur le canal MIDI fixé dans le bank actif.

Les données sont transmises lorsqu'une demande de vidage des données de table d'assignation de note est reçue. Les données transmises sont la table d'assignation de note (assignation de numéros de note MIDI aux numéros de paramètre du DMP7D).

Kann auf dem MIDI-Kanal übermittelt werden, der für die derzeit aktive Bank eingestellt wurde.

Die Daten werden übermittelt, wenn eine Blockabwurf-Anforderung für eine Notenzuweisungstabelle empfangen wird. Die übermittelten Daten bestehen aus der Notenzuweisungstabelle (Zuweisung von MIDI-Notennummern an DMP7D-Parameter-nummern).

STATUS	11110000 (F0H)
ID NO.	01000011 (43H)
SUB-STATUS	0000nnnn (0nH) n=0 (channel no.1)– 15 (channel no.16)
FORMAT NO.	01111110 (7EH)
BYTE COUNT	00000010 (02H)
BYTE COUNT	00001010 (0AH)
	01001100 (4CH) "L"
	01001101 (4DH) "M"
	00100000 (20H) space
	00100000 (20H) space
	00111000 (38H) "8"
	00110011 (33H) "3"
	00110111 (37H) "7"
	00110110 (36H) "6"
DATA NAME	01001110 (4EH) "N"
SPACE	00100000 (20H) space
DATA	0ddddddd
	
CHECKSUM	0eeeeeee
EOX	11110111 (F7H)

6 CONTROL ASSIGNMENT TABLE BULK DATA

Can be transmitted on the MIDI channel set in the currently active bank.

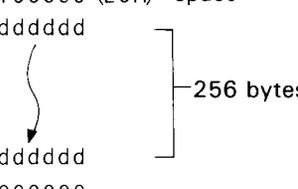
The data is transmitted when a control assignment table bulk dump request is received. The data transmitted consists of the control assignment table (assignment of MIDI control change numbers to DMP7D parameter numbers).

Peuvent être transmises sur le canal MIDI fixé dans le bank actif.

Les données sont transmises lorsqu'une demande de vidage de la table d'assignation de commande est reçue. Les données transmises sont la table d'assignation de commande (assignation de numéros de changement de commande MIDI aux numéros de paramètre du DMP7D).

Kann auf dem MIDI-Kanal übermittelt werden, der für die derzeit aktive Bank eingestellt wurde.

Die Daten werden übermittelt, wenn eine Blockabwurf-Anforderung für eine Steuerelementzuweisungstabelle empfangen wird. Die übermittelten Daten bestehen aus der Steuerelementzuweisungstabelle (Zuweisung von MIDI-Steuerelementnummern an DMP7D-Parameternummern).

STATUS	11110000 (F0H)
ID NO.	01000011 (43H)
SUB-STATUS	0000nnnn (0nH) n=0 (channel no.1)– 15 (channel no.16)
FORMAT NO.	01111110 (7EH)
BYTE COUNT	00000010 (02H)
BYTE COUNT	00001010 (0AH)
	01001100 (4CH) "L"
	01001101 (4DH) "M"
	00100000 (20H) space
	00100000 (20H) space
	00111000 (38H) "8"
	00110011 (33H) "3"
	00110111 (37H) "7"
	00110110 (36H) "6"
DATA NAME	01001110 (43H) "C"
SPACE	00100000 (20H) space
DATA	0ddddddd
	
CHECKSUM	0eeeeeee
EOX	11110111 (F7H)

7 CONDITION SETUP BULK DATA

Can be transmitted on the MIDI channel set in the currently active bank.

The data is transmitted when a condition setup bulk dump request is received. The data transmitted consists of the fade time setting, note & control enable settings, MIDI echo back ON/OFF, and the MIDI channel numbers for all banks.

Peuvent être transmises sur le canal MIDI fixé dans le bank actif.

Les données sont transmises lorsqu'une demande de vidage des réglages de condition est reçue. Les données transmises sont le réglage de la fonction FADE TIME, les réglages de validation de notes & commandes, le statut activé ou désactivé de la fonction MIDI ECHO BACK et les numéros de canal MIDI pour tous les banks.

Kann auf dem MIDI-Kanal übermittelt werden, der für die derzeit aktive Bank eingestellt wurde.

Die Daten werden übermittelt, wenn eine Blockabwurf-Anforderung für Condition Setup empfangen wird. Die übermittelten Daten bestehen aus der Einstellung der Fade-Zeit, den Zustandseinstellungen (ein/aus) für Noten und Steuerelemente, ein/aus für MIDI Echo Back sowie die MIDI-Kanalnummern für alle Banken.

STATUS	11110000 (F0H)	
ID NO.	01000011 (43H)	
SUB-STATUS	0000nnnn (0nH)	n=0 (channel no. 1) - 15 (channel no. 16)
FORMAT NO.	01111100 (7CH)	
BYTE COUNT	00000000 (00H)	
BYTE COUNT	00010110 (16H)	
	01001100 (4CH)	"L"
	01001101 (4DH)	"M"
	00100000 (20H)	space
	00100000 (20H)	space
	00111000 (38H)	"8"
	00110011 (33H)	"3"
	00110111 (37H)	"7"
	00110110 (36H)	"6"
	01010011 (53H)	"S"
	00100000 (20H)	space
SOFT VER.NO.	0vvvvvvv	
SOFT REV. NO.	0rrrrrrr	
DATA	0000aaaa (0aH)	a = bank A channel no.
	0000bbbb (0bH)	b = bank B channel no.
	0000cccc (0cH)	c = bank C channel no.
	0000dddd (0dH)	d = bank D channel no.
	000000bb (0bH)	b = current bank
	000fffff (0fH)	f = MIDI control flag
FADE TIME	0000tttt	
	0ddddddd	} spare
	0ddddddd	
	0ddddddd	
CHECKSUM	0eeeeeee	
EOX	11110111 (F7H)	

* The MIDI control flag format is as follows:

0	0	0	V	IV	III	II	I
---	---	---	---	----	-----	----	---

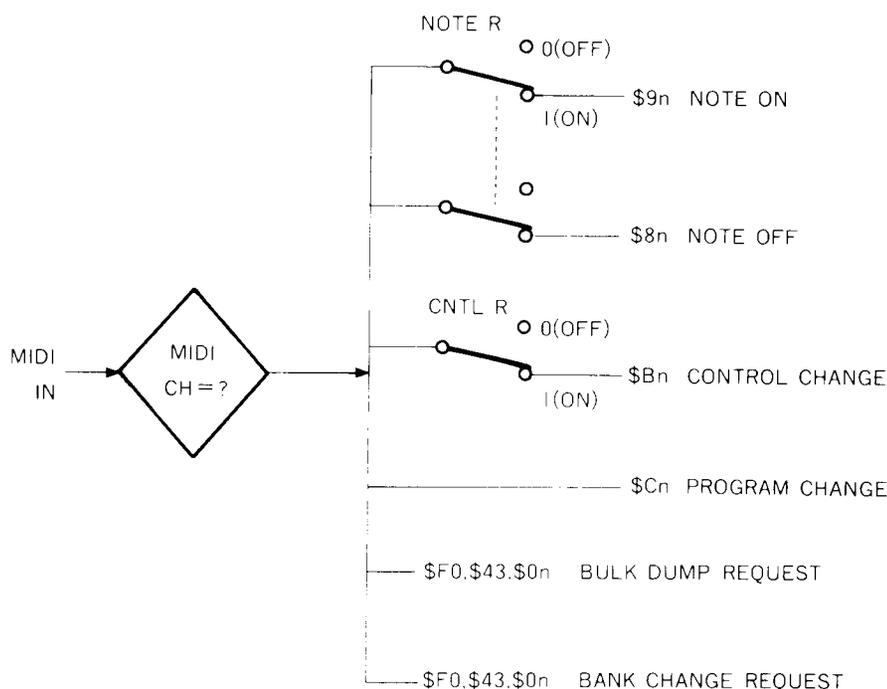
1: ENABLE
0: DISABLE

- I: CONTROL CHANGE RECEIVE ENABLE
- II: NOTE ON/NOTE OFF RECEIVE ENABLE
- III: CONTROL CHANGE SEND ENABLE
- IV: NOTE ON/NOTE OFF SEND ENABLE
- V: MIDI ECHO BACK ENABLE

3. Reception Conditions

3. Conditions de réception

3. Empfangsbedingungen



4. Reception Data

4. Données de réception

4. Empfangsdaten

4-1 Channel Information

1 NOTE ON

When the NOTE ON/OFF RECEIVE ENABLE function is "1" (ON), reception is possible ofn the MIDI channel specified by the currently active bank. Received note numbers affect the DMP7D parameters assigned in the note assignment table.

Lorsque la fonction NOTE ON/OFF RECEIVE ENABLE est "1" (ON), la réception est possible sur le canal MIDI spécifié par le bank actif. Les numéros de note reçus affectent les paramètres du DMP7D assignés dans la table d'assignation de note.

Wenn die Funktion NOTE AN/NOTE AUS-EMPFANG AKTIVIEREN eingeschaltet ist ("1"), ist Empfang auf dem durch die derzeit aktive Bank angegebenen Kanal möglich.

Empfangene Notennummern beeinflussen diejenigen DMP7D-Parameter, die in der Notenzuweisungstabelle entsprechend zugewiesen wurden.

STATUS	1001nnnn (9nH)	n = 0 (channel no.1) – 15 (channel no.16)
NOTE NO.	0kkkkkkk	k = 0 (C-2) – 127 (G8)
VELOCITY	0vvvvvvv	v = 0 – 127

2 NOTE OFF

When the NOTE ON/OFF RECEIVE ENABLE function is "1" (ON), reception is possible ofn the MIDI channel specified by the currently active bank. This message is essential to signal the end of a NOTE ON message in the DMP7D.

Lorsque la fonction NOTE ON/OFF RECEIVE ENABLE est "1" (ON), la réception est possible sur le canal MIDI spécifié par le bank actif. Ce message est essentiel pour signaler la fin d'un message NOTE ON dans le DMP7D.

Wenn die Funktion NOTE AN/NOTE AUS-EMPFANG AKTIVIEREN eingeschaltet ist ("1"), ist Empfang auf dem durch die derzeit aktive Bank angegebenen Kanal möglich.

Diese Meldung ist wesentlich, um das Ende einer NOTE AN-Meldung im DMP7D anzuzeigen.

STATUS	1000nnnn (8nH)	n = 0 (channel no.1) – 15 (channel no.16)
NOTE NO.	0kkkkkkk	k = 0 (C-2) – 127 (G8)
VELOCITY	0vvvvvvv	v = 0 – 127

4-2 System Information

1) System Exclusive Message

① MEMORY BULK DUMP REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received, a bulk dump of the specified memory is performed.

Peut être reçu sur le canal MIDI fixé dans le bank actif.

Lorsque ce message est reçu, un vidage de bulk de la mémoire spécifiée est effectué.

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang wird ein Blockabwurf der angegebenen Speicherstelle durchgeführt.

STATUS	11110000 (F0H)
ID NO.	01000011 (43H)
SUB-STATUS	0010nnnn (2nH) n = 0 (channel no.1) – 15 (channel no.16)
FORMAT NO.	01111110 (7EH)
	01001100 (4CH) "L"
	01001101 (4DH) "M"
	00100000 (20H) space
	00100000 (20H) space
	00111000 (38H) "8"
	00110011 (33H) "3"
	00110111 (37H) "7" ("4")
	00110110 (36H) "6" ("4")
DATA NAME	01001101 (4DH) "M"
MEMORY NO.	0mmmmmmm m = 0 (initialize data) – 99, 127 (current memory)
EOX	11110000 (F7H)

② PROGRAM CHANGE ASSIGN TABLE BULK DUMP REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received the program change assignment table of the specified bank is bulk-dumped. The bulk dump data consists of the specified program change assignment table (assignment of MIDI program change numbers to memory numbers).

Peut être reçu sur le canal MIDI fixé dans le bank actif.

Lorsque ce message est reçu, la table d'assignation de changement de programme du bank spécifié est vidée. Les données du bulk sont la table d'assignation de changement de programme spécifiée (assignation de numéros de changement de programme à des numéros de mémoire).

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang wird ein Blockabwurf der Programmwechsel-zuweisungstabelle der angegebenen Bank durchgeführt. Die Blockabwurfdaten bestehen aus der angegebenen Programmwechsel-Zuweisungstabelle (Zuweisung von MIDI-Programmwechselnummern an Speichernummern).

STATUS	11110000 (F0H)
ID NO.	01000011 (43H)
SUB-STATUS	0020nnnn (2nH) n = 0 (channel no.1) – 15 (channel no.16)
FORMAT NO.	01111110 (7EH)
	01001100 (4CH) "L"
	01001101 (4DH) "M"
	00100000 (20H) space
	00100000 (20H) space
	00111000 (38H) "8"
	00110011 (33H) "3"
	00110111 (37H) "7" ("4")
	00110110 (36H) "6" ("4")
DATA NAME	01010100 (54H) "T"
BANK NO.	0mmmmmmm m = bank 1 – 4 (1 = A, 2 = B, 3 = C, 4 = D)
EOX	11110111 (F7H)

3 NOTE ASSIGNMENT TABLE BULK DUMP REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received the note assignment table (assignment of MIDI note numbers to DMP7D parameter numbers) is bulk-dumped.

Peut être reçu sur le canal MIDI fixé dans le bank actif.

Lorsque ce message est reçu, la table d'assignation de note (assignation de numéros de note MIDI à des numéros de paramètre du DMP7D) est vidée.

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang wird ein Blockabwurf der Notenzuweisungstabelle (Zuweisung von MIDI-Notennummern an DMP7D-Parameternummern) durchgeführt.

```
STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0020nnnn (2nH)  n = 0 (channel no.1) –
                               15 (channel no.16)

FORMAT NO.  01111110 (7EH)
             01001100 (4CH)  "L"
             01001101 (4DH)  "M"
             00100000 (20H)  space
             00100000 (20H)  space
             00111000 (38H)  "8"
             00110011 (33H)  "3"
             00110111 (37H)  "7" ("4")
             00110110 (36H)  "6" ("4")

DATA NAME   01001110 (4EH)  "N"
             00100000 (20H)  space

EOX        11110111 (F7H)
```

4 CONTROL ASSIGNMENT TABLE BULK DUMP REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received the control assignment table (assignment of MIDI control change numbers to DMP7D parameter numbers) is bulk-dumped.

Peut être reçu sur le canal MIDI fixé dans le bank actif.

Lorsque ce message est reçu, la table d'assignation de commande (assignation de numéros de changement de commande MIDI à des numéros de paramètre du DMP7D) est vidée.

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang wird ein Blockabwurf der Steuerelementzuweisungstabelle (Zuweisung von MIDI-Steuerelementnummern an DMP7D-Parameternummern) durchgeführt.

```
STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0020nnnn (2nH)  n = 0 (channel no.1) –
                               15 (channel no.16)

FORMAT NO.  01111110 (7EH)
             01001100 (4CH)  "L"
             01001101 (4DH)  "M"
             00100000 (20H)  space
             00100000 (20H)  space
             00111000 (38H)  "8"
             00110011 (33H)  "3"
             00110111 (37H)  "7" ("4")
             00110110 (36H)  "6" ("4")

DATA NAME   01000011 (43H)  "C"
             00100000 (20H)  space

EOX        11110111 (F7H)
```

5 CONDITION SETUP BULK DUMP REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received the fade time setting, note and control enable settings, MIDI echo back ON/OFF setting, and the MIDI channel numbers for all four banks are bulk-dumped.

Peut être reçu sur le canal MIDI fixé dans le bank actif.

Lorsque ce message est reçu, le réglage de la fonction FADE TIME, les réglages de validation de note et de commande, le statut activé/désactivé de la fonction MIDI ECHO BACK et les numéros de canal spécifiés dans les quatre banks sont vidés.

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang erfolgt ein Blockabwurf der Einstellungen der Fade-Zeit, der Zustandseinstellungen (ein/aus) für Noten und Steuerelemente, ein/aus für MIDI Echo Back sowie der MIDI-Kanalnummern für alle Banken.

```
STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0020nnnn (2nH)  n=0 (channel no. 1)–
                               15 (channel no. 16)

FORMAT NO.  01111100 (7CH)
              01001100 (4CH) "L"
              01001101 (4DH) "M"
              00100000 (20H) space
              00100000 (20H) space
              00111000 (38H) "8"
              00110011 (33H) "3"
              00110111 (37H) "7" ("4")
              00110110 (36H) "6" ("4")

DATA NAME   01010011 (53H) "S"
              00100000 (20H) space

EOX         11110111 (F7H)
```

6 BANK CHANGE REQUEST

Can be received on the MIDI channel set in the currently active bank.

When received the specified bank is selected.

Peut être reçu sur le canal MIDI fixé dans le bank actif. Lorsque ce message est reçu, le bank spécifié est sélectionné.

Kann auf dem MIDI-Kanal empfangen werden, der für die derzeit aktive Bank eingestellt wurde.

Bei Empfang wird die angegebene Bank gewählt.

```
STATUS      11110000 (F0H)
ID NO.      01000011 (43H)
SUB-STATUS  0020nnnn (2nH)  n=0 (channel no. 1)–
                               15 (channel no. 16)

FORMAT NO.  01111110 (7EH)
              01001100 (4CH) "L"
              01001101 (4DH) "M"
              00100000 (20H) space
              00100000 (20H) space
              00111000 (38H) "8"
              00110011 (33H) "3"
              00110111 (37H) "7" ("4")
              00110110 (36H) "6" ("4")

DATA NAME   01010101 (55H) "U"

BANK NO.    0mmmmmmm      m=bank 1–4 (1=A,
                               2=B, 3=C, 4=D)

EOX         11110111 (F7H)
```

Function ...	Transmitted	Recognized	Remarks
Basic Default	: 1 - 16	: 1 - 16	: memorized
Channel Changed	: 1 - 16	: 1 - 16	:
Mode Default	: x	: OMNloff/OMNlon	: memorized
Mode Messages	: x	: x	:
Mode Altered	: *****	: x	:
Note	: 0 - 127	: 0 - 127	: *1
Number : True voice	: *****	: x	:
Velocity Note ON	: o 9nH,v=0-127	: o v=0-127	:
Velocity Note OFF	: o 8nH,v=0-127	: x	:
After Key's	: x	: x	:
Touch Ch's	: x	: x	:
Pitch Bender	: x	: x	:
0 - 127	: o	: o	: *1
Control	:	:	:
Change	:	:	:
Prog	: o 0 - 127	: o 0 - 127	: *2
Change : True #	: *****	: 0 - 97	: 31-97:Cartridge
System Exclusive	: o	: o	: Setup data
System : Song Pos	: x	: x	:
System : Song Sel	: x	: x	:
Common : Tune	: x	: x	:
System : Clock	: x	: x	:
Real Time : Commands	: x	: x	:
Aux : Local ON/OFF	: x	: x	:
Aux : All Notes OFF	: x	: x	:
Mes- : Active Sense	: x	: x	:
sages:Reset	: x	: x	:
Notes	: *1 Each parameter can be assigned to any Control:		
	: Change or Note On number and these assignment		
	: tables can be stored in memory.		
	: *2 For program 1 - 128, memory #0 - #97 is		
	: selected.		

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO o : Yes
 Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO x : No

SPECIFICATIONS

General

Total Harmonic Distortion	Less than 0.01%, MONITOR OUT, EMPHASIS ON, @ +17dB, 1 kHz
Frequency Response	20 Hz – 20 kHz, +1, -3 dB
Dynamic Range	92 dB @ MONITOR OUT, EMPHASIS ON
Hum & Noise (stereo out)	-80 dB, MONITOR OUT, EMPHASIS ON, STEREO OFF
Maximum Voltage Gain (Digital)	
DIGITAL INPUT - DIGITAL OUT	+12 dB
DIGITAL INPUT - EFFECT SEND	+6 dB
A/D, D/A Conversion	16-bit linear
Sampling Frequency	44.1/48 kHz
Program Memory	Internal: 1 – 30 External Cartridge: 31 – 97

Mixing Parameters

Phase	Normal/Reverse
3-band EQ	EQ ON/OFF
Frequency	LOW: 32 Hz – 800 Hz, 29 steps MID: 250 Hz – 8 kHz, 31 steps HIGH: 1kHz – 18 kHz, 26 steps
Gain	LOW/MID/HIGH: ±15 dB, 1-dB steps
Q	LOW/MID/HIGH: 0.1 – 5.0, 0.1 increments
Type	LOW/HIGH: Peaking/Shelving
Channel ON/OFF	ON/OFF
Channel Level	Motorized Fader
Pan	17 positions

Effect Send (Channels 1 – 8)

Channel Effect Send	1 – 3
Pre/Post	SEND 1/SEND 2/SEND 3
Level	Channel Fader

Effect Master

Effect Send 1, 2	17 effects
Effect Send 3	8 effects
Effect Parameters	2 – 5 per effect
Return ON/OFF	Return 1, 2 & 3 ON/OFF
Return Level	Fader

Stereo Master Controls

Stereo ON/OFF	ON/OFF
Stereo Fader	Motor Drive

Compressor

Ratio	0% – 100%, 1% steps (ON/OFF)
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Functions

FOOT VOLUME, CHANNEL COPY, SOLO, FADER AUTO/MANUAL, FADE TIME, RAM CARTRIDGE INITIALIZE, DATA ENTRY & FOOT VOLUME EXCHANGE, DIGITAL PAD, BATTERY CHECK

Displays

Input Level	8-element peak LED meter (post EQ, pre fader)
Effect Send Level	8-element peak LED meter
Stereo Level	8-element peak LED meter x 2
Memory Number	2-digit 7-segment LED
Parameter Display	16-character x 2-line LCD, backlight

Rear Panel

Digital Input	DIGITAL INPUT, CD/DAT IN, AES/EBU IN, DIGITAL CASCADE IN, EFFECT RETURN
Word Clock Input	WORD CLK IN
Digital Output	EFFECT SEND, DIGITAL CASCADE OUT, DIGITAL OUT (XLR type, BNC), CD/DAT OUT, AES/EBU OUT
Word Clock Output	WORD CLK OUT
Analog Output	MONITOR OUT, PHONES
MIDI Connectors	IN, OUT, THRU
Control Connector	FOOT VOL
Controls	BIT SHIFT (COARSE, FINE), MONITOR LEVEL
Switches	POWER (ON/OFF), INPUT FORMAT (Y/S/M), EMPHASIS (ON/OFF), ROM SELECT (44.1 kHz/48 kHz), WORD CLK IN (A/B/C)

Power Requirements

U.S. & Canadian Models	120V AC, 60Hz
General Model	110 – 120/220 – 240V AC, 50/60Hz

Power Consumption

U.S. & Canadian Models	60W
General Model	60W

Dimensions (W x H x D)

480 x 139.4 x 435 mm
(18-7/8" x 5-1/2" x 17-1/8")

Weight

10.5 kg (23.1lbs.)

Supplied Accessories

RAM4 data cartridge x 1
Cascade cable x 1
Rack mount brackets x 1 set
D-SUB 25-pin cable x 1

• INPUT/OUTPUT SPECIFICATIONS

• DIGITAL INPUT SPECIFICATIONS

Input Connector	Format	Input Level	Connector Type
DIGITAL INPUT (Ch 1 – 8 Data, Bit Clock, Word Clock, Emphasis On/Off)	Yamaha DSP-LSI	RS-422 (Emphasis ON/OFF is TTL)	D-SUB 25P female
	Sony		
	Mitsubishi		
CD/DAT IN (Ch 7/8, automatically switched)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Pin Jack
AES/EBU IN (Ch 7/8, automatically switched)	AES/EBU (IEC1)	RS-422	XLR-3-31 type
DIGITAL CASCADE IN (Stereo In L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS RETURN (Return 3 L/R)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK IN	—	TTL	BNC

• DIGITAL OUTPUT SPECIFICATIONS

Input Connector	Format	Input Level	Connector Type
DIGITAL OUTPUT (Stereo Out L, Stereo Out R)	Sony	RS-422	XLR-3-32 Type X 2
		TTL	BNC X 2
CD/DAT OUT (Stereo Out L/R)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Pin Jack
AES/EBU OUT (Stereo Out L/R)	AES/EBU (IEC1)	RS-422	XLR-3-32 Type
DIGITAL CASCADE OUT (Stereo Out L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS SEND (Send 3, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK OUTPUT	—	TTL	BNC

• ANALOG OUTPUT SPECIFICATIONS

Output Connector	Output Impedance	Load Impedance	Output Level (@ 1 kHz)		Connector Type
			Rated Level	Max. Before Clipping	
MONITOR OUTPUT (Stereo Out L, Stereo Out R)	150Ω	10 kΩ lines	+4dB(1.23V)	+18dB(6.16V)	Phone Jack x 2 (unbalanced)
PHONES (Stereo Out L/R)	150Ω	8 Ω phones	0.5mW	12mW	Stereo Phone Jack (unbalanced)
		40Ω phones	1.7mW	42mW	

• 0 dB=0.775Vr.m.s

SPECIFICATIONS

Générales

Distorsion harmonique totale	Moins de 0,01%, MONITOR OUT, EMPHASIS ON à +17dB, 1 kHz
Réponse en fréquence	20 Hz à 20 kHz, +1, -3 dB
Plage dynamique	92 dB à MONITOR OUT, EMPHASIS ON
Ronflement & Bruit (STEREO OUT)	-80 dB, MONITOR OUT, EMPHASIS ON, STEREO OFF
Gain de tension maximal (Numérique)	DIGITAL INPUT – DIGITAL OUT +12 dB
	DIGITAL INPUT – EFFECT SEND +6 dB
Conversion A/N, N/A	Linéaire 16 bits
Fréquence d'échantillonnage	44,1/48 kHz
Mémoire de programme	Interne: 1 à 30 Externe: 31 à 97

Paramètres de mixage

Phase	Normale/Inversée
EQ, 3 bandes	EQ ON/OFF
Fréquence	LOW: 32 Hz à 800 Hz, 29 bonds MID: 250 Hz à 8 kHz, 31 bonds HIGH: 1 kHz à 18 kHz, 26 bonds
Gain	LOW/MID/HIGH: ±15 dB, bonds de 1 dB
Q	LOW/MID/HIGH: 0,1 à 5,0, incréments de 0,1
Type	LOW/HIGH: Ecrêtage/Coupure
Commutateur de canal	ON/OFF
Niveau de canal	Curseur motorisé
Pan	17 positions

Sortie d'effet (Canaux 1 à 8)

Sortie d'effet canal	1 à 3
PRE/POST	SEND 1/SEND 2/DEND 3
Niveau	Curseur de canal

Effet maître

Sortie d'effet 1, 2	17 effets
Sortie d'effet 3	8 effets
Paramètres d'effet	2 à 5 par effet
Retour ON/OFF	Retour 1, 2 et 3 ON/OFF
Niveau de retour	Curseur

Commandes stéréo maître

STEREO ON/OFF	ON/OFF
Curseur STEREO	Entraîné par moteur

Compresseur

Taux	0% à 100%, bonds de 1% (ON/OFF)
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Fonctions

Volume au pied, Copie de canal, Solo, Curseur auto/manuel Durée d'atténuation, Initialisation de cartouche RAM, Inversion entrée de donnée/commande au pied, Atténuation fixe numérique, Contrôle de pile

Affichages

Niveau d'entrée	Indicateur de crête à LED à 8 segments (après EQ, avant curseur)
Niveau de sortie d'effet	Indicateur de crête à LED à 8 segments
Niveau stéréo	Indicateur de crête à LED à 8 segments x 2
Numéro de mémoire	LED, à 2 chiffres, 7 segments
Paramètres	LCD, 16 caractères x 2 lignes, fond clair

Panneau arrière

Entrée numérique	DIGITAL INPUT, CD/DAT IN, AES/EBU IN, DIGITAL CASCADE IN, EFFECT RETURN, WORD CLK IN
Entrée horloge de mot	EFFECT SEND, DIGITAL CASCADE OUT, DIGITAL OUT (type XLR, BNC), CD/DAT OUT, AES/EBU OUT
Sortie numérique	WORD CLK OUT
Sortie horloge de mot	MONITOR OUT, PHONES
Sortie analogique	IN, OUT, THRU
Connecteur MIDI	FOOT VOL
Connecteur de commande	BIT SHIFT (COARSE, FINE), MONITOR LEVEL
Commandes	POWER (ON/OFF), INPUT FORMAT (Y/S/N), EMPHASIS (ON/OFF), ROM SELECT (44,1 kHz/48 kHz), WORD CLK IN (A/B/C)
Interrupteurs/commutateurs	

Allimentation

Modèle pour les USA et le Canada	120 V secteur, 60 Hz
Modèle universel	110–120/220–240 V secteur, 50/60 Hz

Consommation

Modèle pour les USA et le Canada	60 W
Modèle universel	60 W

Dimensions (L x H x P)

480 x 139,4 x 435 mm

Poids

10,5 kg

Accessoires fournis

Cartouche RAM4 x 1
Câble de mise en cascade x 1
Supports de montage x 1 jeu
Câble D-SUB à 25 broches x 1

• SPECIFICATIONS D'ENTREE/SORTIE

• SPECIFICATIONS D'ENTREE NUMERIQUE

Connecteur d'entrée	Format	Niveau d'entrée	Type de connecteur
DIGITAL INPUT (Ch1 – 8 Data, Bit Clock, Word Clock, Emphasis On/Off)	Yamaha DSP-LSI	RS-422 (EMPHASIS ON/OFF est TTL)	D-SUB 25 P, femelle
	Sony		
	Mitsubishi		
CD/DAT IN (Canaux 7/8 commutés automatiquement)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Jack à broche
AES/EBU IN (Canaux 7/8 commutés automatiquement)	AES/EBU (IEC1)	RS-422	Type XLR-3-31
DIGITAL CASCADE IN (Stereo In L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS RETURN (Return 3 L/R)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK IN	—	TTL	BNC

• SPECIFICATIONS DE SORTIE NUMERIQUE

Connecteur de sortie	Format	Niveau de sortie	Type de connecteur
DIGITAL OUTPUT (Stereo Out L, Stereo Out R)	Sony	RS-422	XLR-3-32 Type X 2
		TTL	BNC X 2
CD/DAT OUT (Stereo Out L/R)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Jack à broche
AES/EBU OUT (Stereo Out L/R)	AES/EBU (IEC1)	RS-422	Type XLR-3-31
DIGITAL CASCADE OUT (Stereo Out L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS SEND (Send 3, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK OUTPUT	—	TTL	BNC

• SPECIFICATIONS DE SORTIE ANALOGIQUE

Connecteur de sortie	Impédance de sortie	Impédance de charge	Niveau de sortie (à 1 kHz)		Type de connecteur
			Niveau nominal	Maxi. avant écrêtage	
MONITOR OUTPUT (Stereo Out L, Stereo Out R)	150Ω	10 kΩ lignes	+4dB(1.23V)	+18dB(6.16V)	Prise jack x 2 (asymétrique)
PHONES (Stereo Out L/R)	150Ω	8 Ω casque d'écoute	0.5mW	12mW	Prise jack Stereo (asymétrique)
		40Ω casque d'écoute	1.7mW	42mW	

• 0 dB=0.775Vr.m.s

TECHNISCHE DATEN

Allgemeines

Gesamtklirrfaktor	Unter 0,01%, MONITOR OUT, EMPHASIS ON bei 17 dB, 1kHz
Frequenzgang	20 Hz – 20 kHz, +1, -3 dB
Dynamikbereich	92 dB an MONITOR OUT, EMPHASIS ON
Rauschen (Stereo-Ausgang)	-80 dB, MONITOR OUT, EMPHASIS ON, STEREO OFF
Max. Spannungsverstärkung (Digital)	
DIGITAL INPUT - DIGITAL OUT	+12 dB
DIGITAL INPUT - EFFECT SEND	+ 6 dB
A/D, D/A-Umwandlung	16 Bit, linear
Abtastfrequenz	44,1/48 kHz
Programmspeicher	Intern: 1 – 30 Externe Datenkassette: 31 – 97

Mischparameter

Phase	Normal/Umgekehrt
3-Band-Entzerrer	EQ ON/OFF
Frequenz	LOW: 32 Hz – 800 kHz, 29 Schritte MID: 250 Hz – 8 kHz, 31 Schritte HIGH: 1 Hz – 18 kHz, 26 Schritte
Verstärkung	LOW/MID/HIGH: +15 dB, Schritte von 1 dB
Gütefaktor	LOW/MID/HIGH: 0,1 – 5,0, Schritte von 0,1
Filtertyp	LOW/HIGH Glocken/Kuhschwanz-Charakteristik
Kanal AN/AUS	ON/OFF
Kanalpegel	Motorisierte Fader
Pan	17 Positionen

Effect Send (Kanäle 1 – 8)

Kanal-Effektsendewege	1 – 3
Vor/Hinterfader-Abgriff	SEND 1/SEND 2/SEND 3
Pegel	Kanalfader

Effect Master

Effektschleife 1, 2	17 Effekte
Effektschleife 3	8 Effekte
Effektparameter	2 – 5 pro Effekt
Effektrückgabe AN/AUS	RETURN 1, 2 & 3 ON/OFF
Effekt-Rückgabepegel	Fader

Stereo-Mastersignalregler

Stereo-Summenschiene AN/AUS	ON/OFF
Stereo-Fader	Motorgetrieben

Kompressor

Kompression	0% – 100%, 1%-Schritte (ON/OFF)
-------------	---------------------------------

Funktionen

FOOT VOLUME (SCHWELLERFUNKTION),
CHANNEL COPY (KANALDATENKOPIERUNG), SOLO,
FADER AUTO/MANUAL, FADE TIME (ÜBERBLENDZEIT),
RAM CARTRIDGE INITIALIZE (CASSETTENINITIALISIERUNG),
DATA ENTRY & FOOT VOLUME EXCHANGE (FUNKTIONSAUSTAUSCH
ZWISCHEN DATA ENTRY-SCHIEBER UND SCHWELLER),
DIGITAL PAD (DIGITALEINGANGSDÄMPFUNG),
BATTERY CHECK (BATTERIEÜBERPRÜFUNG)

Anzeigen

Eingangspegel	LED-Spitzenwertanzeige mit 8 Segmenten (Abgriff hinter Entzerrer, vor Fader)
Effektsendepegel	LED-Spitzenwertanzeige mit 8 Segmenten
Stereopegel	LED-Spitzenwertanzeige mit 8 Segmenten
Speichernummer	Zweistellige LED-Anzeige aus 7 Segmenten
Parameteranzeige	Zweizeiliges LCD-Display für 16 Zeichen, beleuchtet

Rückseite

Digitaleingänge	DIGITAL INPUT, CD/DAT IN, AES/EBU IN, DIGITAL CASCADE IN, EFFECT RETURN
Datenwort-Taktgebereingang	WORD CLK IN
Digitalausgänge	EFFECT SEND, DIGITAL CASCADE OUT, DIGITAL OUT (XLR-Typ, BNC) CD/DAT OUT, AES/EBU OUT
Datenwort-Taktgebearausgang	WORD CLK OUT
Analogausgänge	MONITOR OUT, PHONES
MIDI-Anschlüsse	in, out, thru
Regler	BIT SHIFT (COARSE, FINE), MONITOR LEVEL
Tasten	POWER (ON/OFF), INPUT FORMAT (Y/S/M), EMPHASIS (ON/OFF), ROM SELECT (44,1/48 kHz), WORD CLK IN (A/B/C)

Stromversorgung

US & Kanada-Modell	120 V Wechselspannung, 60 Hz
Allgemeines Modell	110 – 120 V/220 – 240 V, 50/60 Hz

Leistungsaufnahme

US & Kanada-Modell	60 W
Allgemeines Modell	60 W

Abmessungen (B x H x T)

	480 mm x 139,4 mm x 435 mm
Gewicht	10,5 kg
Zubehör	RAM4-Datenkassette x 1 Kaskadenkabel x 1 Rack-Montagehalterungen x 1 Satz D-SUB 25-Stift Kabel x 1

• EIN/AUSGANGSDATEN

• DIGITAL-EINGANGSDATEN

Eingangsanschluß	Format	Eingangspegel	Anschlußtyp
DIGITAL INPUT (Ch1 – 8 Data, Bit Clock, Word Clock, Emphasis On/Off)	Yamaha DSP-LSI	RS-422 (Emphasis ON/OFF = TTL)	D-SUB 25-Stift Steckbuchse
	Sony		
	Mitsubishi		
CD/DAT In (Kanäle 7/8 aut. umgeschaltet)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Stiftbuchse
AES/EBU IN (Kanäle 7/8 aut. umgeschaltet)	AES/EBU (IEC1)	RS-422	XLR-3-31 Anschluß
DIGITAL CASCADE IN (Stereo In L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS RETURN (Return 3 L/R)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK IN	—	TTL	BNC

• XLR-3-31 Anschluß

Eingangsanschluß	Format	Eingangspegel	Anschlußtyp
DIGITAL OUTPUT (Stereo Out L, Stereo Out R)	Sony	RS-422	XLR-3-32 Type X 2
		TTL	BNC X 2
CD/DAT OUT (Stereo Out L/R)	AES/EBU (IEC1)	0.5Vp-p/75Ω	Stiftbuchse
AES/EBU OUT (Stereo Out L/R)	AES/EBU (IEC1)	RS-422	XLR-3-32 Type
DIGITAL CASCADE OUT (Stereo Out L/R, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
EFFECTS SEND (Send 3, Word Clock)	Yamaha DSP-LSI	RS-422	DIN 8P
WORD CLK OUTPUT	—	TTL	BNC

• ANALOG-AUSGANGSDATEN

Ausgangsanschluß	Ausgangsimpedanz	Lastimpedanz	Ausgangspegel (bei 1 kHz)		Anschlußtyp
			Nominalpegel	Maximum Verzerrung	
MONITOR OUTPUT (Stereo Out L, Stereo Out R)	150 Ohm	10 kOhm Hochpegel	+4dB(1.23V)	+18dB(6.16V)	Klinkenbuchse x 2 (unsymmetrisch)
PHONES (Stereo Out L/R)	150 Ohm	8 Ohm Kopfhörer	0.5mW	12mW	Stereo-Klinkenbuchse (unsymmetrisch)
		40 Ohm Kopfhörer	1.7mW	42mW	

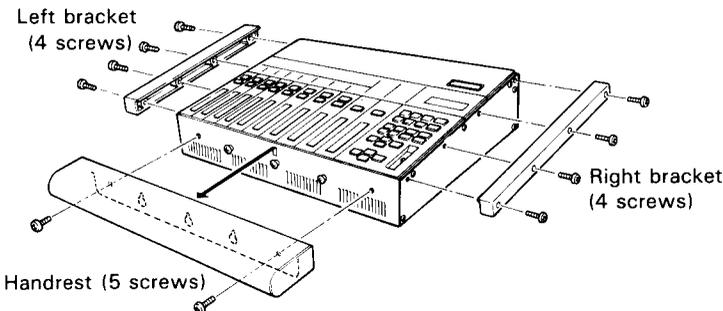
• 0 dB=0,775 Veff

SECTION 8: RACK-MOUNTING AND DATA CHARTS

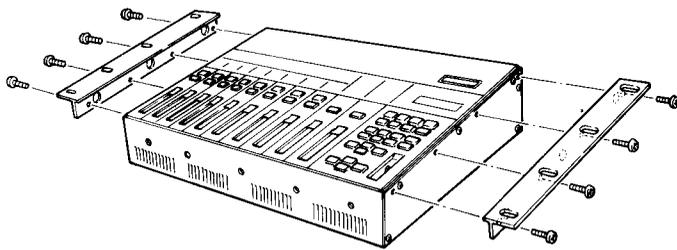
RACK-MOUNTING THE DMP7D

The DMP7D is supplied with a rack-mounting kit which allows it to be mounted in any standard 19" EIA equipment rack. To rack-mount the DMP7D, follow the steps given below:

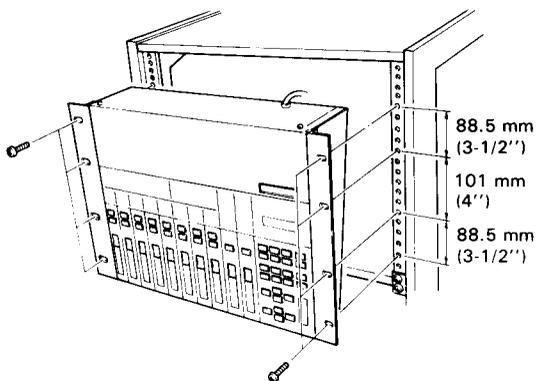
- 1 Remove the left and right side-bracket of the DMP7D by first removing the four screws that hold each bracket. Remove the outer two of the five screws holding the handrest, loosen the remaining three screws and you should be able to lift the handrest up and away from the main unit.



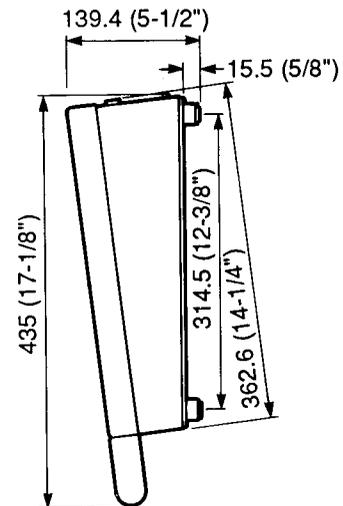
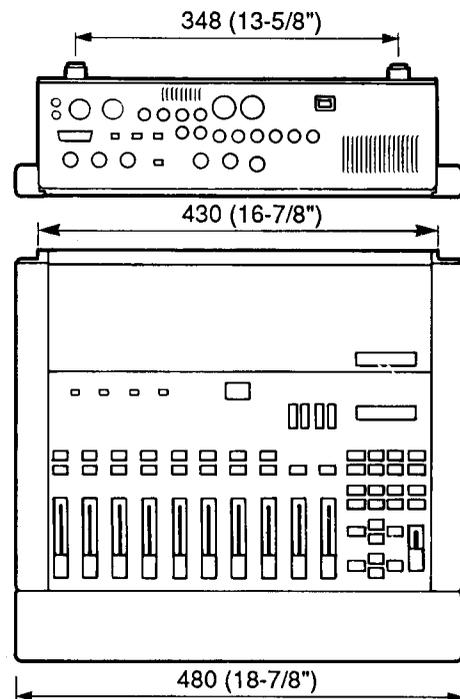
- 2 Attach the rack-mount brackets to the left and right sides of the DMP7D using the screws removed in step 1, above.



- 3 Mount the assembly into the rack using appropriate screws. Use screws in all eight screw holes.



DIMENSIONS



Unit : mm (Inch)

Note: To prevent possible overheating be sure to provide ventilation and leave sufficient space above, below and behind the unit for air circulation.

EFFECT CHART

TABLE DES EFFETS

EFFEKTABELLEN

NOTE

PARAMETER
PRESET VALUE
RANGE

NOTE

PARAMÈTRE
VALEUR PRÉREGLÉE
PLAGE

HINWEIS

PARAMETER
VOREINSTELLUNG
BEREICH

• SEND 1 & SEND 2 EFFECTS

No.	Program Name	Parameter				
		RT	HI	ID	HPF	LPF
1	REV 1 HALL	2.6 s	× 0.6	30.0 ms	THRU	8.0 kHz
		0.3 s ~ 99.0 s	× 0.1 ~ × 1.0	0.1 ms ~ 1000.0 ms	THRU, 32 Hz ~ 1000 Hz	1.0 kHz ~ 18.0 kHz, THRU
2	REV 2 ROOM	1.5 s	× 0.7	20.0 ms	THRU	8.0 kHz
		0.3 s ~ 99.0 s	× 0.1 ~ × 1.0	0.1 ms ~ 1000.0 ms	THRU, 32 Hz ~ 1000 Hz	1.0 kHz ~ 18.0 kHz, THRU
3	REV 3 VOCAL	2.4 s	× 0.5	45.0 ms	80 Hz	8.0 kHz
		0.3 s ~ 99.0 s	× × 1.0	0.1 ms ~ 1000.0 ms	THRU, 32 Hz ~ 1000 Hz	1.0 kHz ~ 18.0 kHz, THRU
4	REV 4 PLATE	1.8 s	× 0.7	10.0 ms	40 Hz	10.0 kHz
		0.3 s ~ 99.0 s	× 0.1 ~ × 1.0	0.1 ms ~ 1000.0 ms	THRU, 32 Hz ~ 1000 Hz	1.0 kHz ~ 18.0 kHz, THRU
5	FLANGE A	MOD FREQ	MOD DPTH	MOD DLY	F B GAIN	
		2.5 Hz	50 %	1.2 ms	35 %	
6	FLANGE B	MOD FREQ	MOD DPTH	MOD DLY	F B GAIN	
		0.5 Hz	90 %	1.0 ms	40 %	
7	CHORUS A	MOD FREQ	DM	AM		
		0.2 Hz	50 %	40 %		
8	CHORUS B	MOD FREQ	DM	AM		
		0.6 Hz	50 %	10 %		
9	PHASING	MOD FREQ	MOD DPTH	MOD DLY		
		1.1 Hz	100 %	3.0 ms		
10	TREMOLO	MOD FREQ	MOD DPTH			
		6.0 Hz	50 %			
11	SYMPHONIC	MOD FREQ	MOD DPTH			
		0.7 Hz	50 %			
12	EARLY REF. 1	TYPE	SIZE	LV	DLY	LPF
		HALL, RANDOM, REVERSE, PLATE	2.0	5	10.0 ms	13.0 kHz
13	EARLY REF. 2	TYPE	SIZE	LV	DLY	LPF
		HALL, RANDOM, REVERSE, PLATE	2.0	5	10.0 ms	13.0 kHz
14	GATE REVERB	TYPE	SIZE	LV	DLY	LPF
		HALL, RANDOM, REVERSE, PLATE	2.0	5	20.0 ms	6.3 kHz
15	REVERSE GATE	TYPE	SIZE	LV	DLY	LPF
		HALL, RANDOM, REVERSE, PLATE	3.3	5	25.0 ms	13.0 kHz
16	DELAY L & R	LD	LFG	RD	RFG	HI
		100.0 ms	0 %	200.0 ms	0 %	× 1.0
17	STEREO ECHO	LD	LFG	RD	RFG	HIGH
		170.0 ms	60 %	175.0 ms	58 %	× 0.9

• SEND 3 EFFECTS

No.	Program Name	Parameter				
		LD	LFG	RD	RFG	HIGH
1	STEREO ECHO	170.0 ms	60 %	175.0 ms	58 %	× 0.9
		0.1 ms ~ 175.0 ms	0 % ~ 99 %	0.1 ms ~ 175.0 ms	0 % ~ 99 %	× 0.1 ~ × 1.0
2	FLANGE	MOD FREQ	MOD DEPTH	MOD DLY	F B GAIN	
		2.5 Hz	50 %	1.2 ms	35 %	
		0.1 Hz ~ 20.0 Hz	0 % ~ 100 %	0.1 ms ~ 100.0 ms	0 % ~ 99 %	
3	CHORUS	MOD FREQ	DM	AM		
		0.2 Hz	50 %	40 %		
		0.1 Hz ~ 20.0 Hz	0 % ~ 100 %	0 % ~ 100 %		
4	PHASING	MOD FREQ	MOD DPTH	MOD DLY		
		1.1 Hz	100 %	3.0 ms		
		0.1 Hz ~ 20.0 Hz	0 % ~ 100 %	0.1 ms ~ 5.8 ms		
5	PANPOT	MOD FREQ	MOD DPTH			
		6.0 Hz	50 %			
		0.1 Hz ~ 20.0 Hz	0 % ~ 100 %			
6	EXTERNAL LEQ	F	G	Q		
		100 Hz	+0 dB	0.7		
		32 Hz ~ 800 Hz	-15 dB ~ +15 dB	0.1 ~ 5.0		
7	EXTERNAL MEQ	F	G	Q		
		1.0 kHz	+0 dB	0.7		
		250 Hz ~ 8.0 kHz	-15 dB ~ +15 dB	0.1 ~ 5.0		
8	EXTERNAL HEQ	F	G	Q		
		10.0 kHz	+0 dB	0.7		
		1.0 kHz ~ 18.0 kHz	-15 dB ~ +15 dB	0.1 ~ 5.0		

INITIAL DATA CHART

TABEAU DES DONNEES INITIALES

TABELLE DER VOR-EINGESTELLTEN DATEN

MIXING PROGRAM

PROGRAMME DE MIXAGE

MISCHPROGRAMM

PARAMETER		CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
PHASE		NORMAL	_____	_____	_____	_____	_____	_____	_____→
LOWEQ	FREQ.	100Hz	_____	_____	_____	_____	_____	_____	_____→
	GAIN	+0dB	_____	_____	_____	_____	_____	_____	_____→
	Q	0.7	_____	_____	_____	_____	_____	_____	_____→
	P/S	PEAK	_____	_____	_____	_____	_____	_____	_____→
MIDREQ	FREQ.	1.0kHz	_____	_____	_____	_____	_____	_____	_____→
	GAIN	+0dB	_____	_____	_____	_____	_____	_____	_____→
	Q	0.7	_____	_____	_____	_____	_____	_____	_____→
HIEQ	FREQ.	10.0kHz	_____	_____	_____	_____	_____	_____	_____→
	GAIN	+0dB	_____	_____	_____	_____	_____	_____	_____→
	Q	0.7	_____	_____	_____	_____	_____	_____	_____→
	P/S	PEAK	_____	_____	_____	_____	_____	_____	_____→
EQ ON/OFF		ON	_____	_____	_____	_____	_____	_____	_____→
CH ON/OFF		ON	_____	_____	_____	_____	_____	_____	_____→
CH LEVEL		NOMINAL	_____	_____	_____	_____	_____	_____	_____→
PAN		CENTER	_____	_____	_____	_____	_____	_____	_____→
CH EFFECT	PRE/POST	POST	_____	_____	_____	_____	_____	_____	_____→
SEND 1	LEVEL	-∞	_____	_____	_____	_____	_____	_____	_____→
CH EFFECT	PRE/POST	POST	_____	_____	_____	_____	_____	_____	_____→
SEND 2	LEVEL	-∞	_____	_____	_____	_____	_____	_____	_____→
CH EFFECT	PRE/POST	POST	_____	_____	_____	_____	_____	_____	_____→
SEND 3	LEVEL	-∞	_____	_____	_____	_____	_____	_____	_____→

PARAMETER	SEND 1 (RETURN 1)	SEND 2 (RETURN 2)	SEND 3 (RETURN 3)
EFFECT SELECT	1 REV 1 HALL	7 CHORUS A	1 STEREO ECHO
EFFECT PARAMETER SETTING	RT = 2.6s	MOD FREQ = 0.2Hz	LD = 170.0ms
	HI = x0.6	DM = 50%	LFQ = 60%
	ID = 30.0ms	AM = 40%	RD = 175.0ms
	HPF = THRU		RFQ = 58%
	LPF = 8.0kHz		HIGH = x0.9
EFFECT RETURN LEVEL	-∞	_____	_____→
EFFECT RETURN ON/OFF	ON	_____	_____→

PARAMETER		
STEREO LEVEL		NOMINAL
STEREO ON/OFF		ON
COMPRESSOR	ON/OFF	OFF
	RATIO	50%

CONTROL NUMBER & PARAMETER NUMBER

NUMERO DE COMMANDE ET NUMERO DE PARAMETRE

STEUERELEMENTNUMMERN (CNTL) UND PARAMETERNUMMRN (PRM)

CNTL 0	PRM 205	CNTL 43	PRM 35	CNTL 86	PRM 156
CNTL 1	PRM 132	CNTL 44	PRM 36	CNTL 87	PRM 157
CNTL 2	PRM 133	CNTL 45	PRM 37	CNTL 88	PRM 158
CNTL 3	PRM 255	CNTL 46	PRM 38	CNTL 89	PRM 159
CNTL 4	PRM 135	CNTL 47	PRM 39	CNTL 90	PRM 160
CNTL 5	PRM 255	CNTL 48	PRM 40	CNTL 91	PRM 161
CNTL 6	PRM 134	CNTL 49	PRM 41	CNTL 92	PRM 162
CNTL 7	PRM 255	CNTL 50	PRM 42	CNTL 93	PRM 163
CNTL 8	PRM 0	CNTL 51	PRM 43	CNTL 94	PRM 164
CNTL 9	PRM 1	CNTL 52	PRM 44	CNTL 95	PRM 165
CNTL 10	PRM 2	CNTL 53	PRM 45	CNTL 96	PRM 166
CNTL 11	PRM 3	CNTL 54	PRM 46	CNTL 97	PRM 167
CNTL 12	PRM 4	CNTL 55	PRM 47	CNTL 98	PRM 255
CNTL 13	PRM 5	CNTL 56	PRM 48	CNTL 99	PRM 255
CNTL 14	PRM 6	CNTL 57	PRM 49	CNTL 100	PRM 255
CNTL 15	PRM 7	CNTL 58	PRM 50	CNTL 101	PRM 255
CNTL 16	PRM 8	CNTL 59	PRM 51	CNTL 102	PRM 169
CNTL 17	PRM 9	CNTL 60	PRM 52	CNTL 103	PRM 170
CNTL 18	PRM 10	CNTL 61	PRM 53	CNTL 104	PRM 171
CNTL 19	PRM 11	CNTL 62	PRM 54	CNTL 105	PRM 172
CNTL 20	PRM 12	CNTL 63	PRM 55	CNTL 106	PRM 173
CNTL 21	PRM 13	CNTL 64	PRM 138	CNTL 107	PRM 174
CNTL 22	PRM 14	CNTL 65	PRM 139	CNTL 108	PRM 175
CNTL 23	PRM 15	CNTL 66	PRM 140	CNTL 109	PRM 176
CNTL 24	PRM 16	CNTL 67	PRM 141	CNTL 110	PRM 177
CNTL 25	PRM 17	CNTL 68	PRM 142	CNTL 111	PRM 178
CNTL 26	PRM 18	CNTL 69	PRM 143	CNTL 112	PRM 179
CNTL 27	PRM 19	CNTL 70	PRM 144	CNTL 113	PRM 180
CNTL 28	PRM 20	CNTL 71	PRM 145	CNTL 114	PRM 181
CNTL 29	PRM 21	CNTL 72	PRM 147	CNTL 115	PRM 182
CNTL 30	PRM 22	CNTL 73	PRM 148	CNTL 116	PRM 183
CNTL 31	PRM 23	CNTL 74	PRM 149	CNTL 117	PRM 184
CNTL 32	PRM 24	CNTL 75	PRM 150	CNTL 118	PRM 186
CNTL 33	PRM 25	CNTL 76	PRM 136	CNTL 119	PRM 187
CNTL 34	PRM 26	CNTL 77	PRM 137	CNTL 120	PRM 188
CNTL 35	PRM 27	CNTL 78	PRM 146	CNTL 121	PRM 189
CNTL 36	PRM 28	CNTL 79	PRM 151	CNTL 122	PRM 190
CNTL 37	PRM 29	CNTL 80	PRM 168	CNTL 123	PRM 191
CNTL 38	PRM 30	CNTL 81	PRM 185	CNTL 124	PRM 192
CNTL 39	PRM 31	CNTL 82	PRM 152	CNTL 125	PRM 193
CNTL 40	PRM 32	CNTL 83	PRM 153	CNTL 126	PRM 194
CNTL 41	PRM 33	CNTL 84	PRM 154	CNTL 127	PRM 195
CNTL 42	PRM 34	CNTL 85	PRM 155		

NOTE NUMBER & PARAMETER NUMBER

NUMERO DE NOTE ET NUMERO DE PARAMETRE

NOTENNUMMERN (NOTE) UND PARAMETERNUMMERN (PRM)

NOTE 0	PRM 255	NOTE 43	PRM 85	NOTE 86	PRM 128
NOTE 1	PRM 255	NOTE 44	PRM 86	NOTE 87	PRM 129
NOTE 2	PRM 255	NOTE 45	PRM 87	NOTE 88	PRM 80
NOTE 3	PRM 255	NOTE 46	PRM 88	NOTE 89	PRM 81
NOTE 4	PRM 255	NOTE 47	PRM 89	NOTE 90	PRM 130
NOTE 5	PRM 255	NOTE 48	PRM 90	NOTE 91	PRM 131
NOTE 6	PRM 255	NOTE 49	PRM 91	NOTE 92	PRM 196
NOTE 7	PRM 255	NOTE 50	PRM 92	NOTE 93	PRM 197
NOTE 8	PRM 255	NOTE 51	PRM 93	NOTE 94	PRM 198
NOTE 9	PRM 255	NOTE 52	PRM 94	NOTE 95	PRM 199
NOTE 10	PRM 255	NOTE 53	PRM 95	NOTE 96	PRM 200
NOTE 11	PRM 255	NOTE 54	PRM 96	NOTE 97	PRM 201
NOTE 12	PRM 255	NOTE 55	PRM 97	NOTE 98	PRM 202
NOTE 13	PRM 255	NOTE 56	PRM 98	NOTE 99	PRM 203
NOTE 14	PRM 255	NOTE 57	PRM 99	NOTE 100	PRM 204
NOTE 15	PRM 255	NOTE 58	PRM 100	NOTE 101	PRM 255
NOTE 16	PRM 56	NOTE 59	PRM 101	NOTE 102	PRM 255
NOTE 17	PRM 57	NOTE 60	PRM 102	NOTE 103	PRM 255
NOTE 18	PRM 58	NOTE 61	PRM 103	NOTE 104	PRM 255
NOTE 19	PRM 59	NOTE 62	PRM 104	NOTE 105	PRM 255
NOTE 20	PRM 60	NOTE 63	PRM 105	NOTE 106	PRM 255
NOTE 21	PRM 61	NOTE 64	PRM 106	NOTE 107	PRM 255
NOTE 22	PRM 62	NOTE 65	PRM 107	NOTE 108	PRM 255
NOTE 23	PRM 63	NOTE 66	PRM 108	NOTE 109	PRM 255
NOTE 24	PRM 64	NOTE 67	PRM 109	NOTE 110	PRM 255
NOTE 25	PRM 65	NOTE 68	PRM 110	NOTE 111	PRM 255
NOTE 26	PRM 66	NOTE 69	PRM 111	NOTE 112	PRM 255
NOTE 27	PRM 67	NOTE 70	PRM 112	NOTE 113	PRM 255
NOTE 28	PRM 68	NOTE 71	PRM 113	NOTE 114	PRM 255
NOTE 29	PRM 69	NOTE 72	PRM 114	NOTE 115	PRM 255
NOTE 30	PRM 70	NOTE 73	PRM 115	NOTE 116	PRM 255
NOTE 31	PRM 71	NOTE 74	PRM 116	NOTE 117	PRM 255
NOTE 32	PRM 72	NOTE 75	PRM 117	NOTE 118	PRM 255
NOTE 33	PRM 73	NOTE 76	PRM 118	NOTE 119	PRM 255
NOTE 34	PRM 74	NOTE 77	PRM 119	NOTE 120	PRM 255
NOTE 35	PRM 75	NOTE 78	PRM 120	NOTE 121	PRM 255
NOTE 36	PRM 76	NOTE 79	PRM 121	NOTE 122	PRM 255
NOTE 37	PRM 77	NOTE 80	PRM 122	NOTE 123	PRM 255
NOTE 38	PRM 78	NOTE 81	PRM 123	NOTE 124	PRM 255
NOTE 39	PRM 79	NOTE 82	PRM 124	NOTE 125	PRM 255
NOTE 40	PRM 82	NOTE 83	PRM 125	NOTE 126	PRM 255
NOTE 41	PRM 83	NOTE 84	PRM 126	NOTE 127	PRM 255
NOTE 42	PRM 84	NOTE 85	PRM 127		

BLANK CHART**TABLEAU VIERGE****DATENÜBERSICHT**

YAMAHA DMP7D MIXING PROGRAM PROGRAMME DE MIXAGE MISCHPROGRAMM

MEMORY NO.
NUMERO DE MEMOIRE:
SPEICHER-NR:PROGRAM TITLE:
TITRE DU PROGRAMME:
PROGRAMMTITEL:DATE:
DATE:
DATUM:PROGRAMMER:
PROGRAMMEUR:
PROGRAMMIERER:

Parameter		CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
PHASE									
L O W E Q	FREQ.								
	GAIN								
	Q								
	P/S								
M I D E Q	FREQ.								
	GAIN								
	Q								
H I E Q	FREQ.								
	GAIN								
	Q								
	P/S								
EQ ON/OFF									
CH ON/OFF									
CH LEVEL									
PAN									
CH EFFECT	PRE/POST								
SEND 1	LEVEL								
CH EFFECT	PRE/POST								
SEND 2	LEVEL								
CH EFFECT	PRE/POST								
SEND 3	LEVEL								

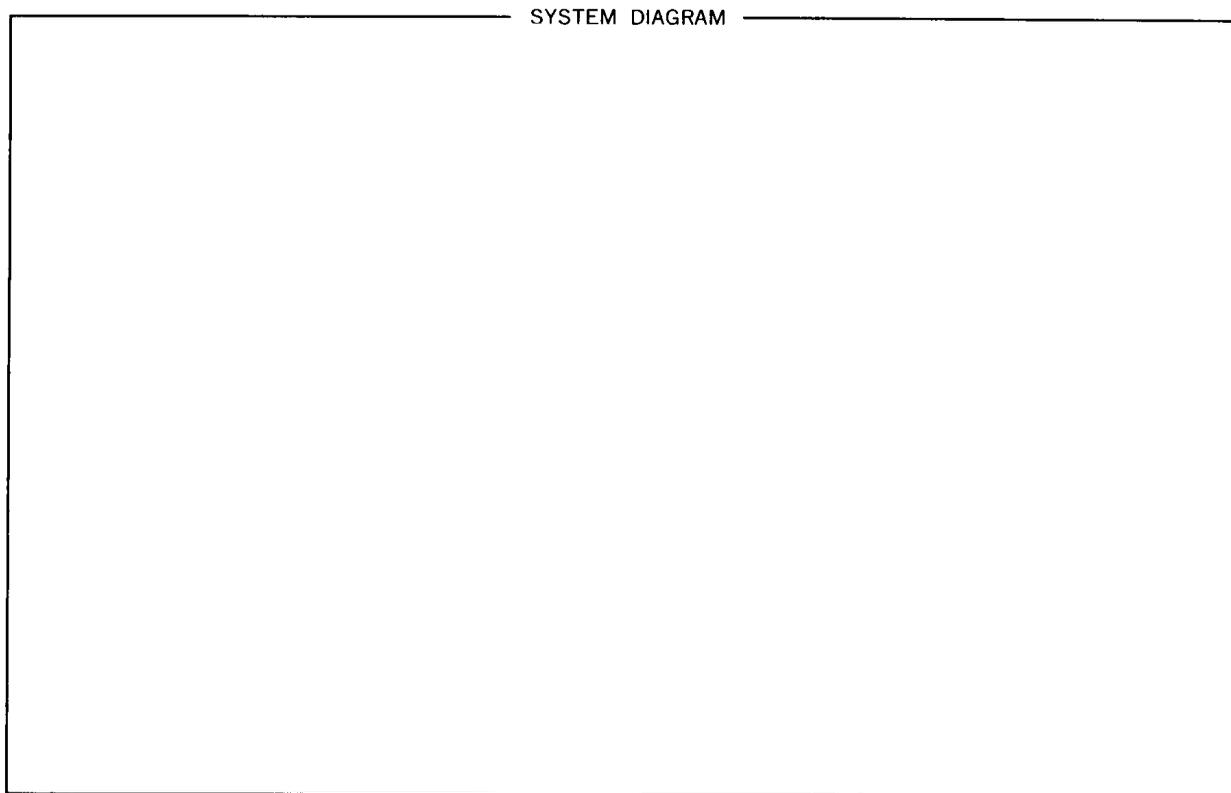
Parameter	SEND 1 (RETURN 1)	SEND 2 (RETURN 2)	SEND 3 (RETURN 3)
EFFECT SELECT			
EFFECT PARAMETER SETTING			
EFFECT RETURN LEVEL			
EFFECT RETURN ON/OFF			

Parameter		
STEREO LEVEL		
STEREO ON/OFF		
COMPRESSOR	ON/OFF	
	RATIO	

YAMAHA DMP7D SYSTEM SETTING REGLAGE DE SYSTEME SYSTEMEINSTELLUNG

CASCADE: Master/Slave INPUT FORMAT SW: ROM SELECT SW:

WORD CLK IN SW: EMPHASIS SW:



INPUT SOURCE	DIGITAL PAD	FADE TIME
CH1: _____	CH1: _____	CH1: _____
CH2: _____	CH2: _____	CH2: _____
CH3: _____	CH3: _____	CH3: _____
CH4: _____	CH4: _____	CH4: _____
CH5: _____	CH5: _____	CH5: _____
CH6: _____	CH6: _____	CH6: _____
CH7: _____	CH7: _____	CH7: _____
CH8: _____	CH8: _____	CH8: _____
RETURN: _____	RETURN: _____	STEREO: _____

YAMAHA DMP7D PROGRAM NAME

NOM DU PROGRAMME

PROGRAMMAMEN

DATE:
DATE:
DATUM:

PROGRAMMER:
PROGRAMMEUR:
PROGRAMMIERER:

Memory No.	PROGRAM NAME	Memory No.	PROGRAM NAME	Memory No.	PROGRAM NAME
1		34		67	
2		35		68	
3		36		69	
4		37		70	
5		38		71	
6		39		72	
7		40		73	
8		41		74	
9		42		75	
10		43		76	
11		44		77	
12		45		78	
13		46		79	
14		47		80	
15		48		81	
16		49		82	
17		50		83	
18		51		84	
19		52		85	
20		53		86	
21		54		87	
22		55		88	
23		56		89	
24		57		90	
25		58		91	
26		59		92	
27		60		93	
28		61		94	
29		62		95	
30		63		96	
31		64		97	
32		65			
33		66			



**PROGRAM CHANGE NUMBER & MEMORY NUMBER
NUMERO DE CHANGEMENT DE PROGRAME ET NUMERO DE MEMOIRE
PROGRAMMWECHSELNUMMER (PGM) & SPEICHERNUMMER (MEM)**

BANK:
BANQUE:
BANK:

MIDI CHANNEL:
CANAL MIDI:
MIDI-KANAL:

DATE:
DATE:
DATUM:

PROGRAMMER:
PROGRAMMEUR:
PROGRAMMIERER:

PGM 1	MEM	PGM 44	MEM	PGM 87	MEM
PGM 2	MEM	PGM 45	MEM	PGM 88	MEM
PGM 3	MEM	PGM 46	MEM	PGM 89	MEM
PGM 4	MEM	PGM 47	MEM	PGM 90	MEM
PGM 5	MEM	PGM 48	MEM	PGM 91	MEM
PGM 6	MEM	PGM 49	MEM	PGM 92	MEM
PGM 7	MEM	PGM 50	MEM	PGM 93	MEM
PGM 8	MEM	PGM 51	MEM	PGM 94	MEM
PGM 9	MEM	PGM 52	MEM	PGM 95	MEM
PGM 10	MEM	PGM 53	MEM	PGM 96	MEM
PGM 11	MEM	PGM 54	MEM	PGM 97	MEM
PGM 12	MEM	PGM 55	MEM	PGM 98	MEM
PGM 13	MEM	PGM 56	MEM	PGM 99	MEM
PGM 14	MEM	PGM 57	MEM	PGM 100	MEM
PGM 15	MEM	PGM 58	MEM	PGM 101	MEM
PGM 16	MEM	PGM 59	MEM	PGM 102	MEM
PGM 17	MEM	PGM 60	MEM	PGM 103	MEM
PGM 18	MEM	PGM 61	MEM	PGM 104	MEM
PGM 19	MEM	PGM 62	MEM	PGM 105	MEM
PGM 20	MEM	PGM 63	MEM	PGM 106	MEM
PGM 21	MEM	PGM 64	MEM	PGM 107	MEM
PGM 22	MEM	PGM 65	MEM	PGM 108	MEM
PGM 23	MEM	PGM 66	MEM	PGM 109	MEM
PGM 24	MEM	PGM 67	MEM	PGM 110	MEM
PGM 25	MEM	PGM 68	MEM	PGM 111	MEM
PGM 26	MEM	PGM 69	MEM	PGM 112	MEM
PGM 27	MEM	PGM 70	MEM	PGM 113	MEM
PGM 28	MEM	PGM 71	MEM	PGM 114	MEM
PGM 29	MEM	PGM 72	MEM	PGM 115	MEM
PGM 30	MEM	PGM 73	MEM	PGM 116	MEM
PGM 31	MEM	PGM 74	MEM	PGM 117	MEM
PGM 32	MEM	PGM 75	MEM	PGM 118	MEM
PGM 33	MEM	PGM 76	MEM	PGM 119	MEM
PGM 34	MEM	PGM 77	MEM	PGM 120	MEM
PGM 35	MEM	PGM 78	MEM	PGM 121	MEM
PGM 36	MEM	PGM 79	MEM	PGM 122	MEM
PGM 37	MEM	PGM 80	MEM	PGM 123	MEM
PGM 38	MEM	PGM 81	MEM	PGM 124	MEM
PGM 39	MEM	PGM 82	MEM	PGM 125	MEM
PGM 40	MEM	PGM 83	MEM	PGM 126	MEM
PGM 41	MEM	PGM 84	MEM	PGM 127	MEM
PGM 42	MEM	PGM 85	MEM	PGM 128	MEM
PGM 43	MEM	PGM 86	MEM		

YAMAHA DMP7D CONTROL NUMBER & PARAMETER NUMBER
NUMERO DE COMMANDE ET NUMERO DE PARAMETRE
STEUERELEMENTNUMMER (CNTL) UND PARAMETERNUMMERN

DATE:
 DATE:
 DATUM:

PROGRAMMER:
 PROGRAMMEUR:
 PROGRAMMIERER:

CNTL 0	PRM	CNTL 43	PRM	CNTL 86	PRM
CNTL 1	PRM	CNTL 44	PRM	CNTL 87	PRM
CNTL 2	PRM	CNTL 45	PRM	CNTL 88	PRM
CNTL 3	PRM	CNTL 46	PRM	CNTL 89	PRM
CNTL 4	PRM	CNTL 47	PRM	CNTL 90	PRM
CNTL 5	PRM	CNTL 48	PRM	CNTL 91	PRM
CNTL 6	PRM	CNTL 49	PRM	CNTL 92	PRM
CNTL 7	PRM	CNTL 50	PRM	CNTL 93	PRM
CNTL 8	PRM	CNTL 51	PRM	CNTL 94	PRM
CNTL 9	PRM	CNTL 52	PRM	CNTL 95	PRM
CNTL 10	PRM	CNTL 53	PRM	CNTL 96	PRM
CNTL 11	PRM	CNTL 54	PRM	CNTL 97	PRM
CNTL 12	PRM	CNTL 55	PRM	CNTL 98	PRM
CNTL 13	PRM	CNTL 56	PRM	CNTL 99	PRM
CNTL 14	PRM	CNTL 57	PRM	CNTL 100	PRM
CNTL 15	PRM	CNTL 58	PRM	CNTL 101	PRM
CNTL 16	PRM	CNTL 59	PRM	CNTL 102	PRM
CNTL 17	PRM	CNTL 60	PRM	CNTL 103	PRM
CNTL 18	PRM	CNTL 61	PRM	CNTL 104	PRM
CNTL 19	PRM	CNTL 62	PRM	CNTL 105	PRM
CNTL 20	PRM	CNTL 63	PRM	CNTL 106	PRM
CNTL 21	PRM	CNTL 64	PRM	CNTL 107	PRM
CNTL 22	PRM	CNTL 65	PRM	CNTL 108	PRM
CNTL 23	PRM	CNTL 66	PRM	CNTL 109	PRM
CNTL 24	PRM	CNTL 67	PRM	CNTL 110	PRM
CNTL 25	PRM	CNTL 68	PRM	CNTL 111	PRM
CNTL 26	PRM	CNTL 69	PRM	CNTL 112	PRM
CNTL 27	PRM	CNTL 70	PRM	CNTL 113	PRM
CNTL 28	PRM	CNTL 71	PRM	CNTL 114	PRM
CNTL 29	PRM	CNTL 72	PRM	CNTL 115	PRM
CNTL 30	PRM	CNTL 73	PRM	CNTL 116	PRM
CNTL 31	PRM	CNTL 74	PRM	CNTL 117	PRM
CNTL 32	PRM	CNTL 75	PRM	CNTL 118	PRM
CNTL 33	PRM	CNTL 76	PRM	CNTL 119	PRM
CNTL 34	PRM	CNTL 77	PRM	CNTL 120	PRM
CNTL 35	PRM	CNTL 78	PRM	CNTL 121	PRM
CNTL 36	PRM	CNTL 79	PRM	CNTL 122	PRM
CNTL 37	PRM	CNTL 80	PRM	CNTL 123	PRM
CNTL 38	PRM	CNTL 81	PRM	CNTL 124	PRM
CNTL 39	PRM	CNTL 82	PRM	CNTL 125	PRM
CNTL 40	PRM	CNTL 83	PRM	CNTL 126	PRM
CNTL 41	PRM	CNTL 84	PRM	CNTL 127	PRM
CNTL 42	PRM	CNTL 85	PRM		

YAMAHA DMP7D NOTE NUMBER & PARAMETER NUMBER
NUMERO DE NOTE ET NUMERO DE PARAMETRE
NOTENNUMMERN (NOTE) UND PARAMETERNUMMERN

DATE:
 DATE:
 DATUM:

PROGRAMMER:
 PROGRAMMEUR:
 PROGRAMMIERER:

NOTE 0	PRM	NOTE 43	PRM	NOTE 86	PRM
NOTE 1	PRM	NOTE 44	PRM	NOTE 87	PRM
NOTE 2	PRM	NOTE 45	PRM	NOTE 88	PRM
NOTE 3	PRM	NOTE 46	PRM	NOTE 89	PRM
NOTE 4	PRM	NOTE 47	PRM	NOTE 90	PRM
NOTE 5	PRM	NOTE 48	PRM	NOTE 91	PRM
NOTE 6	PRM	NOTE 49	PRM	NOTE 92	PRM
NOTE 7	PRM	NOTE 50	PRM	NOTE 93	PRM
NOTE 8	PRM	NOTE 51	PRM	NOTE 94	PRM
NOTE 9	PRM	NOTE 52	PRM	NOTE 95	PRM
NOTE 10	PRM	NOTE 53	PRM	NOTE 96	PRM
NOTE 11	PRM	NOTE 54	PRM	NOTE 97	PRM
NOTE 12	PRM	NOTE 55	PRM	NOTE 98	PRM
NOTE 13	PRM	NOTE 56	PRM	NOTE 99	PRM
NOTE 14	PRM	NOTE 57	PRM	NOTE 100	PRM
NOTE 15	PRM	NOTE 58	PRM	NOTE 101	PRM
NOTE 16	PRM	NOTE 59	PRM	NOTE 102	PRM
NOTE 17	PRM	NOTE 60	PRM	NOTE 103	PRM
NOTE 18	PRM	NOTE 61	PRM	NOTE 104	PRM
NOTE 19	PRM	NOTE 62	PRM	NOTE 105	PRM
NOTE 20	PRM	NOTE 63	PRM	NOTE 106	PRM
NOTE 21	PRM	NOTE 64	PRM	NOTE 107	PRM
NOTE 22	PRM	NOTE 65	PRM	NOTE 108	PRM
NOTE 23	PRM	NOTE 66	PRM	NOTE 109	PRM
NOTE 24	PRM	NOTE 67	PRM	NOTE 110	PRM
NOTE 25	PRM	NOTE 68	PRM	NOTE 111	PRM
NOTE 26	PRM	NOTE 69	PRM	NOTE 112	PRM
NOTE 27	PRM	NOTE 70	PRM	NOTE 113	PRM
NOTE 28	PRM	NOTE 71	PRM	NOTE 114	PRM
NOTE 29	PRM	NOTE 72	PRM	NOTE 115	PRM
NOTE 30	PRM	NOTE 73	PRM	NOTE 116	PRM
NOTE 31	PRM	NOTE 74	PRM	NOTE 117	PRM
NOTE 32	PRM	NOTE 75	PRM	NOTE 118	PRM
NOTE 33	PRM	NOTE 76	PRM	NOTE 119	PRM
NOTE 34	PRM	NOTE 77	PRM	NOTE 120	PRM
NOTE 35	PRM	NOTE 78	PRM	NOTE 121	PRM
NOTE 36	PRM	NOTE 79	PRM	NOTE 122	PRM
NOTE 37	PRM	NOTE 80	PRM	NOTE 123	PRM
NOTE 38	PRM	NOTE 81	PRM	NOTE 124	PRM
NOTE 39	PRM	NOTE 82	PRM	NOTE 125	PRM
NOTE 40	PRM	NOTE 83	PRM	NOTE 126	PRM
NOTE 41	PRM	NOTE 84	PRM	NOTE 127	PRM
NOTE 42	PRM	NOTE 85	PRM		

YAMAHA

SERVICE

This product is supported by Yamaha's worldwide network of factory trained and qualified dealer service personnel. In the event of a problem, contact your nearest Yamaha dealer.

SERVICE APRES-VENTE

Le DMP7D est couvert par le réseau mondial de service après-vente Yamaha. En cas de problème, contactez le concessionnaire Yamaha le plus proche.

KUNDENDIENST

Dem DMP7D steht das weltweite Yamaha Kundendienstnetz mit qualifizierten Technikern zur Verfügung. Im Falle einer Störung sofort den Fachhandel in Ihrer Nähe benachrichtigen.