

BMXdigital

Mainframe Parts

TOP LEVEL ASSY #
99-1200-x

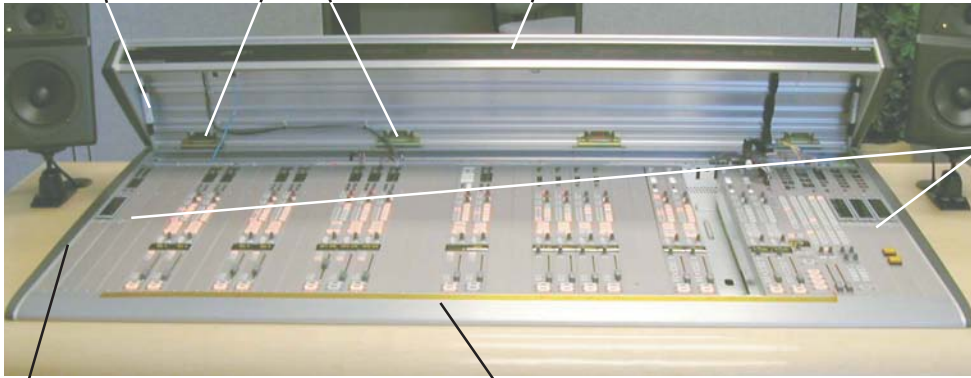
DASH NUMBER TABLE
(99-1200-x, etc.)
-0 = for BMXd-14
-1 = for BMXd-22
-2 = for BMXd-30
-3 = for BMXd-38
-8 = for BMXd-8

Gas Springs (two per frame):
80-27-0 (BMXd-8 & -14)
80-27-2 (BMXd-22)
80-27-3 (BMXd-30 & -38)
Spring Bushings:
33-330 (two per Gas Spring)

Hinges: 33-285
(two on BMXd-8 & -14,
three on BMXd-22,
four on BMXd-30 & -38)

Meter Panel Assy: 90-1157-x
(see page 2 for parts details)

CHASSIS PARTS, REAR
Upper, Rear panel: 80-1749-x
Lower, Rear Heat Sink: 80-1705-x
Wiring Access Cover Panels:
80-1708-1 (1 position)
80-1708-4 (4 position)
Rear Module support: 80-2100-x
Blank Panel (Netcard slot): 80-1865



Module Support Bracket parts:
80-1736 (3 mod wide fingers)
80-1743-2 (3 mod wide trim)
80-1741 (2 mod wide fingers)
80-1743-1 (2 mod wide trim)

CHASSIS, SIDE PARTS
Left End Plate: 80-1738-1
Right End Plate: 80-1738-2
Left Cosmetic Cover: 80-1768-1
Right Cosmetic Cover: 80-1768-2

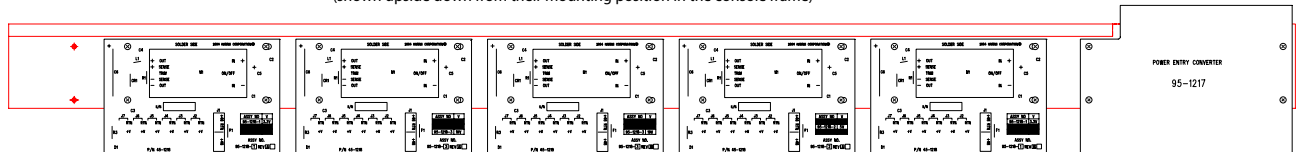
CHASSIS SUPPORT, FRONT
Front Panel: 80-1706-x
Module mtg bkt ("hens teeth"): 80-1709-x
Hand rest: 80-1728-x
Chassis Stiffner: 80-1782

CHASSIS, BOTTOM PARTS
Chassis plate: 80-2101-x
Bottom cover, front:
80-1733: BMXd-22, -30, -38
80-1733-0: BMXd-14
80-1733-8: BMXd-8
Bottom cover, Rear:
80-1734 (BMXd-22, -30, -38)
80-1734-0: BMXd-14
80-1734-8: BMXd-8
Bottom cover, left end:
80-2104-1 (BMXd-22)
80-2104-3 (BMXd-30)
80-2104-5 (BMXd-38)
Bottom cover, right end:
80-2104-2 (BMXd-22)
80-2104-4 (BMXd-30)
80-2104-6 (BMXd-38)

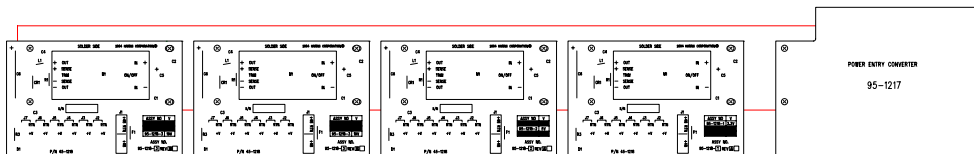
CABLING
CAT-5e (Internal): 90-1720
Memory Protection Assy: 90-1722
48 V, Ext. Power Cable: 90-1709
48V, Int Pwr Dist cable
90-1711: BMXd-22, -30, -38
90-1728 (BMXd-14)
90-1728-1 (BMXd-8)
Power Distribution cable assy
90-1200-0: BMXd-14
90-1200-1: BMXd-22, -38
90-1200-2: BMXd-30
90-1200-8: BMXd-8

CRATES
BMXd-8: 88-166-8
BMXd-14: 88-166
BMXd-22: 88-163
BMXd-30: 88-164
BMXd-38: 88-165

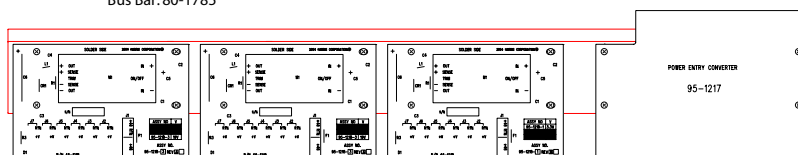
NEW POWER STICK ASSEMBLIES
using 95-1217 and 95-1218-x DC-DC Converters
(shown upside down from their mounting position in the console frame)



Power Stick Assembly for BMXd & Legacy-22, -30, -38: 90-1951-3
Bus Bar: 80-1723



Power Stick Assembly for BMXd & Legacy-14: 90-1951-2
Bus Bar: 80-1785



Power Stick Assembly for BMXd-8: 90-1951-1
Bus Bar: 80-1826

COMMON COMPONENTS
Power Entry Module: 95-1217
3.3V DC-DC Converter: 95-1218-1
5V DC-DC Converter: 95-1218-2
19V DC-DC Converter: 95-1218-3
Thermal pad: 80-1958
PCA screws: 38-78C
Standoff: 35-707

BMXdigital

Mainframe Parts

BMXdigital Meter Panel (90-1157-x, assy)



Clock (95-1178)
(not on BMXd-14)

Meters (95-1177)
(BMXdigital-8 only has two meters)

Event Timer (95-1179)

CABLING

Meter Signals Cable: 90-1705-x
Meter Names Ribbon Cable: 90-1706-x
Talkback/Timer Cable: 90-1707-x
Power Cable:
 90-1731-8 (BMXd-8)
 90-1731-1 (BMXd-14)
 90-1708 (BMXd-22, -30, -38)

MECHANICAL

Meter Panel Extrusion:
 80-1731-1 (BMXd-22)
 80-1731-2 (BMXd-30)
 80-1731-3 (BMXd-38)
 80-1824-0 (BMXd-14)
 80-1824-8 (BMXd-8)
Meter Window (Acrylic):
 80-1758-1 (BMXd-22)
 80-1758-2 (BMXd-30)
 80-1758-3 (BMXd-38)
 80-1825-0 (BMXd-14)
 80-1825-8 (BMXd-8)

Left End Plate: 80-1739-1
Left Trim Cover: 80-1767-1

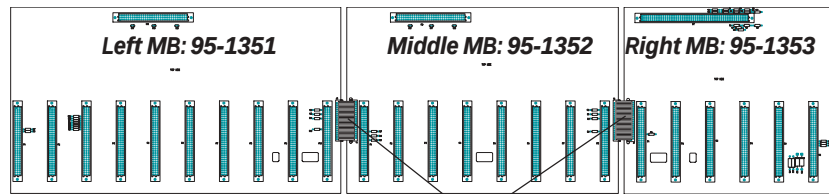
Right End Plate: 80-1739-2
Right Trim Cover: 80-1767-2

Conductive Gasket: 33-306
Window Fasteners: 80-1764 &
 80-1765 (with foam build-up)
Foam Tape: 80-1766

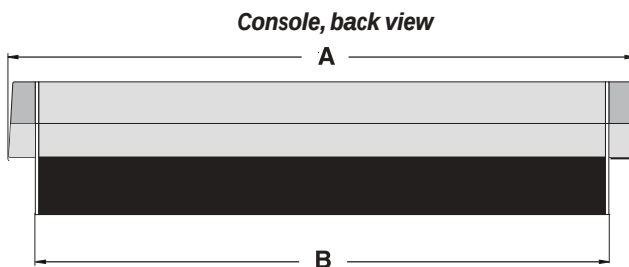
MOTHERBOARDS (BMXd-14 shown)

Motherboard Qty by Frame Size

MB #	-8	-14	-22	-30	-38
95-1351	1	1	1	1	1
95-1352	0	1	2	3	4
95-1353	1	1	1	1	1



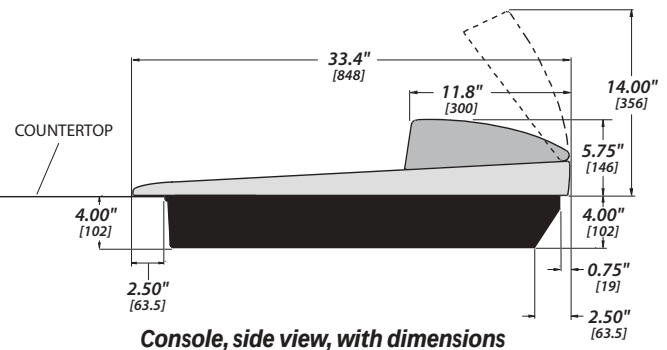
Flex Cable: 19-328



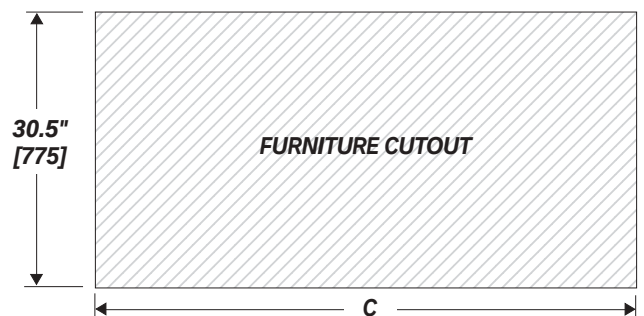
Dimension Table

Mainframe	A	B	C
BMXdigital-8	29.2" [742]	26.1" [663]	26.4" [671]
BMXdigital-14	42.0" [1067]	38.9" [988]	39.2" [996]
BMXdigital-22	54.8" [1392]	51.7" [1313]	52.0" [1321]
BMXdigital-30	67.6" [1717]	64.5" [1638]	64.8" [1646]
BMXdigital-38	80.4" [2042]	77.3" [1963]	77.6" [1971]

Millimeter dimensions in brackets. All dimensional tolerances are: +1/4" [6.4], -0" [0.0]. Typical setback from countertop edge to the front of the console is 12" [305]. There must be 14" [356] of clearance above the countertop to open up the meter panel.

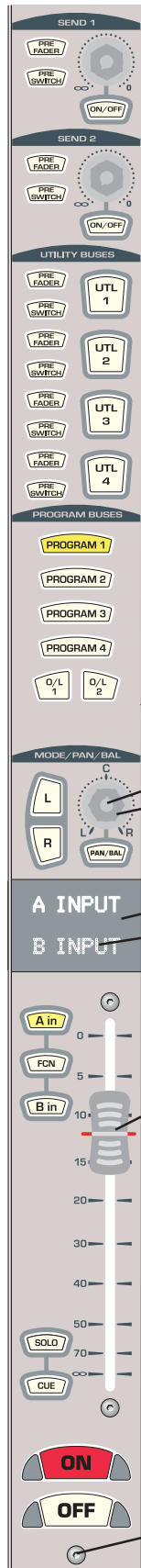


Console, side view, with dimensions



Universal Input Module

99-1152-1 (all controls), 99-1152-1N (Net-Only all controls) 99-1152-3 (no sends, utilities),
99-1152-3N (Net-Only no sends, utilities)



Pull tool: 70-43
Pull tool hole silver screws: 38-88

Faceplate Switchboard Assembly:
90-1714-1 (all controls),
90-1714-3 (no sends, utilities)

Rotary Knob: 32-725
Spacer: 33-67

Dual Display Lens: 80-1752
10-character display: 12-93

Fader assembly: 90-1713-1
Knob (silver): 32-726
Fader screws: 38-88

Module screws: 38-88

99-1152-1 Parts

Faceplate Assy: 90-1714-1

Main PCA: 95-1152-1

Connector PCA: 95-1162-1

99-1152-1N Parts

Faceplate Assy: 90-1714-1

Net-only Main PCA: 95-1152-5

Cover, connector holes: 80-1935

99-1152-3 Parts

Faceplate Assy: 90-1714-3

Main PCA: 95-1152-1

Connector PCA: 95-1162-1

99-1152-3N Parts

Faceplate Assy: 90-1714-3

Net-only Main PCA: 95-1152-5

Cover, connector holes: 80-1935

SPROM for all versions: 21-227-1

Flex cable: 19-327

Colored Fader Knobs

Silver (standard): 32-726

Red: 32-727

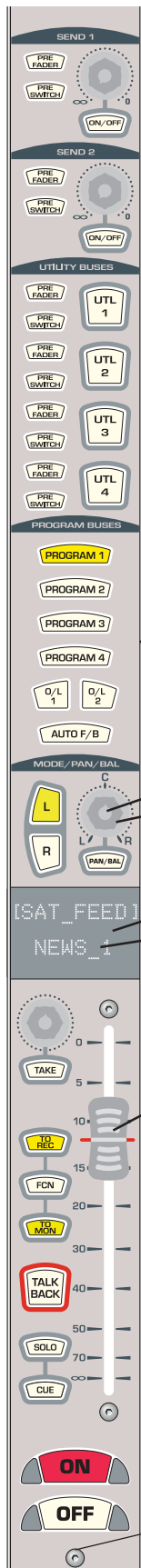
Green: 32-728

Blue: 32-729

Yellow: 32-730

Telco Module

99-1153-1 (all controls), 99-1153-1N (Net-Only all controls) 99-1153-3 (no sends, utilities),
99-1153-3N (Net-Only no sends, utilities)



Pull tool: 70-43
Pull tool hole silver screws: 38-88

Faceplate Switchboard Assembly:
90-1715-1 (all controls),
90-1715-3 (no sends, utilities)

Rotary Knob: 32-725
Spacer: 33-67

Dual Display Lens: 80-1752
10-character display: 12-93

Fader assembly: 90-1713-1
Knob (silver): 32-726
Fader screws: 38-88

Module screws: 38-88

99-1153-1 Parts

Faceplate Assy: 90-1715-1
Main PCA: 95-1152-2

99-1153-1N Parts

Faceplate Assy: 90-1715-1
Net-only Main PCA: 95-1152-5
Cover, connector holes: 80-1935

99-1153-3 Parts

Faceplate Assy: 90-1715-3
Main PCA: 95-1152-3

99-1153-3N Parts

Faceplate Assy: 90-1715-3
Net-only Main PCA: 95-1152-5
Cover, connector holes: 80-1935

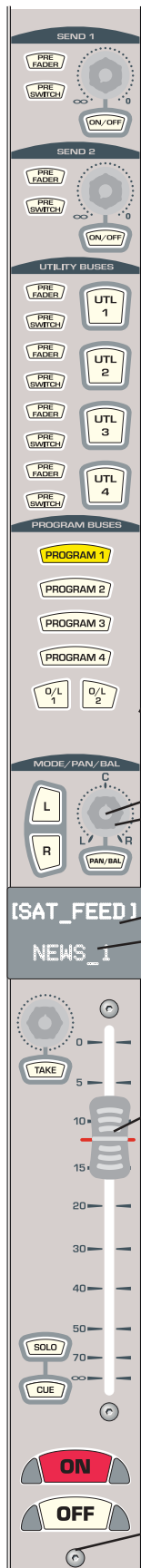
SPROM for all versions: 21-227-2
Flex cable: 19-327

Colored Fader Knobs

Silver (standard): 32-726
Red: 32-727
Green: 32-728
Blue: 32-729
Yellow: 32-730

Router (RLS) Module

99-1163-1 (all controls), 99-1163-1N (Net-Only all controls) 99-1163-3 (no sends, utilities),
99-1163-3N (Net-Only no sends, utilities)



Pull tool: 70-43
Pull tool hole silver screws: 38-88

Faceplate Switchboard Assembly:
90-1716-1 (all controls),
90-1716-3 (no sends, utilities)

Rotary Knob: 32-725
Spacer: 33-67

Dual Display Lens: 80-1752
10-character display: 12-93

Fader assembly: 90-1713-1
Knob (silver): 32-726
Fader screws: 38-88

Module screws: 38-88

99-1163-1 Parts

Faceplate Assy: 90-1716-1
Main PCA: 95-1152-3

99-1163-1N Parts

Faceplate Assy: 90-1716-1
Net-only Main PCA: 95-1152-5
Cover, connector holes: 80-1935

99-1163-3 Parts

Faceplate Assy: 90-1716-3
Main PCA: 95-1152-3

99-1163-3N Parts

Faceplate Assy: 90-1716-3
Net-only Main PCA: 95-1152-5
Cover, connector holes: 80-1935

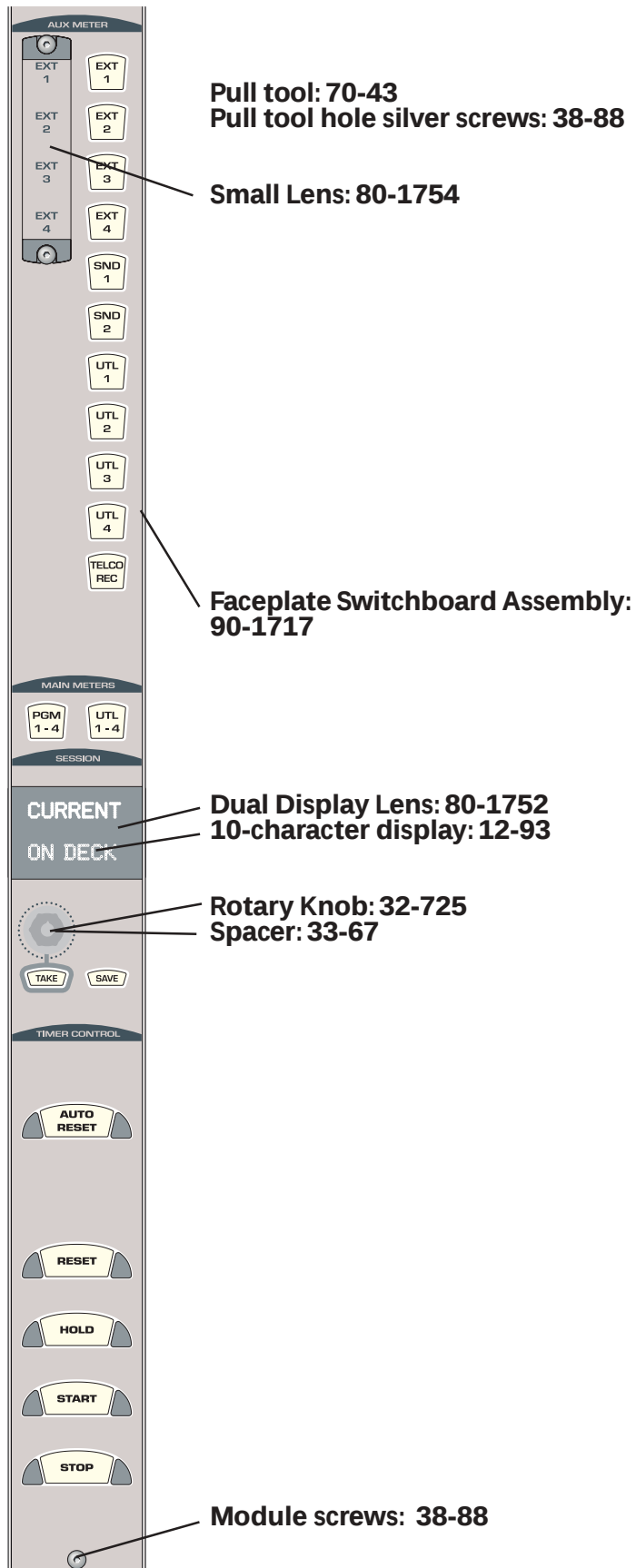
SPROM for all versions: 21-227-3
Flex cable: 19-327

Colored Fader Knobs

Silver (standard): 32-726
Red: 32-727
Green: 32-728
Blue: 32-729
Yellow: 32-730

Session Module

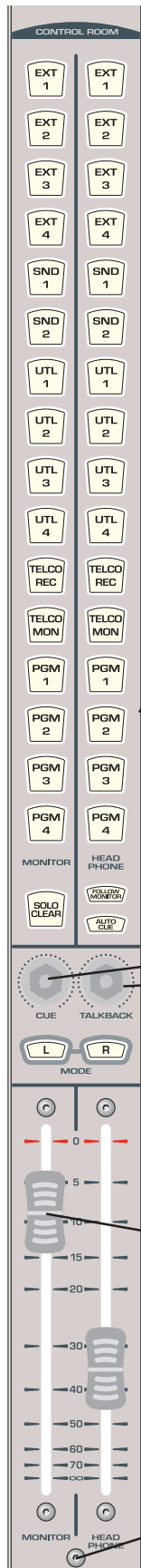
99-1159



Faceplate Assy: 90-1717
Main PCA: 95-1159-1
Connector PCA: 95-1170
Flex Cable: 19-327
SPROM: 21-227-4
SBC: 99-1800
Software: 72-1800

Control Room Module

99-1157



Pull tool: 70-43
Pull tool hole silver screws: 38-88

Faceplate Assy: 90-1719
Main PCA: 95-1157
Connector PCA: 95-1167

SPROM: 21-227-5
Flex cable: 19-327

Faceplate Switchboard Assembly:
90-1719

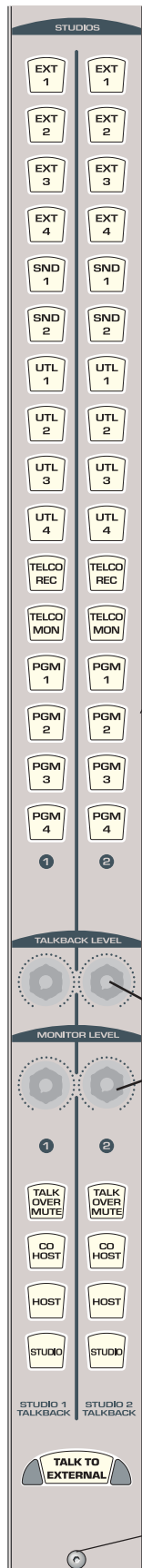
Rotary knobs: 32-725 (x2)
Space: 33-67 (x2)

Fader assembly: 90-1713-2 (x2)
Knob (silver): 32-726 (x2)
Fader screws: 38-88

Module screws: 38-88

Studio Module

99-1158



Pull tool: 70-43
Pull tool hole silver screws: 38-88

Faceplate Assy: 90-1718
Main PCA: 95-1158-1
Connector PCA: 95-1168-1

SPROM: 21-332-2
Flex Cable: 19-327

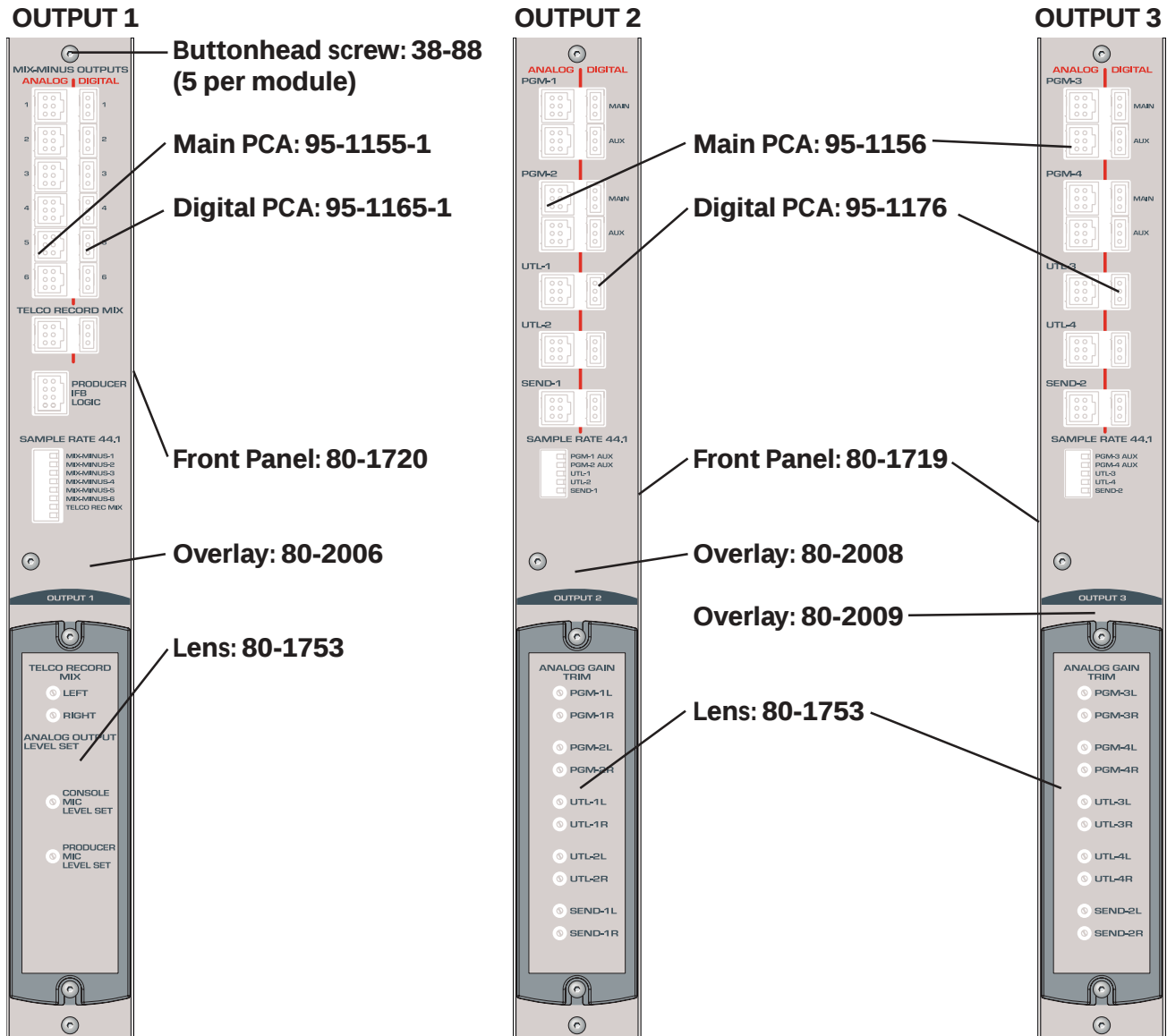
Faceplate Switchboard Assembly:
90-1718

Rotary Knob: 32-725 (x4)
Spacer: 33-67 (x4)

Module screws: 38-88

Output Modules

99-1155 (Output 1), 99-1156-1 (Output 2), 99-1156-2 (Output 3)



Other Replacement Parts

DIP switch (Output 2/3): 26-26

DIP switch (Output 1): 26-200

PC Board Support metal: 80-1746

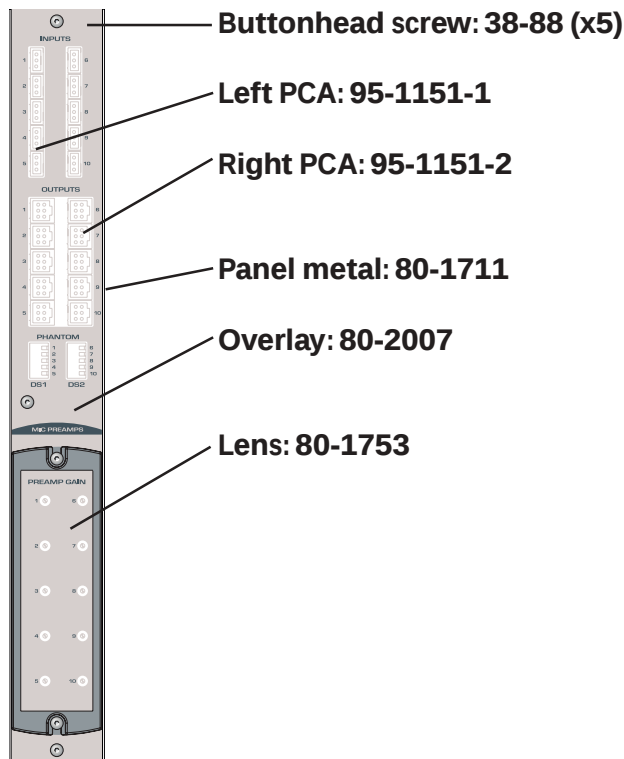
PROM (Output 1 only): 21-332-1

Thermal Pad: 31-11

Trimpots (all): 24-172

Mic Preamp Module

99-1151-1



Left PCA: 95-1151-1
 Right PCA: 95-1151-2
 Trimpot: 24-166
 DIPswitch: 26-26

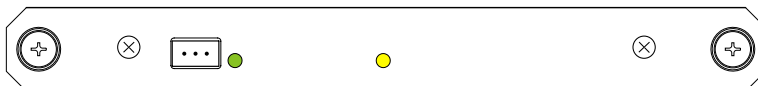
Support metal: 80-1746

Screw, Phillips 100 deg: 38-82
 Screw, 4-40 Phillips 38-78C

DSP Card

99-1355-1 (with External Reference connector, shown below)

99-1355-2 (standard, no Ext. Ref input)



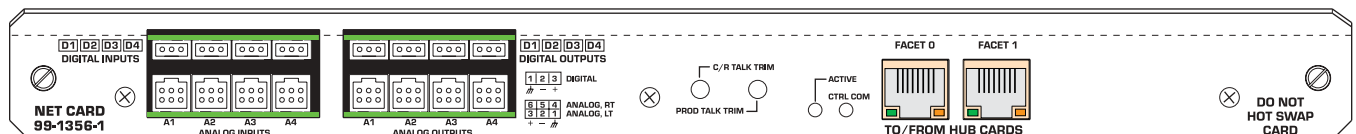
99-1355-1 Parts
 Cover metal: 80-1750-1
 PCA: 95-1355-1
 PROM: 21-227-13

99-1355-2 Parts
 Cover metal: 80-1750-2
 PCA: 95-1355-2
 PROM: 21-227-13

Net Card

99-1356-1 (without optical connectors, shown below)

99-1356-2 (with optical connectors)



99-1356-1 Parts
 Cover metal: 80-2102
 Main PCA: 95-1356-1
 Digital I/O PCA: 95-1359
 PROM: 21-234-1

99-1356-2 Parts
 Cover metal: 80-2103
 Main PCA: 95-1356-2
 Digital I/O PCA: 95-1359
 PROM: 21-234-1

Assemblies & Kit Parts

Parts, Assemblies & Modules

Harris #	Description or Use	Harris #	Description or Use
38-78C	Screw, 4-40 x 1/4" panhead with lockwasher	90-1715-3	Faceplate switchboard assembly
38-86	Screw, Flathead Phillips (PCA to switchboards)	95-1152-2	Main PCA
38-88	Screw, 4-40 x1/4" silver hex (modules and faders)	99-1155	Output 1 module
80-1752	Lens, 10-char. display cover (Inputs & Session modules)	95-1155-1	Main PCA
80-1753	Lens, trimpot cover (Outputs & Mic Pre modules)	95-1165-1	Connector PCA
80-1754	Lens, selector source names (Session module)	99-1156-1	Output 2 module
80-1935	Cover, connector openings (Net-Only modules)	95-1156	Main PCA
90-1201	Dual Power Supply frame (obsolete)	95-1176	Connector PCA
99-1201	48 VDC Power module (obsolete, slide-in style)		
90-1951-1	Power Stick Assembly for BMXd-8	99-1156-2	Output 3 module
90-1951-2	Power Stick Assembly for BMXd-14	95-1156	Main PCA
90-1951-3	Power Stick Assembly for BMXd-22, -30, -38	95-1176	Connector PCA
90-1704	Power Stick assy for BMXd-22, -30, -38 (obsolete)	99-1157	Control Room module
90-1709	30' Power cable (power supply to console)	90-1719	Faceplate switchboard assembly
90-1713-1	Fader Assembly (Input modules)	95-1157	Main PCA
90-1713-2	Fader Assembly (Control Room module)	95-1167	Connector PCA
90-1727	Power Stick assy for BMXd-14 (obsolete)	99-1158	Studio module
90-1734	Power Stick assy for BMXd-8 (obsolete)	90-1718	Faceplate switchboard assembly
95-1177	Stereo Bargraph Meter PCA	95-1158-1	Main PCA
95-1178	Clock PCA	95-1168-1	Connector PCA
95-1179	Event Timer PCA	99-1159	Session Module
95-1180-1	3.3 VDC Converter PCA (obsolete)	90-1717	Faceplate switchboard assembly
95-1180-2	5 VDC Converter PCA (obsolete)	95-1159-1	Main PCA
95-1180-3	19 VDC Converter PCA (obsolete)	95-1170	Connector PCA
95-1181	Power Entry PCA (obsolete)	99-1160-1	Master DSP card (non-VistaMax)
95-1218-1	3.3 VDC Converter PCA	95-1160-1	Main PCA
95-1218-2	5 VDC Converter PCA	99-1160-2	Slave DSP card (non-VistaMax)
95-1218-3	19 VDC Converter PCA	95-1160-2	Main PCA
95-1217	Power Entry PCA	99-1163-1	RLS Module
99-1100	Divider kit for two 12.25" blank panels	90-1716-1	Faceplate switchboard assembly
99-1101	Divider kit for three 12.25" blank panels	95-1152-3	Main PCA
99-1151-1	Microphone Preamp module, 10 Input	99-1163-3	RLS module w/o Sends & Utilities
95-1151-1	Left PCA (Mics 1 - 5)	90-1716-3	Faceplate switchboard assembly
95-1151-2	Right PCA (Mics 6 - 10)	95-1152-3	Main PCA
99-1152-1	Universal Input module	99-1177	Digital meter assembly
90-1714-1	Faceplate switchboard assembly	99-1201	48 VDC Power module (obsolete, slide-in style)
95-1152-1	Main PCA	99-1203	48 VDC Power Coupler (1RU)
95-1162-1	Input PCA	99-1205	48 VDC Power Supply (2RU)
99-1152-3	Universal Input module w/o Sends & Utilities	99-1355-1	DSP card (VistaMax), with Ext Ref input
90-1714-3	Faceplate switchboard assembly	99-1355-2	DSP card (VistaMax), without Ext Ref input
95-1152-1	Main PCA	99-1356-1	Net Card (without optical connections)
99-1153-1	Telco/Codec module	99-1356-2	Net Card (with optical connections)
90-1715-1	Faceplate switchboard assembly	99-1800	Single-board computer module
95-1152-2	Main PCA		(mounts on Session module)
99-1153-3	Telco/Codec module w/o Sends & Utilities		

Tool Kit Parts

Harris #	Description or Use	Qty.
38-88	Spare Button Head Screws	12
50-7	AA NiCad Batteries	3
70-126	AMP Crimp Tool	1
70-129	Extraction Tool	1
70-43	Module Pull Tool	1
70-90	Allen driver Hex Tool	1

Connector Kit Parts by Frame Size

P/N	Description	-8	-14	-22	-30	-38
14-482	1x3 Housing	40	54	70	86	102
14-484	2x3 Housing	57	80	86	102	118
14-486	2x4 Housing	1	1	1	1	1
14-492	2x7 Housing	7	15	15	19	19
14-494	2x8 Housing	2	2	2	2	2
14-513	2x12 Housing	12	20	36	55	71
15-938-1	Receptacle Contact	900	1250	1534	1966	2366