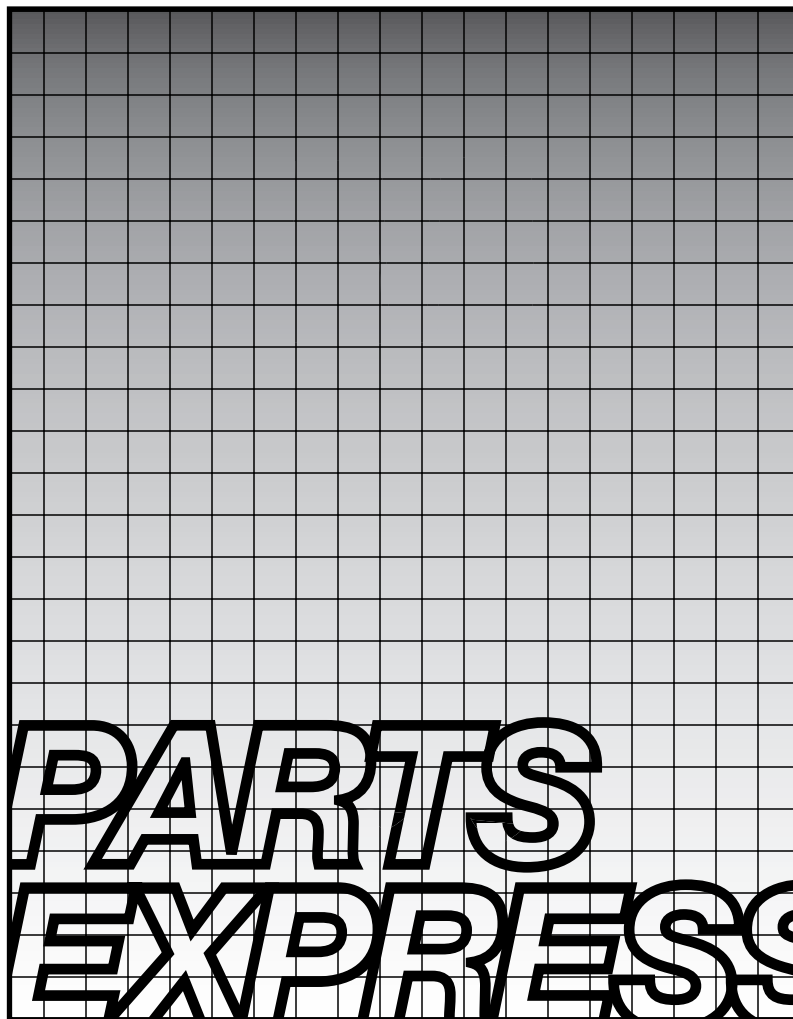


MPD[®] Series



Illustrated Parts Manual

Computer Programs

All Gilbarco computer programs (including software on diskettes and within memory chips) are copyrighted by, and shall remain the property of, Gilbarco Inc. Such computer programs may also contain trade secret information. The duplication, disclosure, modification, or unauthorized use of computer programs are strictly prohibited, unless otherwise licensed by Gilbarco.

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate this equipment.

Approvals:

Underwriters Laboratories:

Gilbarco pumps and dispensers that bear the U.L. listing mark are listed under the U.L. file number MH1941.

Weights and Measures:

Gilbarco pumps and dispensers are evaluated by the National Institute of Standards and Technology (NIST) under the National Type Evaluation Program (NTEP). NIST has issued Certificates of Conformance (COC) for the following:

Models	COC #
MPD-3 Series: AE, AL, AP, AU	87-077A2
MPD-1 Series: AF, AG, AN, AR	89-019A1

Patents

Gilbarco products are manufactured or sold under one or more of the following U.S. patents.

3,814,934	4,876,653	4,566,504	4,890,210	4,687,033	4,913,813	4,728,788
4,938,251	4,799,940	4,939,730	4,986,445	5,013,434	5,029,100	D.316,471

Additional U.S. and foreign patents pending.

Trademarks

The following are trademarks of Gilbarco Inc.:

The Advantage™	MPD®*	Proportional Flow Control Valve™	Super-Hi™	VaporVac™
G-SITE™	MPD Pro Blender™	Salesmaker™	Trimline®*	
Highline™	MPD Precision Blender™	Salesmaker Pro Blender™	Ultra-Hi™	

* Trimline® and MPD® are registered trademark of Gilbarco Inc.

Read NFPA 30A and NFPA 70.

Before servicing the equipment, the service person must read, understand and follow NFPA 30A and NFPA 70. The failure to service the equipment in accordance with NFPA 30A and NFPA 70 may adversely effect the safe use and operation of the system.

- For safe and proper equipment service, Gilbarco recommends that only the following contractors service pumps/dispensers
 - licensed electricians
 - trained and authorized contractors
- Service people must have full knowledge and complete understanding of servicing pumps and dispensers in accordance with the following:
 - National Electric Code (NFPA 70)
 - The Automotive and Marine Service Code (NFPA 30A)
 - Other state and local codes may also apply.
- Instructions for other equipment, such as submerged turbine pumps (STPs), shear valves, leak detectors, and underground tanks, must be provided by the equipment manufacturer. Gilbarco does not provide service instructions for other manufacturer's equipment.



**WARNING**



Dangerous environment.
Failure to service this
equipment in accordance with
NFPA 30A and NFPA 70 could
result in severe injury or death.
Read, understand and follow
NFPA 30A and NFPA 70.

This document is subject to change without notice.
For information regarding Gilbarco Literature call 910-547-5661.
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1. Please furnish model numbers (Hydraulics and Electronics) and date code of unit.
The Hydraulics model number and date code are stamped on a plate riveted to the inner side sheathing.
The Electronics model number is stamped on a plate riveted to the Electronics module.

Gilbarco
MPD
MFG. BY GILBARCO INC. GREENSBORO N.C. U.S.A.

MODEL

SERIAL NO.

HYDRAULIC MODEL NO.

UL UNDERWRITERS LABORATORIES INC ®

POWER OPERATED DISPENSING DEVICE FOR
FLAMMABLE LIQUIDS FOR USE ONLY WITH
UL LISTED INTERCHANGEABLE SERVICE STATION
TYPE HOSE NOZZLE VALVE

NO.



2. When ordering parts, supply the following information:

- Quantity needed
- Part number
- Description of part
- Color and Graphics for order entry items

When inquiring about part numbers by phone, please be prepared to reference the specifics from this manual.

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.
For CRIND™ Parts see PT-1736 CRIND Parts List.

Models Available



MPD®-1

Three-Grade, Four-Grade and Fixed Blender



MPD®-3

Three-Grade, Fixed Blender and Precision Blender



MPD®-3

Four-Grade



MPD Pro Blender™

MPD®-1 and MPD-3 • Hydraulics Breakdown

The model number is attached to a plate on the corresponding module.

	<u>ACUA</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>XXX</u>
Base Number _____								
A U.S.								
C Electronic Gas Pump/Dispenser								
U MPD®-1 and MPD-3								
A Standard Dispenser								
Class _____								
D Four-Hose, Two-Sided								
E Six-Hose, Two-Sided								
J Three-Hose, Single-Sided								
W Eight-Hose, Two-Sided								
X Four-Hose, Single-Sided								
Y Fixed Blender, Six-Hose, Two-Sided								
Z Fixed Blender, Three-Hose, Single-Sided								
Nozzle Boot and Totalizer _____								
B V/R Nozzle Boot, V/R Hook, U.S. Gallons								
J V/R Nozzle Boot, Standard Hook, U.S. Gallons								
K V/R Nozzle Boot, Standard Hook, Metric								
N V/R Nozzle Boot, Standard Hook, Imperial Gallons								
Hydraulic Function _____								
B Preset								
Major Revision _____								
J Universal Hydraulics								
K Universal Hydraulics, Co-axial								
CD Module and Vapor Fittings _____								
A Less Vapor Recovery Piping								
B Vapor Recovery, Gilbarco Discharge Fittings								
C Vapor Ready, Gilbarco Discharge Fittings								
D Vapor Recovery except right-hand positions (Gilbarco fittings)								
E Vapor Recovery, Emco-Wheaton Discharge Fittings								
F Vapor Ready, Emco-Wheaton Discharge Fittings								
H Vapor Recovery except right-hand position (Emco-Wheaton coaxial)								
J Vapor Ready except two (2) right-hand positions (Gilbarco fittings)								
K Vapor Ready except two (2) right-hand positions (Emco-Wheaton fittings)								
Product Code _____								
0 Standard								
B MPD-3, 17-inch Upper Housing								
Reference _____								

MPD®-1 • Electronics Breakdown

The model number is attached to a plate on the corresponding module.

	CP106	X	X	X	X	X	X	X
Base Number _____								
MPD-1 Modular Electronics								
Hose Configuration _____								
1 One-Hose, Single-Sided								
2 Four-Hose, Two-Sided								
3 Three-Hose, Single-Sided								
4 Four-Hose, Single-Sided								
6 Six-Hose, Two-Sided								
8 Eight-Hose, Two-Sided								
Source Voltage _____								
0 115VAC 60Hz								
2 230VAC 50/60Hz								
Main Display Configuration _____								
0 Two-Sided								
1 Single-Sided								
Display System _____								
0 Screened Image Displays, Decimals								
3 Screened Image Displays, Commas								
Customer Options _____								
0 Standard								
1 Customer Preset								
2 Cash/Credit								
3 Cash/Credit & Customer Preset								
Customer Option Location _____								
1 No Options								
2 Bezel Mounted Options								
3 External Option Location								
Special Options _____								
0 Standard								
Minor Options _____								
0 Standard								

MPD®-3 • Electronics Breakdown

The model number is attached to a plate on the corresponding module.

	CP2	X	X	X	X	X	X	X	X	X
Base Number _____										
Modular Electronics										
Series _____										
01 MPD-3										
02 MPD-3 with PMI bezel										
10 MPD-3 with PMI bezel/CRIND printer left										
20 MPD-3 with PMI bezel/CRIND printer right										
Hose Configuration _____										
2 Two-Hose, Two-Sided										
3 Three-Hose, Single-Sided										
4 Four-Hose, Two-Sided										
6 Six-Hose, Two-Sided										
8 Eight-Hose, Two-Sided										
A Four-Hose, Single-Sided										
Source Voltage _____										
0 115VAC 60Hz										
2 230VAC 50/60Hz										
PPU Display Configuration _____										
0 Single-Level PPUs										
1 Dual-Level PPUs										
Display System _____										
0 Screened Image Displays										
2 Liquid Crystal Displays see PT-1736 CRIND Parts List.										
Customer Options _____										
0 Standard										
1 Customer Preset										
2 Cash/Credit										
3 Cash/Credit & Customer Preset										
4 Cash/Credit Version 2										
5 Cash/Credit Version 2 (Hidden)										
6 Cash/Credit Version 2 (Hidden Controls and Credit PPU)										
7 Programmable Pump Preset										
Lighting options _____										
0 Without Lights										
1 With Lights										
Communication Configuration _____										
0 Standard Two-Wire/Standalone										
1 Four-Wire										
Minor Options _____										
0 Standard										

MPD Pro Blender™ • Hydraulics Breakdown

The model number is attached to a plate on the corresponding module.

	<u>ACUA</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>XXX</u>
Base Number _____								
A U.S.								
C Electronic Gas Pump/Dispenser								
U MPD-1 and MPD-3								
A Standard Dispenser								
Class _____								
1 Six Meters, 2 Blend Hoses, 2 Straight-Product Hoses, Two-Sided								
5 Three Meters, 1 Blend Hose, 1 Straight-Product Hose, One-Sided								
Nozzle Boot and Totalizer _____								
B V/R Nozzle Boot, V/R Hook, U.S. Gallons								
J V/R Nozzle Boot, Standard Hook, U.S. Gallons								
Hydraulic Function _____								
B Preset								
Major Revision _____								
O Original Release								
P New Hydraulics with Lisk Blend Valve								
CD Module and Vapor Fittings _____								
A Less Vapor Recovery								
G Blend At Nozzle								
L Less Vapor Recovery, Blend At Discharge Fitting								
D Vapor Recovery except right-hand positions (Gilbarco fittings)								
E Vapor Recovery, Emco-Wheaton Discharge Fittings								
F Vapor Ready, Emco-Wheaton Discharge Fittings								
H Vapor Recovery except right-hand position (Emco-Wheaton coaxial)								
J Vapor Ready except two (2) right-hand positions (Gilbarco fittings)								
K Vapor Ready except two (2) right-hand positions (Emco-Wheaton fittings)								
Product Code _____								
E MPD Pro Blender								
Reference _____								

MPD Pro Blender™ • Electronics Breakdown

The model number is attached to a plate on the corresponding module.

	CP5	X	X	X	X	X	X	X	X	X
Base Number _____										
Modular Electronics										
Series _____										
1 Pro Blender with CRIND, Printer Left										
3 Pro Blender										
Hose Configuration _____										
1 One-Hose										
2 Two-Hose										
4 Four-Hose										
Source Voltage _____										
0 115VAC 60Hz										
Display System _____										
2 Screened Image Main Display and Liquid Crystal PPU Display										
Customer Options _____										
0 Standard										
Fueling Positions _____										
0 Two-Sided										
1 Single-Sided										
Grade Configuration _____										
A Five Blends + 0 Straight Product										
B Four Blends + 0 Straight Product										
C Three Blends + 0 Straight Product										
3 Two Blends + 1 Straight Product										
4 Three Blends + 1 Straight Product										
5 Four Blends + 1 Straight Product										
6 Five Blends + 1 Straight Product										
Blend Code _____										
01 Programmable										
Special Options _____										
0 Standard Two-Wire										
2 Four-Wire										

MPD Precision Blender™ • Hydraulics Breakdown

The model number is attached to a plate on the corresponding module.

	<u>ACZA</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>XXX</u>
Base Number _____								
A U.S.								
C Electronic Gas Dispenser								
Z See Product Code								
A Standard Dispenser								
Class _____								
8 Three-Hose, Single-Sided								
9 Six-Hose, Two-Sided								
Nozzle Boot and Totalizer _____								
B V/R Nozzle Boot, V/R Hook, U.S. Gallons								
J V/R Nozzle Boot, Standard Hook, U.S. Gallons								
Hydraulic Function _____								
B Preset								
Major Revision _____								
P New Hydraulics with Lisk Blend Valve								
CD Module and Vapor Fittings _____								
A Less Vapor Recovery								
B Vapor Recovery, Gilbarco Discharge Fittings								
C Vapor Ready, Gilbarco Discharge Fittings								
Product Code _____								
R MPD Precision Blender with 17" Upper Housing								
S MPD Precision Blender with Standard Upper Housing								
Reference _____								

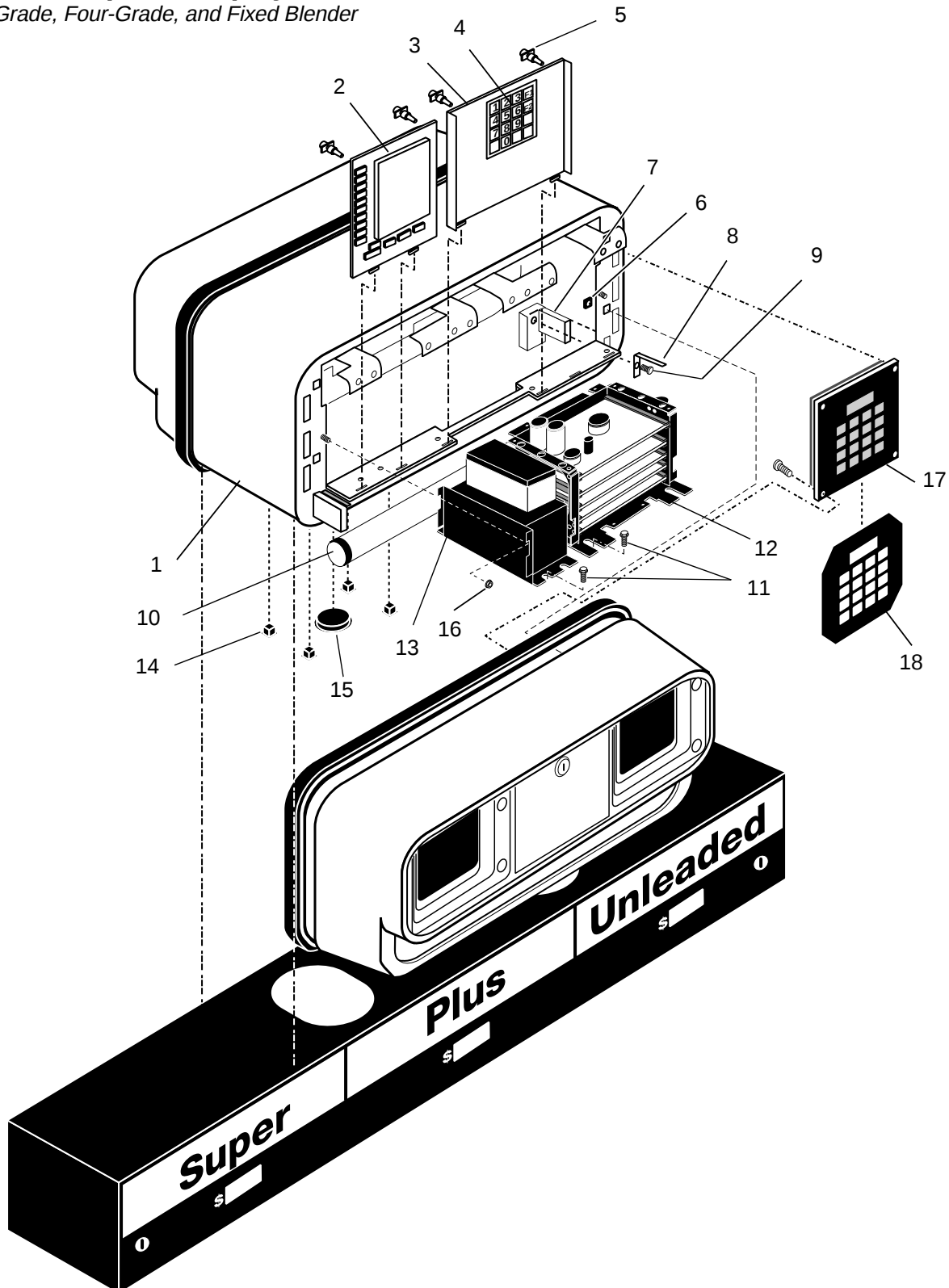
MPD Precision Blender™ • Electronics Breakdown

The model number is attached to a plate on the corresponding module.

	CP5	X	X	X	X	X	X	X	X
Base Number _____									
MPD-3 Blender Modular Electronics									
Series _____									
1 Precision Blender with CRIND™, Printer Left									
3 Precision Blender									
Hose Configuration _____									
3 Three-Hose, Single-Sided									
6 Six-Hose, Two-Sided									
Source Voltage _____									
0 115VAC 60Hz									
Display System _____									
0 Screened Image Main and PPU Displays									
Customer Options _____									
0 Standard									
2 Cash/Credit									
4 CRIND									
5 CRIND with Cash/Credit									
7 Programmable Pump Preset									
Fueling Positions _____									
1 Two-Sided									
2 Single-Sided									
Lighting Options _____									
0 Without Lighting									
1 With Lighting									
Blend Code _____									
01 Programmable									
Special Options _____									
0 Standard Two-Wire									

Plate 1.1 MPD®-1 Computer Display Module

Three-Grade, Four-Grade, and Fixed Blender

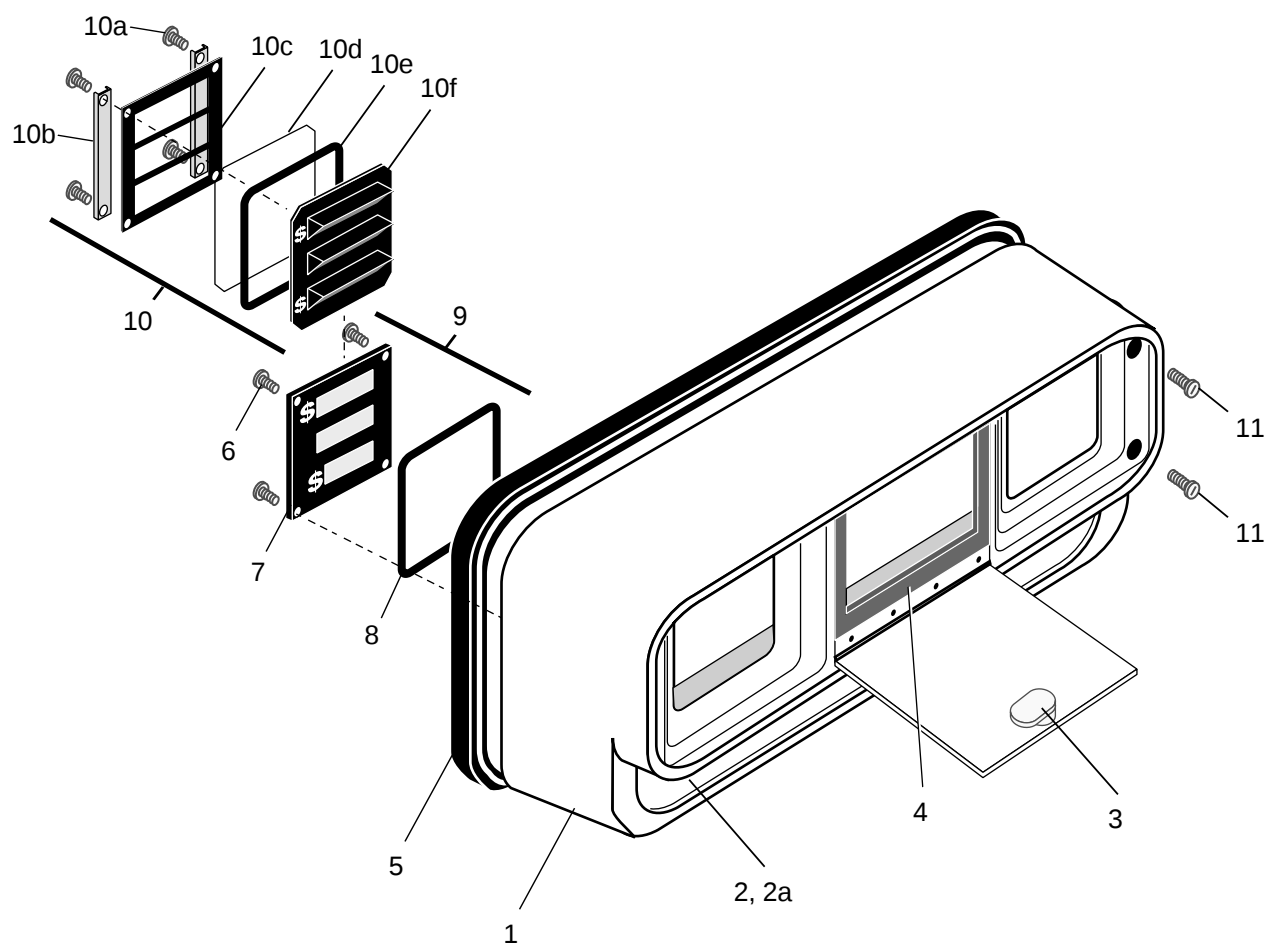


#	Part Description	Part Number	Qty.
1	Housing, Black	T16037-G2S6	1
	Housing, White	T16037-G2S9	1
2	SID Display Board, Decimal (domestic)	T16226-G3	-
	SID Display Board, Comma (export)	T16226-G1	-
3	Operator Panel Assembly	T17298-G2	1
4	Operator Membrane Switch	T17549-G1	1
5	Standoff 3/16"	Q10651-01	-
6	Nut Retainer	K75204	8
7	Lamp Socket	K87111	4
8	Leaf Spring	N21142	4
9	Screw #6-32 x 5/8"	Q11270-38	4
10	Fluorescent Lamp (modified with ground strips)	N21144-G1	2
11	Screw 10-32 x 1/2"	K85736-15	-
12	Modular Card Cage	See Plate 8	1
13	Modular Power Supply	See Plate 9	1
14	Square Plastic Plug	Q11867-01	8
15	Vent Plug	Q10554-13	2
16	Nut #10-32	Q12068-04	2
17	Programmable Preset Display Assembly	R19295-G2	1
18	Keypad Overlay	T17885-XX *	-
19	Keypad Overlay (generic English graphics)	T17885-01	-

* Order entry for graphics.

Plate 1.2 MPD®-1 Bezel

Three-Grade, Four-Grade, and Fixed Blender



#	Part Description	Part Number	Qty.
1	Bezel Assy. for SID Displays (includes 2-8)	T12641-GX *	2
	Bezel Assy. with Sunshades for SID Displays (includes 2-5, 10a-10f)	T16049-GX *	2
2	Brand Panel Plastic Cover ("L" shaped extruded plastic)	R15188-01	1
2a	Brand Panel (order entry for graphics)	RXXXXX-01 *	1
	Blank Brand Panel	R15189-01	1
3	Access Door and Lock Assy.	R15185-GX *	1
	Access Door and Lock Assy. (English with Gilbarco logo)	R15185-G1	1
	Access Door and Lock Assy. (blank, black without logo)	R15185-G13	1
3a	Lock and Key, (stainless steel)	Q10474-01	1
	Lock and Key (black)	Q10474-02	1
3b	Key	K89699-07	1
4	Access Door Gasket	R15181	1
5	Gasket ("U" shaped)	Q10546-02	1
6	Screw #6-20 x 1/2"	Q11657-26	4
7	Face Plate *	Order Entry	1
	Blanking Plate (black, not shown)	R15175	1
	Blanking Plate (grey, not shown)	R15175-02	1
8	Gasket	R15596	1
9	Bezel Glass Kits for SID Displays (includes 6-8)	Order Entry	**
	Bezel Glass Kit for SID Displays (U.S. gallons)	K89761	**
	Bezel Glass Kit for SID Displays (liters)	K90335	**
10	Sunshade Faceplate Kits (includes 10a-10f)	K92611-XX *	**
	Sunshade Faceplate Kit, U.S. Gallons (standard English graphics)	K92611-01	**
10a	Screw #6 x 3/8"	Q11657-24	4
10b	"U" Channel Stiffener	R17966-01	2
10c	Faceplate Clamp	R15180	1
10d	Lexan Faceplate Window	R17959-01	1
10e	Gasket	R15596-02	1
10f	Tiered Faceplate	T15101-XX *	1
11	Bezel Mounting Bolt 1/4-20 x 3-1/4"	Q11098-08	8
	Bezel Mounting Bolt 1/4-20 x 1-1/2" (behind door)	Q11098-09	2

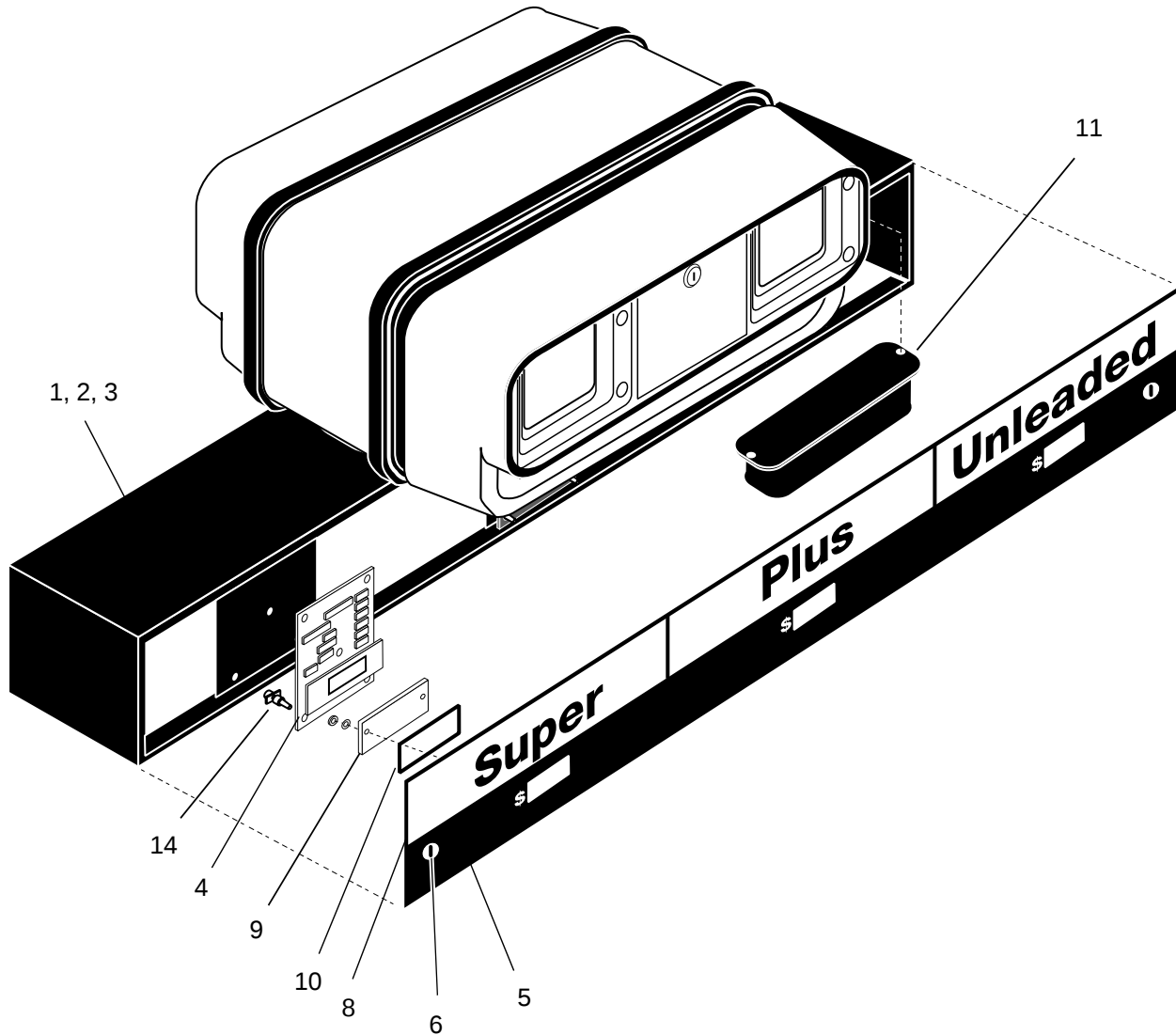
* Please specify color and graphics when ordering.

** As required.

Plate 1.3

MPD®-1 PPU Box

Three-Grade, Four-Grade, and Fixed Blender



#	Part Description	Part Number	Qty.
1	PPU Box Assembly (includes PPU boards, cables, panels)	T16575 *	1
2	Three Hose	T16575-G11	-
	Six Hose	T16575-G12	-
	Four Hose	T16575-G13	-
	Eight Hose	T16575-G14	-
3	PPU Box Only	T16576-G1 *	1
4	PPU Display Board	T15994-G1	**
	PPU Display Board (replaces T15994)	T17339-G1	**
	Cable For T17339-G1S (not shown)	R18393-G2	**
	PPU Board Replacement Kit (includes T17339-G1 & R18393-G2)	K93367	**
5	Panel Assembly Only, Three Grade	T15871-G1	2
	Panel Assembly Only, Blank	T15871-G2	2
	Panel Assembly Only, Four Grade	T15871-G3	2
6	Lock Assembly, Black	Q10474-02	4
	Lock Assembly, Stainless	Q10474-01	4
7	Key (not shown)	K89699-07	4
8	Brand Panel, Three Grade	R16080-02 *	2
	Brand Panel, Four Grade	R16080-03 *	2
9	PPU Filter Window	K92814	**
10	PPU Filter Window Gasket	K92815	**
11	Ballast (220-240VAC, 50 Hz)	Q10797-01	1
	Ballast (115VAC, 50/60 Hz)	Q10746-01	1
12	Gasket 42" x 1/2" (not shown)	R19268-02	**
13	Gasket 5" x 1/2" (not shown)	R19268-03	**
14	Circuit Board Support 1/2"	Q10651-04	-

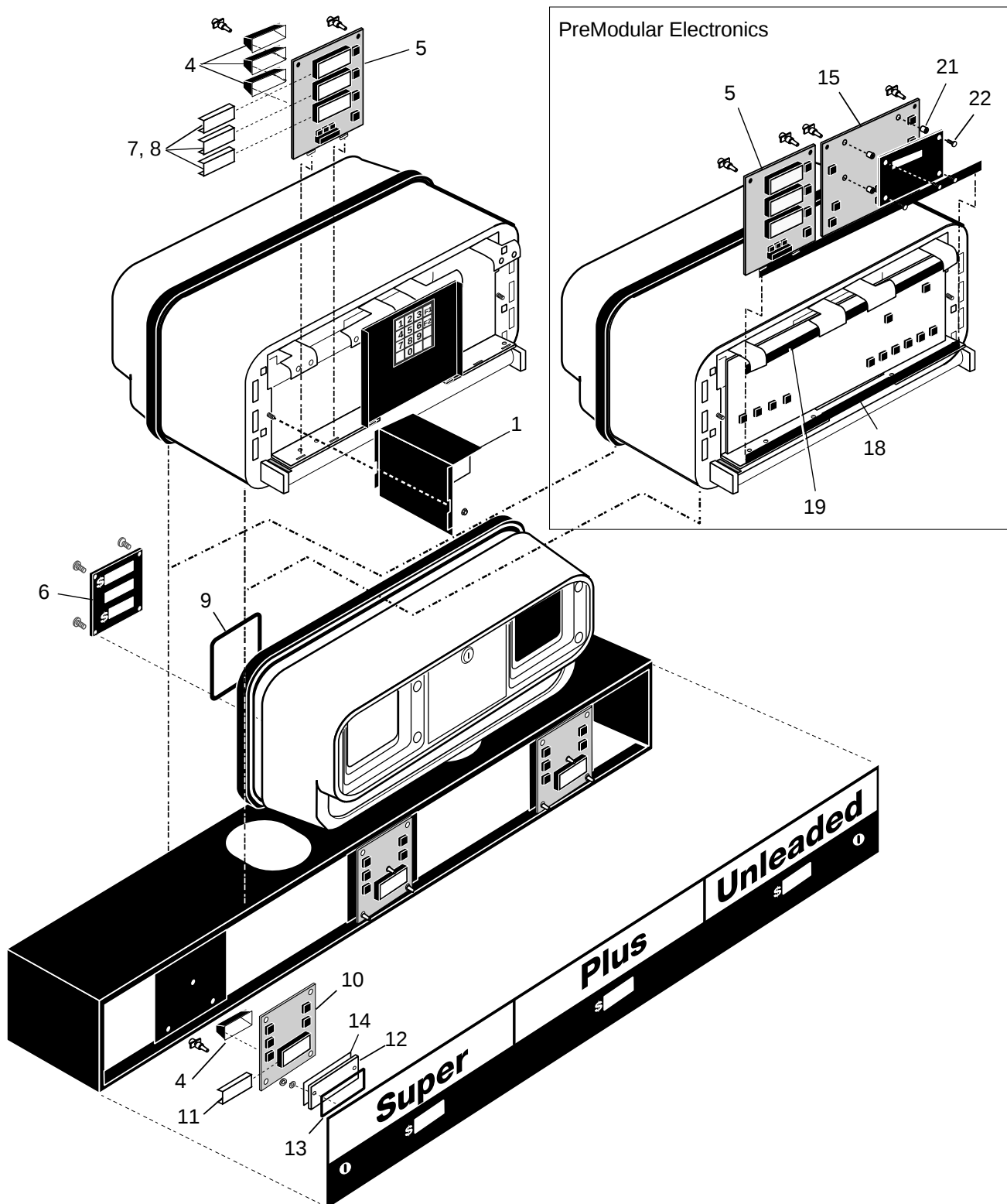
* Order entry for graphics.

** Quantity varies with model.

Plate 1.4

MPD®-1 • LCD Retrofits

Three-Grade, Four-Grade, and Fixed Blender

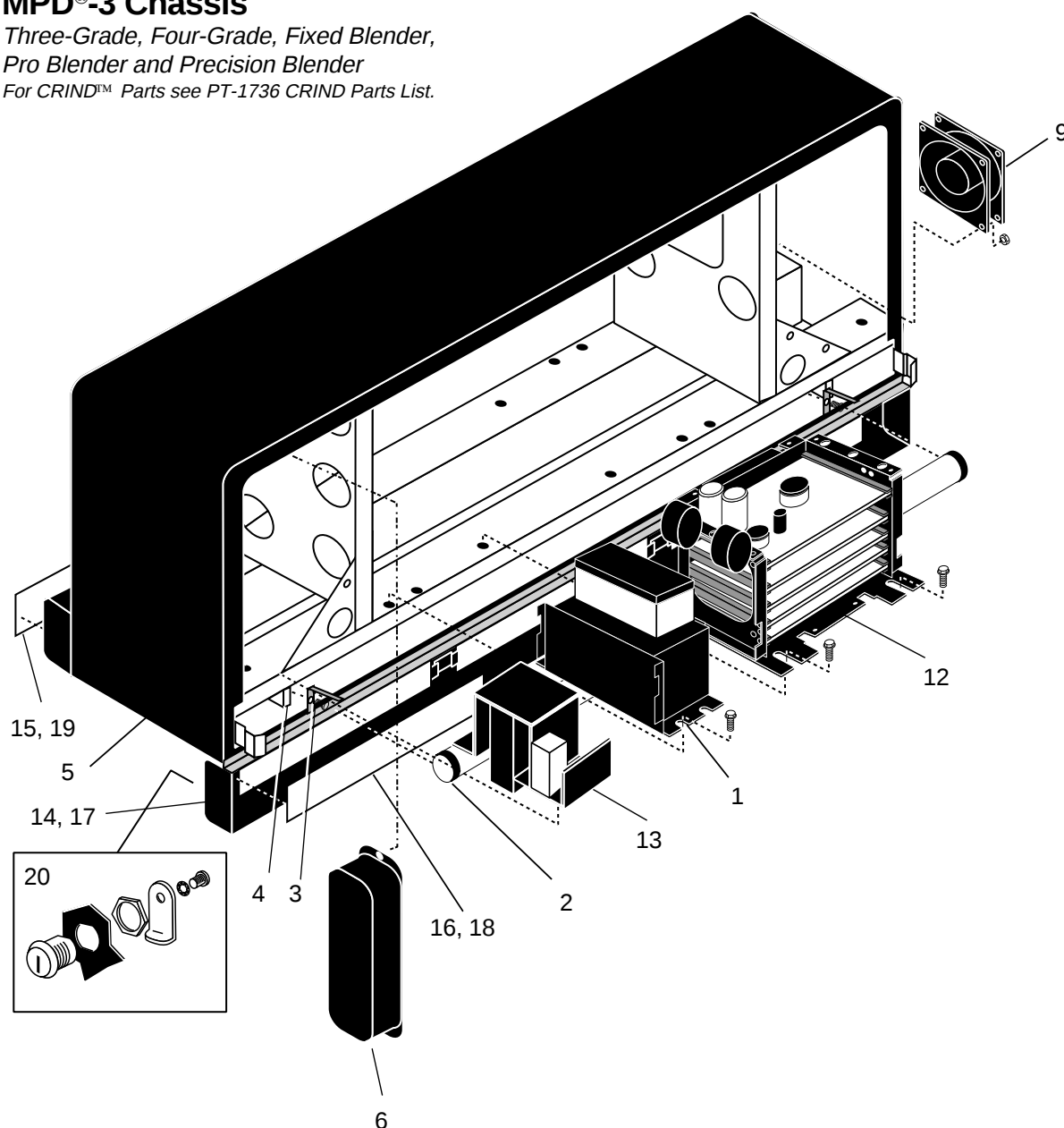


#	Part Description	Part Number	Qty.
1	Power Supply	T18968-G1	1
2	24VAC Feed Adapter Cable	T19058-G1	1
3	LCD Power Distribution Cable	T17766-G2	1
4	Reflector Assembly	T17622-G9	*
5	Display Board	T18981-G1	*
6	Faceplate, Clear	R15176-02	*
7	Filter, Orange	R19211-041	*
8	Mask, Sixth Digit	R19927-01	*
9	Gasket, Bezel	R15596	*
10	PPU Board	T19111-G1	*
11	Filter, Orange	R20016-031	*
12	Faceplate, Clear	K92814-02	*
13	Gasket, Display Window	K92815-02	*
14	Mask	N23531-01	*
15	Display Interface Board	T19077-G1	*
16	Software Kit	Q12200-02	-
17	LCD Main Data Cable Assembly	T19059-G1	1
18	Bottom Support Bracket Assembly	T15105-G1	*
19	Top Support Bracket Assembly	T15106-G1	*
20	Display Controller Power Cable Assembly	R19949-G1	*
21	Spacer	Q10383-02	*
22	Screw 4.40 x 3/4"	Q11270-125	*

* Quantity varies with model.

Plate 2 MPD®-3 Chassis

Three-Grade, Four-Grade, Fixed Blender,
Pro Blender and Precision Blender
For CRIND™ Parts see PT-1736 CRIND Parts List.

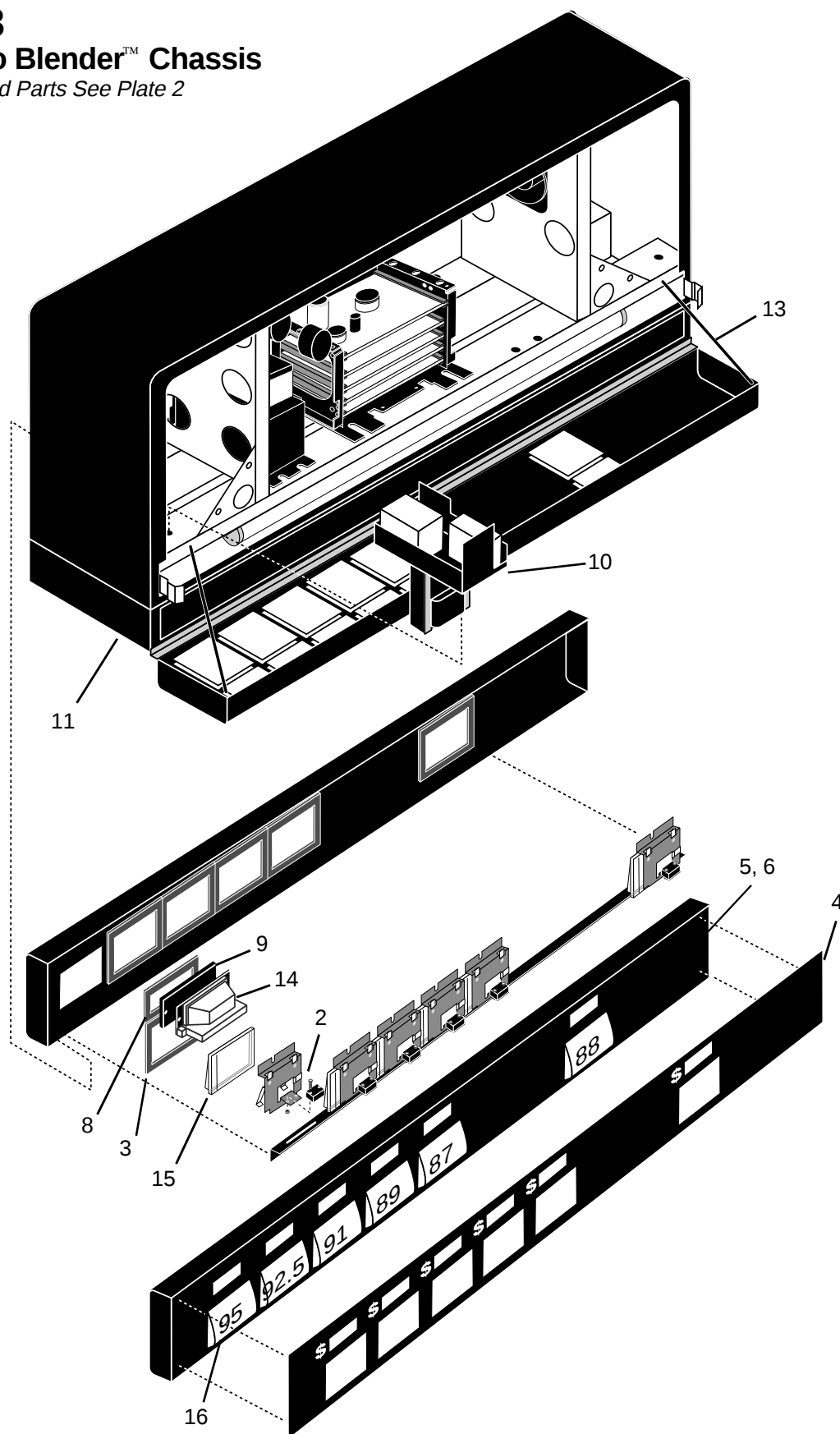


#	Part Description	Part Number	Qty.
1	Main Power Supply	See Plate 9	1
2	Fluorescent Lamp	N21144-G2	2
3	Leaf Spring, Lamp Socket	N21142	4
4	Lamp Socket	K87111	4
5	Chassis Assembly	W01527-G3	1
6	Ballast, 120VAC, 60Hz	Q10883-02	1
	Ballast, 220-240VAC, 50/60Hz	Q10797-02	-
7	Housing Assembly Includes housing, main cable, fan, ballast, hinges, lamp sockets	T17670-GXX	1
	Three-Grade, Lighted	T17670-G01	-
	Three-Grade, Unlighted	T17670-G02	-
	Three-Grade, Export, Lighted	T17670-G03	-
	Four-Grade, Unlighted	T17670-G04	-
	Four-Grade, Lighted	T17670-G08	-
8	Top Housing	T13404-G2	1
9	Fan	Q10355-04	1
10	Thermostat	Q10465-02	1
11	Fan Cord	Q10391-02	1
12	Card Cage Assembly	See Plate 8	1
13	Power Supply Precision Blender	W02453-G2	1
14	Access Panel Assembly, Three-Grade	T13698 *	2
15	One Piece Brand Panels *	T13698-G2	-
16	Three Piece Brand Panels *	T13698-G3	-
17	Access Panel Assembly, Four-Grade	T17367 *	2
18	One Piece Brand Panels	T17367-G2	-
19	Four Piece Brand Panels	T17367-G1	-
20	Lock and Keys, Black	Q10898-11	2
	Lock and Keys, Stainless	Q10898-12	2
	Keys Only	Q10898-115	-
	Lock/Keys, Black, Slide-in Panels	Q12541-01	2
	Lock/Keys, Stainless, Slide-in Panels	Q12541-02	2
	Keys Only	Q12542-01	-

* Order entry for graphics.

Plate 3 MPD Pro Blender™ Chassis

For Standard Parts See Plate 2



#	Part Description	Part Number	Qty.
1	Support Switch Assembly	R18838-G1	*
2	Grade Select Switch Assembly	Q12170-01	*
3	Grade Switch Gasket	R18842-01	*
4	Access Graphics Panel	T17380-XX**	2
5	Access Panel Assy. (Includes grade select switches, support switches, LCD Modules)	-	*
	Front Assembly (5+1)	W02444-G01	-
	Rear Assembly (5+1)	W02444-G02	-
	Front Assembly (5+0)	W02444-G03	-
	Rear Assembly (5+0)	W02444-G04	-
	Front Assembly (4+1)	W02444-G05	-
	Rear Assembly (4+1)	W02444-G06	-
	Front Assembly (4+0)	W02444-G07	-
	Rear Assembly (4+0)	W02444-G08	-
	Front Assembly (3+1)	W02444-G09	-
	Rear Assembly (3+1)	W02444-G10	-
	Front Assembly (3+0)	W02444-G11	-
	Rear Assembly (3+0)	W02444-G12	-
	Blank Assembly	W02444-G13	-
	Front Assembly (2+1)	W02444-G15	-
	Rear Assembly (2+1)	W02444-G16	-
6	Access Panel Only	T17384-XX	*
	Front	-	-
	Rear	T17384-G2	-
	Blank	T17384-G3	-
7	PPU Spacer	Q10340-97	*
8	PPU Display Gasket	R18689-01	*
9	PPU Display Window	R18688-01	*
10	Blender Power Supply	W02421-G1	1
11	Channel Assembly	T17279-G1	2
12	Housing Assembly (Includes housing, main cable, fan, hinges)	T16036-G8	1
13	Lanyard	N22887-G1	2
14	Liquid Crystal Display	Q12041-01	*
15	Grade Select Button	T17286-01	*
16	Octane Cards	R18839-01	-

** Order entry for graphics.

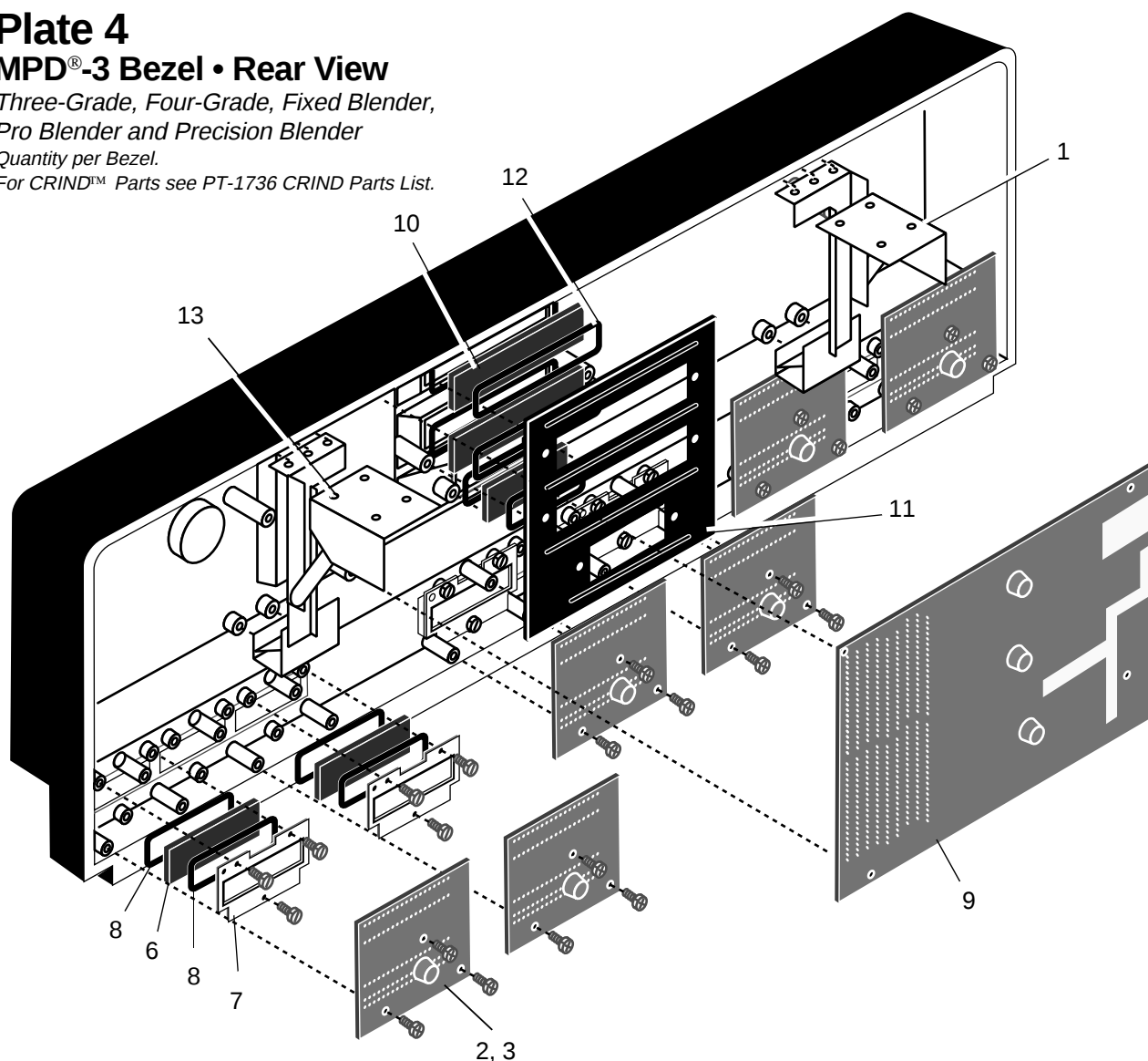
* Quantity varies with model.

Plate 4 MPD®-3 Bezel • Rear View

Three-Grade, Four-Grade, Fixed Blender,
Pro Blender and Precision Blender

Quantity per Bezel.

For CRIND™ Parts see PT-1736 CRIND Parts List.



#	Part Description	Part Number	Qty.
1	Left Hinge Assembly	T13678-G1	1
2	PPU Display Board (use with bolt-in panels only)	T15994-G1	1
3	PPU Display (replaces T15994)	T17339-G1	*
4	Cable For T17339-G1S	R18393-G2	*
5	PPU Board Replacement Kit (includes T17339 and R18393)	K93367	*
6	PPU Filter Window	R16474-01	*
7	PPU Backup Plate	R15965	*
8	PPU Display Gasket	R15966-01	*
9	Main Display Board	W02107-G2	*
10	Main Display Filter Window	N22673-02	*
11	Main Display Backup Plate	R15963	*
12	Main Display Gasket	R15966-02	*
13	Right Hinge Assembly	T13678-G2	1

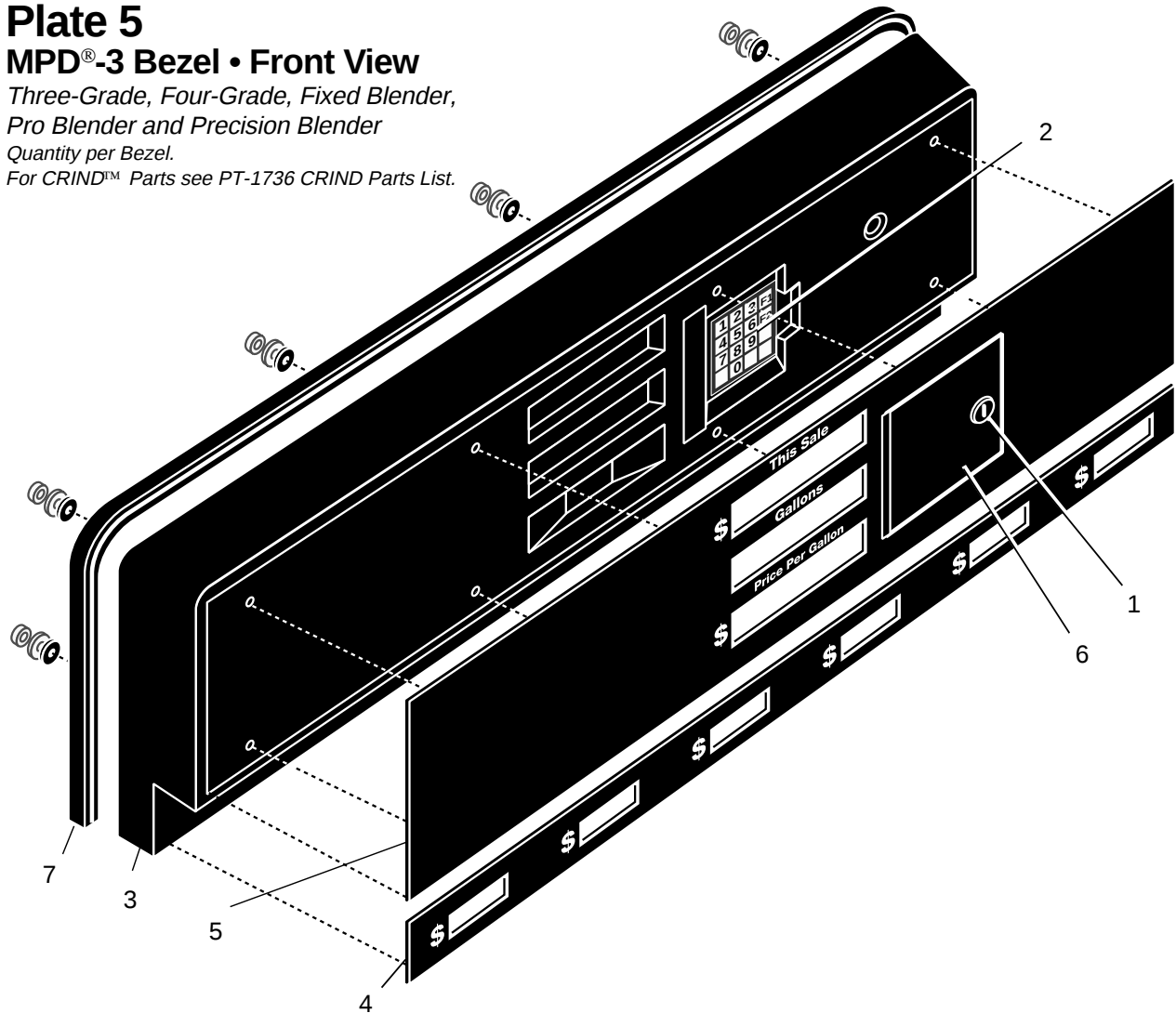
* As required.

Plate 5 MPD®-3 Bezel • Front View

Three-Grade, Four-Grade, Fixed Blender,
Pro Blender and Precision Blender

Quantity per Bezel.

For CRIND™ Parts see PT-1736 CRIND Parts List.



#	Part Description	Part Number	Qty.
1	Lock and Keys, Black	See Plate 2	1
2	Operator Keypad	T17549-G1	1
	Operator Panel, Blank	R15891-G3	2
	Operator Keypad Panel Assembly, Slide-in Panels	T17549-G1	1
3	Bezel Assembly (Includes bezel, gaskets, panels, displays, cables)	-	1
	Three-Grade*, Bolt-in Panels	T16383-GXX	-
	Four-Grade*, Bolt-in Panels	T17304-GXX	-
	Three and Four-Grade*, Slide-in Panels	T17490-GXX	-
4	PPU Panel*, Bolt-in Panels	T13403-GXX	-
	PPU Panel*, Slide-in Panels	T17445-XX	-
5	Face Plate*, Bolt-in Panels	W01901-GX	-
	Face Plate*, Slide-in Panels	T17446-XX	-
6	Gasket, Operator Door	R15995	1
7	U-Shaped Gasket	R15970	1

* Order entry for graphics.

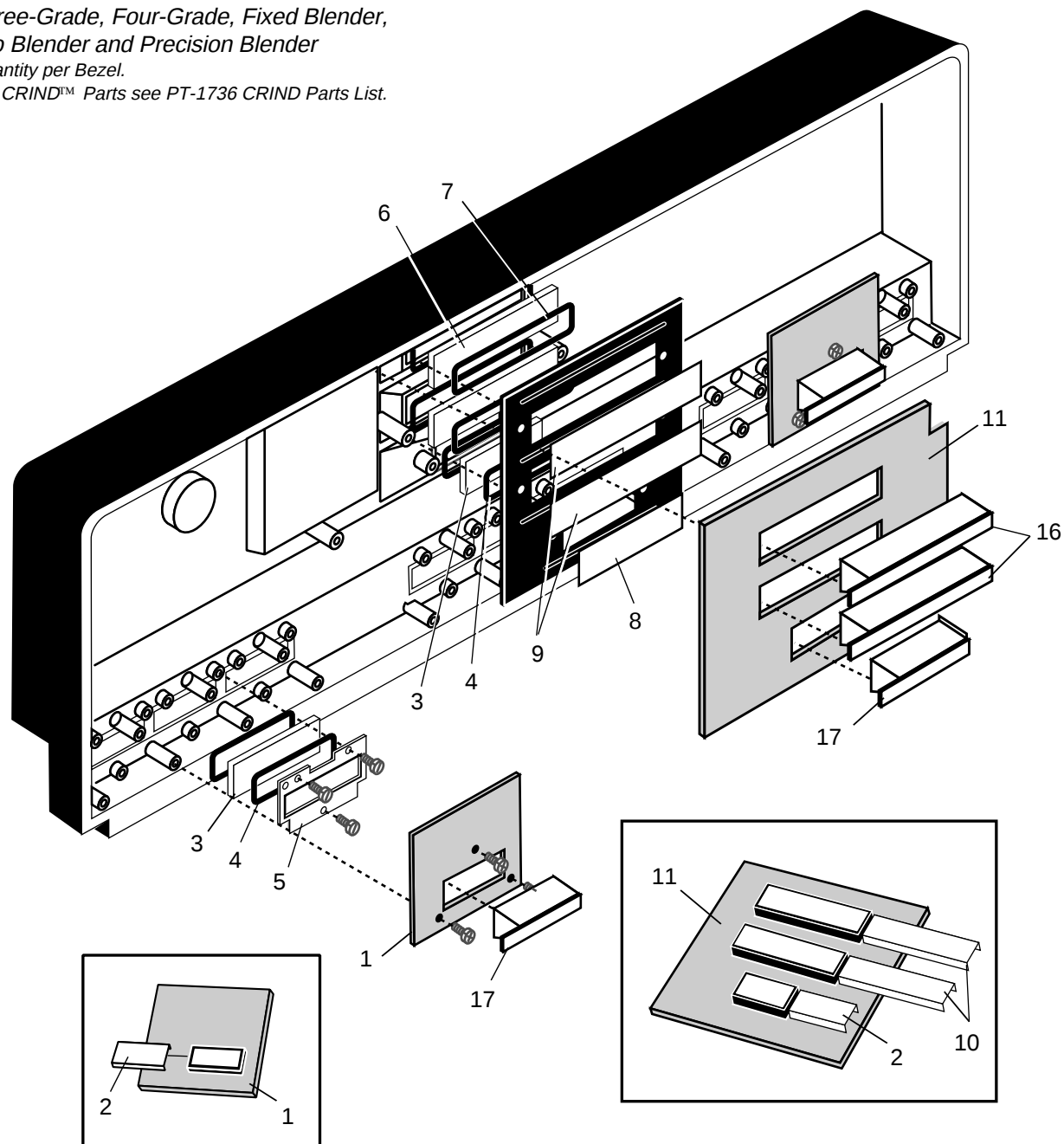
Plate 6

MPD®-3 • LCD Retrofit

Three-Grade, Four-Grade, Fixed Blender,
Pro Blender and Precision Blender

Quantity per Bezel.

For CRIND™ Parts see PT-1736 CRIND Parts List.



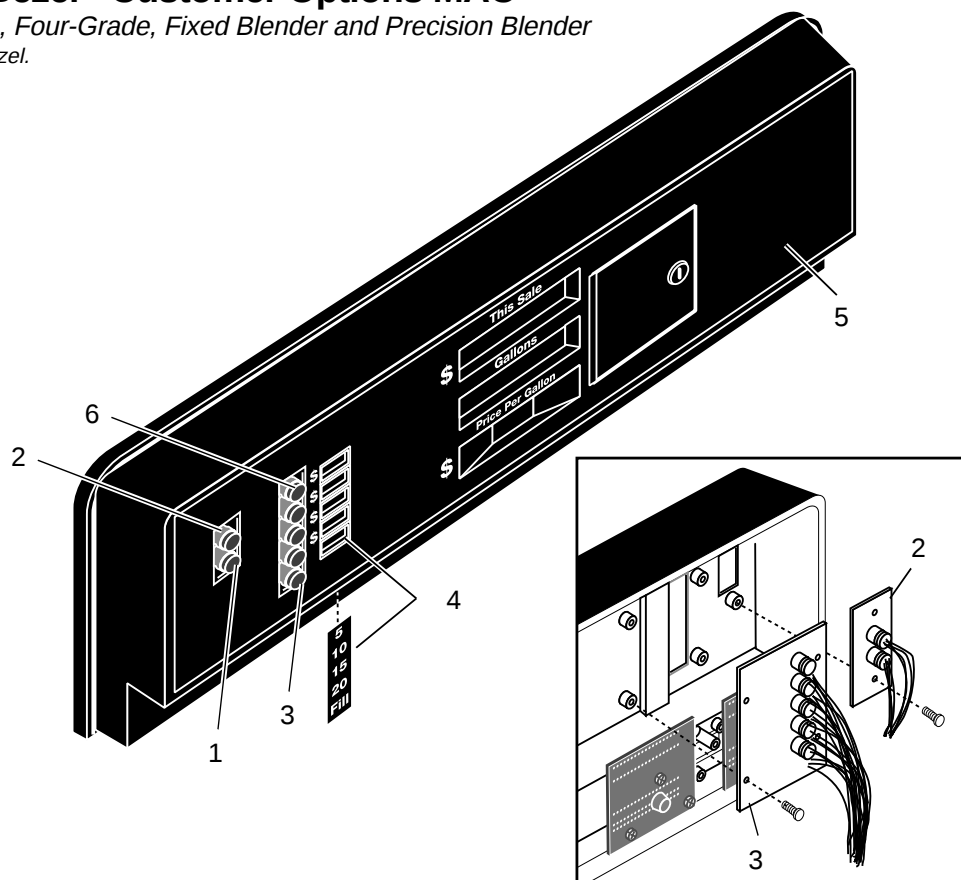
#	Part Description	Part Number	Qty.
1	PPU Board	T19111-G1	*
2	Filter, Orange	R20016-031	*
3	Faceplate, Clear	K92814-02	*
4	Gasket, Display Window	R15966-01	*
5	Mounting Plate, PPU Display	R15965-02	*
6	Faceplate, Clear	R16474-12	2
7	Front Gasket	R15966-02	4
8	Mounting Plate Mask	R20022-01	1
9	Mounting Plate Mask	R20023-01	2
10	Filter, Orange	R20016-011	2
11	Main Display Board	T19108-G1	1
12	Power Supply Assembly	T17772-G4	1
13	Mounting Bracket Assembly	T18711-G1	1
14	LCD Power Distribution Cable	T17938-G3	1
15	24VAC Feed Cable Assembly	T19058-G1	1
16	Reflector Assembly	T17622-G6	2
17	Reflector Assembly	T17622-G9	*

* Quantity varies with model.

Plate 7.1

MPD®-3 Bezel • Customer Options MAC

Three-Grade, Four-Grade, Fixed Blender and Precision Blender
Quantity per Bezel.



#	Part Description	Part Number	Qty.
1	Switch Assembly	K93053-01	1
2	Cash/Credit Assembly, Small Plate	R18391-G1	1
	Version 2 Cash/Credit Assembly, Large Panel (not shown)	T16560-G1	1
	Cash/Credit Membrane Switch, Slide-in Panels (not shown)	R19196-G1	1
3	Customer Preset Assembly	T16492-G1	1
	Customer Preset, Top Fill Button	T16492-G2	1
	Cash/Credit/Customer Preset Assembly (not shown)	T16489-G1	1
	Cash/Credit/Customer Preset Assembly, Top Fill Button	T16489-G2	1
4	Price Posting Bar	R16000-G3	1
	Price Posting Bar, Top Fill Button	R16000-G2	1
	Price Posting Decal	R17139-01	1
5	Face Plate *	See Plate 5	-
6	Lamp and Switch Kit (includes 6a-6b, Hardware)	K93053-01	-
6a	Rubber Boot	Q10899-02	-
6b	Red Lens	Q10900-02	-
6c	Lamp (14VAC, 0.75AMPS)	Q10231-09	-

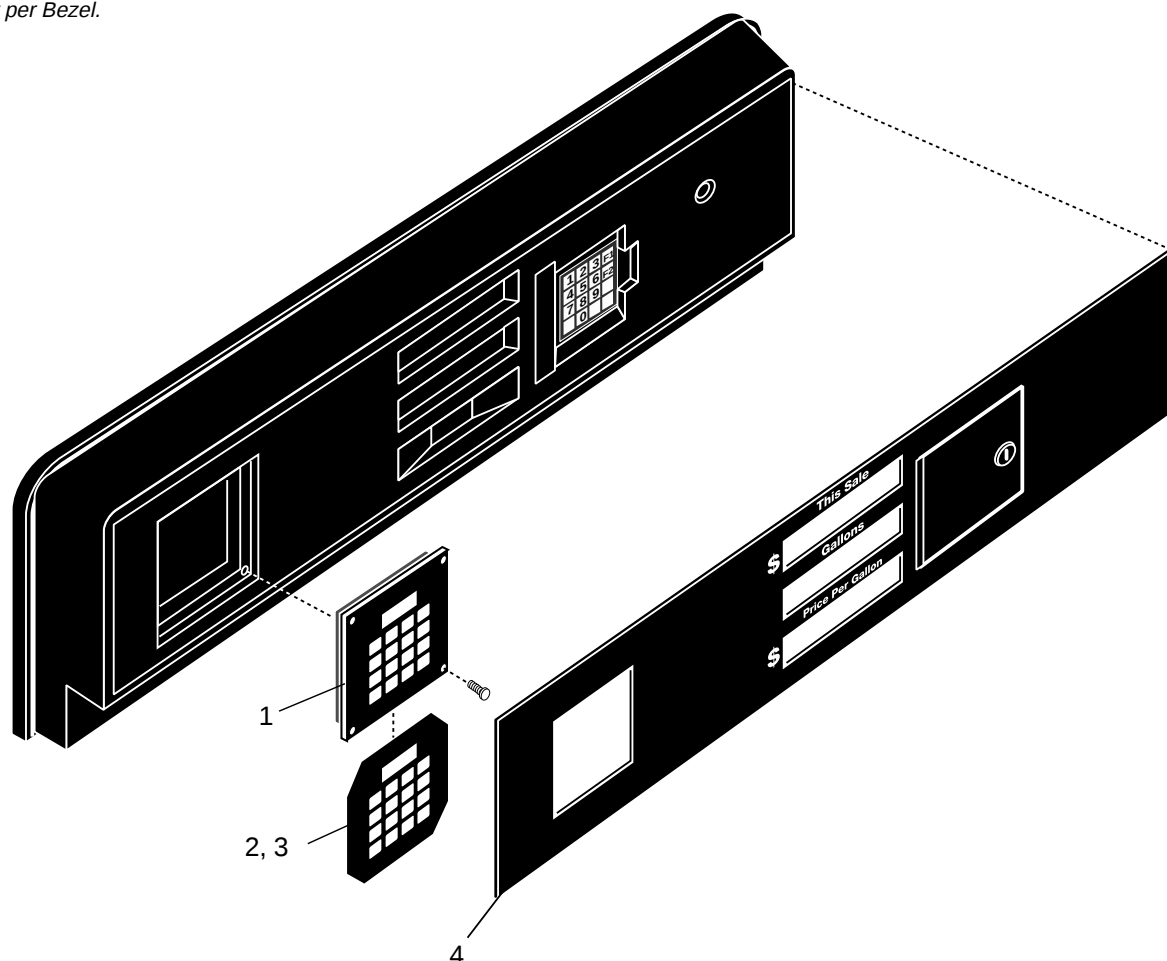
* Order entry for graphics.

Plate 7.2

MPD®-3 Bezel • Customer Options PMI

Three-Grade, Four-Grade, Fixed Blender and Precision Blender

Quantity per Bezel.



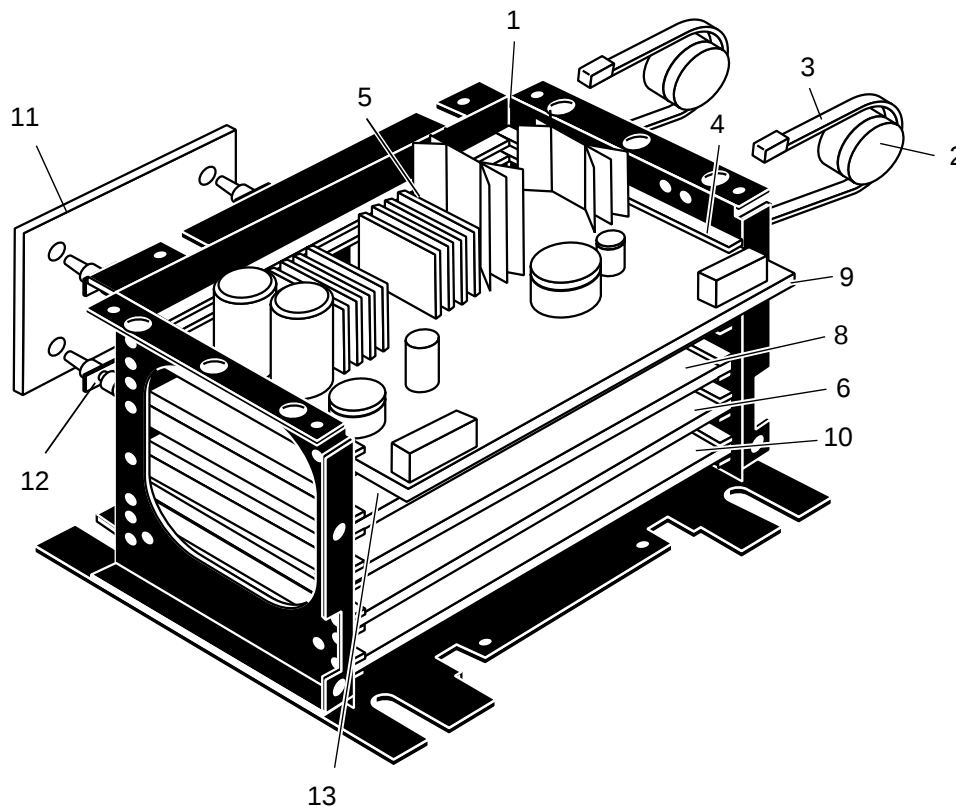
#	Part Description	Part Number	Qty.
1	Programmable Preset Display Assembly	R19295-G2	1
2	Keypad Overlay *	T17885-XX	-
3	Keypad Overlay (generic English graphics)	T17885-01	-
4	Face Plate *	See Plate 5	1

* Order entry for graphics.

Plate 8 Modular Card Cage • All Models

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

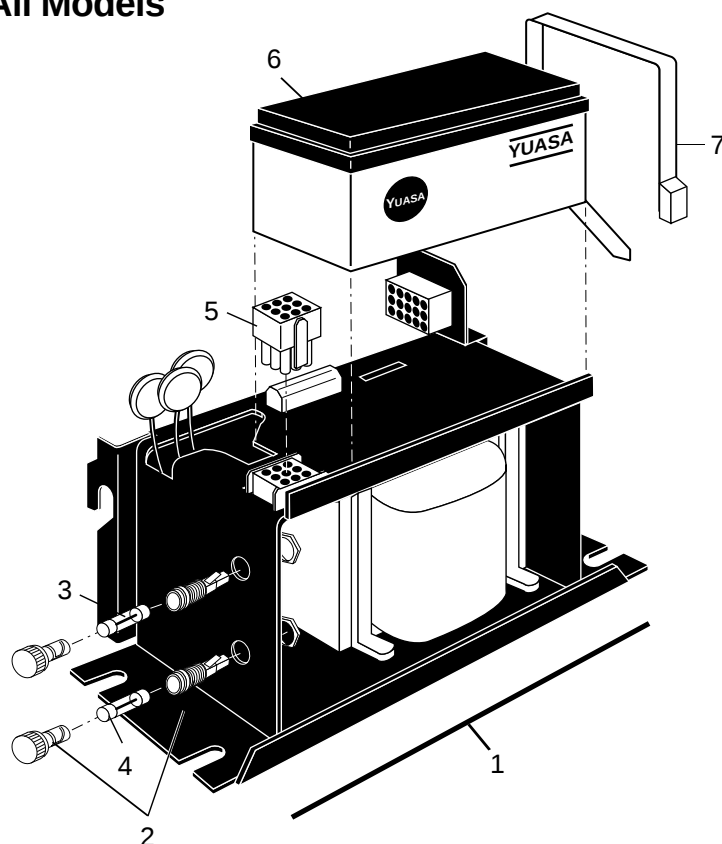
For CRIND™ Parts see PT-1736 CRIND Parts List.



#	Part Description	Part Number	Qty.
1	Card Cage (includes 4-5)	T17288-G3	1
2	Audio Transducer (beeper)	Q11763-01	1
3	Cable Tie	Q10178-07	1
4	Card Guide 4.5"	Q10233-05	10
5	Card Guide 8.0"	Q10233-06	3
6	Hydraulics Interface Board, All Other Units	T18024-G2	1
	Hydraulics Interface Board, Pro Blender and Precision Blender	T18156-G1	1
7	Customer Programmable Preset Board (optional)	T17331-G2	1
	Programmable Preset Software Kit	K93976-G1	1
8	Pump Controller Board, SID Displays	T15841-G2	1
	Software Kit, Pro Blender	K93345-G1	1
	Software Kit, Precision Blender	K93385-G2	1
	Software Kit, All Other Units	K92631-G2	1
9	Main Regulator Board	T17723-G1	1
10	Valve Driver Board	T16598-G2	1
11	Customer Interface Board	T16892-G1	1
12	Circuit Board Support	Q10651-02	-
13	SID Display Power Board	T16394-G1	1

Plate 9

Power Supplies • All Models



#	Part Description	Part Number	Qty.
1	Main Power Supply, 115VAC (includes voltage select plug #5a)	K93393-01	1
	Main Power Supply, 230VAC (includes voltage select plugs #5b-5d)	K93393-02	1
2	Fuse Holder	Q11781-01	2
3	Fuse, F2 (4Amp, 250VAC, Slo-Blo)	Q10131-26	1
4	Fuse, F1 (3Amp, 250VAC, Slo-Blo)	Q10131-03	1
5a	Voltage Select Plug, 115VAC	N21120-G6	1
5b	Voltage Select Plug, 220VAC	N21120-G8	1
5c	Voltage Select Plug, 230VAC	N21120-G9	1
5d	Voltage Select Plug, 240VAC	N21120-G10	1
6	Battery, 12 volt 2.5Amp	Q11955-01	1
7	Tie Wrap, Battery	Q10178-06	1

Plate 10.1 MPD®-1 Cables

Cable Assembly Description	Product *	Associated Plugs and Jacks	Part Number
Main Cable Harness (CA1)	A, B, C	J601, J502, J101, E1, J104, P401, WT2, WT10, J602, J504, J701, J702, P403, J103, E2, E3, BUZA/B	T17094-G4
Main Display Power Cable	A, B, C	P602, J302, J802A/B, J133A/B, J304	T16503-G1
Hydraulic Interface to Controller (Ribbon)	A, B, C	J102, J205	R17996-G1
Controller to Operator Keypad (Ribbon)	A, B, C	J805, J901	R18136-G1
Display Power to Main Regulator (Ribbon)	A, B, C	J301, J503	R17994-G1
Controller to Main Regulator (Ribbon)	A, B, C	J301, J501	R17995-G1
Ground Wire	A, B, C	E2, E4	R15634-G39
Hydraulic Interface to STP Driver (Ribbon)	C	J103, J702	T16707-G002
Ballast Cable Assy.	A, B, C		T16595-G1
PPU Box Display Power	A, B		T16504-G1
	C		T16504-G2
PPU Box Display (Ribbon)	A, B		T16585-G1
	C		T16586-G2
PPU Box PPU Display	A, B, C	J124, P122	R18393-G2

***Product Codes:**

- A MPD-1 Three-Grade
- B MPD-1 Fixed-Blender
- C MPD-1 Four-Grade

Plate 10.2

MPD®-3 Cables

Cable Assembly Description	Product *	Associated Plugs and Jacks	Part Number
Main Cable Harness (CA1)	A	P401, WT1, WT2, WT5, WT7, E1, J601, J502, J101, J103, J602, J504, BUZA/B, P402	T17094-G1
	B	P401, WT1, WT2, WT5, WT7, E1, J601, J502, J101, J103, J602, J504, BUZA/B, P402	T17346-G1
	C	P401, WT1, WT2, WT5, WT7, E1, J601, J502, J101, J103, J602, J504, BUZA/B, P402, P403, J701, J703, J704, J705, J708	W02455-G1
	D	P401, WT5, WT7, J601, J502, J101, J103, J602, J504, BUZA/B, P402, P403, J701, J703, J704, J708, P124A/B	W02423-G1
Main Display Power Cable	A, C	J802, P132, J122A/B/C/D/E/F	T16350-G1
	B	J802, P132, J122A/B/C/D/E/F/G/H	T17347-G1
	D	J302, J809A/B, P602, J802, P809A/B	T17293-G1
		J802, P809A/B	T17292-G1
Hydraulic Interface to Controller (Ribbon)	A, B, C, D	J102, J205	R17996-G1
	D	J103, J702	T17292-G002
Controller to Operator Keypad (Ribbon)	A, B, C, D	J805, J901	R18136-G1
Display Power to Main Regulator (Ribbon)	A, B, C, D	J301, J503	R17994-G1
Controller to Main Regulator (Ribbon)	A, B, C, D	J201, J501	R17995-G1
PPU (Ribbon)	A, C	J804, J121A/B/C/D/E/F	T16353-G1
	B	J804, J121A/B/C/D/E/F/G/H	T17348-G1
Ground Wire	A, B, C, D		R15634-G39
PPU Display to Main Cable	A, B, C	J124, P122	R18393-G2
Display Power to PPU's	A, B, C	J303, J304, J302, P602, J132A/B	T16349-G1
Main Display PPU Power	D	J804, J120	R18843-G1
Customer Interface to LCD PPU	D	J123, J125	R18824-G2
Customer Interface to Microswitches	D	J126, J134	R18840-G1
LCD PPU Back light	D	P124, J122	T17291-G1
PPU's/Customer Interface Jumper	D	P125, J121	T17280-G3
Grade Select	D	J126, S1-S6	T17280-G3
Main Display to Controller (Ribbon)	A, B, C	J203, P122	R18163-G1
	A, B, C, D	J801A/B, J204	T16351-G1
	D	P801A, J801A	R18695-G1
		J203, J806	R18163-G1
Hydraulic Interface to STP Driver (Ribbon)	A, B, C	J103, J702	T16707-G002
Main Display to Main Display Power	A, B, C	J809, P802	R18165-G2
Cash/Credit Customer Preset	A, B, C	J202, P130A/B	R18376-G2
Memory Clear/Master Reset	A, B, C, D		R18479-G1

***Product Codes:**

A MPD-3 Three-Grade or Fixed Blender

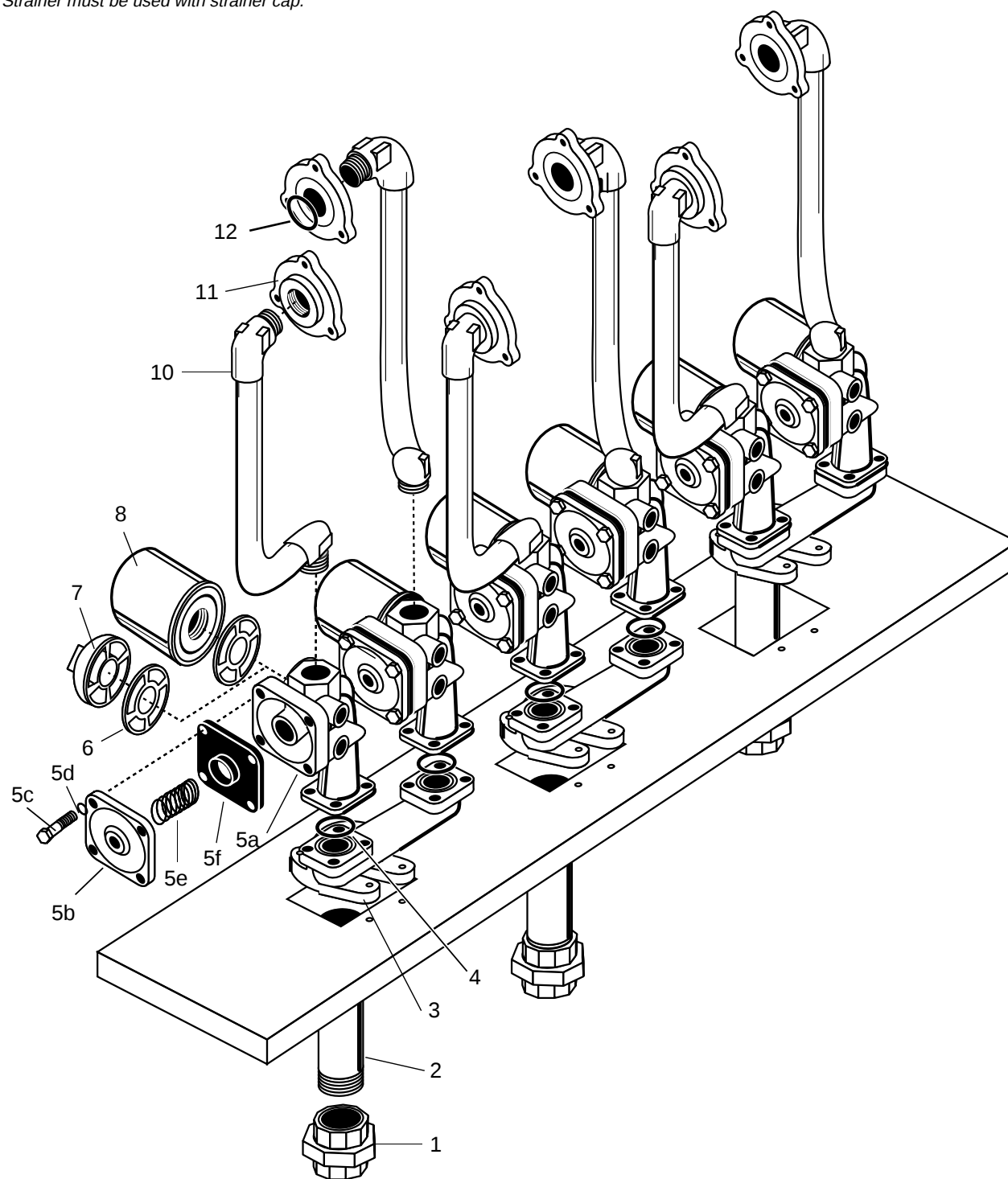
B MPD-3 Four-Grade

C MPD Precision Blender

D MPD Pro Blender

Plate 11 MPD® Three-Grade Hydraulics

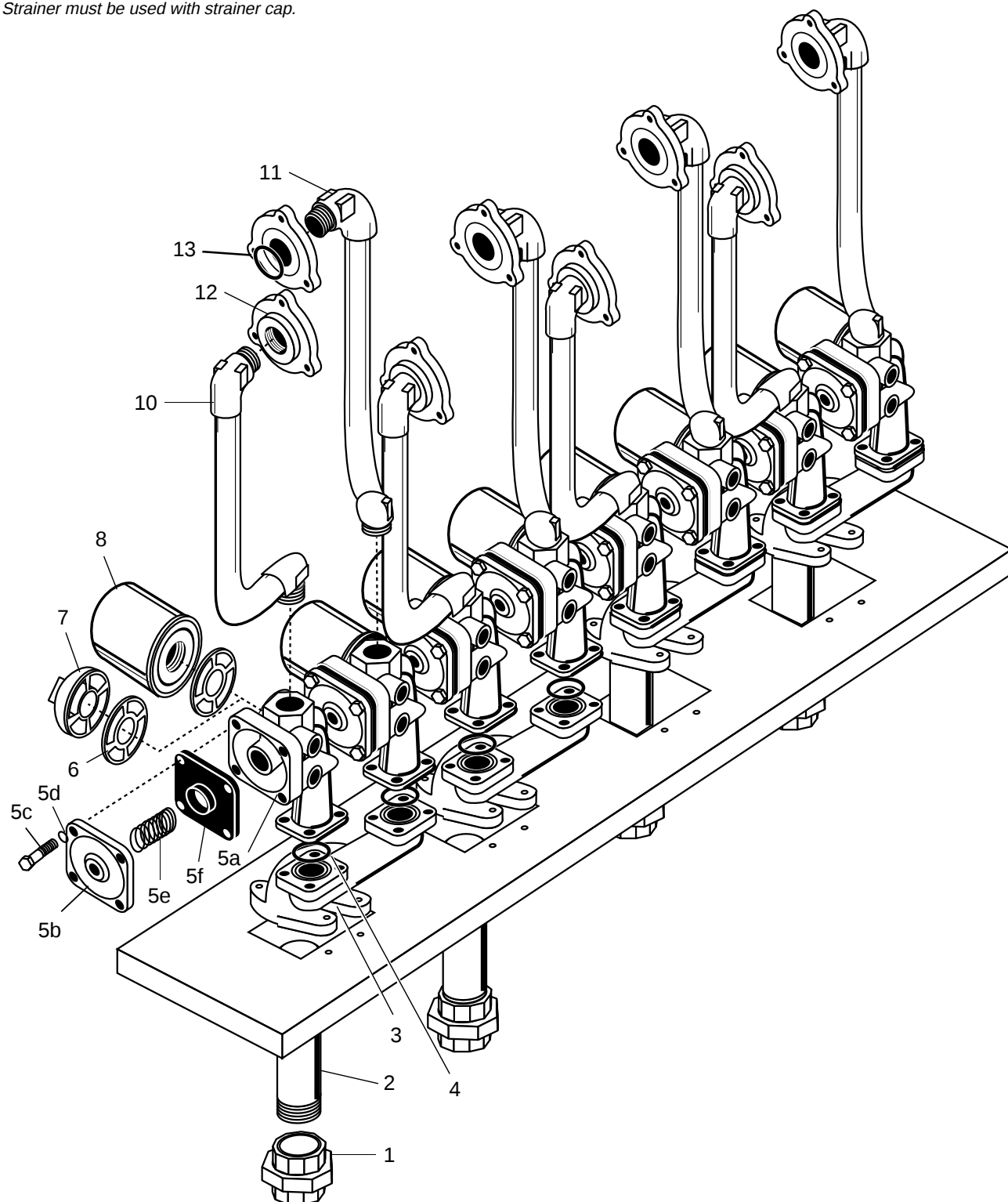
Strainer must be used with strainer cap.



#	Part Description	Part Number	Qty.
1	Union 1-1/2"	K12179	3
2	Nipple 1-1/2" x 8-1/2"	R11493-65	3
3	Manifold, for Six Hoses	W02240-10	3
	Manifold, for Three Hoses	W02240-11	3
4	O-ring 1-5/16" x 1-9/16"	Q10068-10	6
5	Solenoid Valve	PA00980007	6
5a	Filter Base	W01454-11	-
5b	Cap	R14025-10	-
5c	Screw 1/4-20 x 3/4"	Q10865-02	-
5d	Lockwasher 1/4"	K50773	-
5e	Diaphragm Spring	K88745	-
5f	Diaphragm	K93006	-
6	Strainer Insert	R18183	6
7	Filter/Strainer Cap	N17076	6
8	Filter, Standard	K82584	6
	Filter, Water Alert	N22601	6
	Filter, Alcohol Blends	N22838	6
9	Valve Rebuild Kit (5e, 5f)	K35271	-
10	Feedline	R16322-05	6
11	Flange	K51145-G01	6
12	O-ring 1-5/8 x 1"	Q10068-14	6
13	Feedline Kit "A" Side (includes 5, 10-12)	K35201	-
14	Feedline Kit "B" Side (includes 5, 10-12)	K35202	-
15	O-ring Kit (Includes 4, 12)	K35206	-
16	Fuel Collector (not shown)	K35403	-
17	Shear Valve 1-1/2" (not shown)	R16854	-

Plate 12 MPD® Four-Grade Hydraulics

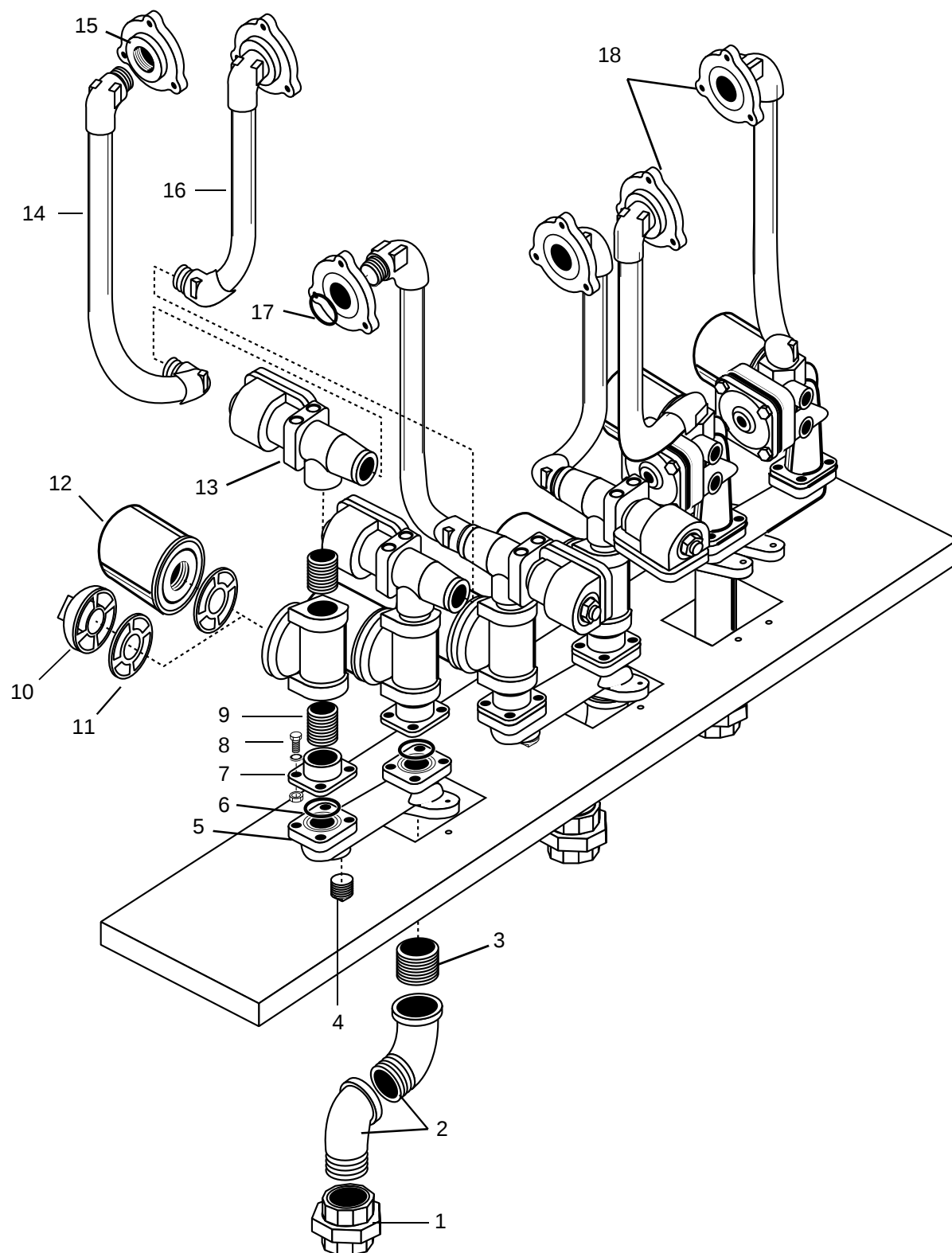
Strainer must be used with strainer cap.



#	Part Description	Part Number	Qty.
1	Union 1-1/2"	K12179	4
2	Nipple 1-1/2" x 8-1/2"	R11493-65	4
3	Manifold, for Eight Hoses	T16269-10	4
	Manifold, for Four Hoses	T16269-11	4
4	O-ring 1-5/16" x 1-9/16"	Q10068-10	8
5	Solenoid Valve	PA00980007	8
5a	Filter Base	W01454-11	-
5b	Cap	R14025-10	-
5c	Screw 1/4-20 x 3/4"	Q10865-02	-
5d	Lockwasher 1/4"	K50773	-
5e	Diaphragm Spring	K88745	-
5f	Diaphragm	K93006	-
6	Strainer Insert	R18183	8
7	Filter/Strainer Cap	N17076	8
8	Filter, Standard	K82584	8
	Filter, Water Alert	N22601	8
	Filter, Alcohol Blends	N22838	6
9	Valve Rebuild Kit (5e, 5f)	K35271	-
10	Feedline "A" Side	R18038-01	4
11	Feedline "B" Side	R18039-01	4
12	Flange	K51145-G01	8
13	O-ring 1-5/8 x 1"	Q10068-14	8
14	Feedline Kit "A" Side (includes 5, 10, 12, 13)	K35390	-
15	Feedline Kit "B" Side (includes 5, 11-13)	K35391	-
16	O-ring Kit (includes 4, 13)	K35206	-
17	Fuel Collector (not shown)	K35403	-
18	Shear Valve 1-1/2" (not shown)	R16854	-

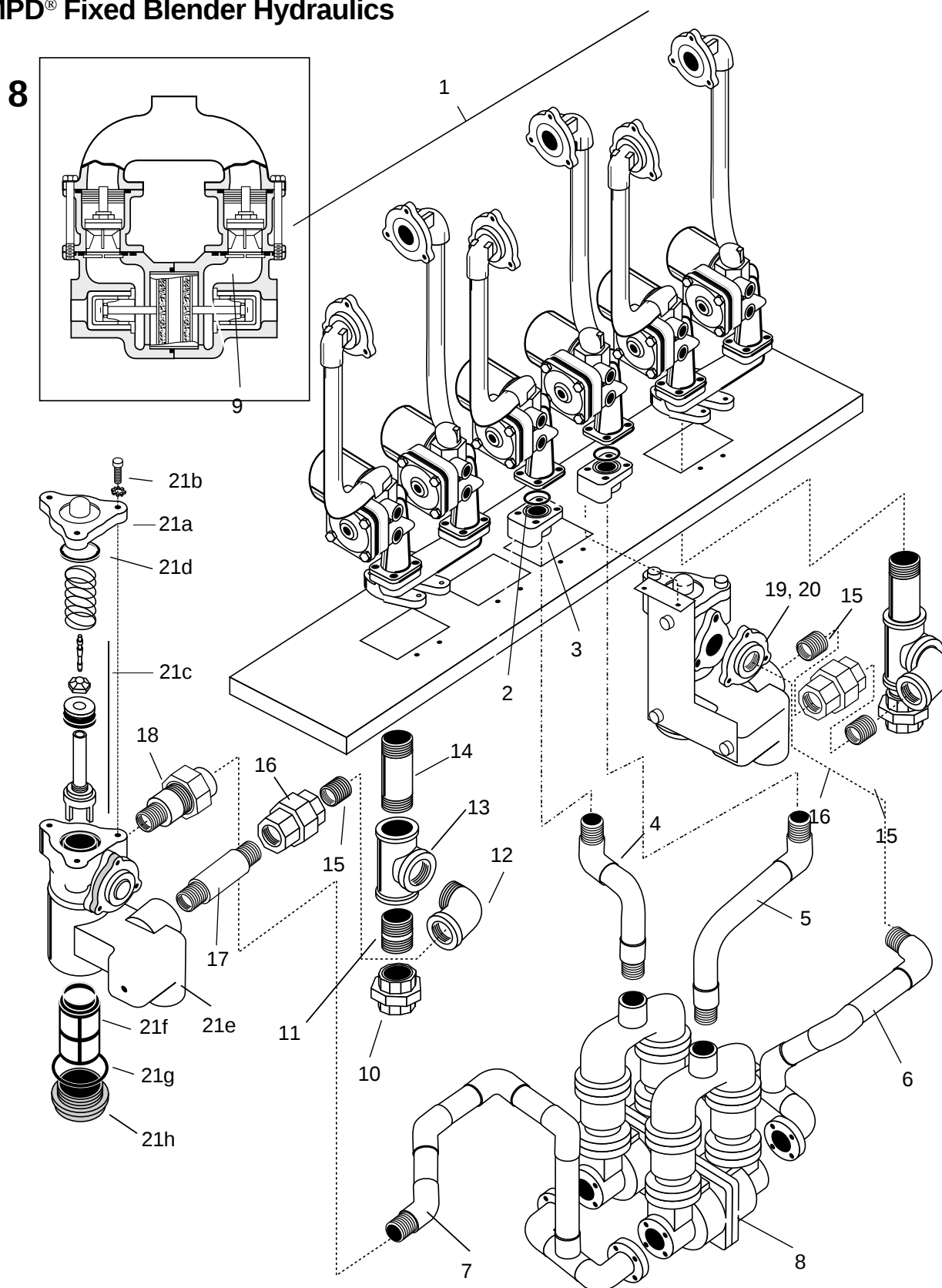
Plate 13 MPD Pro Blender™ Hydraulics

Strainer must be used with strainer cap.



#	Part Description	Part Number	Qty.
1	Pipe Union 1-1/2"	K12179	3
2	Elbow 1-1/2" x 45°	K03608-28	4
3	Pipe Nipple 1-1/2" x 2"	K78580	2
4	Pipe Plug 1/4"	K02279	2
5	Feedline Manifold	T16680-10	2
6	O-ring 1-5/16" x 1-9/16" x 1/8"	Q10068-10	6
7	Manifold Flange	N22509-10	4
8	Bolt 1/4-20 x 3/4"	Q10865-02	24
9	Pipe Nipple 3/4" x 1-1/2"	R11496-54	8
10	Filter/Strainer Cap	N17076	6
11	Strainer	R18183	6
12	Filter, Standard	K82584	6
	Filter, Water Alert	N22601	6
	Filter, Alcohol Blends	N22838	8
13	Solenoid Blend Valve (see Plate 15)	R18591-01	4
14	Feedline	R18784-G1	2
15	Flange	K51145-G01	6
16	Feedline	R18785-G1	2
17	O-ring 1-5/8" x 1" x 1/8"	Q10068-14	6
18	Hydraulic Module for unblended product	See Plate 11	-
19	Shear Valve (not shown)	R16854	-

Plate 14 MPD® Fixed Blender Hydraulics

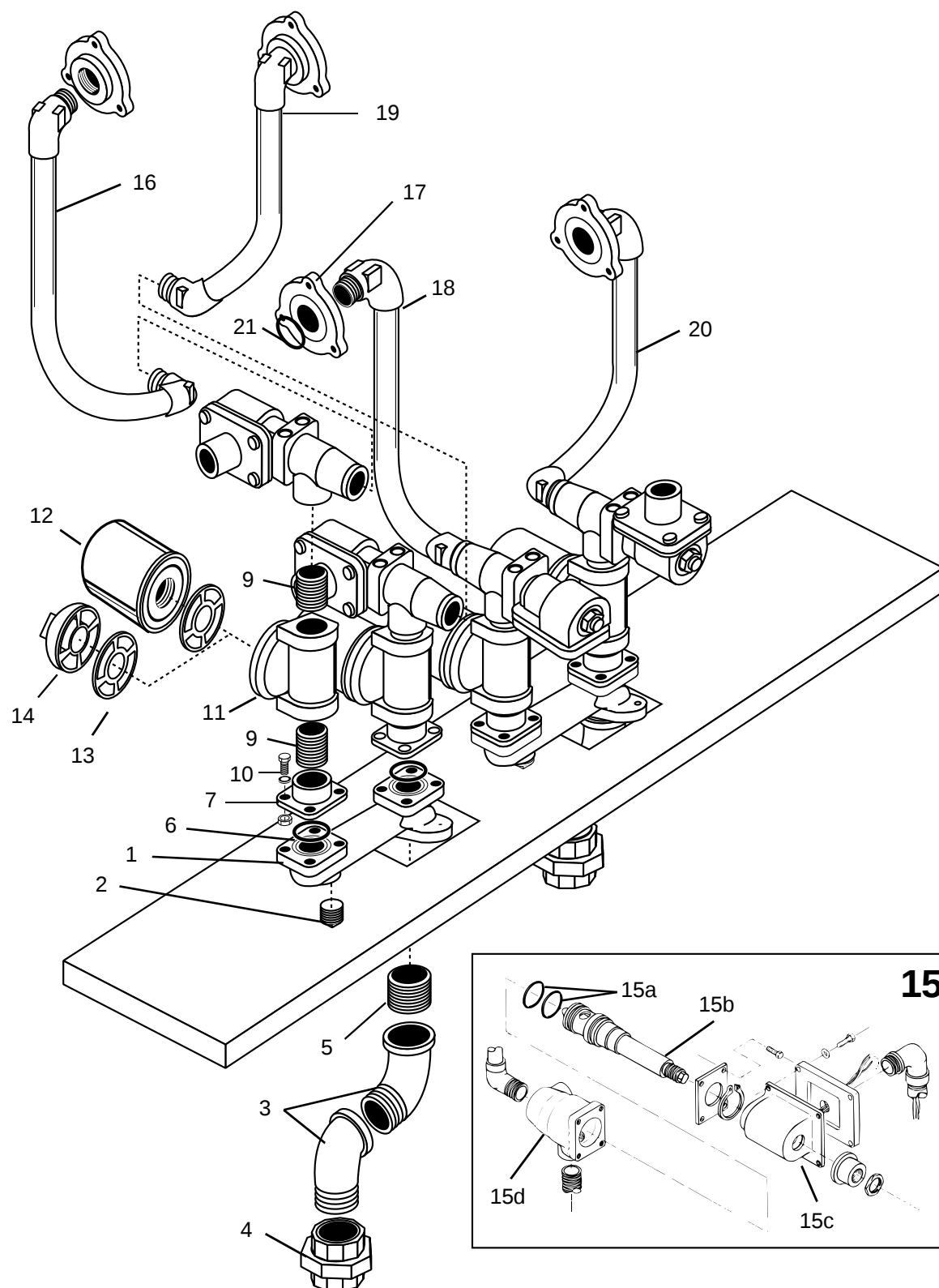


#	Part Description	Part Number	Qty.
1	Hydraulic Module	See Plate 11	6
2	O-ring 1-5/16" x 1-9/16" x 1/8"	Q10068-10	-
3	Flange	N22735	2
4	Blend Valve Discharge Line	R18603	1
5	Blend Valve Discharge Line	R18604	1
6	Blend Valve Feedline	T16831-G1	1
7	Blend Valve Feedline	T16832-G1	1
8	Blend Valve	T17066	2
9	Orifice Plate Kits		
	Blend Ratio 50:50	K33654-04	-
	Blend Ratio 55:45	K33654-03	-
	Blend Ratio 60:40	K33654-02	-
	Blend Ratio 63:37	K33654-05	-
	Blend Ratio 65:35	K33654-06	-
	Blend Ratio 66 2/3:33 1/3	K33654-10	-
	Blend Ratio 68:32	K33654-08	-
	Blend Ratio 70:30	K33654-07	-
10	Union 1-1/2"	K12179	2
11	Nipple 1-1/2" x 1-3/4"	K08682	2
12	Elbow 1" x 90°	K02321-20	2
13	Tee 1-1/2" x 1-1/2" x 1"	K02309A02	2
14	Nipple 1-1/2" x 4-5/16"	R11493-G4	2
15	Flange	K51145-G01	6
16	Union 1"	K07797	2
17	Nipple 1" x 2-5/8"	R11495-73	1
18	Dresser Adaptor	N16081-21	1
19	Flange	K51145-G01	1
20	O-Ring	Q10068-18	1
21	Pressure Regulating Valve (includes 21a-21h)	PA0055-04	1
21a	Cover	N18769	1
21b	Screw 1/4-20	Q10865-02	3
21c	Check Valve Assembly	N22955-G2	1
21d	O-Ring	Q10068-15	1
21e	Plug 1-1/2"	K02285	1
21f	Filter Screen	N18957	1
21g	O-ring	Q10068-18	1
21h	Filter Cap	K45315E03	1
22	Shear Valve (not shown)	R16854	-

Plate 15

MPD® Precision Blender Hydraulics

Strainer must be used with strainer cap.

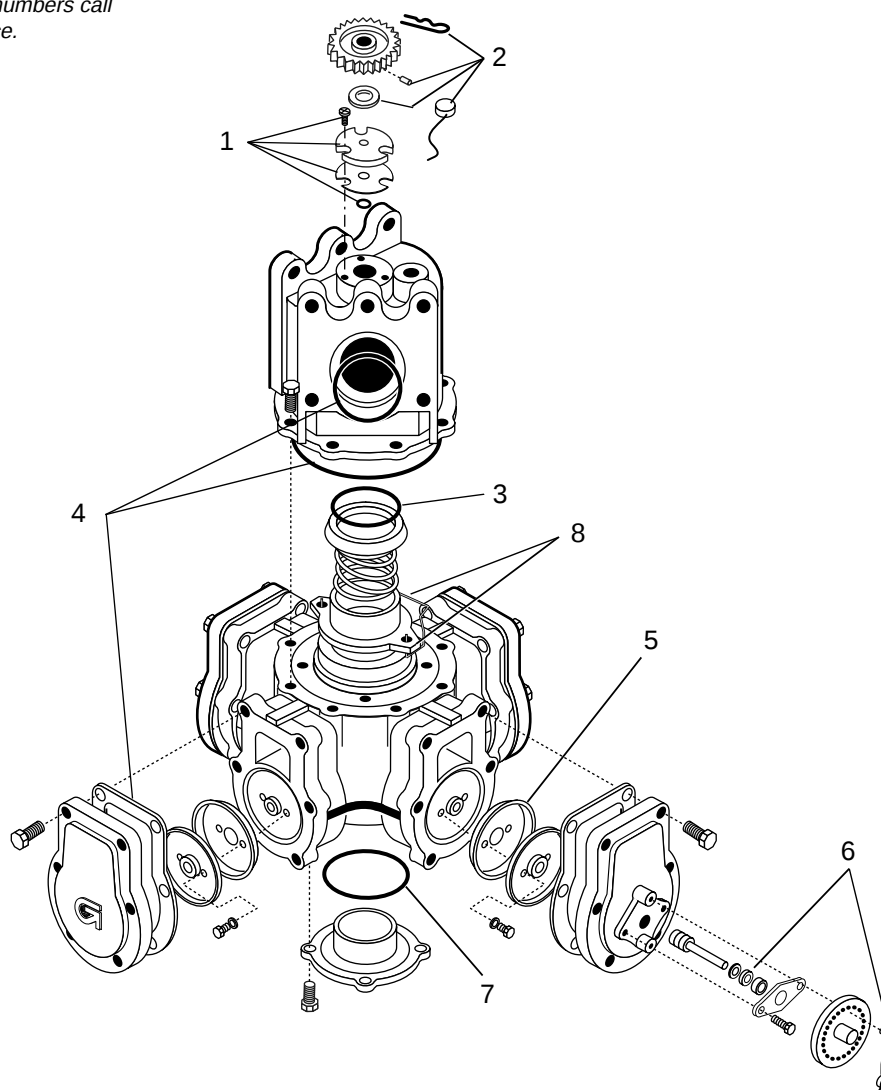


#	Part Description	Part Number	Qty.
1	Feedline Manifold	T16680-10	2
2	Pipe Plug 1/4"	K02279	2
3	Street Elbow 1-1/2" x 45°	K03608-28	4
4	Pipe Union 1-1/2"	K12179	2
5	Pipe Nipple 1-1/2" x 2"	K78580	2
6	O-ring 1-5/16" x 1-9/16" x 1/8"	Q10068-10	4
7	Manifold Flange	N22509-10	4
8	O-ring Kit (includes 4 ea. Q10068-14, 2 ea. Q10068-10) (not shown)	K35206	-
9	Pipe Nipple 3/4" x 1-1/2"	R11496-54	8
10	Bolt 1/4-20 x 3/4"	Q10865-02	16
11	Filter Base	R11599-20	4
12	Filter, Standard	K82584	4
	Filter, Water Alert	N21611	-
	Filter, Alcohol Blends	N22838	6
13	Strainer Insert	R18183	4
14	Cap	N21076	4
15	Solenoid Blend Valve	R18591-01	4
15a	O-ring Replacement Kit	K35356	-
15b	Hydraulic Valve Assembly	R18591-02	-
15c	Solenoid Assembly	R18591-03	-
15d	Casting	R18591-04	-
16	Feedline Assembly "LB"	R19082-G1	1
17	Flange 3/4"	K51145-G01	4
18	Feedline Assembly "HB"	R19084-G1	1
19	Feedline Assembly "LA"	R19083-G1	1
20	Feedline Assembly "HA"	R19085-G1	1
21	O-ring 1-5/8" x 1 x 1/8"	Q10068-14	4
22	Shear Valve 1-1/2" (not shown)	R16854	2
23	Fuel Collector (not shown)	K35403	-

Plate 16: Gilbarco "C" Meter PA024TC10

Quantity shown per meter.

For complete meter part numbers call
Gilbarco Customer Service.



#	Part Description	Part Number	Qty.
1	Quad Ring Field Service Kit (Includes Quad Ring Shaft Seal, Seal Cap Gasket, 3-Screws, Seal Wire, Seal Installation Sleeve, Seal Removal Tool, Seal Cap Alignment Tool)	K35222	1
2	Electronic Gear Kit (Includes One 40 Teeth Gear, Groove Pin, Washer and Seal Wire)	K35357	-
3	Valve Seal O-Ring	N18254-04	1
4	Gasket and O-ring Kit (Includes 4 Cylinder Cover Gaskets, 2 Inlet/Discharge Flange O-rings and Cover O-ring)	K35359	-
5	Formed Piston Cup (Rulon)	N21252	4
6	Adj. Cylinder Cover Kit (Includes Adjusting Packing, Pin and Seal Wire)	K35361	-
7	Lower Housing O-Ring	Q10068-14	1
8	Valve Seal Kit (includes retainer and valve seal)	K35514	1

Plate 17.1 Discharge Piping, Internal View • MPD®

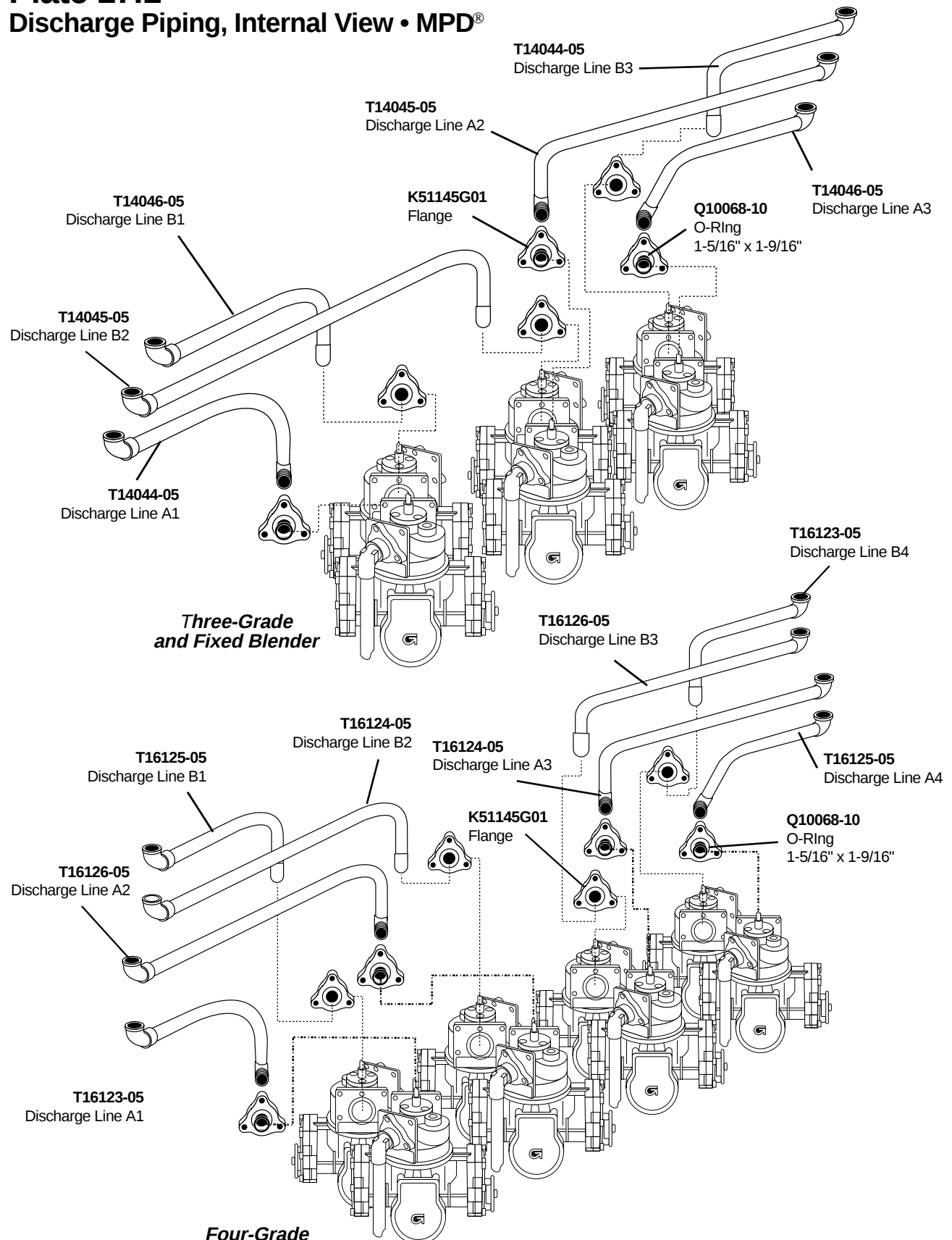
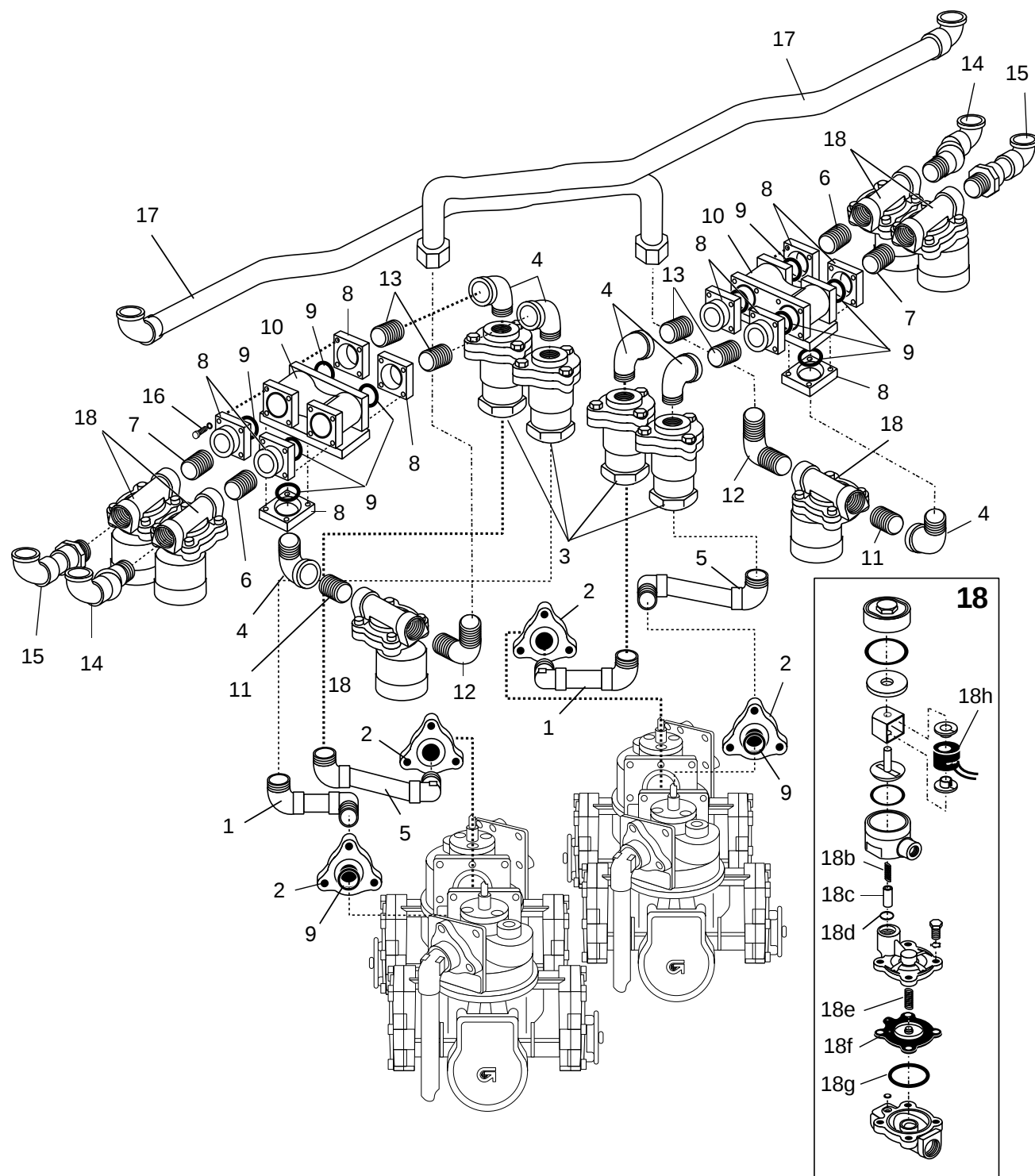


Plate 17.2

Discharge Piping, Internal View • MPD Precision Blender™

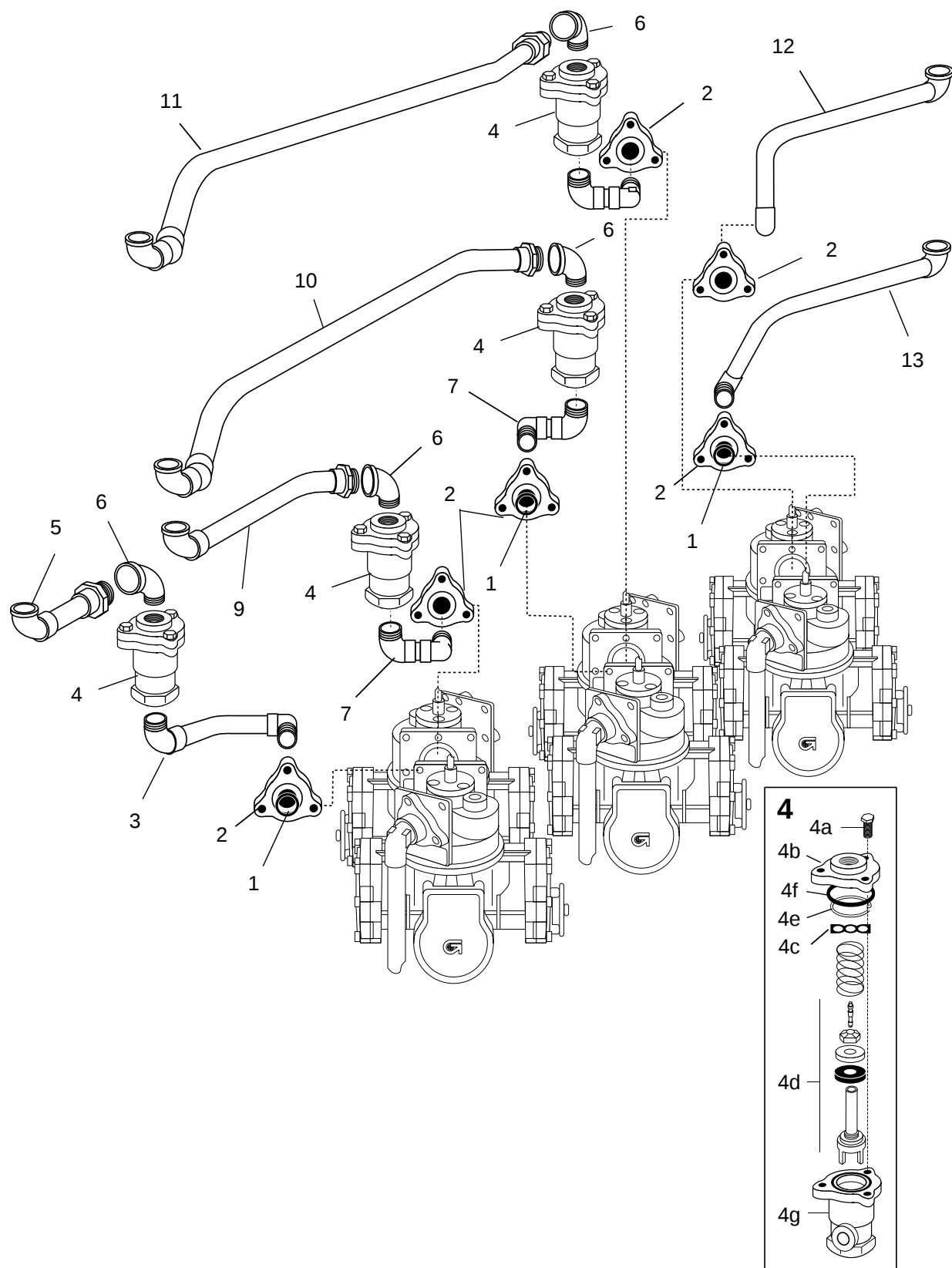


Discharge Piping

#	Part Description	Part Number	Qty.
1	Soldered Tube	N23086-G1	2
2	Feedline Flange 3/4"	K51145-G01	4
3	Check Valve Assembly (Includes 10-16)	PA0059-03	4
4	Street Elbow 3/4" x 90°	K21703	6
5	Soldered Tube	N23085-G1	2
6	Pipe Nipple 3/4" x 1-1/4"	R11496-67	2
7	Pipe Nipple 3/4" x 2-1/8"	R11496-22	2
8	Manifold Flange	N22509-10	10
9	O-ring 1-5/16" x 1-9/16" x 1/8"	Q10068-10	10
10	Manifold Body	T18401-10	2
11	Pipe Nipple 3/4" x 1-1/2"	R11496-54	2
12	Flare Elbow 3/4" x 90°	K76203	2
13	Pipe Nipple 3/4" x 1-1/4"	R11496-67	4
14	Soldered Tube Assembly	N23088-G1	2
15	Soldered Tube Assembly	N23089-G1	2
16	Bolt 1/4-20 x 5/8"	K14831	40
17	Discharge Line	W02739-G1	2
18	Solenoid Valve, 115VAC	N21026-01	6
	Solenoid Valve, 230VAC	N21026-02	-
18a	Rebuild Kit (Includes 18b-18g)	N21026-35	-
18b	Core Spring	-	-
18c	Core	-	-
18d	Bonnet Gasket	-	-
18e	Diaphragm Spring	-	-
18f	Diaphragm Assembly	-	-
18g	Body Gasket	-	-
18h	Coil, 115VAC	N21026-20	-
	Coil, 230VAC	N21026-36	-

Plate 17.3

Discharge Piping, Internal View • MPD Pro Blender™



Discharge Piping

#	Part Description	Part Number	Qty.
1	O-ring 1-5/8" x 1-7/8" x 1/8"	Q10068-14	6
2	Flange	K51145-G01	6
3	Discharge Line (LB)	R18787-G1	1
4	Check Valve Assembly (Includes 4a-4g)	PA0059-03	4
4a	Bolt #1/4-20 x 3/4"	Q10865-02	-
4b	Valve Cap	N18390-10	-
4c	Stem Guide	K82048-22	-
4d	Check Valve	N22955-G2	-
4e	Retaining Ring	K84729	-
4f	O-ring	Q10068-16	-
4g	Valve Body	R12452-10	-
5	Discharge Line (LB)	N23024-G1	1
6	Street Elbow 90° x 3/4"	K21073	4
7	Discharge Line (HB, LA, HA)	N23023-G1	3
9	Discharge Line (HB)	R18786-G1	1
10	Discharge Line (HA)	R18788-G1	1
11	Discharge Line (LA)	R18789-G1	1
12	Discharge Line	T14046-04	1
13	Discharge Line	T14044-04	1

Discharge Piping

Plate 18.1

Discharge Piping, Side View with Vapor Piping • MPD®

Three-Grade, Fixed Blender and Precision Blender

See page 51 for Part Numbers.

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

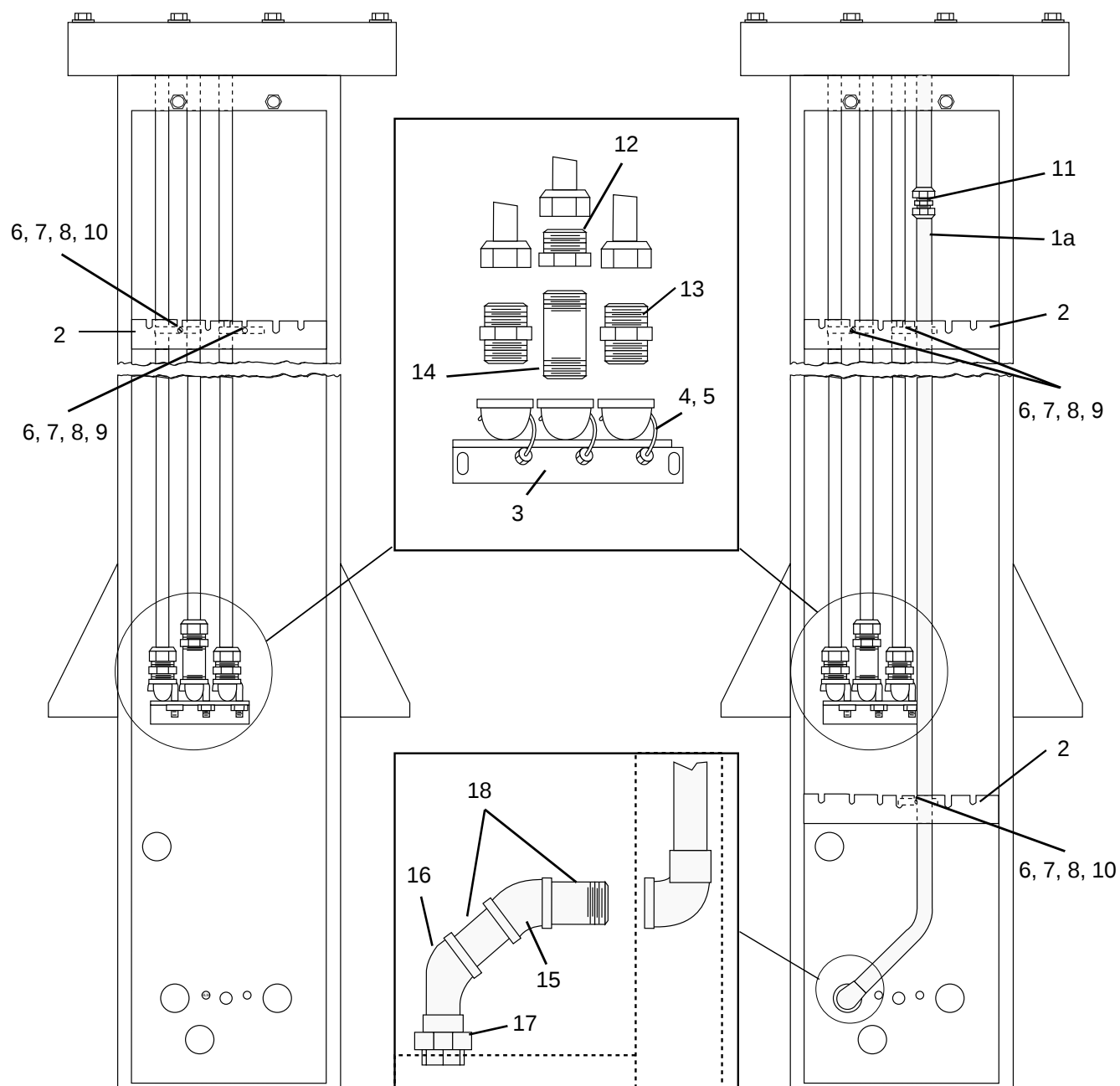
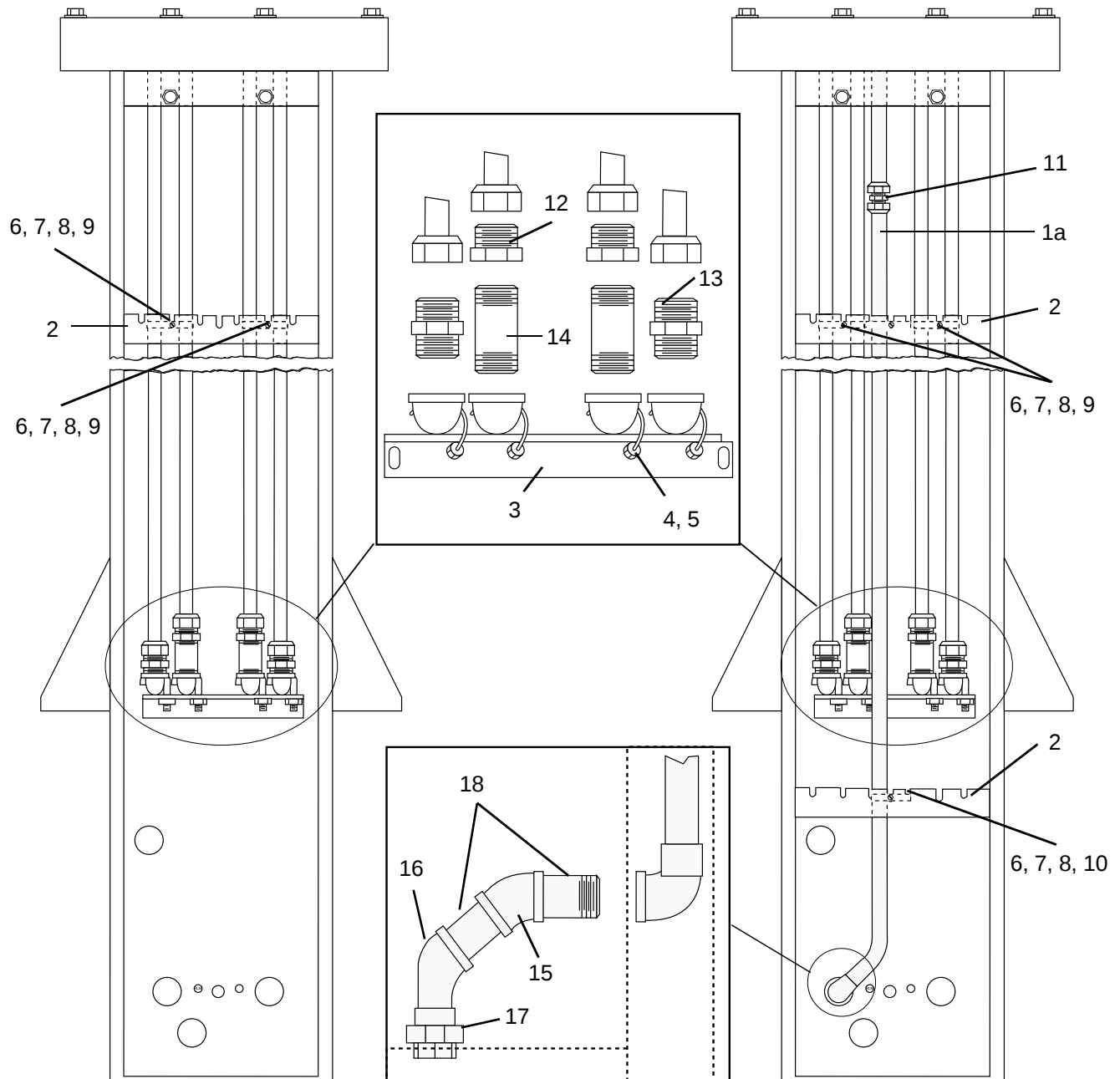


Plate 18.2

Discharge Piping, Side View with Vapor Piping • MPD® Four-Grade

See page 51 for Part Numbers.

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.



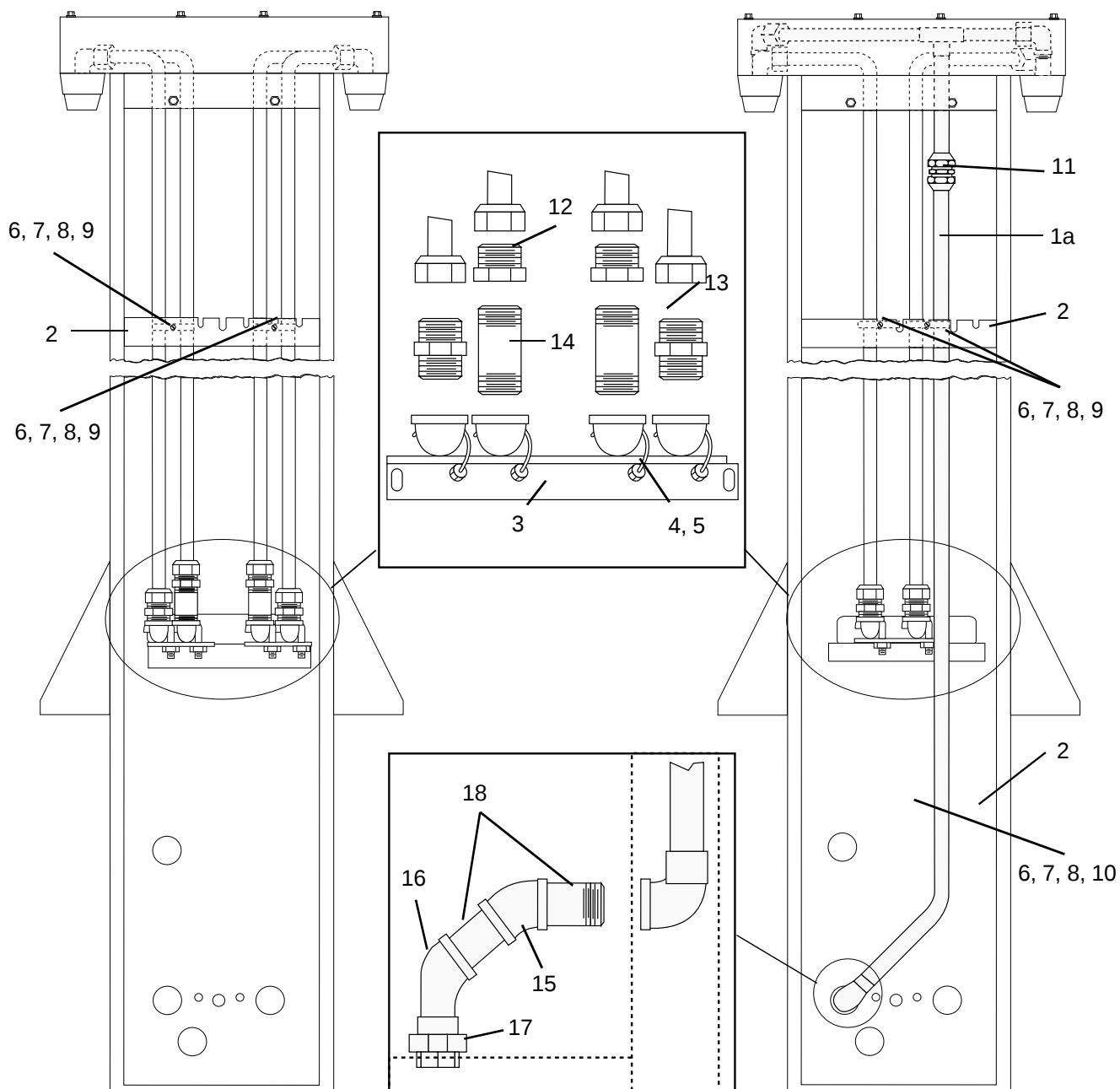
Discharge Piping

Plate 18.3

Discharge Piping, Side View with Vapor Piping • MPD Pro Blender™

See page 51 for Part Numbers.

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.



Discharge Piping

#	Part Description	Part Number	Qty.
1a	Lower Vapor Recovery Line, Pro Blenders Only	T17265-G1	1
1b	Lower Vapor Recovery Line, All Other Units	T18335-G1	1
2	Pipe Clamp Bracket	T16133	*
3	Pipe Clamp Bracket	T16683	*
4	Clamp Hook	K90016	*
5	Hex Nut 1/4-20	Q11890-04	*
6	Flat Washer 1/4"	K14056	*
7	Screw #1/4-20 x 2"	K02447	*
8	Lock Washer 1/4"	K50773	*
9	Pipe Clamp (Dual)	K92857	*
10	Pipe Clamp (Single)	K92858	*
11	Coupling 3/4"	K93489-02	*
12	Straight Fitting	Q11858-01	*
13	Straight Fitting	K81023	*
14	Pipe Nipple 3/4" x 3"	K02956	*
15	Elbow 45° x 3/4"	K03068-21	*
16	Elbow 45° x 3/4"	K76400	*
17	Union	K07898	*
18	Nipple	R11495-34	*

* Quantity varies with model.

Discharge Piping

Plate 19.1

Discharge Piping, Upper View with Vapor Piping • 17" Top Single Sided

MPD® Three-Grade, Fixed Blender and Precision Blender

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

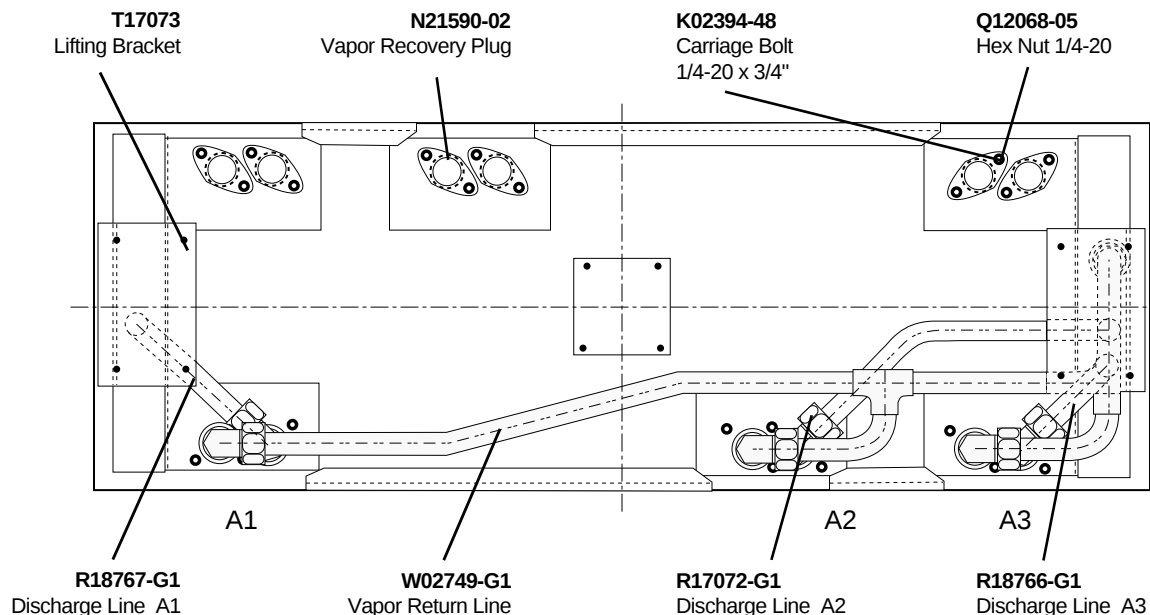


Plate 19.2

Discharge Piping, Upper View with Vapor Piping • 17" Top Two Sided

MPD Three-Grade, Fixed Blender and Precision Blender

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

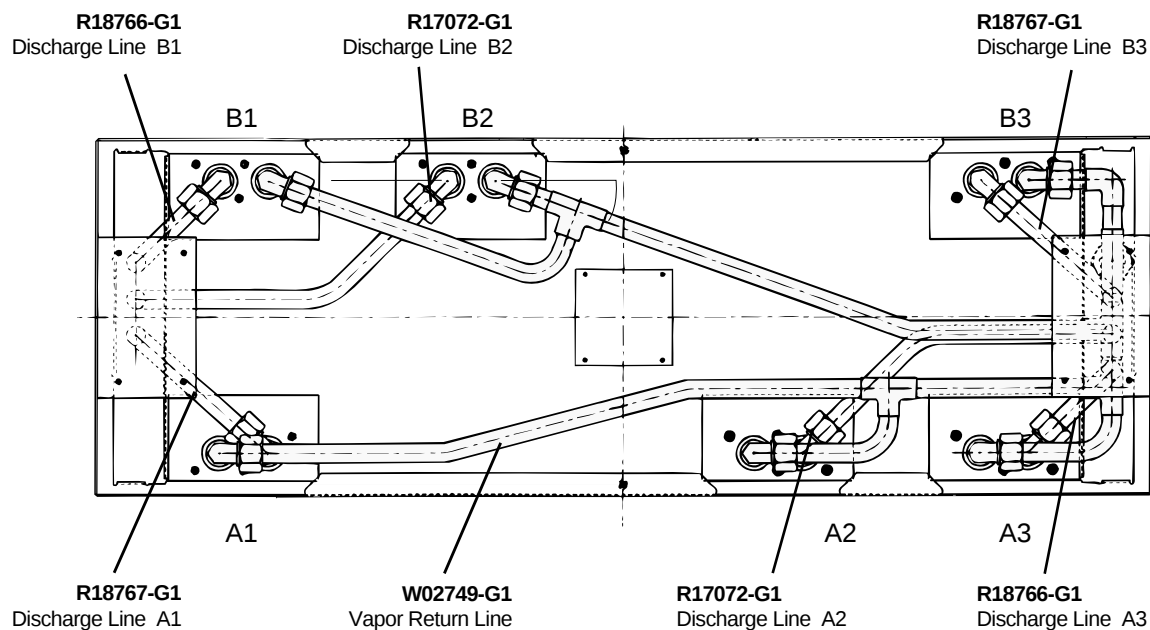


Plate 19.3

Discharge Piping, Upper View with Vapor Piping • 21" Top Single Sided

MPD® Three-Grade, Fixed Blender and Precision Blender

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

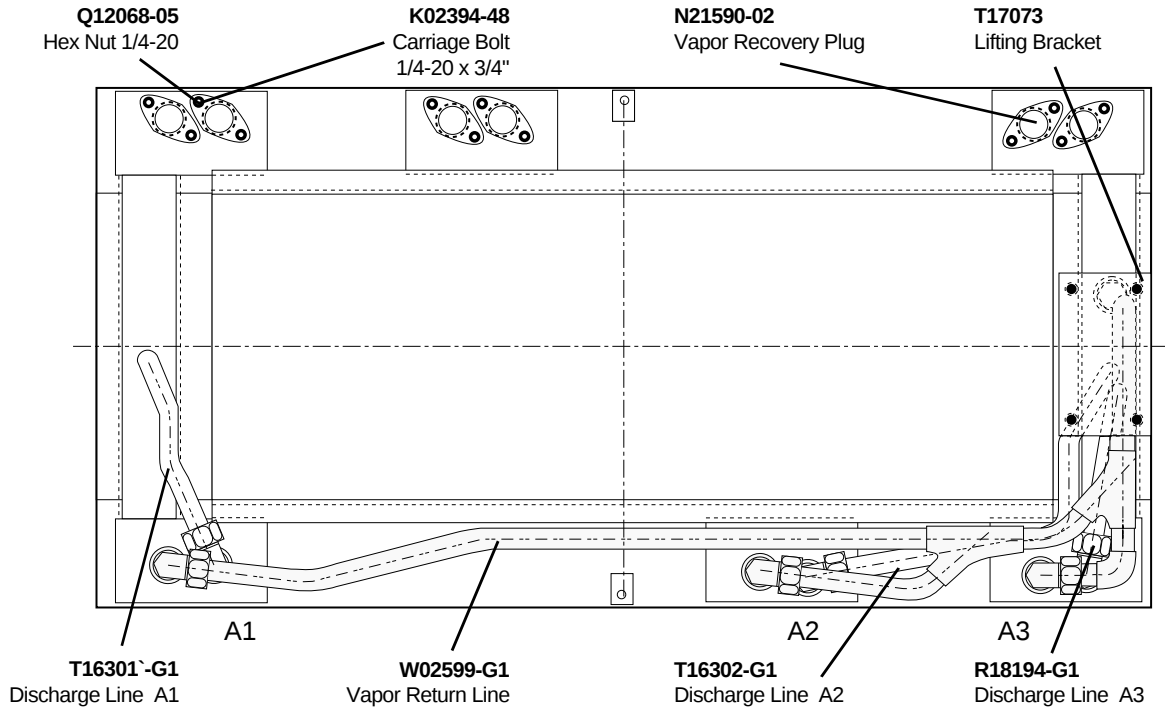
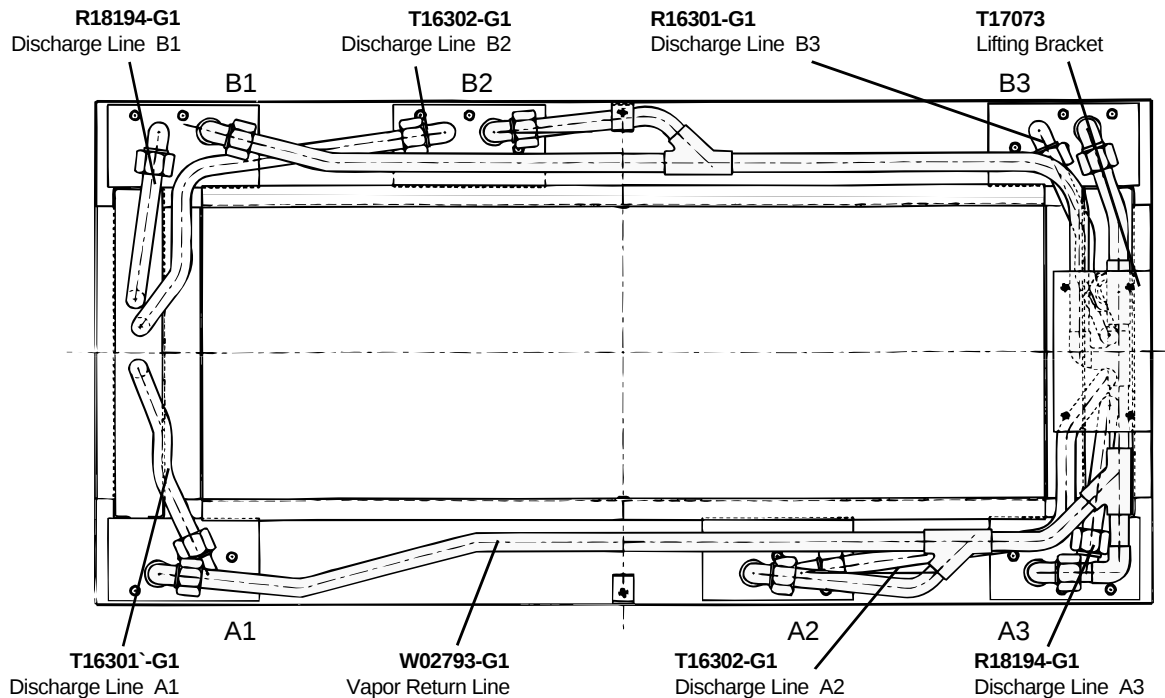


Plate 19.4

Discharge Piping, Upper View with Vapor Piping • 21" Top Two Sided

MPD Three-Grade, Fixed Blender and Precision Blender

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.



Discharge Piping

Plate 19.5

Discharge Piping, Upper View with Vapor Piping • Single Sided

MPD® Four-Grade

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

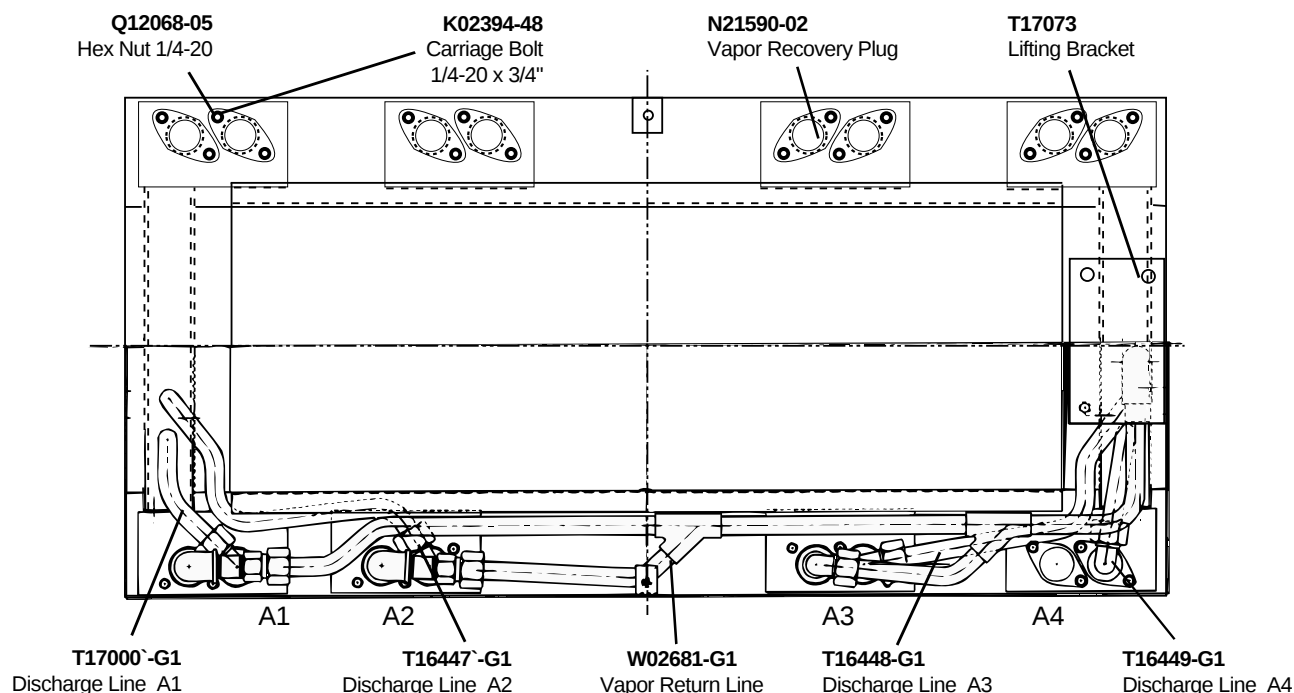


Plate 19.6

Discharge Piping, Upper View with Vapor Piping • Two Sided

MPD Four-Grade

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

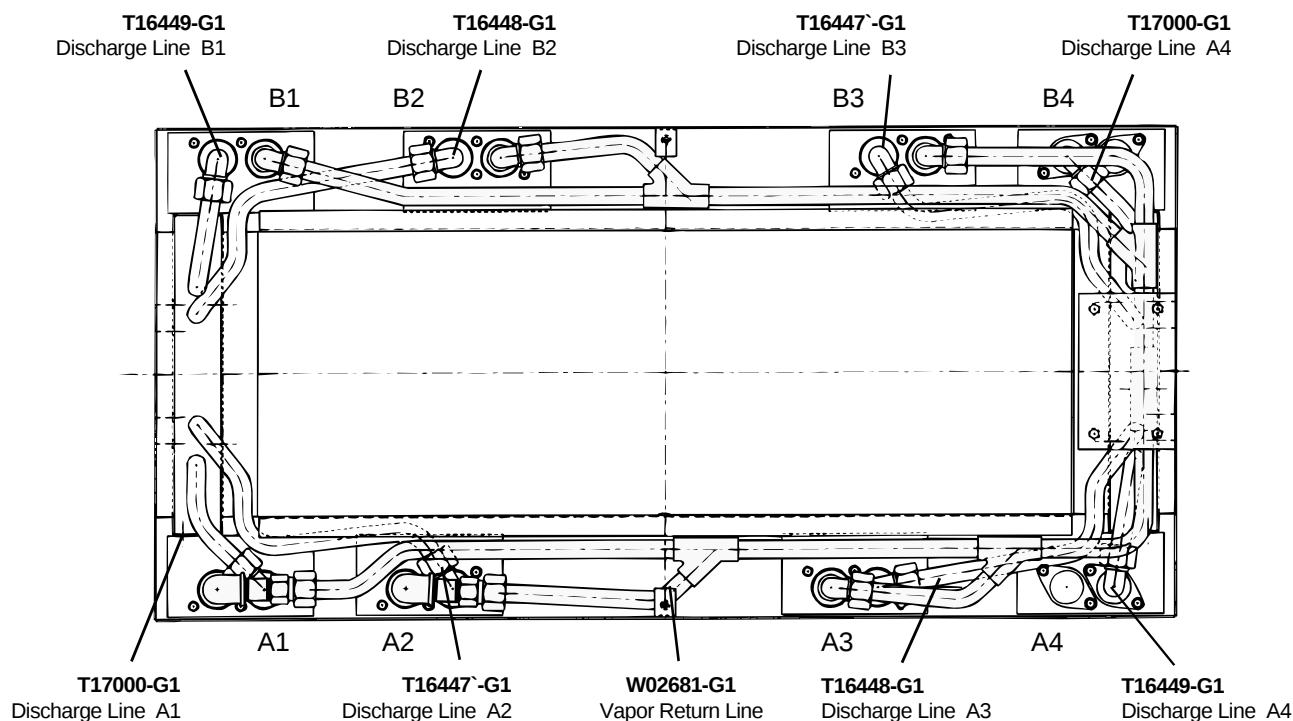
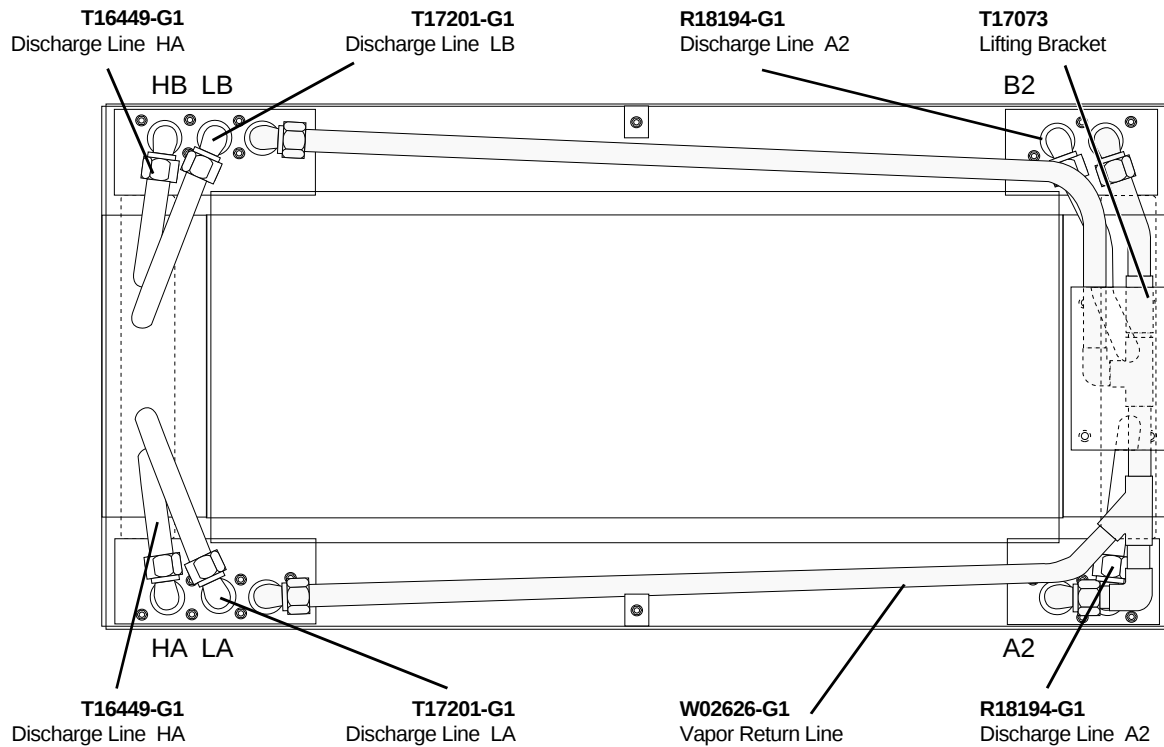


Plate 19.7

Discharge Piping, Upper View with Vapor Piping • Two Sided

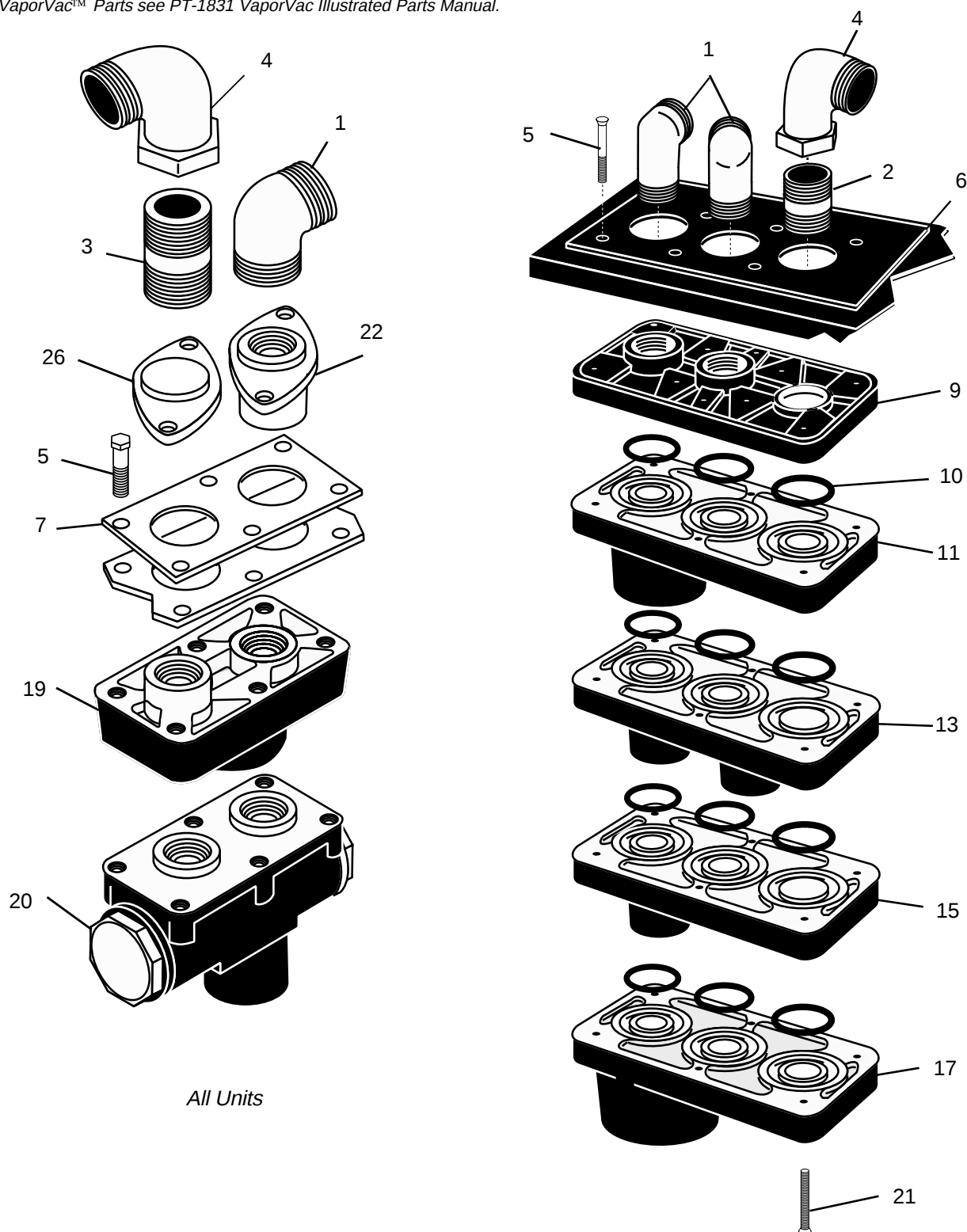
MPD Pro Blender™



Discharge Piping

Plate 20 Discharge Casings • All Units

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.



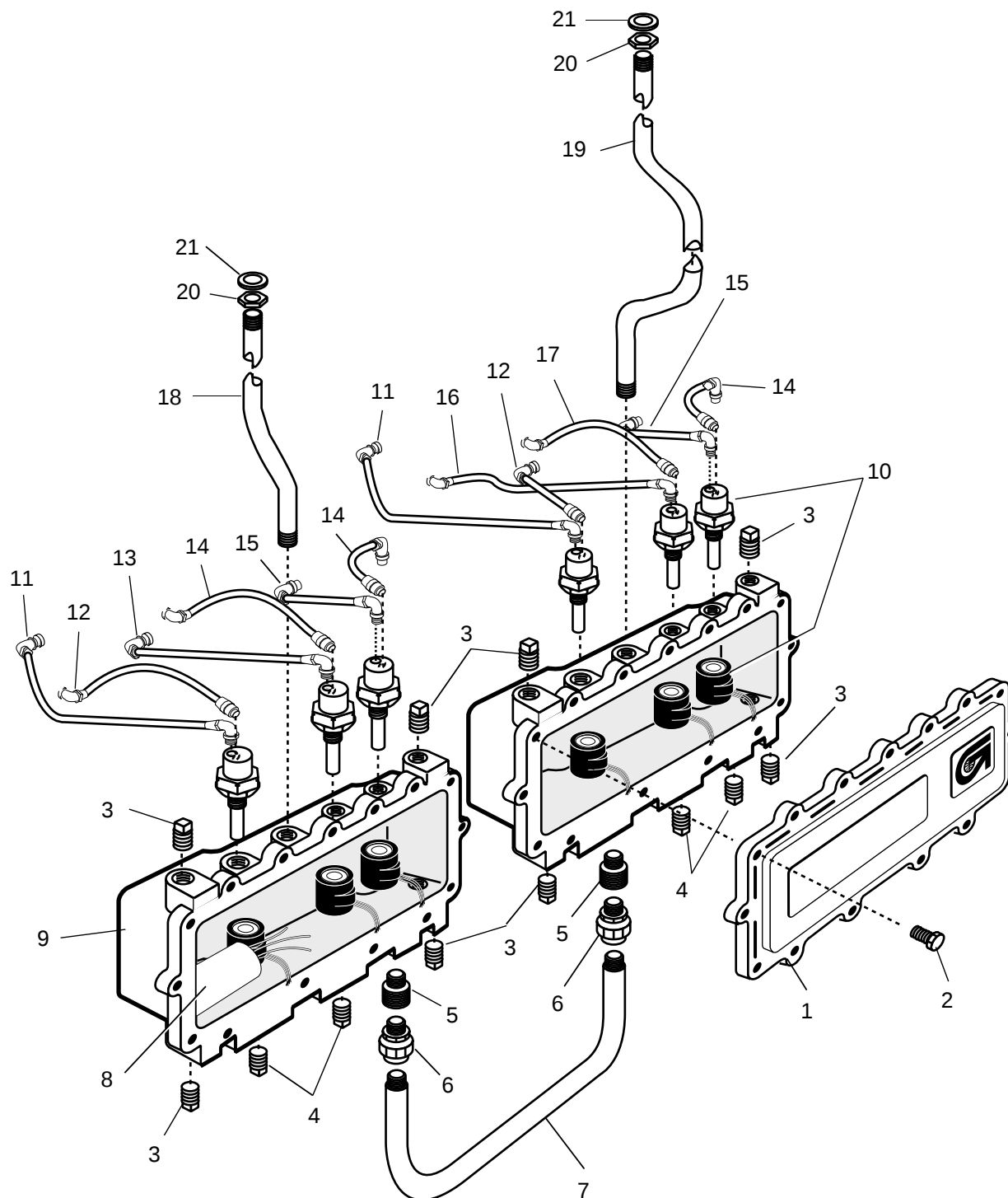
Discharge Piping

#	Part Description	Part Number	Qty.
1	Elbow 3/4" x 90°	K76203	2
2	Nipple 3/4" x 2" (Vapor only)	R11496-27	1
3	Nipple 3/4" x 2" (Vapor only)	R11496-23	1
4	Elbow 3/4" x 90° (Vapor only)	Q10987-01	1
5	Bolt 1/4-20 x 3/4"	Q11889-04	4
6	Stiffening Plate	N23032	1
7	Stiffening Plate	N23012	1
9	Upper Casting	T18308-10	1
10	O-ring 1-1/8" x 1-1/2" x 3/16"	Q10069-27	3
11	Vapor Recovery Casting (Blend in Casting)	W02614-10	1
12	Casting Kit (Includes 10, 13, 21)	K35446	-
13	Vapor Ready Casting (Blend at Nozzle, dual hose)	T17256-10	1
14	Casting Kit (Includes 10, 13, 15)	K35468	-
15	Vapor Ready Casting (Blend in Casting, single hose)	T18396-10	1
16	Casting Kit (Includes 10, 15, 21)	K35447	-
17	Vapor Recovery Casting (Dayco Tri-Axial, blend inside hose)	W02646-10	1
18	Casting Kit (includes 10, 17, 21)	K35467	-
19	Hose Casting	N22956-G1	1
	Hose Casting Kit (includes 3-5, 19)	K35187	1
20	Emco-Wheaton Hose Casting	R18564	1
	Emco-Wheaton Hose Casting Kit (includes 20, hardware)	K35181	1
21	Flat Head Screw	Q10972-09	6
22	Non-Vapor Hose Coupling	N21581-02	-
	None-Vapor Hose Coupling Kit (includes 21, hardware)	K35299	1
23	CO-VENT® 2 Retrofit Kit (not shown, includes Venturi valve/hardware)	K35291	1
24	Breakaway Adapter Kit (not shown, Incl. hardware to add Breakaways)	K35379	1
25	Vapor Recovery Hose Adapter (not shown, for Vapor ready, Std. hoses)	N22963	1
26	Vapor Recovery Plug (not shown, Non-vapor only; attach with 27 & 28)	N21590-02	-
27	Carriage Bolt 1/4-20 x 3/4"	K02394-48	-
28	Hex Nut 1/4-20	Q12068-05	-

Plate 21

Junction Box • MPD® Three-Grade and Fixed Blender

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.



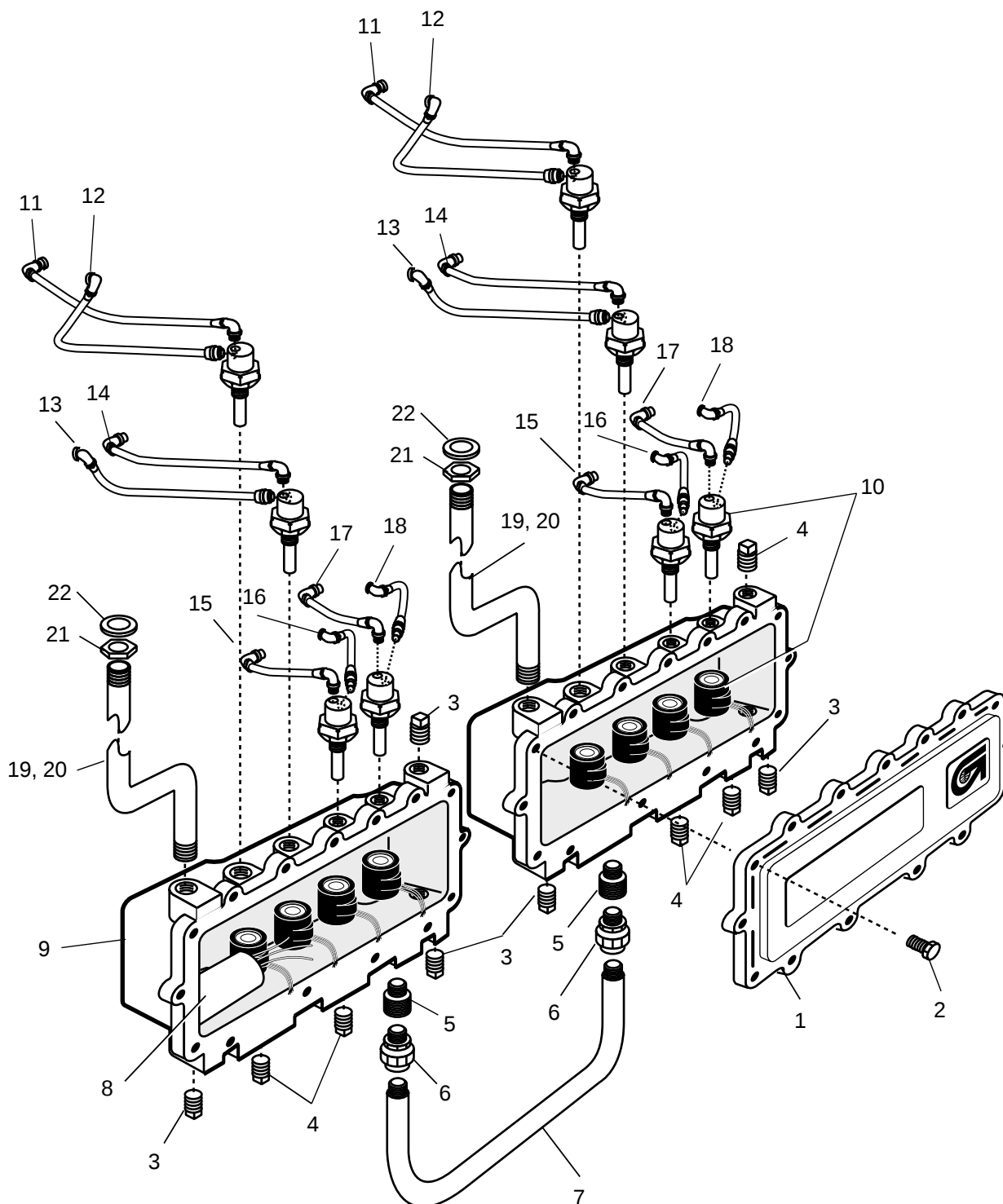
Junction Box and Conduit

#	Part Description	Part Number	Qty.
1	Junction Box Cover	W01452-10	2
2	Bolt #1/4-20 x 3/4"	K43625	28
	Junction Box Cover Kit (Includes 1-2)	K35205	-
3	Pipe Plug 1/2"	K02281	8
4	Pipe Plug 1"	K02283	4
5	Reducing Bushing 1" x 1/2"	K49827-20	2
6	Union	Q10016-04	2
7	Conduit, Crossover	K90909	1
8	Varistor Assembly, 120VAC	R15654-G2	1
	Varistor Assembly, 220VAC	R15654-G3	1
9	Junction Box	W01453-31	2
10	Two Stage Pilot Valve		6
	115VAC	N23059	-
	220VAC	N23059-05	-
	Coil Only, 110VAC	N23059-01	-
	Coil Only, 220VAC	N23059-06	-
	Valve Rebuild Kit	N23059-02	-
11	Inlet Tube	N23062-G1	2
12	Outlet Tube	N23063-G1	2
13	Inlet Tube	N23062-G2	1
14	Outlet Tube	N23063-G2	3
15	Inlet Tube	N23062-G4	2
16	Inlet Tube	N23062-G3	1
17	Outlet Tube	N23063-G3	1
18	Conduit and Wire Assembly	T16669-G2	1
19	Conduit and Wire Assembly	T16669-G1	1
20	Conduit Seal Nut	K89681	2
21	Washer	N16599-65	2

Plate 22

Junction Box • MPD® Four-Grade

For VaporVac™ Parts see PT-1831 VaporVac Illustrated Parts Manual.

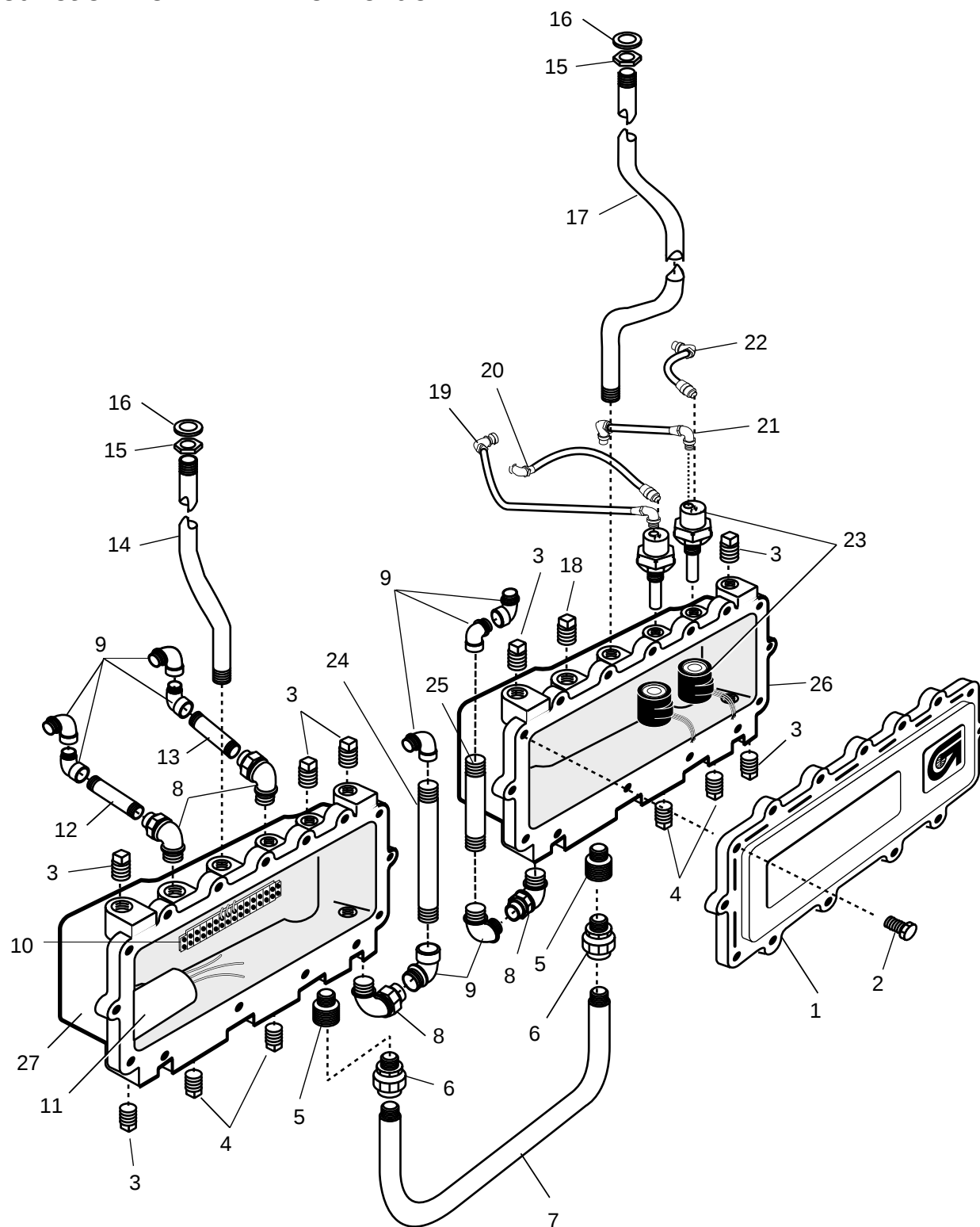


Junction Box and Conduit

#	Part Description	Part Number	Qty.
1	Junction Box Cover	W01452-10	2
2	Bolt #1/4-20 x 3/4"	K43625	28
	Junction Box Cover Kit (Includes 1-2)	K35205	-
3	Pipe Plug 1/2"	K02281	6
4	Pipe Plug 1"	K02283	4
5	Reducing Bushing 1" x 1/2"	K49827-20	1
6	Union	Q10016-04	2
7	Conduit, Crossover	K93011	1
8	Varistor Assembly, 120VAC	R15654-G2	1
	Varistor Assembly, 220VAC	R15654-G3	1
9	Junction Box	W01453-31	2
10	Two Stage Pilot Valve	N23059	8
	110VAC	N23059	-
	220VAC	N23059-05	-
	Coil Only, 110VAC	N23059-01	-
	Coil Only, 220VAC	N23059-06	-
	Valve Rebuild Kit	N23059-02	-
11	Inlet Tube	N22778-G1	2
12	Outlet Tube	N22779-G1	2
13	Inlet Tube	N22780-G1	2
14	Outlet Tube	N22781-G1	2
15	Inlet Tube	N22782-G1	2
16	Outlet Tube	N22783-G1	2
17	Inlet Tube	N22784-G1	2
18	Outlet Tube	N22785-G1	1
19	MPD®-1 Conduit and Wires	T16149-01	1
	MPD®-3 Conduit and Wires	T16149-03	1
20	MPD-1 Conduit and Wires	T16149-02	1
	MPD-3 Conduit and Wires	T16149-04	1
21	Conduit Seal Nut	K89681	2
22	Washer	N16599-65	2

Plate 23

Junction Box • MPD Pro Blender™

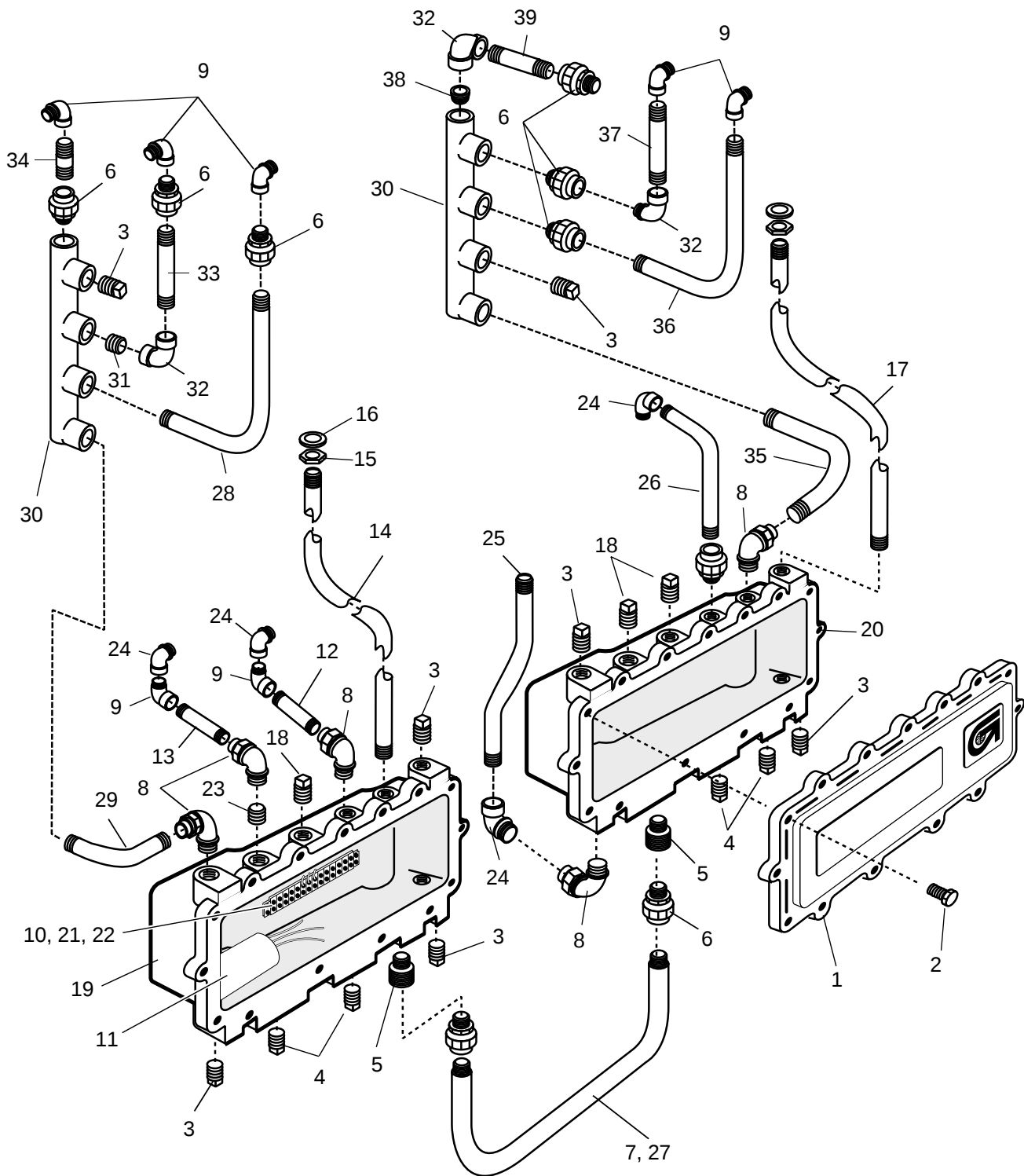


Junction Box and Conduit

#	Part Description	Part Number	Qty.
1	Cover, Junction Box	W01452-10	2
2	Bolt 1/4-20 x 3/4"	K43625	28
	Junction Box Cover Kit (Includes 1-2, one set)	K35205	-
3	Pipe Plug 1/2"	K02281	7
4	Pipe Plug 1"	K02283	4
5	Reducer 1" x 1/2"	K49827-20	2
6	Union	Q10016-04	2
7	Conduit, Crossover	K90909	1
8	Union, Elbow 1/2" x 90°	K92564	4
9	Elbow, 1/2" x 90°	K42448	9
10	Terminal Strip	K92471-01	1
11	Varistor Assembly, 120VAC	R15654-G2	1
	Varistor Assembly, 240VAC	R15654-G3	1
12	Nipple, 1/2" x 5-3/4"	K49221	1
13	Nipple, 1/2" x 6"	K19579	1
14	Conduit and Wire Assembly	T16669-G4	1
15	Conduit Seal Nut	K89681	2
16	Flat Washer	N16599-65	2
17	Conduit and Wire Assembly	T16669-G3	1
18	Pipe Plug 3/4"	K02282	1
19	Inlet Tube	K93000-01	1
20	Outlet Tube	K92924-02	1
21	Inlet Tube	K93001	1
22	Outlet Tube	K92924-01	1
23	Two-Stage Pilot Valve		2
	110/115/120VAC	N23059	-
	220/230/240VAC	N23059-05	-
	Coil Only, 115VAC	N23059-01	-
	Coil Only, 230VAC	N23059-06	-
	Valve Rebuild Kit	N23059-02	-
24	Nipple 1/2" x 8-1/8"	R11976-37	1
25	Nipple 1/2" x 5-1/4"	K21156	1
26	Junction Box	W01453-31	1
27	Junction Box	W01453-33	1

Plate 24

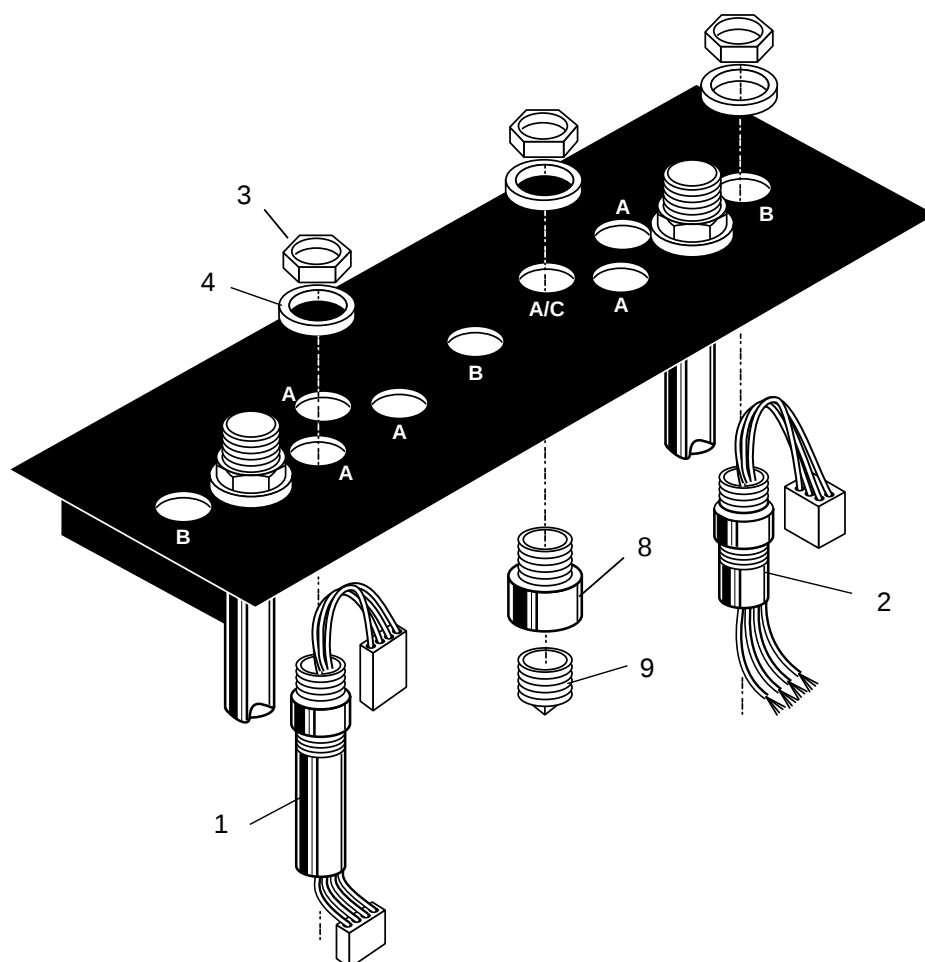
Junction Box • MPD® Precision Blender



Junction Box and Conduit

#	Part Description	Part Number	Qty.
1	Cover, Junction Box	W01452-10	2
2	Bolt 1/4-20 x 3/4"	K43625	28
	Junction Box Cover Kit (Includes 1-2, one set)	K35205	-
3	Pipe Plug 1/2"	K02281	7
4	Pipe Plug 1"	K02283	4
5	Reducer 1" x 1/2"	K49827-20	2
6	Union	Q10016-04	8
7	Conduit, Crossover	K90909	1
8	Union, Elbow 1/2" x 90°	K92564	4
9	Elbow, 1/2" x 90°	K42448	7
10	Terminal Strip	K92471-01	1
11	Varistor Assembly, 120VAC	R15654-G2	1
	Varistor Assembly, 240VAC	R15654-G3	1
12	Nipple, 1/2" x 5-3/4"	K49221	1
13	Nipple, 1/2" x 6"	K19579	1
14	Conduit and Wire Assembly	T18402-G1	1
15	Conduit Seal Nut	K89681	2
16	Flat Washer	T18402-G2	2
17	Conduit and Wire Assembly	T16669-G3	1
18	Pipe Plug 3/4"	K02282	3
19	Junction Box	W01453-31	1
20	Junction Box	W01453-33	1
21	Lock Washer #6	K66620	2
22	Hex Nut #6-32	K66857	2
23	Reducer 3/4" x 1/2"	K49827	1
24	Conduit Elbow 1/2" x 90°	K42448	4
25	Conduit, Bent	N23087	1
26	Conduit, 90° Bend	R12579-105	1
27	Junction Box Jumper Wires	K90910-06	1
28	Conduit, 90° Bend	R12579-103	1
29	Conduit, 30° Bend	N23082	1
30	Conduit Manifold	R17627-10	2
31	Conduit Nipple 1/2" x 1-1/8"	K18775	1
32	Conduit Elbow 1/2" x 90°	K42428	2
33	Conduit Elbow 1/2" x 5-3/8"	K14004	1
34	Nipple 1/2" x 2-1-1/2"	K50861	1
35	Conduit, 52° Bend	N23083	1
36	Conduit, 90° Bend	R12579-104	1
37	Conduit Nipple 1/2" x 4-3/4"	K42428	1
38	Conduit Nipple 1/2" x 1-3/8"	K42428	1
39	Conduit Nipple 1/2" x 2-1/4"	K42428	1

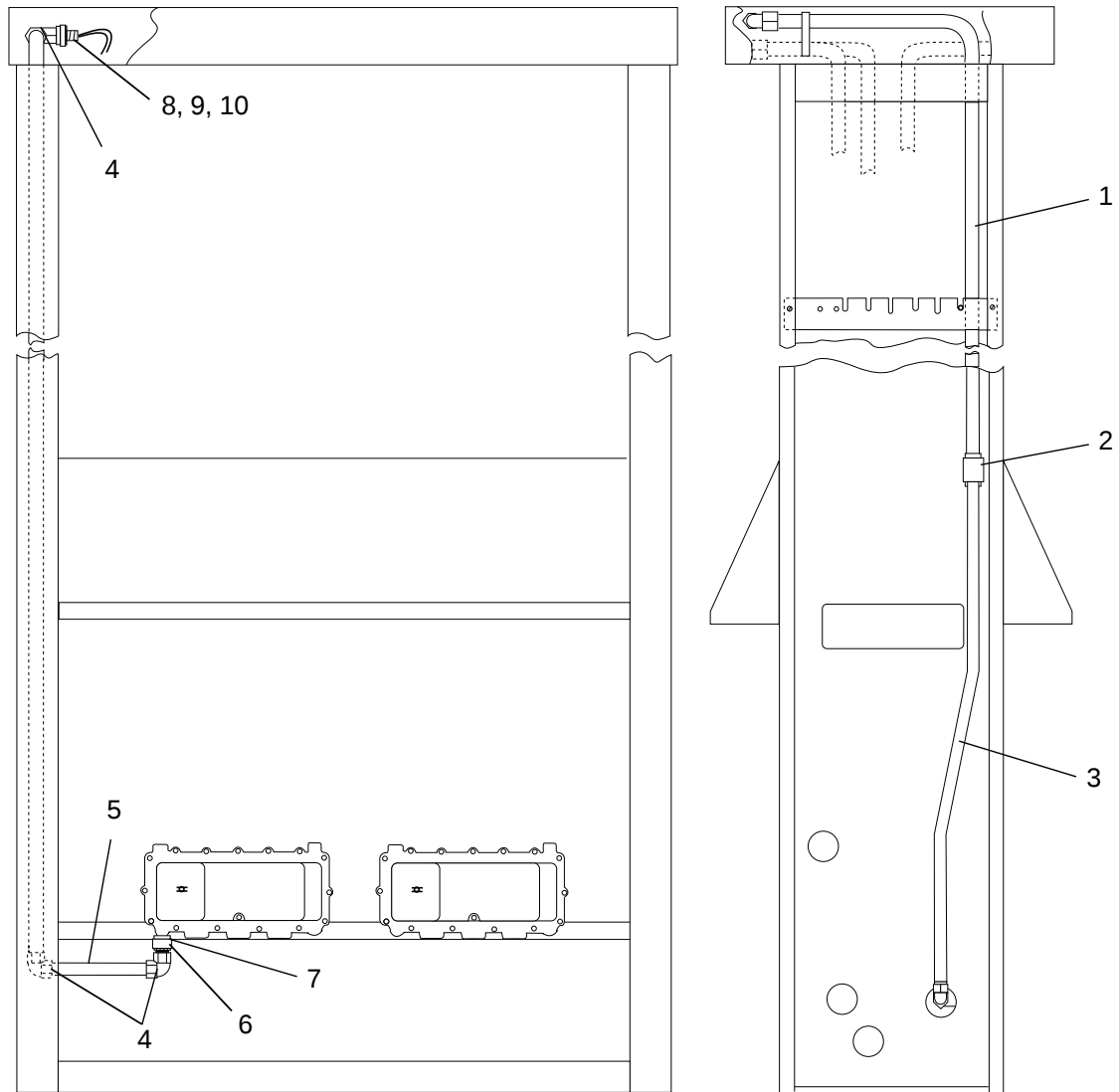
Plate 25 Vapor Barrier • All Models



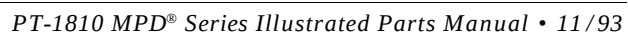
#	Part Description	Part Number	Qty.
1	I.S. Barrier Assembly, (pulser, "A" hole)	T13713-G10	*
2	I.S. Barrier Assembly, (pump handle, "B" hole)	R16419-G1	*
3	Conduit Seal Nut	K89681	*
4	Washer	N16599-65	9
5	Pump Handle I.S. Barrier Kit (includes 2-4, not shown)	K35296	-
6	Pulser I.S. Barrier Kit (Includes 1, 3 & 4, not shown)	K35297	-
7	Cable Harness, Vapor Barrier To Electronics Module (not shown)	-	1
	Three-Grade, Fixed Blender and Precision Blender	T14090	-
	Four-Grade	R18046	-
	Pro Blender	T17202-G1	-
8	Conduit Enlarger 1/2"x3/4" ("C" Hole) Precision Blender	K81090-20	1
9	Pipe Plug 3/4" Precision Blender	K02282	1

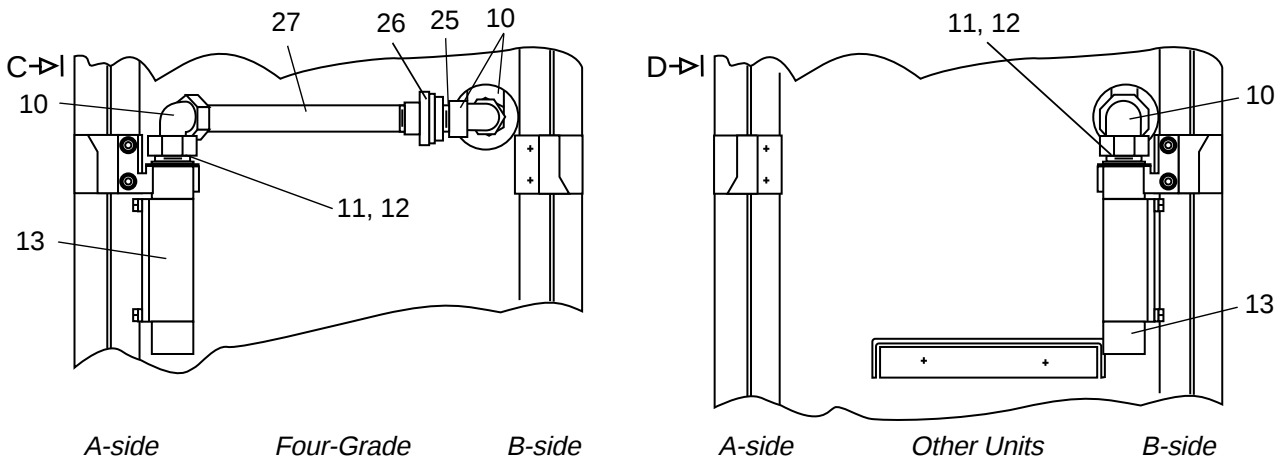
* Quantity varies with model.

Plate 26 Light Conduit • Optional All Models



#	Part Description	Part Number	Qty.
1	Light Conduit	R12579-106	1
2	Expansion Union 1/2"	N16289-21	1
3	Light Conduit	T18376	1
4	Elbow 90° x 1/2"	K42428	3
5	Light Conduit	N23070-02	1
6	Nipple 1/2" x 1-1/8"	K18775	1
7	Union 1/2"	Q10016-04	1
8	Conduit Nut 1/2"	K89681	2
9	Flat Washer	N16599-59	2
10	Nipple and Wire Assembly	R19101-G1	1



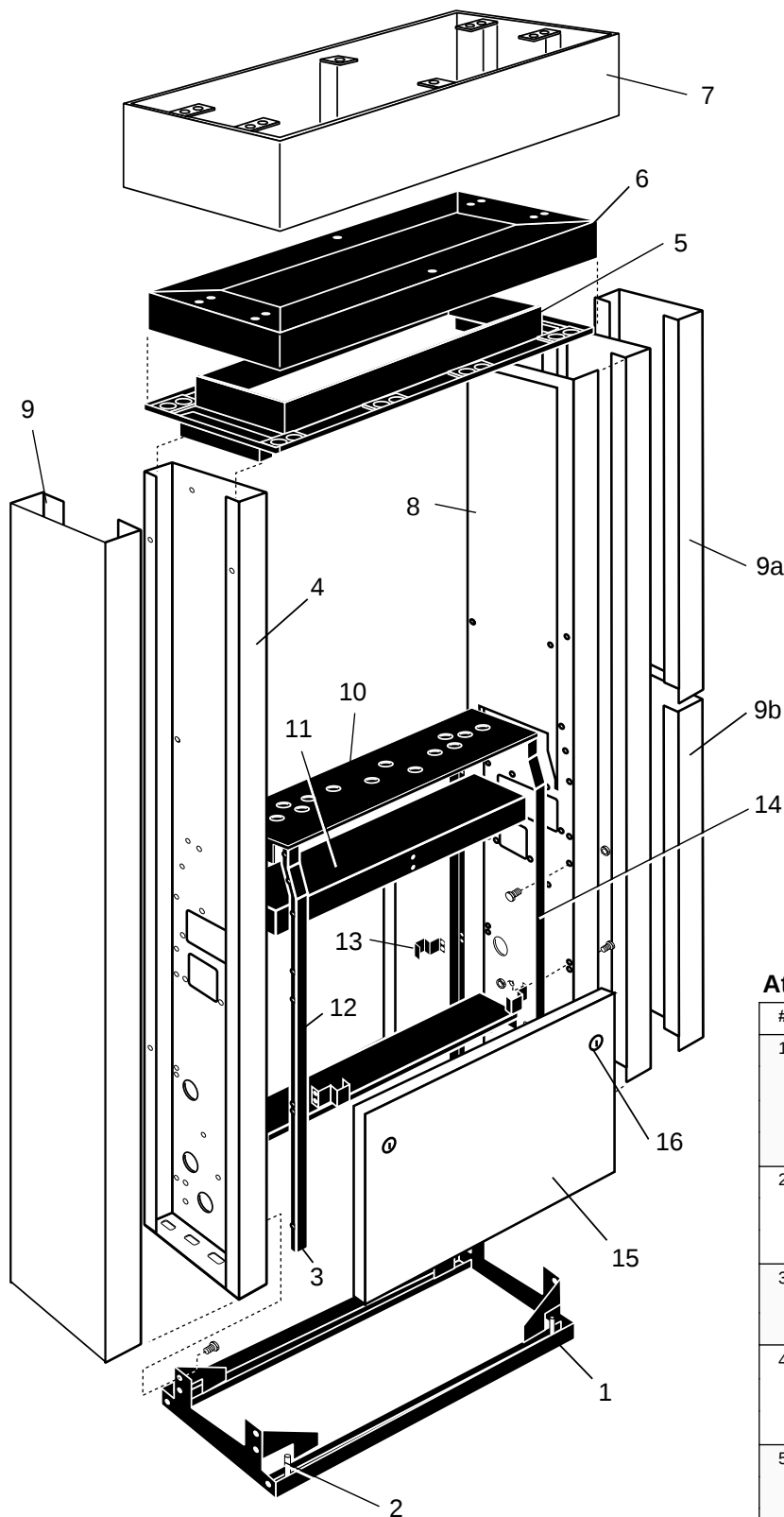


#	Part Description	Part Number	Qty.
1	Box Connector	K92704	1
2	Junction Box	Q10974-01	1
3	Canopy Conduit	R16319-02	1
4	Nut 1/4-20	Q11890-04	*
5	Screw 1/4-20 x 5/8"	K11061	*
6	Tubing Clamp	K90912	1
7	Conduit Coupling	K86074	1
8	Conduit and Wire Assembly	T15637	1
9	Speaker Box Bracket	R19060	1
10	Conduit Elbow	K42428	*
11	Conduit Nipple	K43031	1
12	Conduit Lock Nut	K76434	1
13	Power Line Junction Box	K72943	1
14	Cable Clamp Kit	K88349-02	1
15	Speaker Assembly and Cover (includes 16-18)	W02269-G1	1
16	Snap Bushing	K85071-01	1
17	Speaker Assembly	R17464	1
18	Speaker Gasket	N22374	1
19	Speaker Cover	W02142-03	1
20	Cable Tie	Q10178-02	1
21	Wire Clip Bracket	K92744	1
22	Pipe Clamp Bracket	T16133	1
23	Screw 1/4-20 x 1/2"	K10232	1
24	Wire Connector	K81105-20	2
25	Conduit Nipple 1/2" x 1-1/4" Four-Grade Only	K10842	1
26	Conduit Union M/F 1/2" Four-Grade Only	Q10016-04	1
27	Speaker Conduit Four-Grade Only	R18605	1
28	Conduit and Wire Assembly Four-Grade Only	T16833-G1	1
29	Speaker Kit (includes 1-24)	K35025	-
	Speaker Kit Four-Grade Only (includes 1-28)	K35469	-

* Quantity varies with model.

Plate 28

Frame and Sheathing • All Models



Attaching Hardware (not shown)

#	Part Description	Part Number	Qty.
1	Sheathing To Columns:		
	Screw #10-32 x 1", Sstl.	Q11270-174	16
	Screw #10-32 x 1", Black	Q11270-274	16
	Nylon Washer	K90997	16
2	Piping Housing Cover To Columns:		
	Tee Bolt 5/16-18 x 3/4"	K83759-20	8
	Nut 5/16-18	Q11890-05	8
3	Base and Shelves To Columns:		
	Screw 5/16-18 x 3/4"	K85736-43	20
4	Reveal and Panel Lock Brackets To Columns:		
	Bolt, 1/4-20 x 3/4"	K43625	32
	Nut, 1/4-20	Q11890-04	32
5	Vapor Barrier To Column:		
	Bolt 5/16-18 x 1"	K07565	4
	Nut 5/16-18	Q11890-05	4

Frame and Sheathing

#	Part Description	Part Number	Qty.
1	Base, Black All	T17222-G1	1
	Base, Grey All	T17222-G2	1
	Base, Black Four Grade Only	T17223-G1	1
2	Panel Locating Pin Kit	K35338	4
3	Lower Shelf, All	T17200-02	1
	Lower Shelf, Four Grade Only	T16268	1
4	Column	T17196-G3	2
5	Upper Housing, All	W02568-G2	1
	Upper Housing, Four Grade Only	W02568-G6	1
	Upper Housing, 17"	W02601	1
6	Piping Housing Cover, Black	T14096-15	1
	Piping Housing Cover, Grey	T14096-16	1
	Piping Housing Cover, 17" Black	W02542	1
7	Canopy Kit (includes canopy, sides and hardware) *	K34801-XX	-
8	Sheathing, Sstl., Inner	T16662-01	2
	Sheathing, Black, Inner	T16662-02	2
9	Sheathing, Sstl., Outer	T16808	2
9a	Sheathing, Black, Outer, Lower	T16809	2
9b	Sheathing, Black, Outer, Upper	T16810	2
	Sheathing Kit, Sstl. (includes hardware, order one per side)	K35189	-
	Sheathing Kit, Black (includes hardware, order one per side)	K35190	-
10	Vapor Barrier, All	T15937	1
	Vapor Barrier, Four Grade Only	T16131	-
	Vapor Barrier Shim	K91305	2
11	Meter Shelf, All	T17226-01	1
	Meter Shelf, Four Grade Only	T17228	-
12	Reveal Bracket (LH)	T16660-03	2
13	Panel Lock Bracket	R19074	4
14	Reveal Bracket (RH)	T16661-03	2
15	Lower Panel *	T16664-XX	1
	Lower Panel, Sstl *	T16664-G9	-
	Lower Panel, White *	T16664-G11	-
	Lower Panel, Four Grade *	T17214-XX	-
16	Lock and Key Assembly, Sstl.	K34673	4
16a	Spring (not shown)	K83382	-
16b	Spacer (not shown)	K855518	-
16c	Cam (not shown)	K83512-22	-
16d	Nylon Washer (not shown)	K83513	-
16e	Washer (not shown)	K83513-13	-
16f	Lock (not shown)	K83512-30	-
16g	Key (not shown)	K83512-25	-

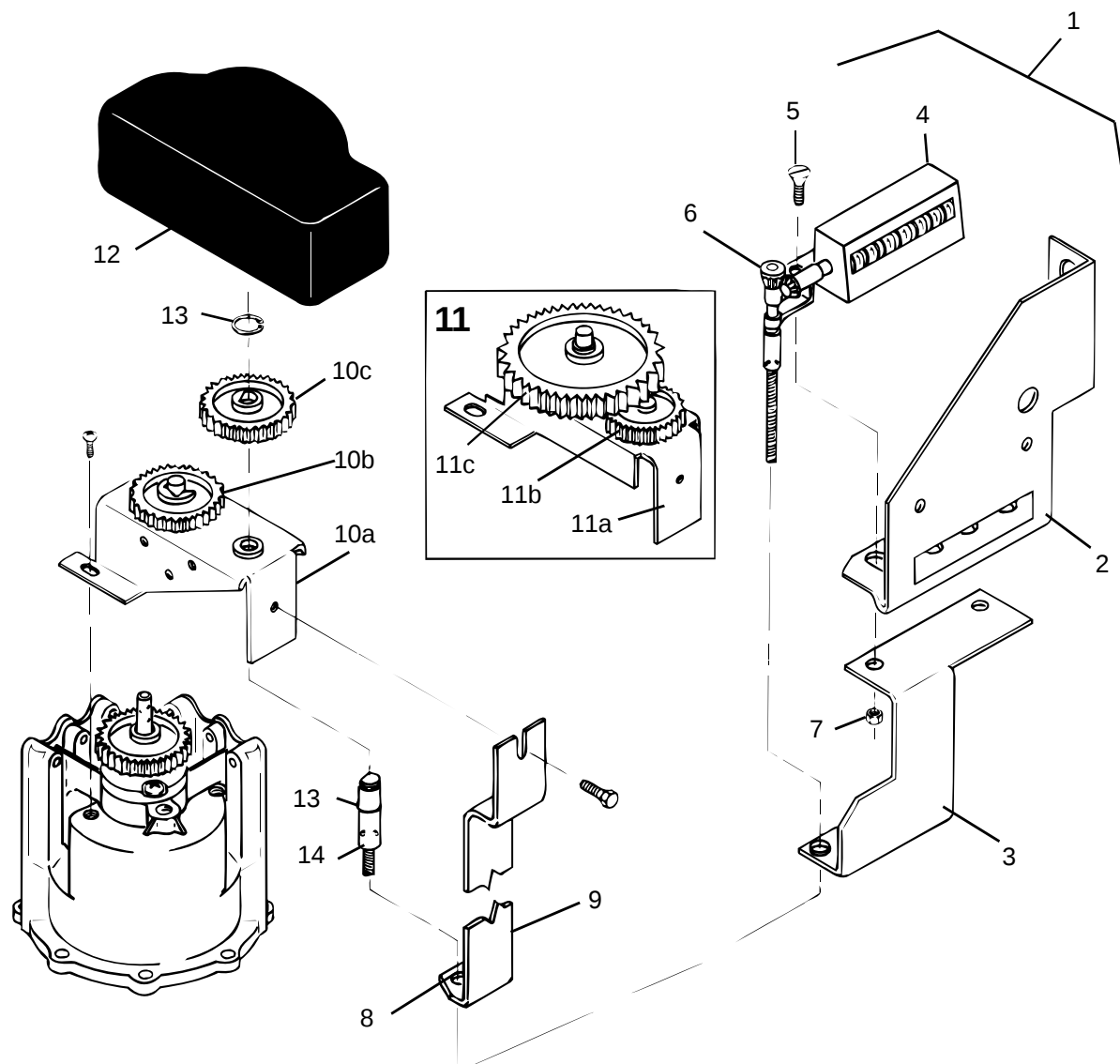
* Order entry items.

Plate 29

Totalizer and Pulser • All Models

Quantity shown per assembly.

One assembly per meter.



Totalizer and Pulser

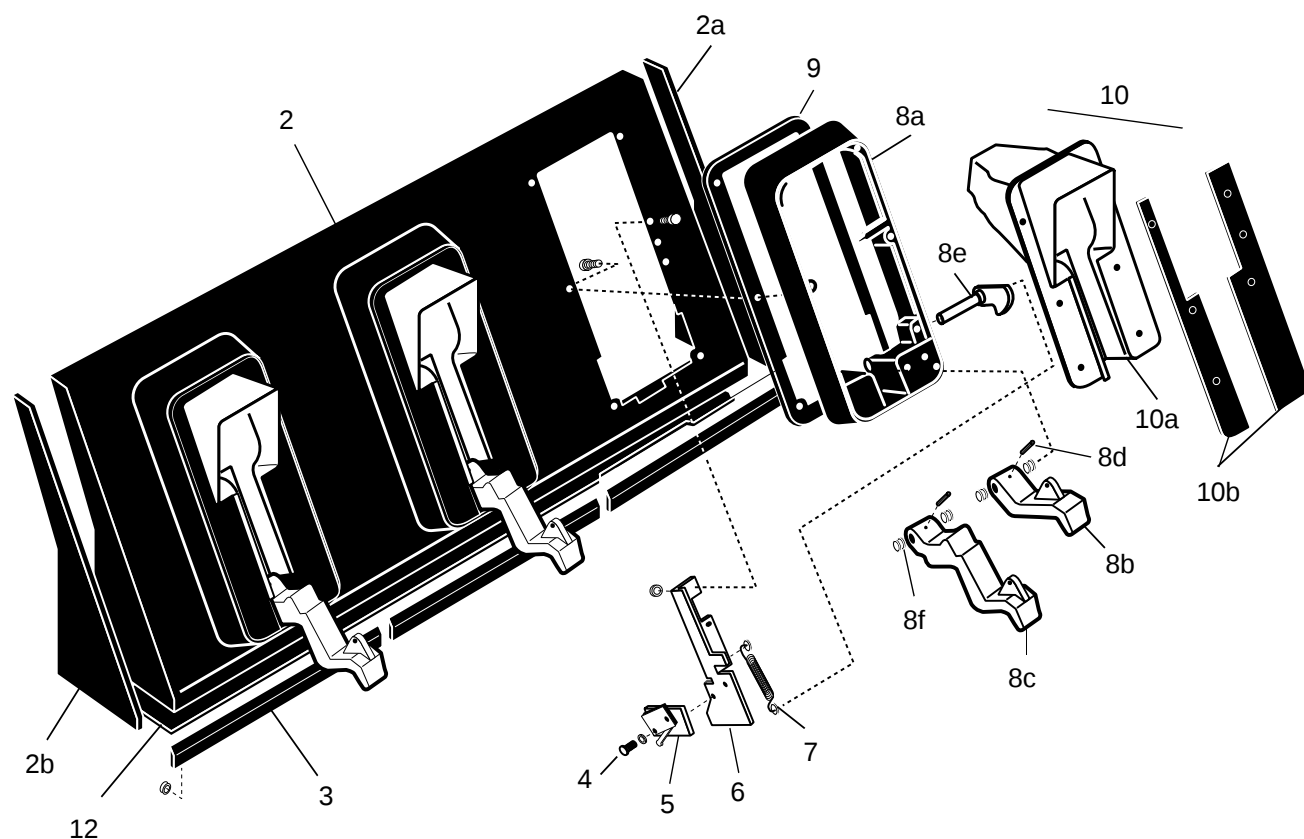
#	Part Description	Part Number	Qty.
1	Totalizer and Bracket Assembly (Includes 2-7)		
	U. S. Gallons, Blend Positions	R18572-G2	-
	U. S. Gallons, Straight Product	R18572-G1	-
	Metric, Blend Positions	R18572-G6	-
	Metric, Straight Product	R18572-G5	-
2	Totalizer Bracket		
	For -G2 and -G6 Totalizer Assembly	R18567	1
	For -G1 and -G5 Totalizer Assembly	R18568	1
3	Cable Stabilizer Bracket	N22947-01	1
4	Totalizer and Coupling Assembly, U. S. Gallons	N22948-G1	1
	Totalizer and Coupling Assembly, Metric	N22948-G2	-
5	Screw #6-32 x 1/2"	Q11270-36	1
6	Flexible Shaft	K89799-19	1
7	Nut 6-32	Q11890-01	1
8	Nyliner Bushing	K80567-31	2
9	Stabilizer Bracket	N22980	1
10	Gear and Bracket Assembly	R14856	1
10a	Bracket	N20971-01	-
10b	Gear	K88329	-
10c	Gear	K88329-01	-
11	Metric Gear and Bracket	R18739-G1	1
11a	Bracket	N22992-G1	-
11b	Gear	K88329-03	-
11c	Gear	N22953	-
12	Pulser	T18350-G1	1
13	Retaining Ring	K76238-36	2
14	Set Screw	K76707	1
15	Pulser Mounting Bracket	R17466-03	1
16	Hairpin Cotter	K77558-28	1
17	Support Bracket, Totalizer (not shown)	R19067	1
18	Support Bracket, Meter (not shown)	R18569	1
19	Gear Kit (Includes 10b-c, (not shown)	K35193	-
20	Totalizer Security Cover Kit (not shown)	K35141	-

Putdown Assembly

Plate 30

Putdown Assembly • All Models

MPD®-3 Three-Grade shown.



Putdown Assembly

#	Part Description	Part Number	Qty.
1	Putdown Module (includes 2-9)	T16672-XX	2
2	Putdown Assembly, Black	T14058	2
2a	Putdown End Cap, Right Hand (not shown)	T18447	2
2b	Putdown End Cap, Left Hand (not shown)	T18448	2
3	Putdown Rubber Strip	T16830	3
4	Screw #6-32 x 1/4"	Q12083-11	*
5	Switch and Bracket Assembly	K90978	*
6	Switch Bracket	T16671	*
7	Extension Spring (with washers)	K35326	*
8	Wrapper/Nozzle Hook Assembly, Non-Vapor, Standard, Vapor Short	R18566-G1	*
	Wrapper/Nozzle Hook Assembly, Vapor Long	R18566-G3	-
8a	Wrapper Putdown Module, Aluminum	W01589-12	-
8b	Nozzle Hook, Non-Vapor, Standard, Vapor Short	R14914-13	-
8c	Nozzle Hook, Vapor, Vapor Long	R15749-11	-
8d	Groove Pin	K76071	-
8e	Switch Lever Assembly	K93400-G1	-
8f	Washer	K86601-07	-
9	Wrapper Gasket	R16318	*
10	Nozzle Boot Assembly (with Black Scuff Guards)	T16280-37	*
10a	Nozzle Boot	W01590-13	*
10b	Black Scuff Guard Set (left and right)	R19097-01	*
11	Instruction Plate	N21316-01A **	*
	Start/Stop Plate	N22079-XX **	*
12	Putdown Bottom Plate	T16821-02	2
13	Nozzle Boot Bumper (not shown)	K93413	*

** Quantity varies with model.

* Order entry items.

