

Quick Reference Catalog

Compressors

Valves

Wheel End

Air Dryers

Air Disc Brakes

Electronics

Vision Systems





GENUINE BENDIX

HE TRUSTED YOU TO SELL HIM THE BEST.

Think you're doing your customer a favor by selling him a cheaper knockoff or look-alike valve? Think again. A knockoff hasn't been built or tested like a Genuine Bendix valve. So, it's not as reliable and could even lead to uneven brake wear, poor brake balance and excessive leakage – which means money out of his pocket for unexpected maintenance and unwanted downtime. That's money he'd usually have to spend in your business – that is if he ever comes back. Genuine Bendix is the industry standard valve system chosen by leading OE manufacturers throughout North America. If it's good enough for their engineers, why would you want to sell your customers anything else? Don't leave your customers stranded with a look-alike or knockoff. Carry the best. Sell the best. Sell Genuine Bendix.

Bendix

Ahead of the curve.

1-800-AIR-BRAKE www.bendix.com

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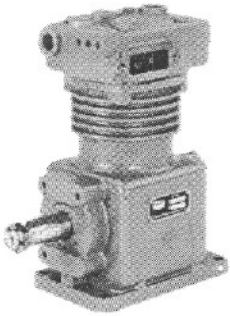
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Section I: Compressor Sizes

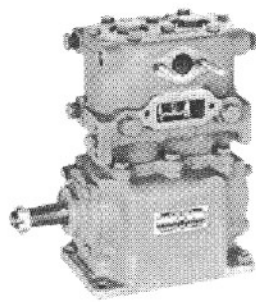
BX-2150

9.5 CFM AT 1250 RPM



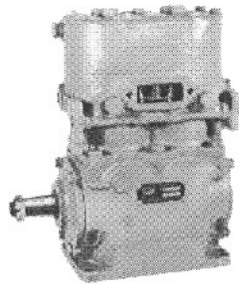
TU-FLO 400

7.25 CFM AT 1250 RPM



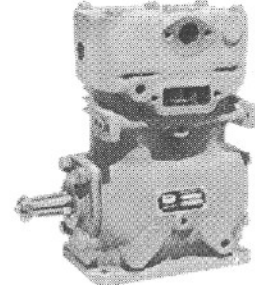
TU-FLO 500

12 CFM AT 1250 RPM



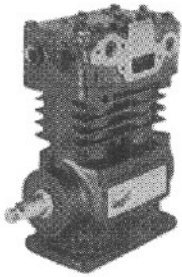
TU-FLO 501

12 CFM AT 1250 RPM



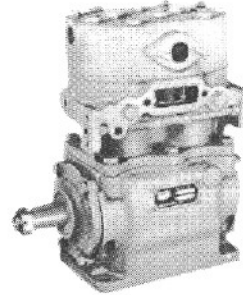
TU-FLO 550

13.2 CFM AT 1250 RPM



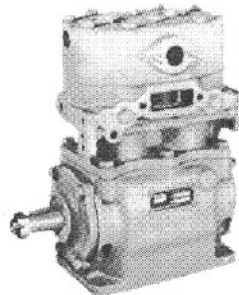
TU-FLO 600

14.5 CFM AT 1250 RPM



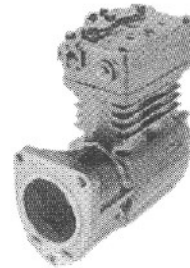
TU-FLO 700

15.5 CFM AT 1250 RPM



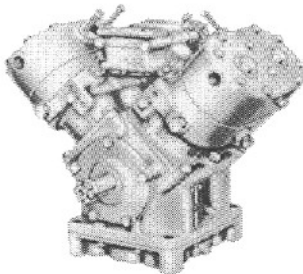
TU-FLO 750

16.5 CFM AT 1250 RPM



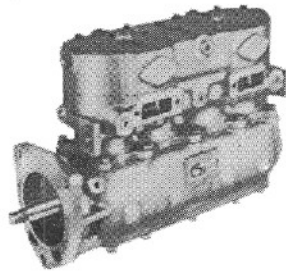
TU-FLO 1000

24 CFM AT 1250 RPM



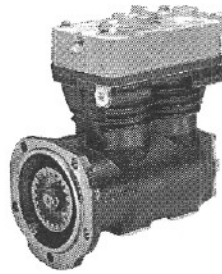
TU-FLO 1400L

31 CFM AT 1250 RPM



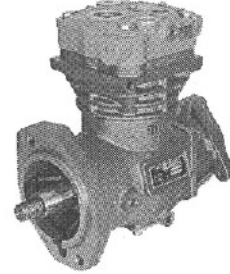
DURAFLO™ 596

27 CFM AT 1250 RPM



BA-921

15.8 CFM AT 1250 RPM



- Compressor information in this catalog is divided into three (3) sections. Section I - displays various compressors in the Bendix product line. Section II - contains a series of charts depicting the most popular engine/ compressor combinations and the appropriate mounting flange. Section III - shows compressor maintenance kit information.
 - Bendix air compressors are designed to meet a wide range of vehicle needs.
 - Several sizes and various mounting configurations are available.
 - Compressors are available remanufactured exchange.
- V.M.R.S. 13-009-000

Part No.	Description
5008558	Cylinder Head Gasket Kit
5008557	Unloader Kit
5008561	Governor Adapter Kit
5008559	Compressor Seal Kit
5012367	CAT MD Seal Kit
5012369	CAT HD Seal Kit
5012371	Series 60 Seal Kit

Section II Compressors

REMANUFACTURED EXCHANGE COMPRESSORS								
FLANGES	ENGINES	TU-FLO 500	TU-FLO 501	TU-FLO 700**	TU-FLO 1400	TU-FLO 550	TU-FLO 750	
	Caterpillar 3406	285131	286546	289349	-	-	-	
	Caterpillar 3406B	-	103274	103278	104583	107509	107508	
	Caterpillar 3408	284310	286552	289744	-	-	-	
	Mack 6 Cylinder See Bulletin PRO-01-7 for Mack c/o	284662	286544	289340	-	107511	107510	
	Caterpillar 3116	-	286620	-	104584	-	-	
	Mack 8 Cylinder	-	286574 286621	289348	-	-	107869	
		Cummins NH,NTC,KT,KTA Series Engines See Bulletin PRO-01-2	284718* 284699	286618* 286554	289339	-	107506	107507
		Cummins VTB-903	-	-	-	-	-	-
		Cummins VT-903 Cummins VT-350 See Bulletin PRO-01-2	-	286570 286570	101590 101590	-	-	-
	Series 60 Detroit Diesel 0° Tilt	-	286619	106780	-	107622	107623	
	Detroit Diesel 0° Tilt	276962	286539	289941	108779	107513	107512	
	Detroit Diesel 45° Tilt	285252	-	101158	-	-	-	

SERIES 60 COMPRESSORS MUST BE REPLACED WITH SERIES 60 COMPRESSORS ONLY. FAILURE TO DO SO WILL RESULT IN COMPRESSOR DAMAGE.

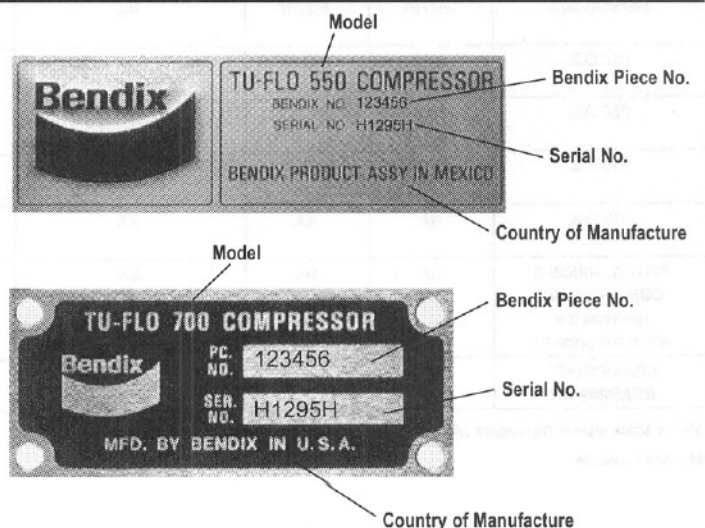
*TOP DISCHARGE - CYLINDER HEAD

**TU FLO-700 CYLINDER HEAD INCORPORATES BOTH SIDE & TOP DISCHARGE

Section III Compressor Nameplates

A nameplate is attached to the crankcase of all compressors. It displays the model, piece number (PC. NO.) and serial number (SER. NO.). When making reference to a particular part compressor use the piece number (PC. NO.) stamped on the nameplate.

The serial number is interpreted as follows: First is an alpha character (A through M skipping the letter I) representing January through December. The next four characters are numbers representing the day of the month followed by the year (two digits for each). The sixth and last character represents the manufacturing plant. For example serial number H1295H indicates the product was manufactured on August 12, 1995 in the Huntington, Indiana facility.



Compressor Maintenance and Service Kits

COMPRESSOR MODEL	U-7 1/4	E & F-12	BX-2150	TU-FLO 300	TU-FLO 400	TU-FLO 500	TU-FLO 501
NUMBER OF CYLINDERS	2	2	1	2	2	2	2
FIELD MAINT. KIT	NA	NA	108848 109356 (CAT)	229415	229416	229417	287043
UNLOADER KIT	NA	NA	108847	279613	279614	279615	279615
GASKET SET	NA	NA	NA	NA	280511	280512	101558
PISTON RING SETS (3) = 3 ring piston (4) = 4 ring piston (5) = 5 ring piston Unless otherwise indicated one piston ring set services the entire compressor.							
Standard Size	226721	225514	104045	226778	226721 (4) 289603 (3)	225514	106105 (5)
.010 O.S.	226722	225515	104046	226779	226722 (4) 289604 (3)	225515	106106 (5)
.020 O.S.	226723	225516	104047	226780	226723 (4) 289605 (3)	225516	106107 (5)
.030 O.S.	226724	225517	104048	226781	226724 (4) 289606 (3)	225517	106108 (5)
.040 O.S.	NA	NA	NA	NA	NA	NA	5005216
PISTON AND WRIST PIN KITS (5) = 5 ring piston * These piston and wrist pin kits have a selected fit. A set contains one piston & one pin. All other piston & wrist pin kits have a non-selected fit and each kit contains one piston, one wrist pin & two wrist pin buttons.							
Standard Size	NA	NA	104049	225704*	289438	289928	106109 (5)
.010 O.S.	NA	NA	104050	226630*	289439	289929	106110 (5)
.020 O.S.	NA	NA	104051	226631*	289440	289930	106111 (5)
.030 O.S.	NA	NA	104052	226632*	289441	289931	106112 (5)
.040 O.S.	NA	NA	NA	NA	NA	NA	5005217
ALUMINUM CONNECTING RODS (services 1 connecting rod)							
Without Inserts	229083	NA	NA	NA	229083	NA	NA
With Std. Inserts	229082	NA	102398 (Std.) 107465 (.010 O.S.) 107466 (.020 O.S.)	227479 (Std.) 283498 (.010 O.S.) 283499 (.020 O.S.) 283500 (.030 O.S.)	229082	NA	NA
STEEL CONNECTING RODS (services 1 connecting rod)							
Without Inserts	NA	229085	NA	NA	NA	229085	286258
With Std. Inserts	NA	NA	NA	NA	NA	NA	286259 287057(M)
CONNECTING ROD INSERT KIT (services 1 connecting rod)							
Standard Size	282763	282767	NA	NA	282763	282767 287062(M)	286254 287059(M)
.010 O.S.	282764	282768	NA	NA	282764	282768 287063(M)	286255 287059(M)
.020 O.S.	282765	282769	NA	NA	282765	282769 287064(M)	286256 287060(M)
.030 O.S.	282766	282770	NA	NA	282766	282770	286257 287061(M)
.040 O.S.	NA	NA	NA	NA	NA	NA	5005218 5005219(M)
PISTON, RINGS & CONN. ROD KIT (services the entire compressor)	NA	NA	NA	NA	NA	NA	NA
CRANKSHAFT BEARING KIT	NA	NA	NA	NA	NA	NA	NA

(M) For Mack style compressors with power steering driven by the compressor crankshaft.

NA - Not Available

Compressor Maintenance and Service Kits

COMPRESSOR MODEL	TU-FLO 550	TU-FLO 600	TU-FLO 700	TU-FLO 750	TU-FLO 1000	TU-FLO 1400
NUMBER OF CYLINDERS	2	2	2	2	4	4
FIELD MAINT. KIT	107516	229417	289998	107516	229417 (2 req'd.)	104592
UNLOADER KIT	107515	279615	279615	107515	279615 (2 req'd.)	279615 (2 req'd.)
GASKET SET	NA	101559	101559	NA	NA	NA
PISTON RING SETS (3) = 3 ring piston (4) = 4 ring piston (5) = 5 ring piston Unless otherwise indicated one piston ring set services the entire compressor.						
Standard Size	107639	282525 (5)	282525	5005361	288646	282525 (2 req'd.)
.010 O.S.	107640	282526 (5)	282526	5005362	288647	282526 (2 req'd.)
.020 O.S.	107641	282527 (5)	282527	5005363	288648	282527 (2 req'd.)
.030 O.S.	107642	282528 (5)	282528	5005364	288649	282528 (2 req'd.)
PISTON AND WRIST PIN KITS (5) = 5 ring piston * These piston and wrist pin kits have a selected fit. A set contains one piston & one pin. All other piston & wrist pin kits have a non-selected fit and each kit contains one piston, one wrist pin & two wrist pin buttons.						
Standard Size	107647	289891	289891	107643	289928	289891
.010 O.S.	107648	289892	289892	107644	289929	289892
.020 O.S.	107649	289893	289893	107645	289930	289893
.030 O.S.	107650	289894	289894	107646	289931	289894
ALUMINUM CONNECTING RODS (services 1 connecting rod)						
Without Inserts	NA	NA	NA	NA	NA	NA
With Std. Inserts	NA	NA	NA	NA	NA	NA
STEEL CONNECTING RODS (services 1 connecting rod unless otherwise noted)						
Without Inserts	108841 (serv. 2)	229085	229085	108841 (serv. 2)	288661	229085
With Std. Inserts	NA	NA	NA	NA	NA	NA
CONNECTING ROD INSERT KIT (services 1 connecting rod unless otherwise noted)						
Standard Size	107651 (serv. 2)	282767 287062(M)	282767	107651 (serv. 2)	282751	282767
.010 O.S.	107652 (serv. 2)	282768 287063(M)	282768 287063(M)	107652 (serv. 2)	282752	282768
.020 O.S.	107653 (serv. 2)	282769 287064(M)	282769 287064(M)	107653 (serv. 2)	282753	282769
.030 O.S.	107654 (serv. 2)	282770	282770	107654 (serv. 2)	282754	282770
PISTON, RINGS & CONN. ROD KIT (services the entire compressor)	108843 (std.) 5000334 (.010 O.S.) 5000333 (.020 O.S.) 5000332 (.030 O.S.)	NA	NA	108842 (std.) 5000331 (.010 O.S.) 5000330 (.020 O.S.) 5000329 (.030 O.S.)	NA	NA
CRANKSHAFT BEARING KIT	107969	NA	NA	107969	NA	NA

(M) For Mack style compressors with power steering driven by the compressor crankshaft.

NA - Not Available

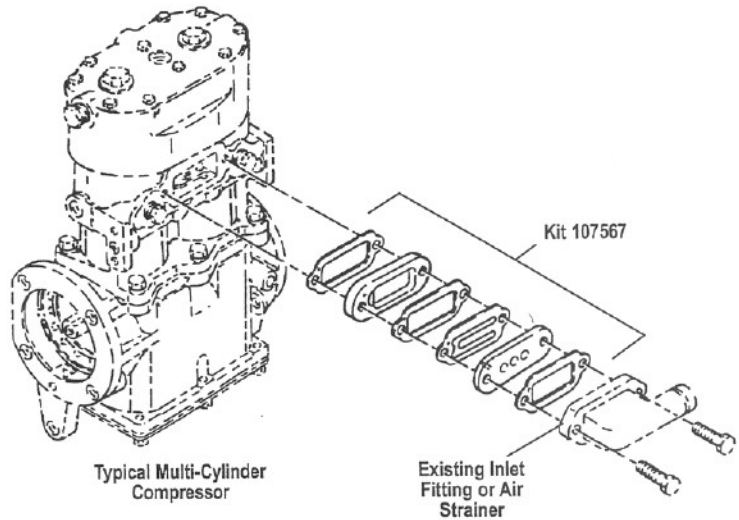
Inlet Check Valve

The inlet check valve may be used on naturally aspirated compressors to prevent oil misting during the unloaded cycle. **Do Not** use the inlet check valve if the compressor inlet is connected to the pressure side of the supercharger or turbocharger.

Important: Installation of the inlet check valve assembly *must* be as shown in all illustrations.

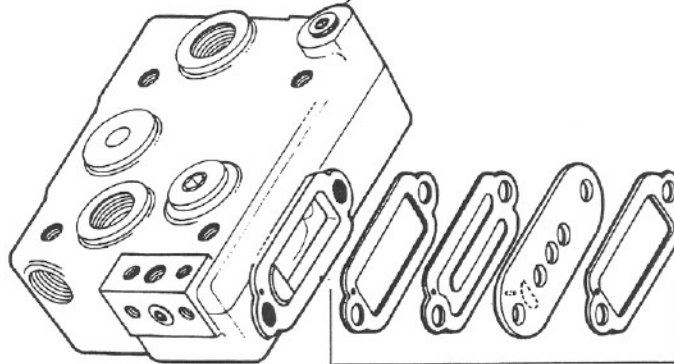
Applications & Kits

Comp. Model	Kit	Comments
TF-300	—	Not available for TF-300
TF-400	107567	
BX-2150	See Illustration & Notes Below	
TF-500	107567	
TF-501	107567	
TF-550	107567	
TF-700	107567	
TF-750	107567	
TF-1000	107567	Two kits required
TF-1400	107567	Two kits required



Inlet Check Valve Kit 104670 for BX-2150 Cylinder Heads

This kit can be used on cylinder heads with a plugged boss as shown here.



Inlet Check Valve Kit 104670

ST-4 Safety Valve

V.M.R.S. 13-010-073

ST-4 Pc. No.	Used in Conjunction with	Pressure Setting	Thread	No. of Holes
131081	Tu-Flo 550 & 750 Compressor	250 psi	1/2 NPT	1
800019		150 psi	1/2-14 NPT	2
800154		250 psi	1/2-14 NPT	2
800155		200 psi	1/4-18 NPT	1
800350	Dryer Reservoir Module	150 psi	1/4-18 NPT	1
800533		250 psi	3/4-16 UNF-2A	2
800534		250 psi	M16 x 1.5-6H	2
801116		250 psi	7/8-14 UNF-2A	2

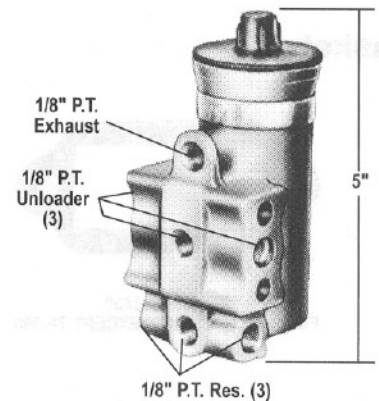


D-2 Governor

- Available Remanufactured Exchange
- Maintenance Kit With High Temperature O-Rings PC. No. 280915
- Maintenance Kit With Standard O-Rings 276121
- Operating cut-in and cut-out pressures are adjustable to O.E. equivalent pressures except non-adjustable

V.M.R.S. 13-010-018

BASIC VALVES		
Pc. No.	Pressure Range P.S.I.	Comments
065018	100-120	Non-Adjustable
275200	90-105	-
275491	100-120	-
275508	95-110	-
275530	105-125	-
275707	105-125	-
277486	110-130	-
283657	115-135	-
284358	105-125	See Note 1
800361	105-130	Non-Adjustable

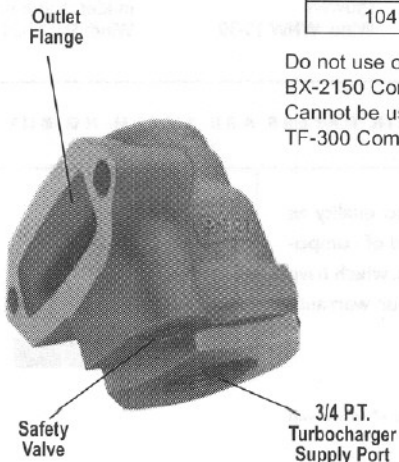


1 Governor supplied with high temperature o-rings and waterproof cover

Inlet Regulating Valve

Inlet Regulating Valve Pc. No.
104171

Do not use on a BX-2150 Compressor. Cannot be used on a TF-300 Compressor.

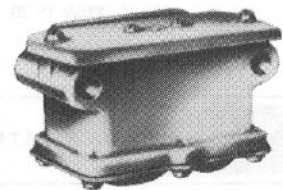


Air Strainers



Air Strainer Kit Pc. No.	Air Strainer
278500	279901

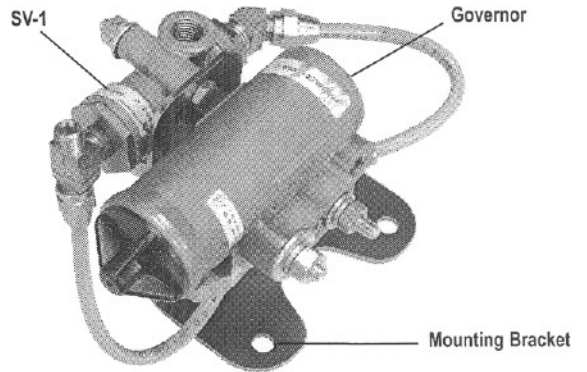
Kit includes air strainer & hardware. Cannot be used on a TF-300 Compressor.



Air Strainer Kit Pc. No.	Air Strainer
227785	226469

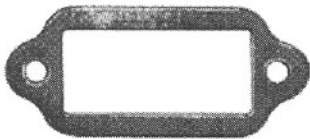
D-2/SV-1 Module

Used in conjunction with the DuraFlo™ 596 Compressor.



D-2/SV-1 Pc. No.	Type
5007116	Standard
5007404	High Temperature w/unloader hose

Gaskets



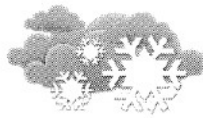
PC. NO. 243430
FOR ALL TF COMPR. EXCEPT TF-300



42° Today
A mixture of clouds and sun.
Wind: SW 8-16



32° Tonight
Rain/snow showers.
Wind: WNW 15-30



31° 25° Wednesday
Increasing clouds; snow.
Wind: SSW 10-20



32° 17° Thursday
Cloudy with showers; snow.
Wind: W 12-22



27° 19° Friday
Cloudy; snow showers.
Wind: WNW 15-30



39° 33° Saturday
Breezy and milder; some sun.
Wind: SW 12-24

GENUINE BENDIX

THE WEATHER IS UNPREDICTABLE. GENUINE BENDIX AIR DRYERS ARE ANYTHING BUT.

Other companies rebuild or attempt to duplicate Bendix air dryers, but none pay as much attention to quality as Bendix. Inferior workmanship and substandard parts reduce brake performance and increase the likelihood of component failure and costly breakdowns. Only Genuine Bendix air dryers meet our stringent testing procedures, which have set the industry standard for nearly 30 years. And only Genuine Bendix assures you the protection of our warranty plan. So you get quality and dependability you can count on. No matter what the weather.



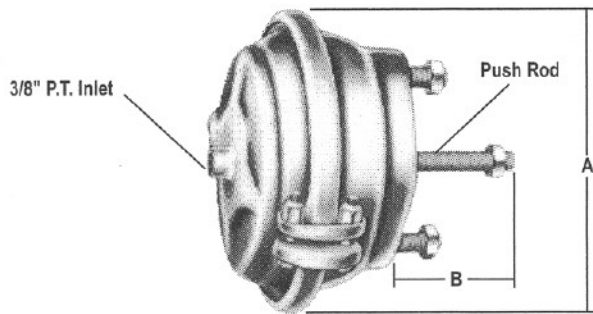
Ahead of the curve.

	Tu-Flo 400	Tu-Flo 500	Tu-Flo 501	Tu-Flo 700
CAT				
1W7146	289541	284790		289336
7N4014		285131	286546	289349
FORD				
E1HT2875JB		281042	286542	289342
E2HT2875AA		281042	286542	289342
E3HT2875EB		281042	286542	289342
EOHT2875N2A		281042	286542	289342
IHC SERVICE				
97193R91	227404	227320	286526	289350
130573R91		283690		
143018R91	227404	227320	286526	289350
149628R91	227404	227320	286526	289350
179022R91	227404	227320	286526	289350
261187C93		283690		
261187R93		283690		
276468C93		283690		
278668C92	289444	276961	286538	289925
287668C91	289444	276961	286538	289925
287668C92	289444	276961	286538	289925
295435C91	227404	227320	286526	289350
337806C91		228344		
338444C91		228344		
348566C91		228344		
398566C91		228344		
398567C92	227403	227322	286527	101256
398568C91	227404	227320	286526	289350
398568C92	227404	227320	286526	289350
467418C91		281042	286542	289342
467876C91		283690		
468579C91		280962		289925
476521C91		283690		
476522C91		280962		289925
476523C91		281042	286542	289342
476524C91		284718		289339
476525C91		283690		
480214C91		285131	286546	289349
480466C91		281042	286542	289342
480951C91		281042	286542	289342
570291C91		284718		289339
861447R91		228344		
861447R92		228344		
861447R93		228344		
861448R91	227404	227320	286526	289350
861448R92	227404	227320	286526	289350
861448R93	227404	227320	286526	289350
866781R91		280962		289925
874706R92	227403	227322	286527	101256
874707R93	227403	227322	286527	101256
990003C91	289444	276961	286538	289925
990003C92	289444	276961	286538	289925
990007C91	227404	227320	286526	289350
990008C91		228344		
990176C91		228344		
990177C91	227403	227322	286527	101256
990178C91	227404	227320	286526	289350
990187C91(R,R)			286527	
990187C91(L,L)			286526	
990209C91		228344		
990210C91	227404	227320	286526	289350
990418C91		281042	286542	289342
990419C91		280962		289925
990420C91		284718		289339
990421C91		283690		
994866C91		280962		289925
997064R91		228344		
997065R91	227404	227320	286526	289350
997104R91	227403	227322	286527	101256
997109R91	227403	227322	286527	101256
MACK				
303GB-578		284662	286544	289340
303GB-587		284662	286544	289340
303GB-4194		283690		
MIDLAND O.E.				
N5084 Series	227404	227320	286526	289350
N5085 Series	227404	227320	286526	289350
N5098,W,AW,CW, DW,EW	227404	227320	286526	289350
N5303,B,D,F,H,M, S,W,X	227404	227320	286526	289350
N5303,C,E,G,J, N,V	227403	227322	286527	101256
N5308 A,C,D	227404	227320	286526	289350
N5308, B	227403	227322	286527	101256

	Tu-Flo 400	Tu-Flo 500	Tu-Flo 501	Tu-Flo 700
N5309	227404	227320	286526	289350
N5309A	227403	227322	286527	101256
N5310 Series	227404	227320	286526	289350
N5502 A,B,F	289444	276961	286538	289925
N5502 H		276962	286539	289941
N5504 A		276962	286539	289941
N5504 B	289444	276961	286538	289925
N5601 B,C,D,F,G, K,M,PV		228344		
N5601,E,J,L,R, S,W	289818			
N5603 A,B,C	289818			
N5603, D		228344		
N6300 Series	227404	227320	286526	289350
N7002,A,C,F,G,H, K,L,M,N,P,R,S, T,V,W,X		283690		
N7004,A,B,C,D,F		284718		289339
N7005,A,B,C,D,E, G,H,J,K,L,M,P, V,W		280962		289925
N7006,B,C		283690		
N7009C,D,E,F,G		281042	286542	289342
N7010A,B,C,D,E, F,N		281042	286542	289342
N7011,A,B		284662	286544	289340
N7012A,B		285131	286546	289349
N7015,A	289541	284790		289336
NT7011 Series		284662	286544	289340
MIDLAND SERVICE				
KN7000(L,L)	227406	228344		
KN7000(R,R)	227407			
KN7010(L,L)		228344		
KN7030(L,L)			286526	289350
KN7030(R,R)	283429			
KN7040			286526	289350
KN7050	283429		286527	101256
KN7070	289444	276961	286538	289925
KN7080		276962	286539	289941
KN7170	227404	227331	286526	289350
KN7180	227403	227322	286527	101256
KNX12031(R,R)			286527	
KNX12031(L,L)			286526	
KN13040		284718		289339
KN13050(R,T)			286541	
KN13060		283690		
KN13070(R,T)			286541	
KN13090		281042	286542	289342
KN13100(L,T)		281042	286542	289342
KN13100(R,T)		285252		
KN13110		284662	286544	289340
KNT13110		284662	286544	289340
KNT13120		285131	286546	289349
KNT13150	289541	284790		289336
KNX7000(R,R)	227407			
KNX7010(L,L)		228344		
KNX7030(L,L)			286526	289350
KNX7030(R,R)	283429			
KNX7040			286526	289350
KNX7050	283429		286527	101256
KNX7060	289444	276961	286538	289925
KNX7070	289444	276961	286538	289925
KNX7080		276962	286539	289941
KNX7170	227404	227331	286526	289350
KNX7180	227403	227322	286527	101256
KNX13020		283690		
KNX13040		284718		289339
KNX13050(R,T)			286541	
KNX13060		283690		
KNX13070(R,T)			286541	
KNX13090		281042	286542	289342
KNX13100(L,T)		281042	286542	289342
KNX13100(R,T)		285252		
KNX13110		284662	286544	289340
KNX13120		285131	286546	289349
KNX13150	289541	284790		289336
KNX13160		281042	286542	289342
KTX13110		284662	286544	289340

R=Right, L=Left, T=Top for (Inlet, Discharge) designation

Brake Chambers



V.M.R.S. 13-010-034

Fully Threaded Push Rod

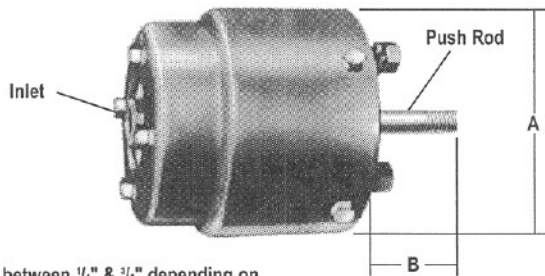
Brake Chamber Type	A Overall Diameter	B Push Rod Thd.	Standard		Weatherproof	
			Service Pc. No. w/out Yoke	Push Rod Length	w/Boot w/Locknut-Less Yoke Pc. No.	Push Rod Length
9	5-1/4"	1/2-20	288789	12"	288791	12"
12	5-5/8"	1/2-20	800822	8-1/2"	288798	10-1/2"
16	6-1/2"	1/2-20	800823	8"	288801	9"
20	6-3/4"	5/8-18	800824	8-3/16"	288806	10-1/2"
24	7-3/8"	5/8-18	800825	8"	288812	11"
30	8-1/4"	5/8-18	800826	7-7/8"	288817	13-3/8"
36	9-1/16"	5/8-18	800827	7-1/2"	288820	12"

Rotochambers

V.M.R.S. 13-010-034

Fully Threaded Push Rod

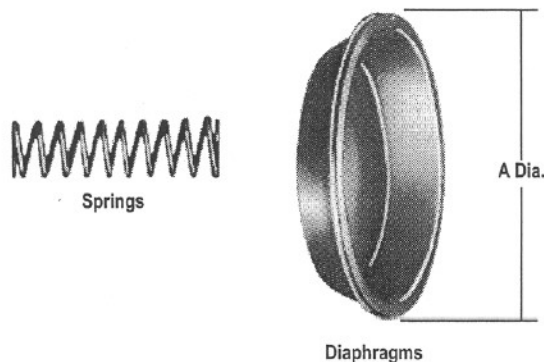
Note: Neoprene diaphragms are available



Inlet P.T. varies between 1/4" & 3/8" depending on chamber size & diaph. type.

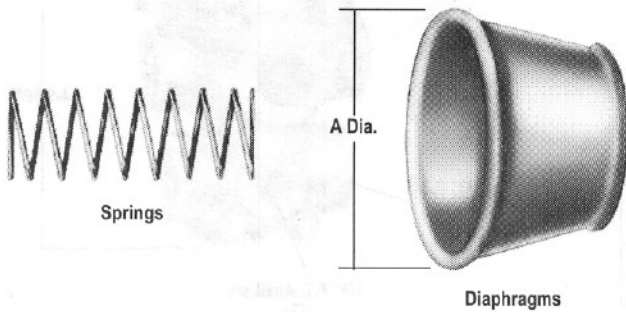
Roto Type	Weatherproof-w/Boot & Rubber Diaphragm Less Nut-Less Yoke	A Overall Diameter	B Push Rod Length	Push Rod Thd.
9	229814	4-3/4"	13"	1/2-20
12	229815	5-9/32"	11"	1/2-20
16	229816	5-7/8"	7-7/8"	1/2-20
20	229817	6-13/32"	6-7/8"	1/2-20
24	229818	6-15/16"	5-13/16"	1/2-20
30	229819	7-17/32"	9-1/16"	5/8-18
36	229820	8-5/32"	8-1/16"	5/8-18
50	229821	9-13/32"	10-15/16"	3/4-16

Brake Chamber Diaphragms & Springs
Clamp Ring Type



Brake Chamber Type	Diaphragm Material and Size			Spring Pc. No.
	Rubber	Neoprene	A Dia.	
9	234433	236663	5"	234435
12	234226	236664	5-15/32"	234229
16	234189	236665	6-13/64"	234192
20	234099	236666	5-19/32"	234129
24	234100	236667	7"	234130
30	234101	236668	7-7/8"	234131
36	234362	236669	8-11/16"	234365

Rotochamber Diaphragms & Springs

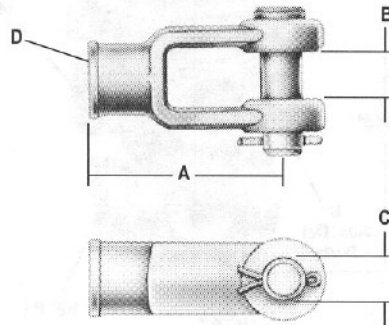


Rotochamber Type	Diaphragm Material and Size			Spring Pc. No.
	Rubber	Neoprene	A Dia.	
9	231472	236524	4-5/16"	231481
12	231506	236525	4-27/32"	231513
16	231525	236526	5-7/16"	231531
20	231928	236527	5-31/32"	231933
24	231516	236528	6-7/16"	231522
30	231543	236529	7-3/32"	231549
36	231534	236530	7-21/32"	231540
50	231491	236531	8-29/32"	231498

Yoke Assemblies

For Brake Chambers & Rotochambers

V.M.R.S. 13-004-018

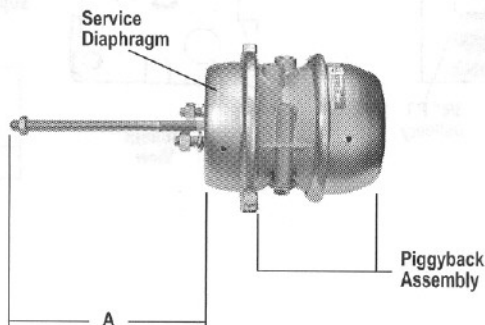


Yoke Assembly Pc. No.	A End to Pin	B Slot Width	C Pin Dia.	D Thread Size
205948	1-3/4"	9/16"	1/2"	1/2-20
228790	1-3/4"	9/16"	1/2"	5/8-18
228798	1-3/4"	9/16"	5/8"	5/8-18
229496	1-7/8"	13/16"	3/4"	5/8-18
282592	2"	13/16"	3/4"	3/4-16

Spring Brakes

Fully Threaded Push Rod

V.M.R.S. 13-010-025



Standard Piece No. w/yoke	Standard Piece No. w/o yoke	Model/ Size	Piggyback	Service Diaphragm	A
5007129	800828	T-20/24	5007123	234099	7.8
5007130	800829	T-24/24	5007124	234100	7.8
5007131	800830	T-24/30	5007125	234100	7.8
5007132	800831	T-30/30	5007126	234101	7.8
5007133	800832	T-30/36	5007127	234101	7.8
5007134	800833	T-36/36	5007128	234362	6.8

Long Stroke Piece No. w/yoke	Long Stroke Piece No. w/o yoke	Model/ Size	Piggyback	Service Diaphragm	A
5010434	5010402	T-24/30	801376	801378	7.8
5010435	5010414	T-30/30	801377	801379	7.8

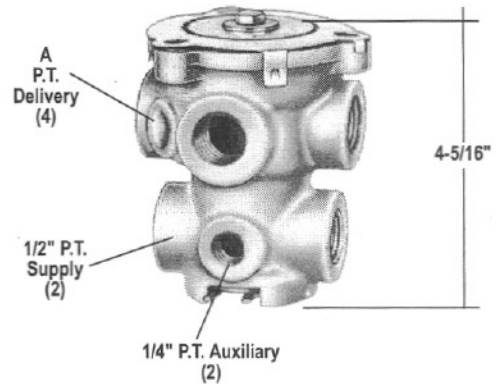
E-2 Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kits
 - Pc. No. 276119 Minor Repair
 - Pc. No. 289324 Major Repair

Treadle and Mounting Plate
Not Furnished. If Required, Refer To
Master Parts Catalog

V.M.R.S. 13-010-019

Basic E-2 Pc. No.	A Pipe Thread (Delivery)
229500	3/8"
229501	1/2"

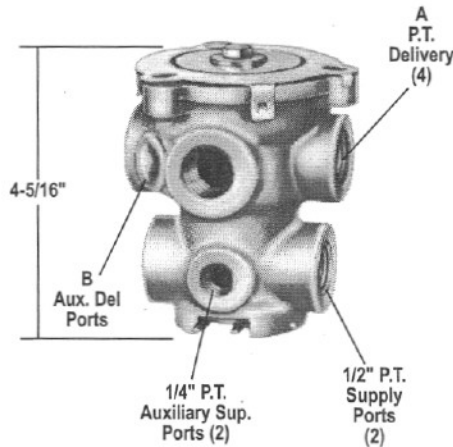


E-3 Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kits
 - Pc. No. 276119 Minor Repair
 - Pc. No. 289329 Major Repair

Treadle and Mounting Plate
Not Furnished. If Required Refer To
Master Parts Catalog.

V.M.R.S. 13-010-019



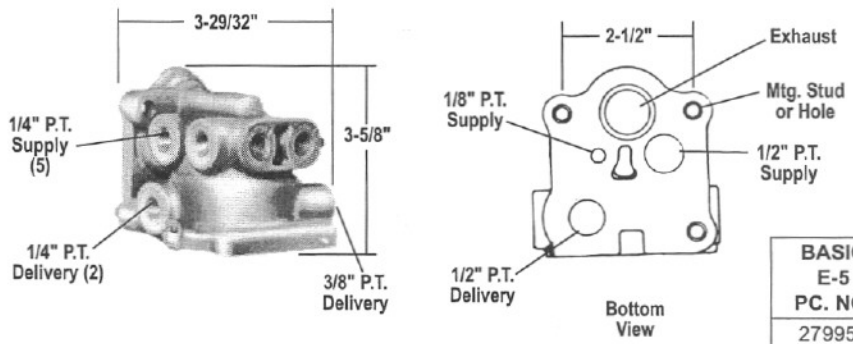
Basic E-3 Pc. No.	A Pipe Thread (Delivery)	B Auxiliary Ports
277863	1/2"	NONE
278998	1/2"	2-1/4"

E-5 Brake Valve (Basic)

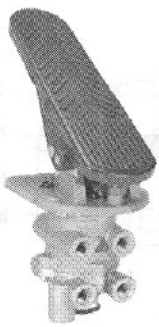
- Available Remanufactured Exchange
- Maintenance Kits
 - Pc. No. 281084 Minor Repair
 - Pc. No. 289334 Major Repair

Pedal and Mounting Plate Not
Furnished. If Required Refer To Master
Parts Catalog.

V.M.R.S. 13-010-019



BASIC E-5 PC. NO.
279950



E-8P

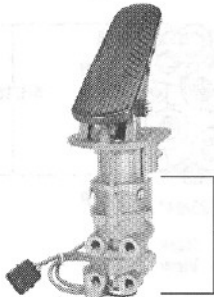


E-10P

NEW SERVICE BASIC E-8P	REPLACES E-12	COMMENTS
800629	065313, 800583	Lower Body Rotated 90°
800630	065458	Lower Body Rotated 90°
800631	065460, 800407	1/2 NPT Exhaust

NEW SERVICE BASIC E-10P	REPLACES E-15
800632	065315
800632	800318

NEW SERVICE BASIC E-10P	REPLACES E-15R
800632	800319

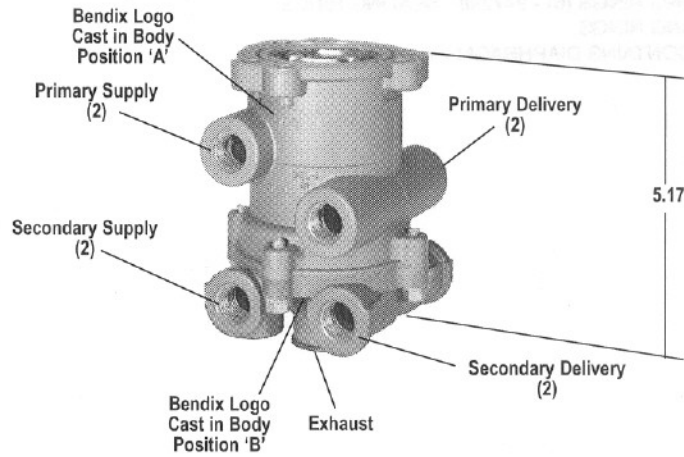


E-10PR

E-10P Basic Valve

E-12 & E-15 Dual Brake Valves (Basic)

V.M.R.S. 13-010-051



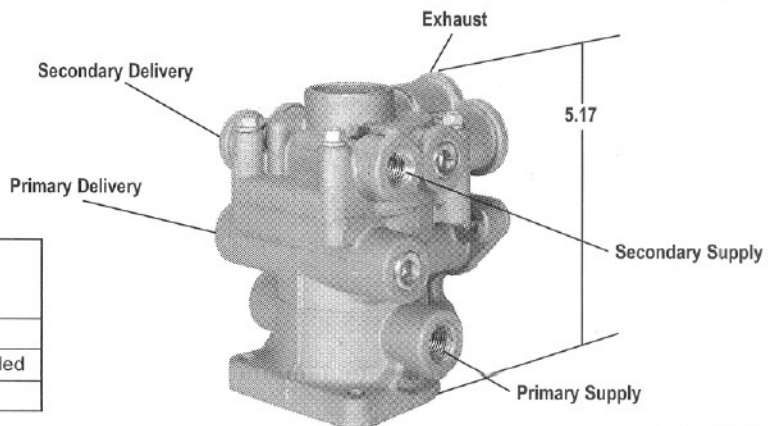
KIT	Look for the location of the Bendix Logo to determine kit required	
	A	B
Minor	108367	106689

E-14 Dual Brake Valve (Basic)

• Maintenance Kit
Pc. No. 108367 Minor

V.M.R.S. 13-010-051

BASIC E-14 PC. NO.	COMMENTS
065314	-
065317	Exhaust Port Threaded
065395	Used with Manifold

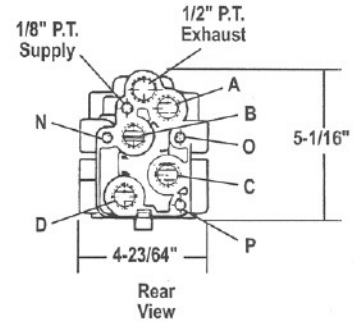
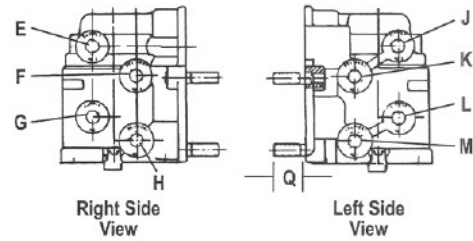
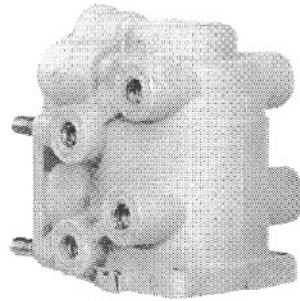


E-7 Dual Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kits
 - Pc. No. 289352 Minor Repair
 - Pc. No. 289353 Major Repair

Pedal and Mounting Plate Not Furnished. If Required Refer To Master Parts Catalog.

V.M.R.S. 13-010-051



Basic E-7 Pc. No.	Port Thread Sizes & Locations												Mtg. Studs in Positions "N", "O" "P" Above	Stud Length Q	Stud Thread Size
	A	B	C	D	E	F	G	H	J	K	L	M			
†284760	No Thd	No Thd	No Thd	No Thd	1/4	-	1/4	-	-	-	-	-	No	-	-
286773	1/2	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	Yes	1-1/2	3/8-24
286775	1/2	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	Yes	3/4	3/8-16
287411	1/2	1/2	1/2	1/2	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	No	-	-
*287564	1/2	1/2	1/2	1/2	1/4	3/8	1/4	3/8	1/4	1/4	1/4	1/4	Yes	15/16	3/8-16
*288383	1/2	1/2	1/2	1/2	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	No	-	-

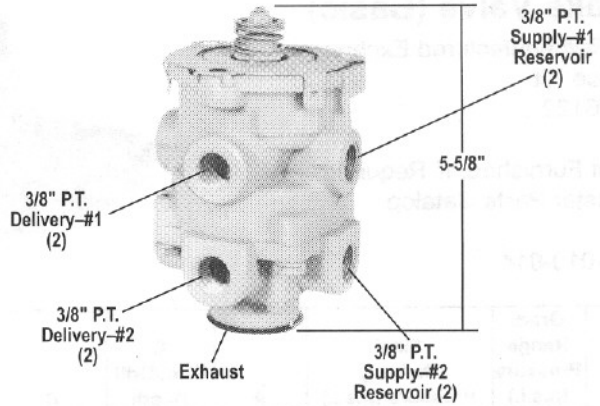
† Ford Basic Valve Kit: INCLUDES BASIC VALVE,
 (2) - 293561 - SEALING RINGS (6) - 247298 - SEALING RINGS
 (2) - 247227 - SEALING RINGS
 * EXHAUST PORT CONTAINS DIAPHRAGM

E-6 Dual Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kits
 - Pc. No. 287368 Minor Repair
 - Pc. No. 289335 Major Repair

Treadle and Mounting Plate Not Furnished. If Required Refer To Master Parts Catalog.

V.M.R.S. 13-010-051



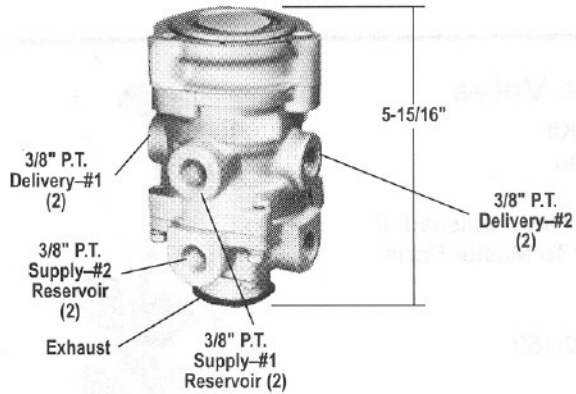
BASIC
E-6
PC. NO.
286171

E-10 Dual Brake Valves (Basic)

- Maintenance Kit
 - Pc. No. 102100

Treadle and Mounting Plate Not Furnished. If Required, Refer to Master Parts Catalog.

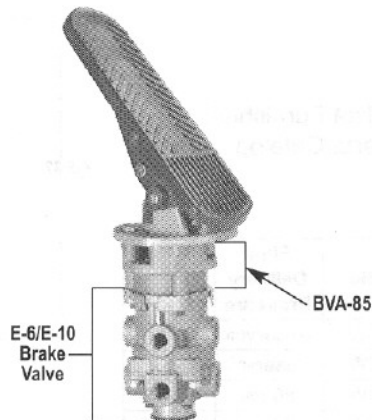
V.M.R.S. 13-010-051



Basic E-10
PC. NO.
101100

BVA-85 Brake Valve Actuator

BVA-85 Pc. No.	Comments
5009593	Push to connect fittings
5009594	NPT Ports

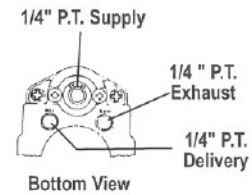
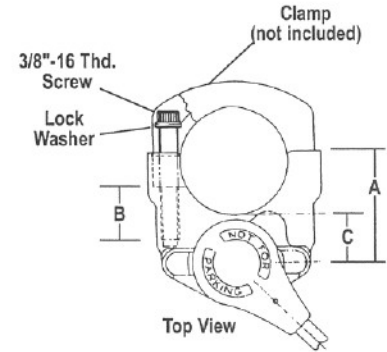
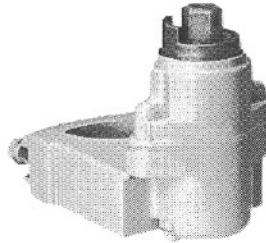


TC-2 Brake Valve (Basic)

- Available Remanufactured Exchange
- Maintenance Kit
Pc. No. 276122

Handle - Not Furnished. If Required Refer To Master Parts Catalog.

V.M.R.S. 13-010-014



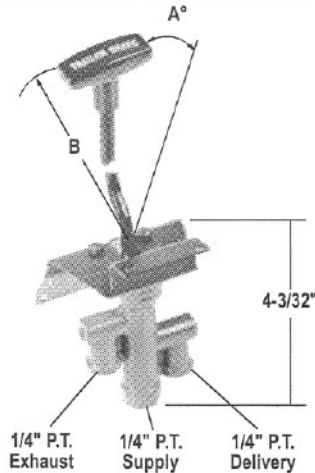
Basic TC-2 Pc. No.	Grad. Range Pressure (p.s.i.)	Final Delivery Pressure (p.s.i.)	A	B Thd./Drill Depth	C
101460	5-125	125	2.35	1.4	.97
276270	5-80	Reservoir	3.44	1.1	2.1
800172	5-125	Reservoir	1.25	Through	.09
800173	5-80	80	1.25	Through	.09

TC-6 Brake Valve

- Maintenance Kit
Pc. No. 289890

Mounting Plate Not Furnished. If Required Refer To Master Parts Catalog.

V.M.R.S. 13-010-159



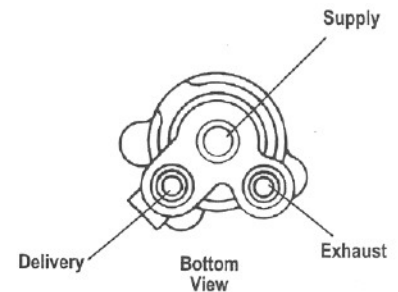
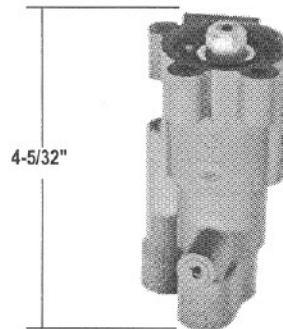
Basic E-6 Pc. No.	Handle		Final Delivery Pressure (p.s.i.)
	A°	B inches	
065512	55	7.03	85
106385	55	8.93 Self Returning	85
101786	75	8.52	120
289884	75	4.5	120
289885	75	4.5	50
5003601	55	8.9	85

TC-7 Brake Valve

- Maintenance Kit
Pc. No. 102145

Handle and Mounting Bracket Not Furnished. If Required Refer To Master Parts Catalog.

V.M.R.S. 13-010-159



Basic TC-7 Valve Pc. No.	Remarks	Handle Travel	Final Delivery Pressure	Ports*
101860	Positioning	71° CW	Reservoir	1/4 PT
102394	Self returning	71° CW	Reservoir	1/4 PT
102707	Positioning	50° CW	80 psi	1/4 PT
108233	Self returning	50° CW	80 psi	1/4 PT
109389	Positioning	71° CW	Reservoir	3/8 PTC
109409	Self returning	71° CW	Reservoir	3/8 PTC

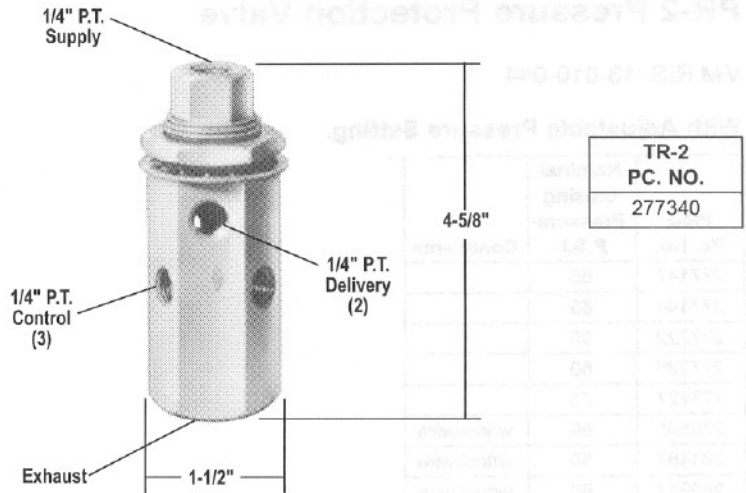
*PTC - Push To Connect

TR-2 Inversion Valve

- Available Remanufactured Exchange
- Maintenance Kit 281138

V.M.R.S. 13-010-047

NOTE: With 125 P.S.I. supply pressure valve must begin to exhaust at 65 P.S.I. nominal ascending control pressure. Valve must deliver full supply pressure with 40 P.S.I. nominal descending control pressure.



TR-3 Inversion Valve

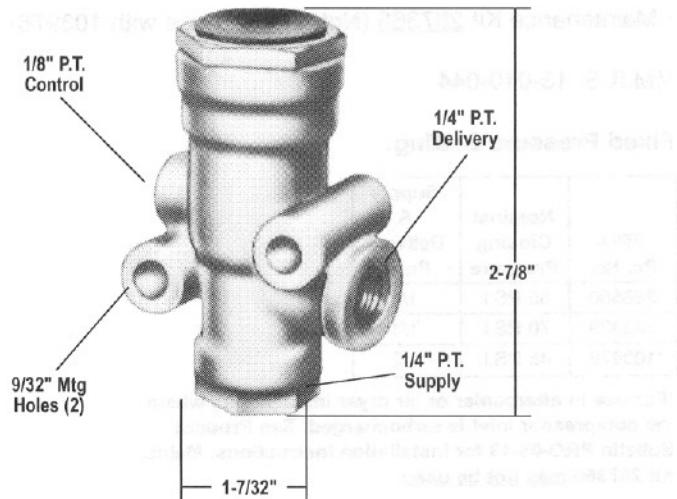
- Available Remanufactured Exchange

V.M.R.S. 13-010-047

NOTE: With common control & supply pressure inlet opens at "A" P.S.I. descending pressure and exhaust opens at "B" P.S.I. ascending pressure.

TR-3 Pc. No.	A PSI	B PSI
280758	45	60
281318	35	70
281459	25	40
*101450	25	40

*Special Duty-Bus Application



Air Brake Training from the Air Brake Experts

Bendix offers a four part computer-animated training video series entitled 'Air Brake Systems.' This complete training package contains one four part video and five workbooks featuring Bendix air brake components and related vehicle systems.

Informative and easy to understand video and workbooks

The video program teaches the entire air brake system in a building block format:

- Part 1 presents the air generation system
- Part 2 the service brake system
- Part 3 the emergency and parking brake system
- Part 4 the tractor equipment and complete trailer system

Each program is approximately 20 minutes and details air brake system components – from tractor to trailer - along with their operation. Computer animation makes this video easy to understand – pistons move, crankshafts rotate, and air changes color when pressure changes.

The workbook, which contains illustrations, system schematics, and questions and answers for immediate viewer feedback are also part of this training package.

Order piece number BW1673.

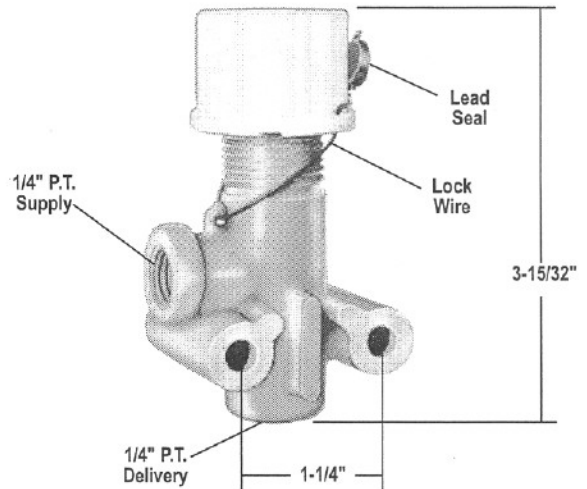


PR-2 Pressure Protection Valve

V.M.R.S. 13-010-044

With Adjustable Pressure Setting.

PR-2 Pc. No.	Nominal Closing Pressure P.S.I.	Comments
277147	65	
277148	85	
277222	95	
277226	60	
277227	75	
279505	65	w/lockwire
281467	50	w/lockwire
282517	60	w/lockwire



PR-4 Pressure Protection Valve

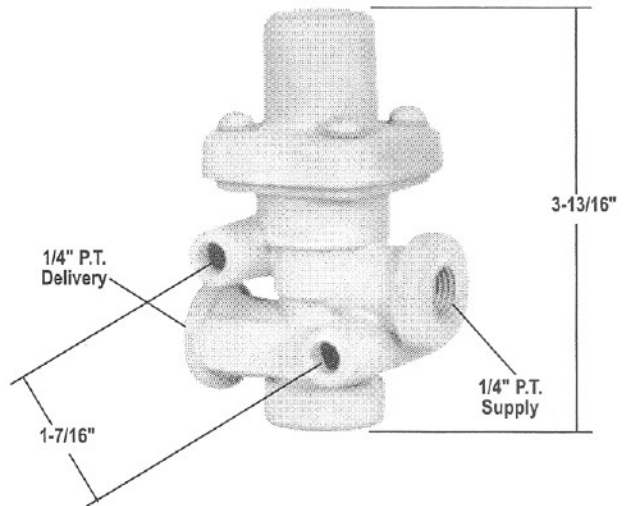
• Maintenance Kit [287366](#) (Note: Not for use with 103976)

V.M.R.S. 13-010-044

Fixed Pressure Setting.

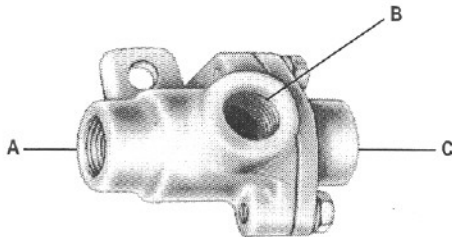
PR-4 Pc. No.	Nominal Closing Pressure	Supply & Delivery Ports
286500	85 P.S.I.	1/4
288323	70 P.S.I.	1/4
*103976	45 P.S.I.	1/2

*For use in aftercooler or air dryer installations where the compressor inlet is turbocharged. See Product Bulletin PRO-08-13 for installation instructions. Maint. Kit [287366](#) may not be used.

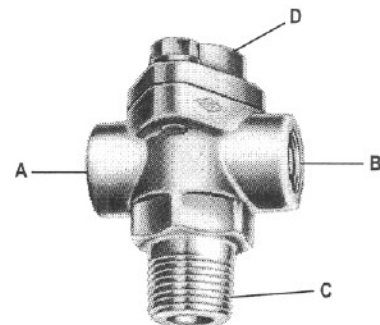


Double Check Valves

V.M.R.S. 13-010-092



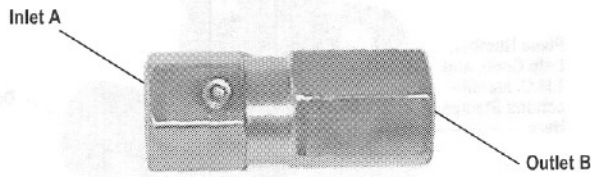
DC-4 Double Check Valve Pc. No.	Pipe Thread Dimensions		
	A	B	C
278614	3/8"	3/8"	3/8"
278615	1/4"	1/4"	1/4"



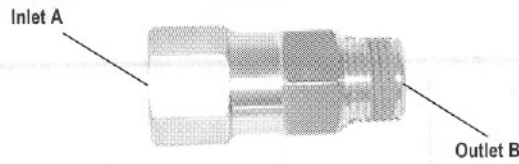
DC-4 Double Check Valve Pc. No.	Pipe Thread Dimensions			
	A	B	C	D
278595	1/4"	1/4"	1/2"	1/4"
278596	3/8"	3/8"	1/2"	1/4"
278597	1/4"	1/4"	3/8"	1/4"
278598	3/8"	3/8"	3/8"	1/4"
280809	3/8"	3/8"	3/8"	3/8"

Single Check Valves – SC-3 valves replace both the SC-1 and SC-2 valves

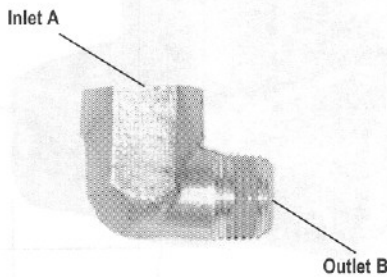
V.M.R.S. 13-010-013



Single Check Valve: Female inlet – Female outlet		
A	B	Service New Part Numbers
1/4"	1/4"	801144
1/2"	1/2"	800370
3/4"	3/4"	800369



Single Check Valve: Female inlet – Male outlet		
A	B	Service New Part Numbers
1/4"	1/8"	800374
1/4"	1/4"	800375
3/8"	3/8"	800373
1/2"	1/2"	800372

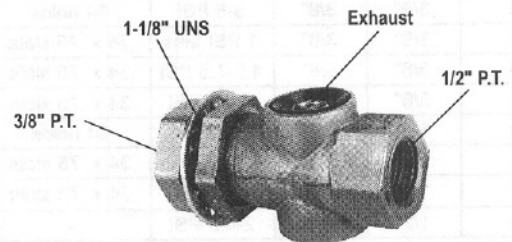
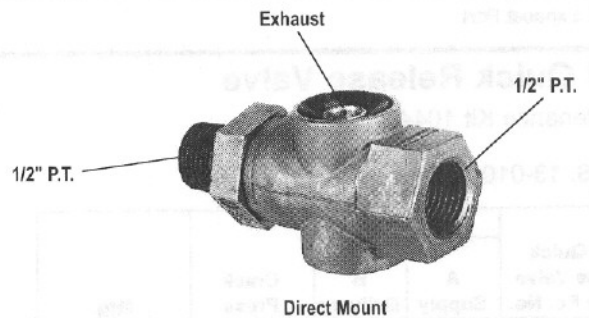


Single Check Valve: Female inlet – Male outlet		
A	B	Service New Part Numbers
1/2"	1/2"	800376

QR-L Inline Quick Release Valve

V.M.R.S. 13-010-008

Service Pc. No.	Description
800332	Frame or Bracket Mount
800333	Direct Mount



Frame or Bracket Mount

QRN-2 Quick Release Valve

The QRN-2 quick release valve is a lightweight, nonmetallic quick release valve.

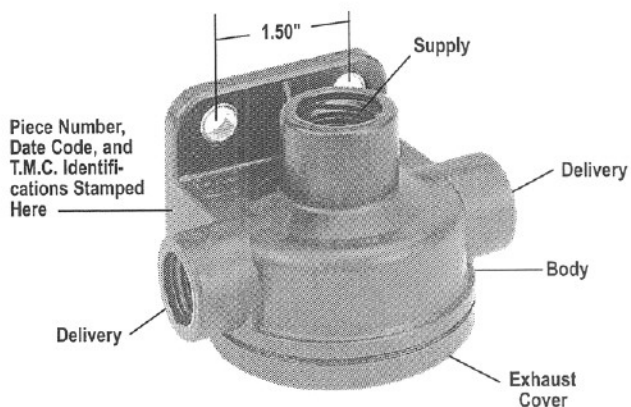
Supply port: 1/2" or 3/8"

V.M.R.S. 13-010-008

Quick Release Valve Changeovers

QRN-2 Svc. Pc. No.	Supply Port	Crack Press.	Delivery Ports
800064	3/8" NPT	0 PSI	3/8" NPT
800063	1/2" NPT	0 PSI	3/8" NPT
800219	1/2" P.T.C.	0 PSI	1/2" P.T.C.

P.T.C. - Push-to-connect fittings



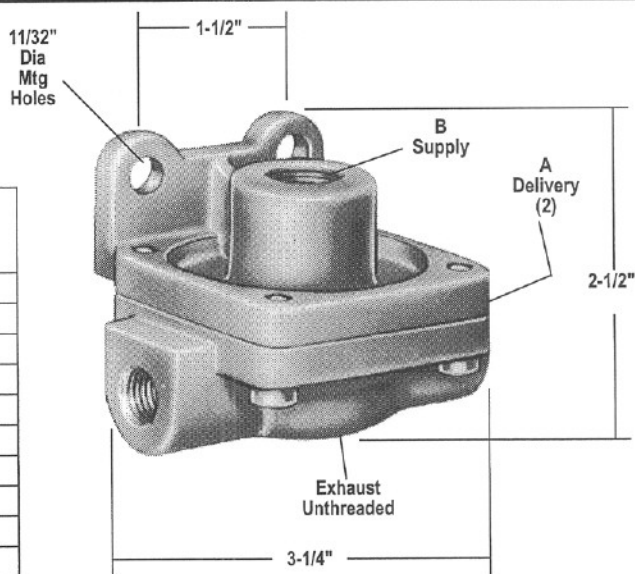
QR-1 Quick Release Valve

• Available Remanufactured Exchange

V.M.R.S. 13-010-008

QR-1 Reman. Exch. Pc. No.	QR-1 Service New Pc. No.	Port P.T. Size		Crack Press.	Comment
		A	B		
229813X	229813	1/4"	3/8"	1 PSI	
229844X	229844	1/4"	1/2"	1 PSI	
229859X	229859	3/8"	3/8"	1 PSI	
229860X	229860	3/8"	1/2"	1 PSI	
281024X	281024	1/4"	1/4"	1 PSI	
*288251X	*288251	3/8"	3/8"	1 PSI	
278483X	278483	3/8"	1/2"	5-8 PSI	
102344X	102344	3/8"	3/8"	10-16 PSI	
289525X	289042	1/4"	3/8"	1 PSI max	w/insert
289525X	289525	3/8"	3/8"	1 PSI max	w/insert

*3/8" P.T. Exhaust Port

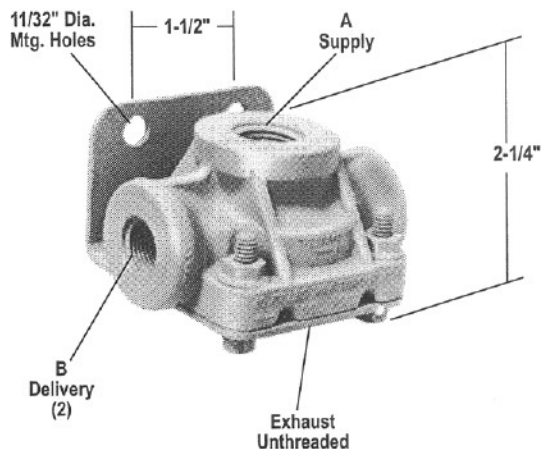


QRN Quick Release Valve

• Maintenance Kit 104463

V.M.R.S. 13-010-008

QRN Quick Release Valve Service Pc. No.	Port Sizes		Crack Press	Mtg.
	A Supply	B Delivery		
065066	1/2"	3/8"	1 PSI Max	.34 holes
065067	3/8"	3/8"	1 PSI Max	.34 holes
065068	3/8"	3/8"	5-8 PSI	.34 holes
065212	3/8"	3/8"	1 PSI Max	.34 x .75 slots
065213	3/8"	3/8"	4.5-7.5 PSI	.34 x .75 slots
065214	3/8"	3/8"	2-4.5 PSI	.34 x .75 slots
065215	1/2"	3/8"	5-8 PSI	.34 holes
065311	1/2"	3/8"	4.5-7.5 PSI	.34 x .75 slots
065347	1/2"	3/8"	2-4.5 PSI	.34 x .75 slots
800439	1/2"	3/8"	2-4.5 PSI	-

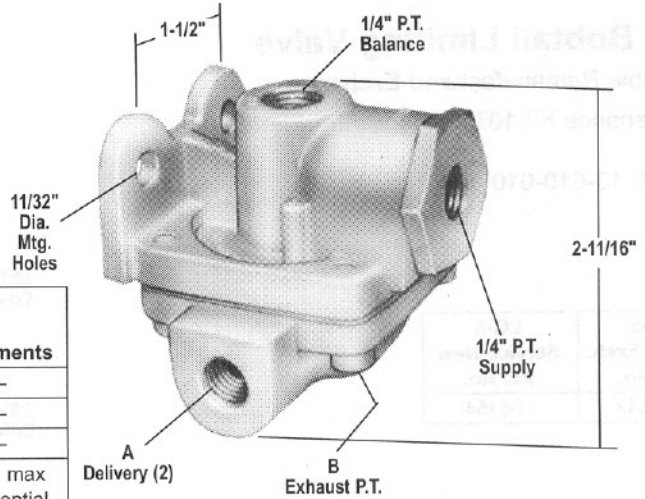


QR-1C Quick Release

- Available Remanufactured Exchange
- Supply and Delivery Differential is 0 PSI

V.M.R.S. 13-010-008

QR-1C Reman. Exch. Pc. No.	QR-1C Service New Pc. No.	A Delivery P.T. Size	B Exhaust P.T. Size	Comments
289182X	289182	1/4"	-	-
289714X	289714	3/8"	-	-
-	107881	3/8"	1/2" w/Silencer	-
-	800539	3/8"	-	1 psi max differential

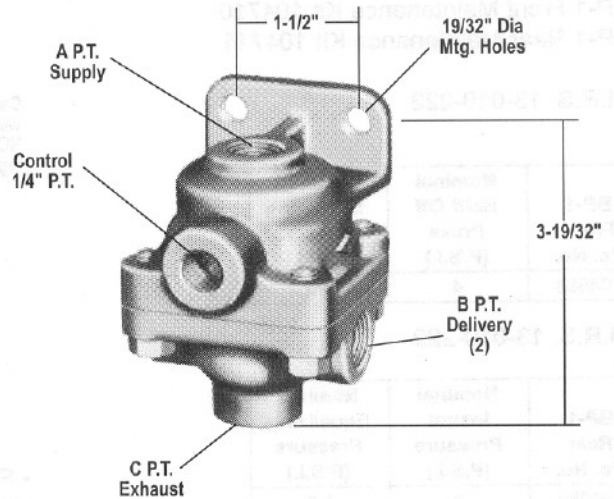


LQ-2 Limiting and Quick Release Valve

- Available Remanufactured Exchange
- Maintenance Kit 282098

V.M.R.S. 13-010-008

LQ-2 Reman. Exch. Pc. No.	LQ-2 Service New Pc. No.	A Pipe Thread	B Pipe Thread	C Pipe Thread
229505X	229505	3/8"	3/8"	-
229507X	229507	1/2"	1/4"	-
229509X	229509	3/8"	1/4"	-
288417X	288417	3/8"	3/8"	3/8"

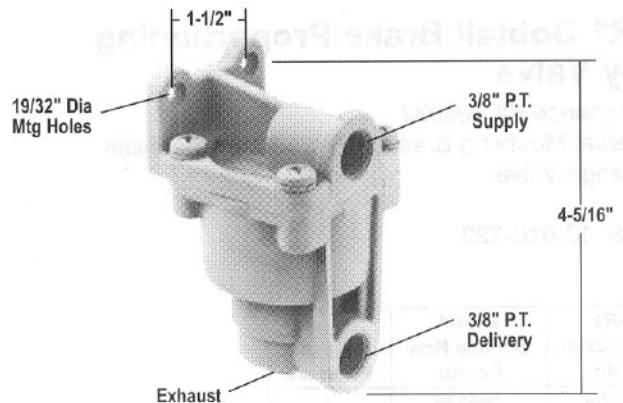


LQ-4 Front Axle Ratio Valve

- Available Remanufactured Exchange
- Maintenance Kit 289500

V.M.R.S. 13-010-034

LQ-4 Reman. Exch. Pc. No.	LQ-4 Service New Pc. No.	Nominal Hold Off Pressure	Nominal Equalizing Pressure
101311X	101311	20	70
289144X	289144	4	60
289148X	289148	10	65

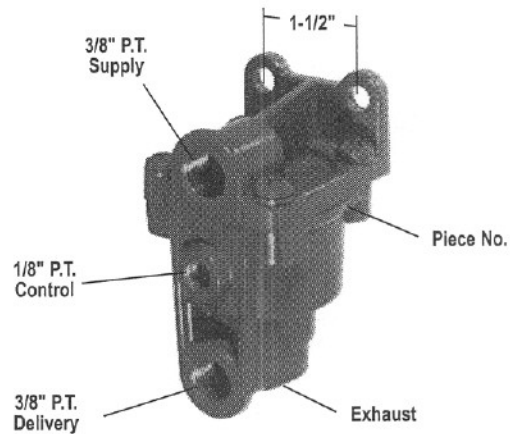


LQ-5 Bobtail Limiting Valve

- Available Remanufactured Exchange
- Maintenance Kit 107195

V.M.R.S. 13-010-010

LQ-5 Reman. Exch. Pc. No.	LQ-5 Service New Pc. No.
065154X	065154



BP-1 Air Brake Proportioning Valve

- BP-1 Front Maintenance Kit 104710
- BP-1 Rear Maintenance Kit 104711

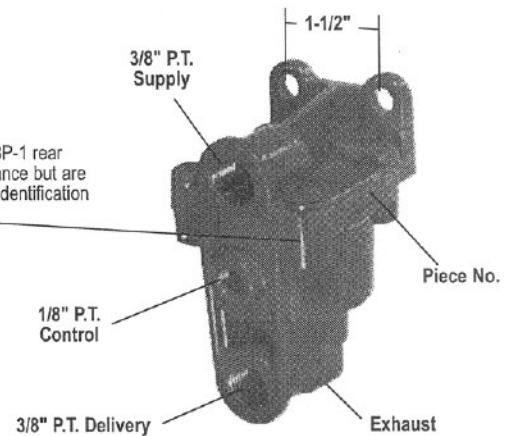
V.M.R.S. 13-010-222

BP-1 Front Pc. No.	Nominal Hold Off Press (P.S.I.)	Nominal Equalizing Pressure (P.S.I.)
104598	4	50

V.M.R.S. 13-010-222

BP-1 Rear Pc. No.	Nominal Inshot Pressure (P.S.I.)	Nominal Equalizing Pressure (P.S.I.)
106284	8	105

Caution: The BP-1 front & BP-1 rear valves are similar in appearance but are NOT interchangeable. Note identification tag located



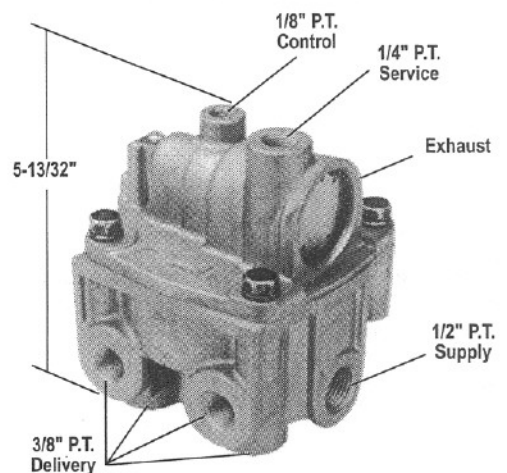
- Field Installation Kit **209923** (Vehicles **without** front axle limiting)
- Field Installation Kit **209924** (vehicles **with** front axle limiting)

BP-R1 Bobtail Brake Proportioning Relay Valve

- Maintenance Kit 106932
- Universal Mounting Bracket 296010 furnished with Exchange Valve

V.M.R.S. 13-010-222

BP-R1 Reman. Exch. Pc. No.	BP-R1 Service New Pc. No.	Crack Pressure
065145X	065145	4
065146X	065146	5.5



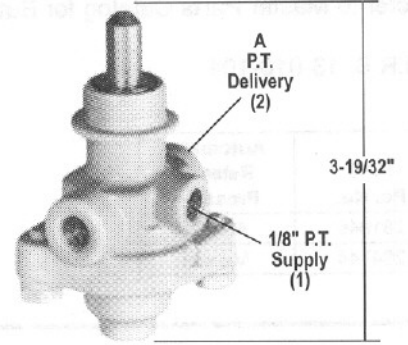
PP-1 Control Valve

- Available Remanufactured Exchange
- Maintenance Kit 281126
- Button and Mtg. Nut not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-016

PP-1 Reman. Exch. Pc. No.	PP-1 Service New Pc. No.	Automatic Release Pressure	A P.T.
276566X	276566	20 PSI	1/8"
276567X	276567	40 PSI	1/8"
278450X	278450	—	1/8"
*281587X	*281587	40 PSI	1/8"
283828X	283828	60 PSI	1/8"
287417X	287417	30 PSI	1/4"
287600X	287600	40 PSI	1/4"

*Remote controlled

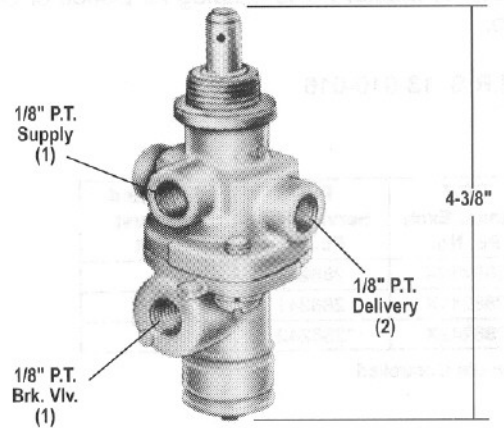


PP-2 Control Valve (Pressure Balanced)

- Available Remanufactured Exchange
- Maintenance Kit 281127
- Button and Mtg. Nut not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-104

PP-2 Reman. Exch. Pc. No.	PP-2 Service New Pc. No.	Automatic Release Pressure
276462X	276462	40 PSI



PP-3 Control Valve (Automatic Tripper)

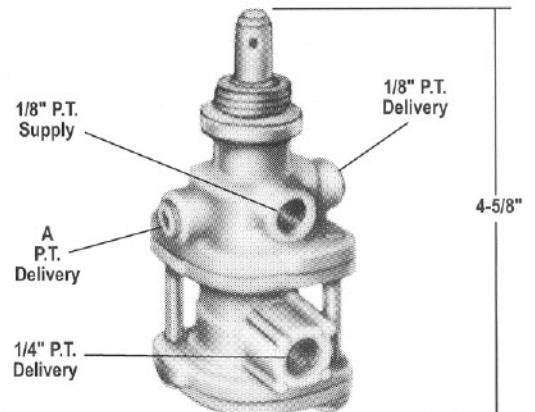
- Available Remanufactured Exchange
- Maintenance Kit 280857
- Button and Mtg. Nut not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-016

PP-3 Reman. Exch. Pc. No.	PP-3 Service New Pc. No.	A P.T.
†279787X	†279787	None
288746X	288746	None
289477X	289477	1/8"
*289512X	*289512	1/8"

Tripper Exhausts at 30 P.S.I. & Charges above 50 P.S.I. Plunger Trips at 40 P.S.I. and Charges Manually.

*Remote Controlled
†Mtg. Nut Furnished

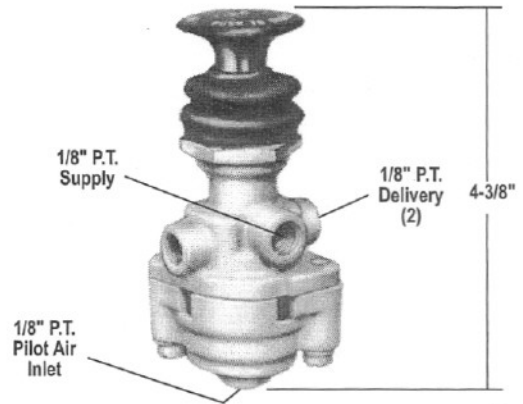


PP-5 Control Valve (With Pilot Air Release)

- Maintenance Kit 281949
- Button is Furnished with Valve Pc. No. 284744
- Refer to Master Parts Catalog for Button Pc. No.

V.M.R.S. 13-010-104

PP-5 Pc. No.	Automatic Release Pressure
281946	40 PSI
284744	Manual



PP-7 Trailer Supply Valve

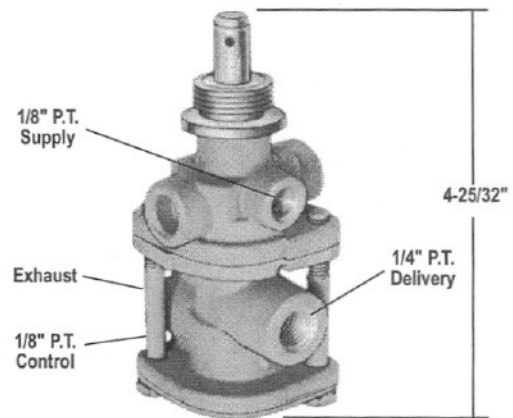
- Available Remanufactured Exchange
- Maintenance Kit 287367
- Button and Mtg. Nut not Furnished with Exchange Valve.
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-016

Automatic Release Pressure 40 PSI

PP-7 Reman. Exch. Pc. No.	PP-7 Service New Pc. No.	Threaded Exhaust Port
288239X	288239	-
288241X	288241	1/4"
*288242X	*288242	-

* Remote Controlled

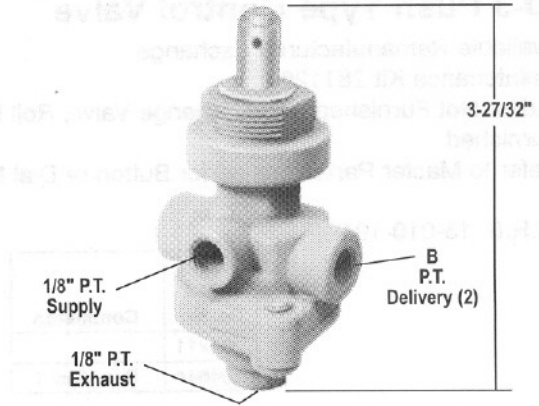


PP-8 Control Valve

- Available Remanufactured Exchange
- Button and Mtg. Nut not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-104

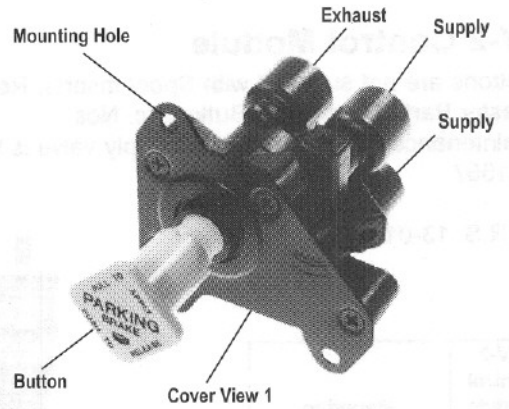
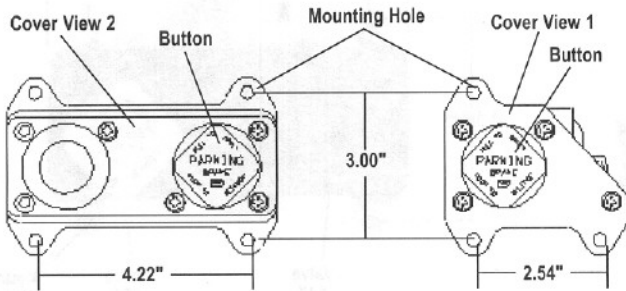
PP-8 Reman. Exch. Pc. No.	PP-8 Service New Pc. No.	B P.T.
287238X	287238	1/8"
287418X	287418	1/4"



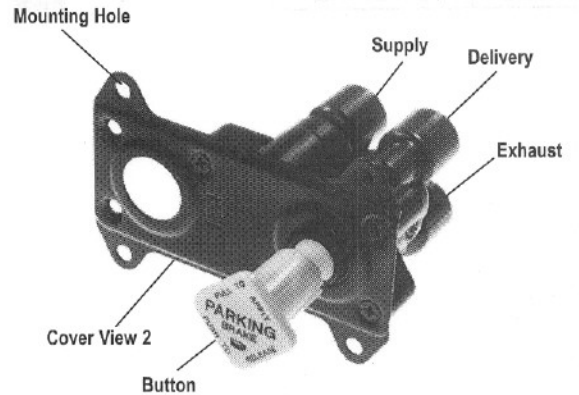
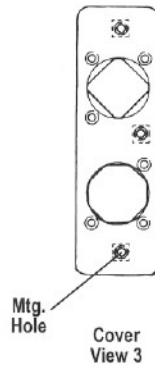
PP-DC Control Valve

- Maintenance Kit 5006939

V.M.R.S. 13-101-017



Service Pc. No.	Cover View	Mounting Hole	Port Type
065643	2	.27" DIA.	Push-to-connect (3/8" O.D. Tubing)
065661	1	1/4"-20 THD.	Push-to-connect (3/8" O.D. Tubing)
065690	1	.27" DIA.	Push-to-connect (3/8" O.D. Tubing)
800034	2	.27" DIA.	1/4"-18 N.P.T.
800142	1	1/4"-20 THD.	1/4"-18 N.P.T.
800309	3	M-6	Push-to-connect (3/8" O.D. Tubing)

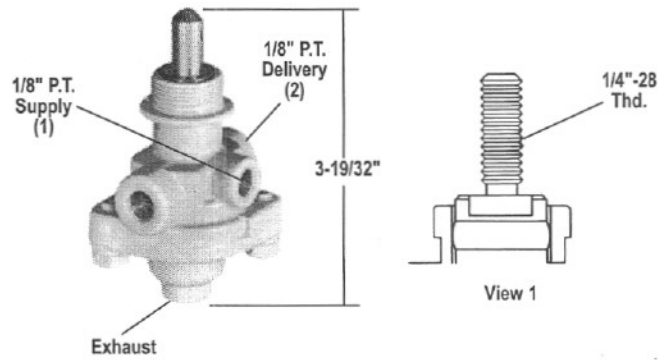


RD-3 Push Type Control Valve

- Available Remanufactured Exchange
- Maintenance Kit 281126
- Button Not Furnished with Exchange Valve, Roll Pin Furnished
- Refer to Master Parts Catalog for Button or Dial Plate Pc. No.

V.M.R.S. 13-010-104

Basic RD-3 Pc. No.	Comments
286211	-
104644	See View 1

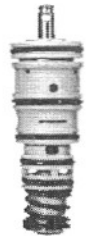


MV-2 Control Module

- Buttons are not supplied with Spool Inserts. Refer to Master Parts Catalog for Button Pc. Nos.
- Maintenance kit for dual circuit supply valve is Pc. No. 101557.

V.M.R.S. 13-010-112

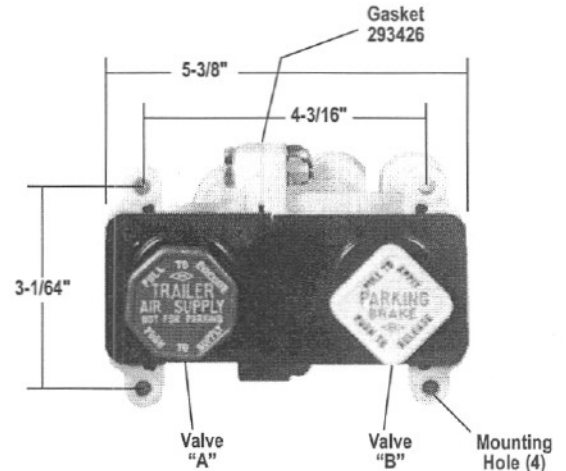
MV-2 Control Module Pc. No.	Mounting Hole
101437	1/4" UNTHREADED
101890	1/4-20 THD.
102027	#10-24 THD.



Valve "A"
Spool Assy.
101569



Valve "B"
Spool Assy.
101570

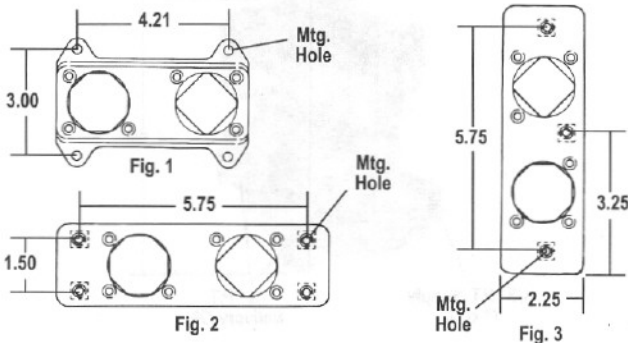
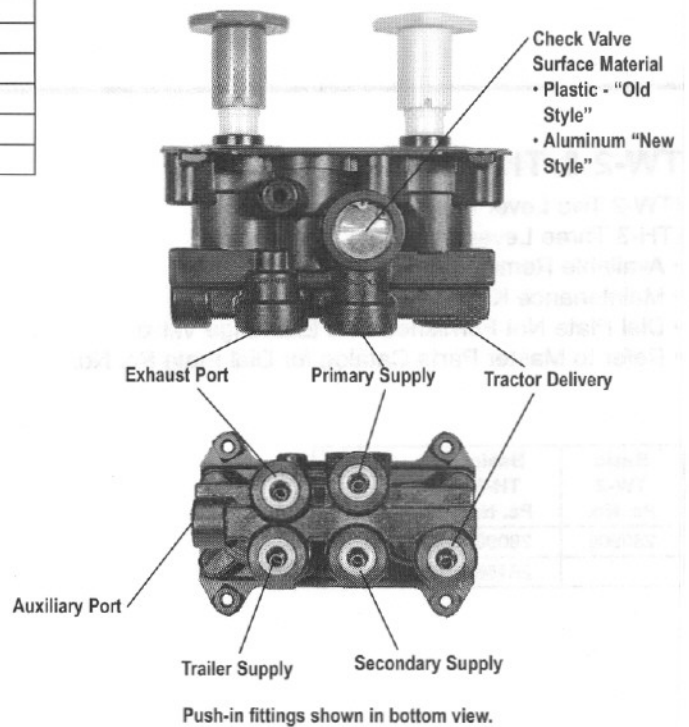
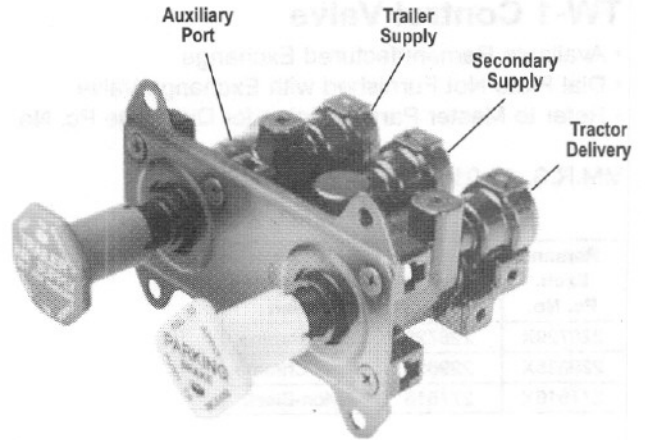


MV-3 Control Module

- Maintenance Kit 107216 (old style) or 5002741 (new style)
- Shuttle Kit 107217 (old style) or 5002742 (new style)
- (See check valve material to determine kit piece numbers)

V.M.R.S. 13-010-112

Service Pc. No.	Replaces	Mtg. Plate Figure	Mtg. Hole Dia./Thd.	Aux. Port Thd. (NPT)	Comments
800257	065523	1	0.27	—	Push-in Fittings-3/8"
800259	800036	1	1/4-20	—	Push-in Fittings-3/8"
800516	065157	1	0.27	—	
800517	065159	2	M6 x 1-6H	—	
	065379				
800518	065160	1	0.27	1/8-27	
800519	065186	1	1/4-20	—	
800521	065192	3	1/4-20	—	
800522	—	1	M6 x 1-6H	1/8-27	
800523	065248	1	#10-24	—	
800573	065187	1	1/4-20	—	
800584	065208	1	M6 x 1-6H	1/8-27	

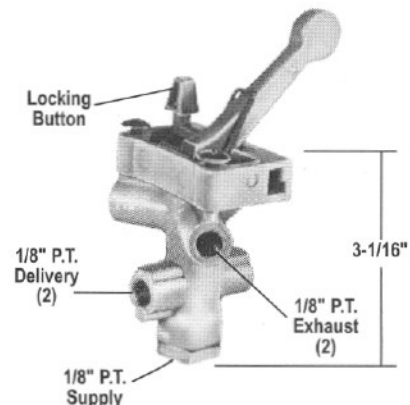


TC-4 Modulating Control Valve (With Lever Latch)

- Available Remanufactured Exchange
- Dial Plate Not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Dial Plate Pc. No.

V.M.R.S. 13-010-104

Reman. Exch. Pc. No.	Service Pc. No.	Locking Button Position	Delivery Pressure P.S.I.	Comments
282368X	282368	LEFT	86-100	—
282382X	282382	LEFT	86-100	Includes Dial Plate

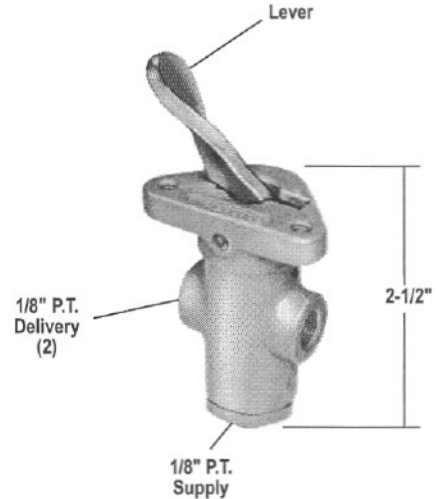


TW-1 Control Valve

- Available Remanufactured Exchange
- Dial Plate Not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Dial Plate Pc. No.

V.M.R.S. 13-016-016

Reman. Exch. Pc. No.	Service Pc. No.	Lever Mat'l and Finish
228729X	228729	Zinc-Chrome
229635X	229635	Steel-Chrome
277516X	277516	Nylon-Black



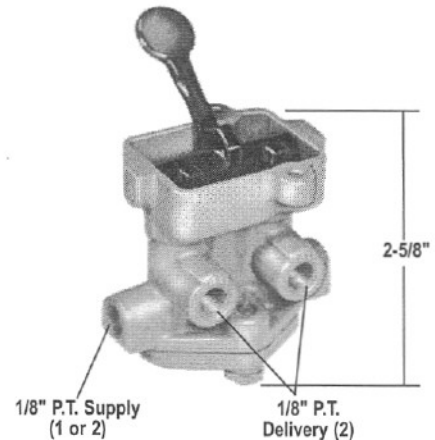
TW-2 & TH-3 Control Valve

(TW-2 Two Lever Positions)

(TH-3 Three Lever Positions)

- Available Remanufactured Exchange
- Maintenance Kit 282391
- Dial Plate Not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Dial Plate Pc. No.

Basic TW-2 Pc. No.	Basic TH-3 Pc. No.	Lever
280905	280904	Centering
	281560	Positioning



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Berg
Wagner
Neway
Cummins
Kelsey Hayes

Service New
Rockwell/WABCO Air Dryer
Hydraulic Disc Pads
Cartridges
Compressor Kits
Valve Kits

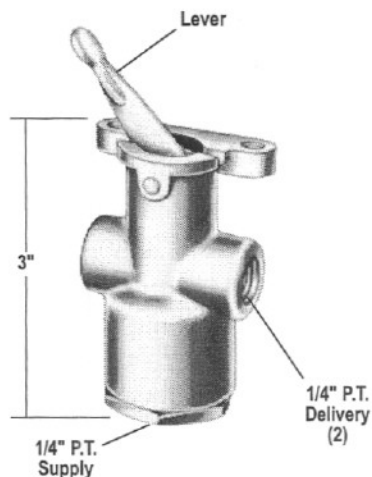
TW-3 Control Valve

- Available Remanufactured Exchange
- Dial Plate Not Furnished with Exchange Valve
- Refer to Master Parts Catalog for Dial Plate Pc. No.

V.M.R.S. 13-010-016

Reman. Exch. Pc. No.	Service Pc. No.	Lever Mat'l.
*225892X	*225892	ZINC
*228762X	*228762	STEEL
283040X	283040	STEEL

* Vacuum Control

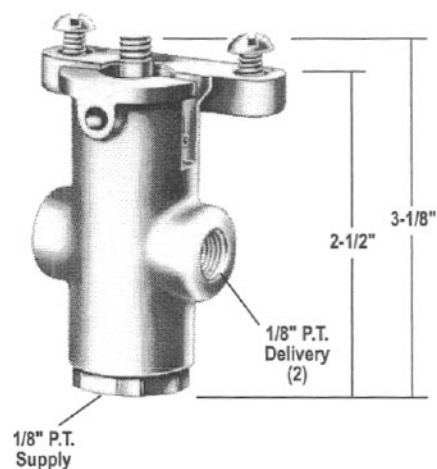


TW-4 Control Valve

- Available Remanufactured Exchange
- Refer to Master Parts Catalog for Button Pc. No.

V.M.R.S. 32-004-007

Basic TW-4 Pc. No.
276635



TW-11 Control Valve

- Used in conjunction with the HR-1 Hydraulic Relay Valve.

TW-11 Pc. No.	Configuration
065356	Fig. B
065316	Fig. A

Fig. B

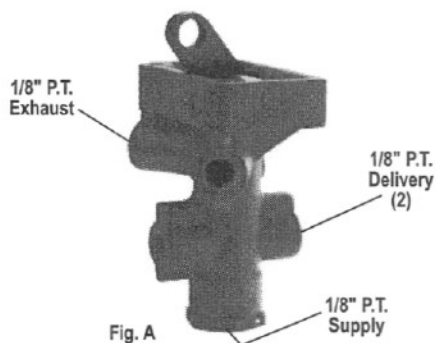
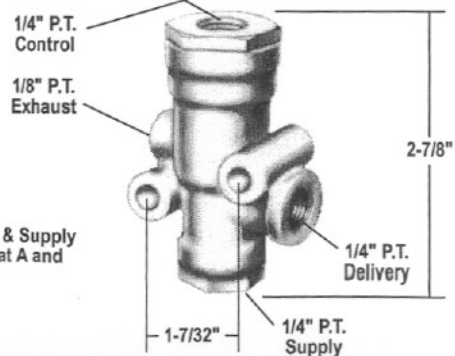


Fig. A

SV-1 Synchronizing Valve

SV-1 Pc. No.	A PSI	B PSI
278825	42	28
282472	21	11
283700	62	50

With Common Control & Supply Pressure, Inlet Opens at A and Exhaust Opens at B



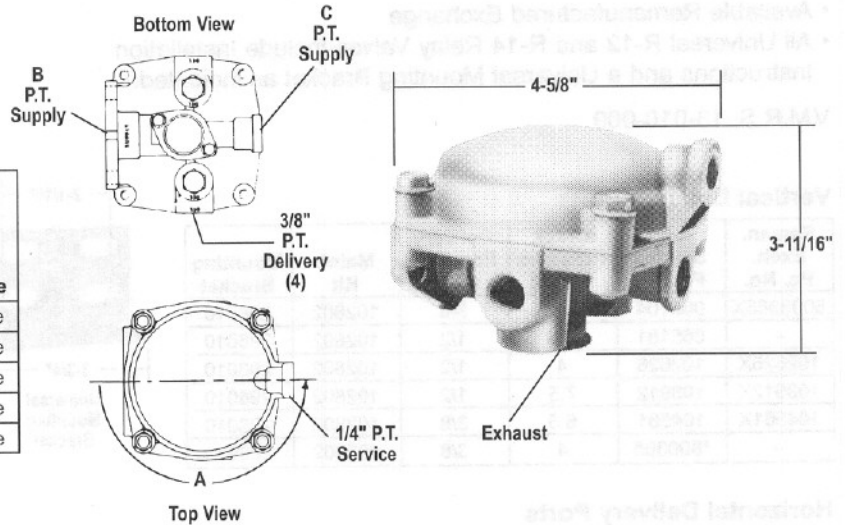
R-6 Relay Valve

- Available Remanufactured Exchange
- Maintenance Kit 280856

V.M.R.S. 13-010-009

Reman. Exch. Pc. No.	R-6 Basic Relay Valve Pc. No.	A Degrees Service Port Angle	B P.T.	C P.T.	Mtg. Flange
279180X	279180	180	—	3/8"	2 Hole
279952X	279952	180	3/4"	3/8"	2 Hole
280375X	280375	90	—	1/2"	2 Hole
279952X	*280651	180	3/4"	3/8"	2 Hole
283940X	283940	270	3/8"	3/8"	4 Hole

*Pipe Plugs & Gasket Attached
Crack Pressure 2 PS.I.



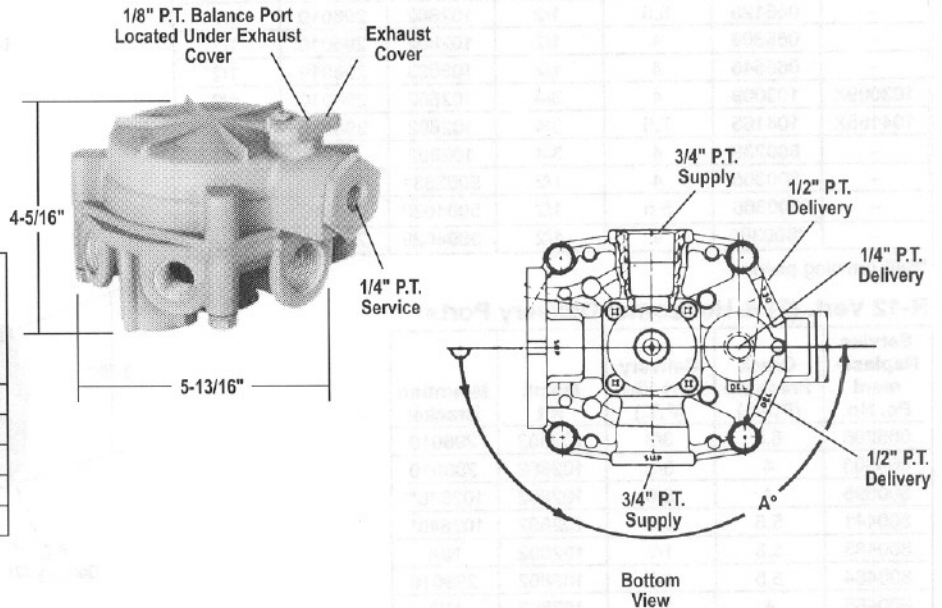
R-8 Relay Valve

- Available Remanufactured Exchange
- Maintenance Kit 287370

V.M.R.S. 13-010-009

Reman. Exch. Pc. No.	Service Pc. No.	A Service Port Location (Degree)	Comments
286370X	286370	90	
*286371X	*286371	90	
*287260X	*287260	180	
288369X	288369	180	
288781X	288781	180	Waterproof

*No Exhaust Cover

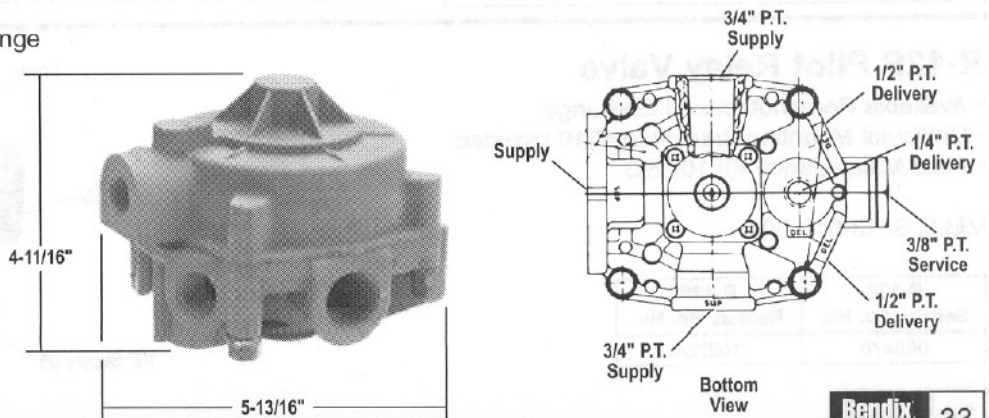


R-8P Relay Valve

- Available Remanufactured Exchange
- Maintenance Kit 103799

V.M.R.S. 13-010-009

Reman. Exch. Pc. No.	Service Pc. No.	Comments
287114X	287114	—



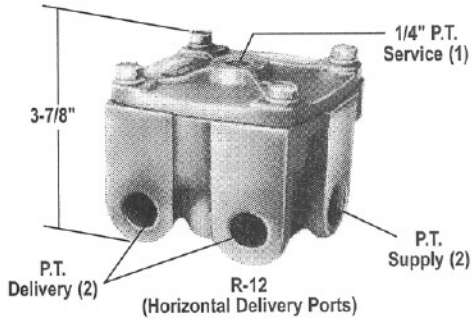
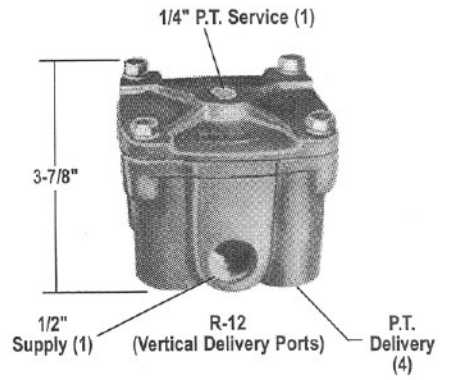
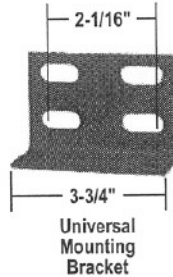
R-12 Relay Valves

- Available Remanufactured Exchange
- All Universal R-12 and R-14 Relay Valves Include Installation Instructions and a Universal Mounting Bracket as indicated.

V.M.R.S. 13-010-009

Vertical Delivery Ports

Reman. Exch. Pc. No.	Service Pc. No.	Crack Pressure (P.S.I.)	Delivery Port Size (P.T.)	Maint. Kit	Mounting Bracket
5003365X	065104	4	3/8	102802	296010
-	065181	5.5	1/2	102802	296010
102626X	102626	4	1/2	102802	296010
103912X	103912	7.5	1/2	102802	296010
104561X	104561	5.5	3/8	102802	296010
-	*800365	4	3/8	102802	296010



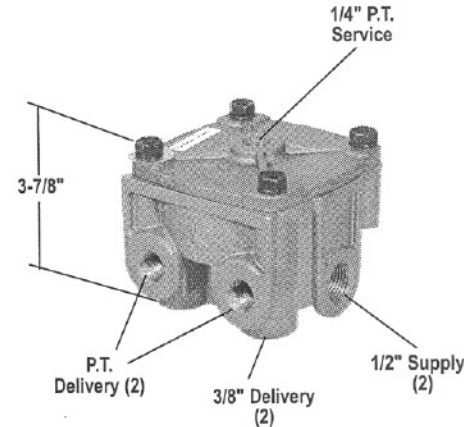
Horizontal Delivery Ports

Reman. Exch. Pc. No.	Service Pc. No.	Crack Pressure (P.S.I.)	Supply Port Size (P.T.)	Maint. Kit	Mounting Bracket	Delivery (P.T.)
-	065125	5.5	1/2	102802	296010	1/2
-	065309	4	1/2	102802	296010	1/2
-	065546	4	1/2	109523	296010	1/2
103009X	103009	4	3/4	102802	296010	1/2
104165X	104165	7.5	3/4	102802	296010	1/2
-	800238	4	3/4	102802	N/A	1/2
-	800305	4	1/2	5002831	296010	1/2
-	*800366	5.5	1/2	5004029	296010	3/8
-	*800365	4	1/2	5004029	296010	1/2

*Self draining piston

R-12 Vert. (2) & Horizontal Delivery Ports

Service Replacement Pc. No.	Crack Pressure (P.S.I.)	Delivery Port Size (P.T.)	Maint. Kit	Mounting Bracket
065206	5.5	3/8	102802	296010
065303	4	3/8	102802	296010
800095	4	3/8	102802	102846**
800441	5.5	3/8	102802	102846**
800483	5.5	1/2	102802	N/A
800484	5.5	1/2	102802	296010
800485	4	1/2	102802	N/A
800486	4	1/2	102802	296010
800508	5.5	1/2	102802	N/A



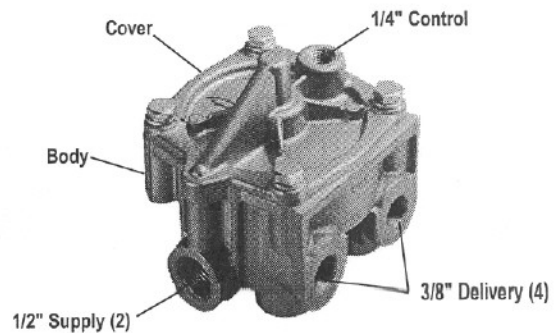
**Mounting bracket 102846 includes two 5/16 inch mounting studs.

R-12P Pilot Relay Valve

- Available Remanufactured Exchange
- Universal Mounting Bracket 296010 included
- Field Maintenance Kit 109265

V.M.R.S. 13-010-009

R-12P Service Pc. No.	R-12P Reman. Pc. No.
065476	109264



R-14 Relay Valves

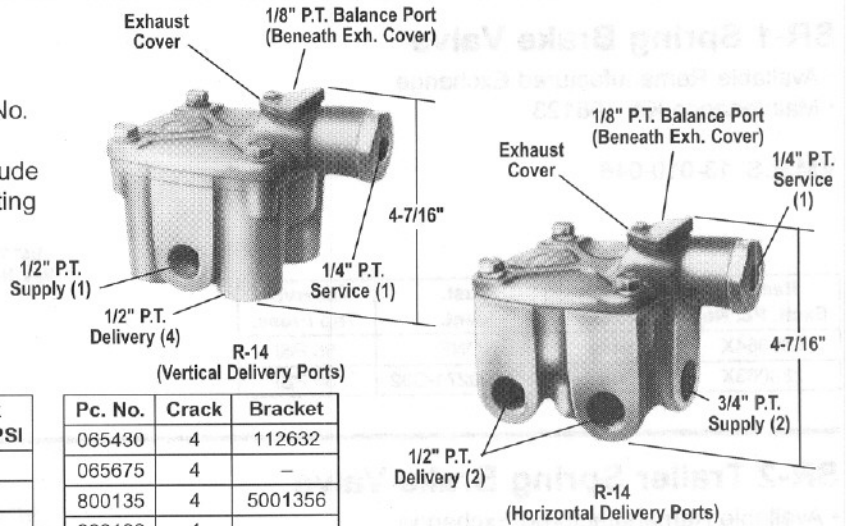
- Available Remanufactured Exchange
- Field Maintenance Kit for R-12 & R-14 is Pc. No. 102802
- All Universal R-12 and R-14 Relay Valves Include Installation Instructions and a Universal Mounting Bracket Pc. No. 296010.

V.M.R.S. 13-010-009

R-14 Horizontal Pc. No.	Crack Press. PSI	Supply
103010	4	3/4
103294	5.5	3/4
103835	7.5	3/4
104345	5	3/4
104574	4	1/2

R-14 Vertical Pc. No.	Crack Press. PSI
103028	4
103833	7.5
106313	5.5

Pc. No.	Crack	Bracket
065430	4	112632
065675	4	-
800135	4	5001356
800136	4	-



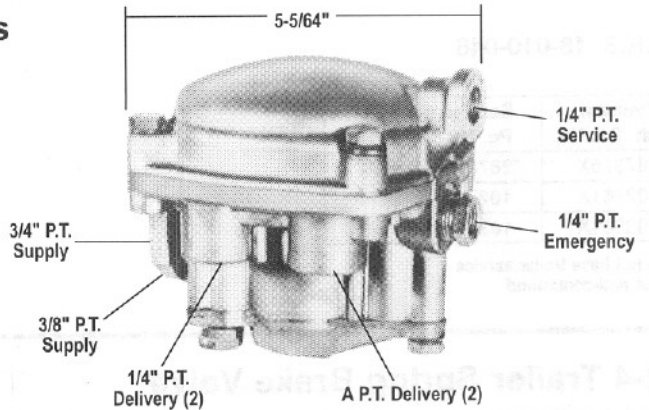
RE-6 & RE-6NC Relay Emergency Valves

- Available Remanufactured Exchange
- Maintenance Kits:
282812 Complete Valve
282813 Insert Only

V.M.R.S. 13-010-037

Reman. Exch. Pc. No.	Service Pc. No.	Model	A P.T. Delivery
281865X	281865	RE-6	3/8"
281860X	281860	RE-6	1/4"
-	065451	RE-6NC	1/4"

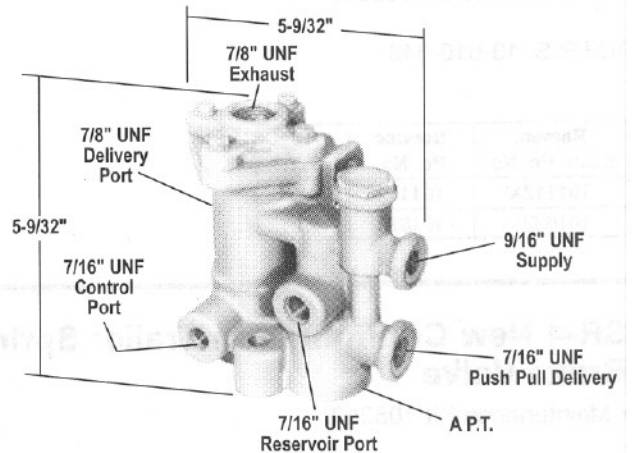
The RE-6NC must be used in conjunction with a PR-3 reservoir control valve.



HR-1 Hydraulic Relay Valve

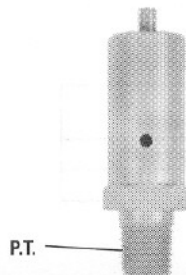
V.M.R.S. 13-010-015

HR-1 Service Pc. No.	Vehicles
065147	Ford, Navistar



ST-3 Safety Valve

V.M.R.S. 13-010-073



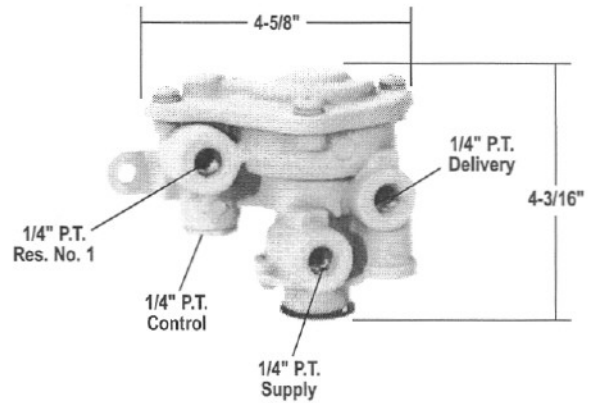
ST-3 Pc. No.	P.T.	Pressure Setting
284142	1/4	150 P.S.I.
284143	3/8	150 P.S.I.
285849	1/4	175 P.S.I.
285850	1/4	75 P.S.I.

SR-1 Spring Brake Valve

- Available Remanufactured Exchange
- Maintenance Kit: 108123

V.M.R.S. 13-010-048

Reman. Exch. Pc. No.	Service Pc. No.	Cust. Ident.	Reservoir Trip Press.
286364X	286364	NONE	55 PSI
288063X	288063	IHC-459271-C92	30 PSI



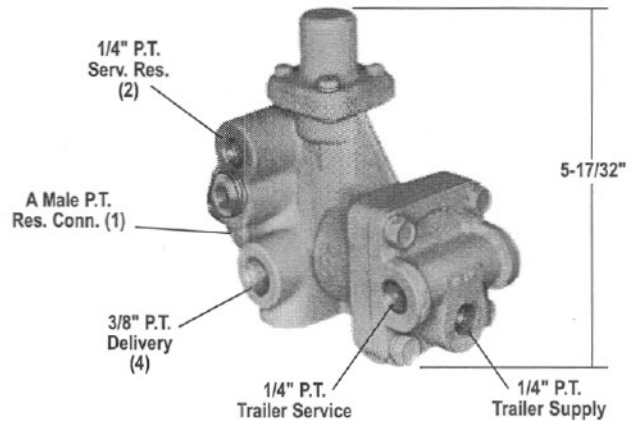
SR-2 Trailer Spring Brake Valve

- Available Remanufactured Exchange
- Maintenance Kit 287691

V.M.R.S. 13-010-048

Reman. Exch. Pc. No.	Service Pc. No.	A P.T.
*287376X	*287376	3/4"
102761X	102761	3/4"
103061X	103061	1/2"

*Does not have trailer service port for anti-compound

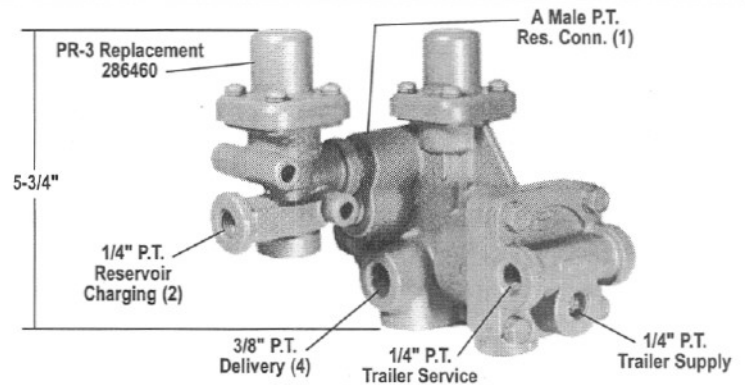


SR-4 Trailer Spring Brake Valve

- Available Remanufactured Exchange
- Maintenance Kit 102048

V.M.R.S. 13-010-048

Reman. Exch. Pc. No.	Service Pc. No.	A P.T.
101112X	101112	3/4"
101622X	101622	1/2"

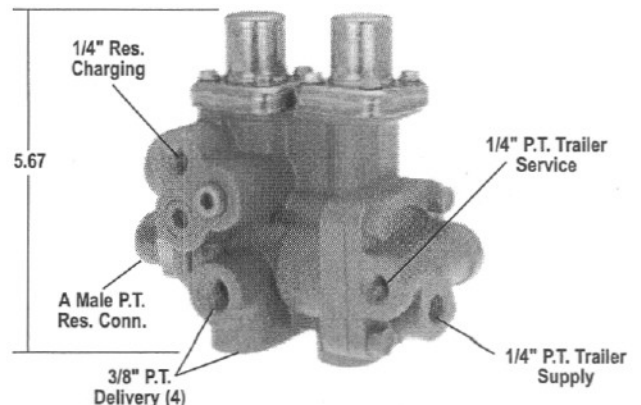


SR-4 New Configuration Trailer Spring Brake Valve

- Maintenance Kit 108259

V.M.R.S. 13-010-111

SR-4 Basic Pc. No.	SR-5 Basic Pc. No.	A	Comments
107539	065437	3/4" NPT	with anticomponding
-	065439	1/2" NPT	with anticomponding

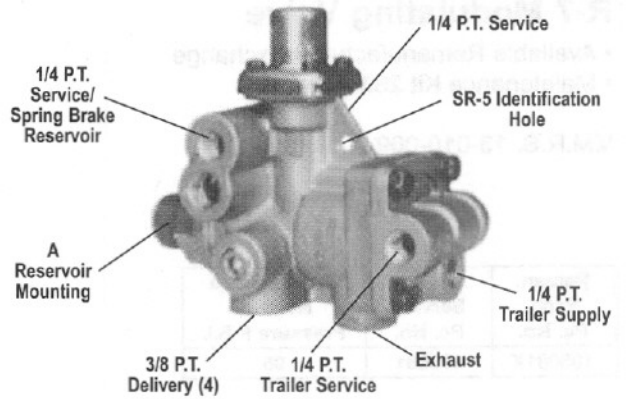


SR-5 Trailer Spring Brake Valve

• Maintenance Kit 109015

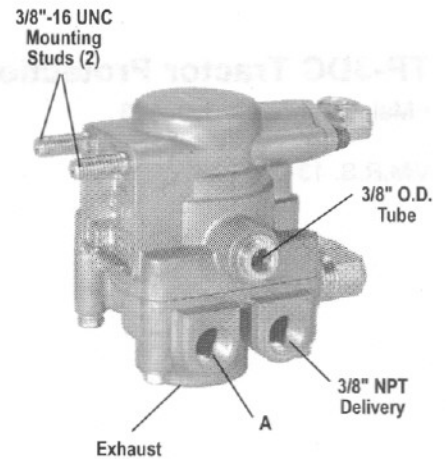
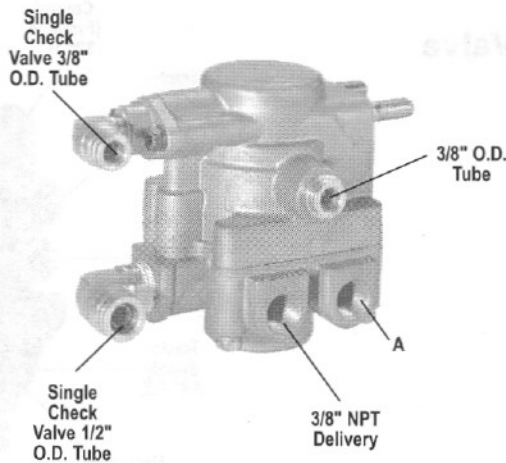
V.M.R.S. 13-010-048

Reman. Exch. Pc. No.	Service Pc. No.	A Male P.T.	Comments
109615X	065437	3/4"	With Anti-Compounding
109616X	065438	3/4"	-
109617X	065439	1/2"	With Anti-Compounding
109618X	065440	1/2"	-

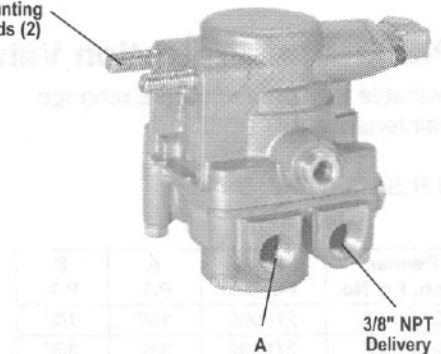
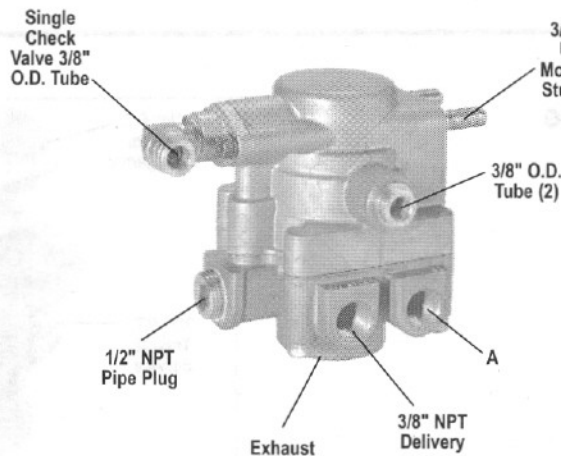


SR-7 Valves

Service Pc. No.	A	Check Valve Orientation
5010914	Plug	Shown
5010915	Plug	Rotate 180°
5010916	3/8" NPT	Shown
5010917	3/8" NPT	Rotate 180°
5011179	Plug	Shown
5011180	Plug	Rotate 180°



Spring Brake Relay



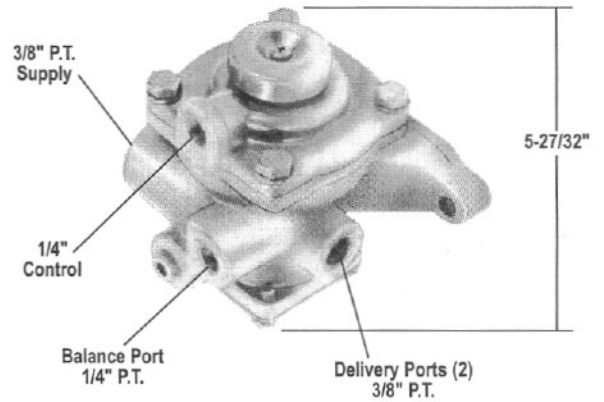
SR-7 Quick Release Valve

R-7 Modulating Valve

- Available Remanufactured Exchange
- Maintenance Kit 283861

V.M.R.S. 13-010-009

Reman. Exch. Pc. No.	Service Pc. No.	Spring Brake Release Pressure P.S.I.
103081X	103081	95

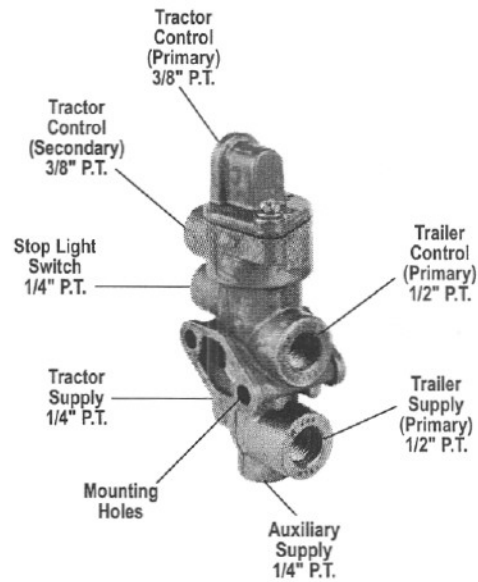


TP-3DC Tractor Protection Valve

- Maintenance Kit 5000073

V.M.R.S. 13-010-016

Service Pc. No.
065706

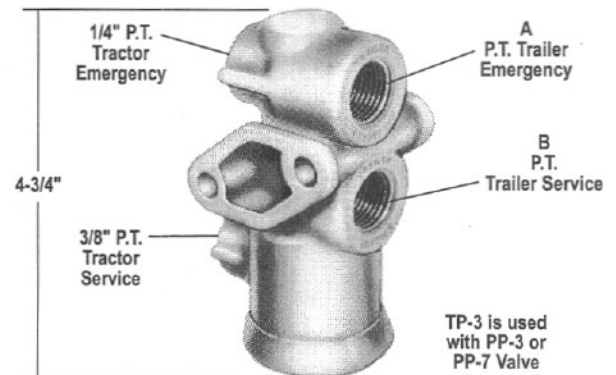


TP-3 Tractor Protection Valve

- Available Remanufactured Exchange
- Maintenance Kit 280858

V.M.R.S. 13-010-016

Reman. Exch. Pc. No.	Service Pc. No.	A P.T.	B P.T.
279000X	279000	1/2"	1/2"
279692X	279692	3/8"	3/8"
	280830	1/2"	



TP-3 is used with PP-3 or PP-7 Valve

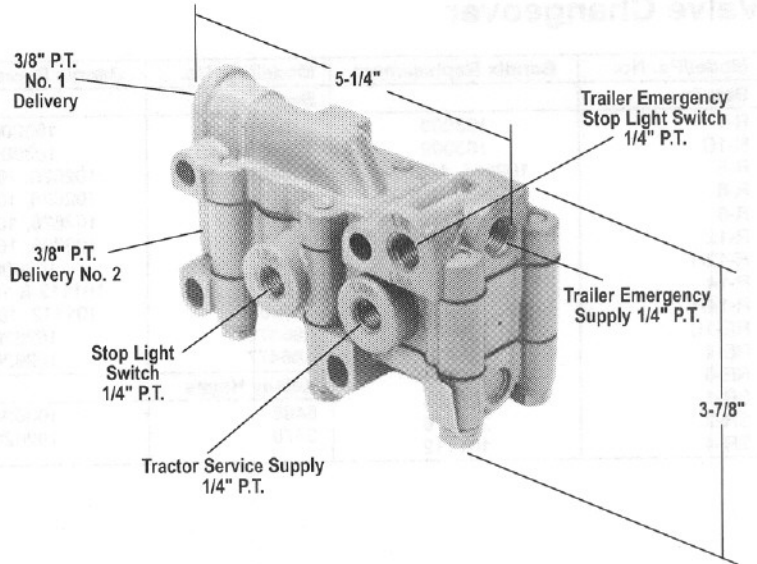
TP-4 Tractor Protection Valve

- Formerly VM-1 Control Valve Manifold
- Available Remanufactured Exchange
 - Maintenance Kit 283863

V.M.R.S. 13-010-114

Reman. Exch. Pc. No.	Service Pc. No.
288301X	288301

3 Sealing O-Rings Pc. No. 212268 Included with Valve



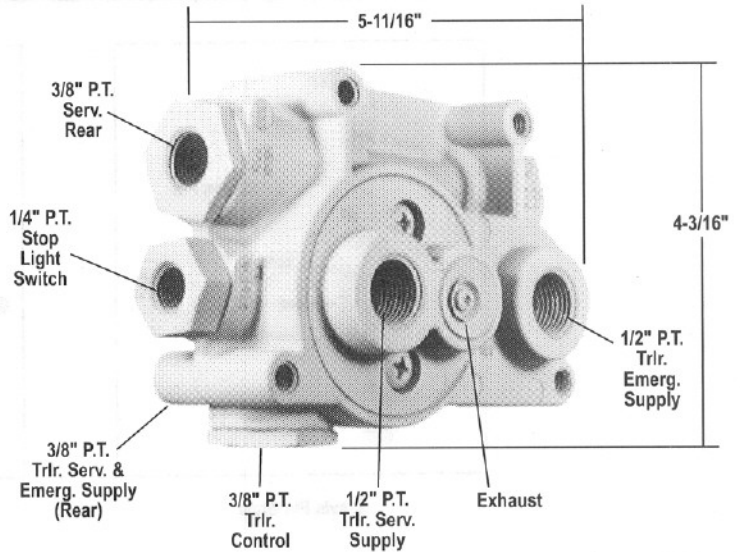
TP-5 Tractor Protection Valve

- Formerly VM-2 Control Valve Manifold
- Available Remanufactured Exchange
 - Maintenance Kit 289061

V.M.R.S. 13-010-114

Reman. Exch. Pc. No.	Service Pc. No.
288605X	288605
*289253X	*289253

*Use 289253 when a Trailer Control (Hand Valve) such as the TC-2 is not connected to the Trailer Control Port of the TP-5.

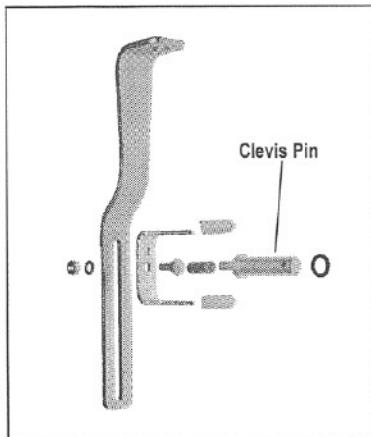


Valve Changeover

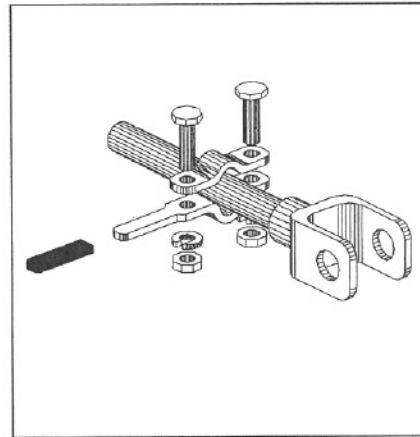
Model/Pc. No.	Bendix Replacement	Model/Pc. No.	Bendix Replacement	Model/Pc. No.	Bendix Replacement
Bendix		Berg		Midland	
R-1	103009	12340	103009	A104001	101112, 101622
R-1C	103009	12341	103009	A104002	101112, 101622
R-5	102626, 103009	12342	102626, 103009	A104003	101112, 101622
R-6	102626, 103009	12343	102626, 103009	A104010	101112, 101622
R-8	103010	12344	102626, 103009	KN20541	101112, 101622
R-12	102626	12345	102626, 103009	KN28060	103009
R-12H	103009	12346	103009	KN28061	103009
R-14	103028	12352	101112 & 102626	KN28071	103010
R-14H	103010	12360	101112, 101622	KN28132	103009
RE-1C	229434	A86473	102626	KN28140	103010
RE-4	229434	A86477	102626		
RE-6	281865	Kelsey Hayes		Sealco	
SR-1	286364	5468	103009	9125	102626, 103009
SR-2	287376	5470	102626	A1100	102626
SR-4	101112			Wagner	
				A78882	102626, 103009
				A78887	102626, 103009
				A88802	101112, 101622
				A88812	101112, 101622
				A98730	101112, 101622
				A98731	101112, 101622
				A98732	101112, 101622

Slack Adjusters 05

SureStroke™ Indicator



Clevis Pin Style



Clamp Pin Style

Piece No.	Stroke/Travel	Chamber Sizes*	Clevis Pin Dia.	Comments
Power Units				
PU175	1.75"	Type 16, 20 & 24	1/2"	
PU200	2.00"	Type 30, 16L, 20L & 24L	1/2"	
PU250	2.50"	Type 24L & 30L	1/2"	
PU175CP	1.75"	Type 16, 20 & 24	–	Clamp Pin
PU200CP	2.00"	Type 30	–	Clamp Pin
PU250CP	2.50"	Type 24L & 30L	–	Clamp Pin

Piece No.	Stroke/Travel	Chamber Sizes*	Clevis Pin Dia.	Comments
Trailer				
TL200	2.00"	Type 30	1/2"	
TL250	2.50"	Type 30L	1/2"	
TL200CP	2.00"	Type 30	–	Clamp Pin
TL250CP	2.50"	Type 30L	–	Clamp Pin

*L – denotes long stroke

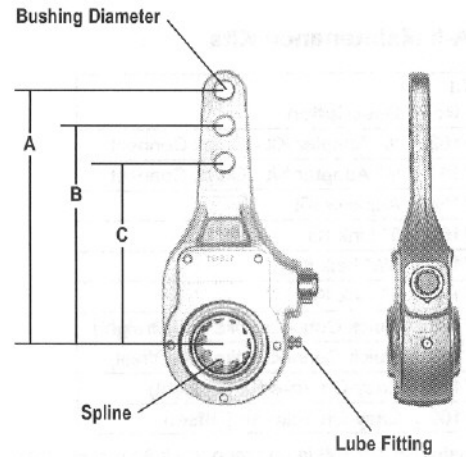
Straight Arm

V.M.R.S. 13-001-030 (FRONT)
13-002-028 (REAR)

Selecting A Slack Adjuster

1. Determine if straight or offset arm. If offset determine if RH or LH is needed.
2. Identify spline size (diameter and number of teeth).
3. Select model needed.
4. Determine the arm hole used (if slack contains more than one).
5. Identify bushing diameter.

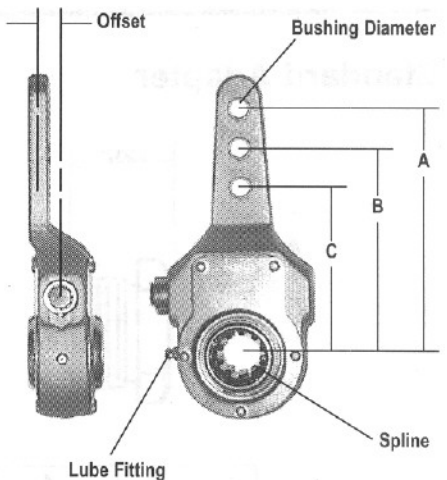
Piece No.	SAE Torque Rating-lbs	Spline	Teeth	Arm Length (In.)			Bushing Dia.	Lube Fitting	Fitting Direction
				A	B	C			
278302	26,000	1-1/4"	10	5.5	4.5	-	0.5	Straight	Straight
278305	26,000			7.0	6.0	5.0			
278323	26,000	1-1/2"	10	7.0	6.0	5.0	0.5	Straight	Straight
278326	26,000			6.5	5.5	4.5			
278008	30,000			6.5	5.5	-			
278010	30,000			6.0	5.0	-			
278045	30,000			7.0	6.0	5.0			
279634	30,000			7.75	6.75	-			
101827	26,000	1-1/2"	10	6.0	-	-	0.625	90 Deg. Straight	Left
277959	26,000			6.5	5.5	-			
102110	30,000			6.5	5.5	-			
278016	30,000			6.5	5.5	-			
278017	30,000			6.0	5.0	-			
278035	30,000			7.5	5.5	-			
278035	30,000			7.5	5.5	-			
288282	26,000	1-1/2"	28	7.0	6.0	5.0	0.5	Straight	Straight
286965	26,000			6.0	5.0	-			
288753	26,000			6.5	5.5	-			
287899	30,000			6.5	5.5	-			
101133	26,000	1-1/2"	28	6.0	5.0	-	0.625	Straight	Straight
101134	26,000			6.5	5.5	-			
101289	26,000			6.5	5.5	-			
101290	26,000			6.0	5.0	-			
101214	30,000			6.5	5.5	-			
101215	30,000			6.0	5.0	-			
101216	30,000			7.0	-	-			
283411	26,000	1-5/8"	37	6.0	-	-	0.5	Straight	Straight



Offset Arm

Piece No.	SAE Torque Rating-lbs	Spline	Teeth	Arm Length (In.)			Bushing Dia.	Lube Fitting	Offset	Handed
				A	B	C				
278288	26,000	1-1/4"	10	6.0	5.0	4.0	0.5	Straight	0.625	RH
278289				LH						
278294				RH						
278295				LH						
278252	26,000	1-1/2"	10	5.5	4.5	-	0.5	Straight	0.625	RH
278253				LH						
279300				RH						
279301				LH						
279946				RH						
279947				LH						
280424				RH						
280425	LH									
282560	26,000	1-1/2"	10	6.0	5.0	4.0	0.5	Straight	1.5	RH
282561				LH						
279309	20,000	1-1/2"	10	5.75	-	-	0.5	Straight	1.5	LH
279350				RH						
279351				LH						
288539				RH						
288540				LH						
288541				RH						
288542				LH						
101413	20,000	1-1/2"	28	5.5	-	-	0.5	Straight	1.5	LH
101414				RH						
287896				RH						
287897				LH						

Left Hand (LH) Shown - Right Hand (RH) Opposite



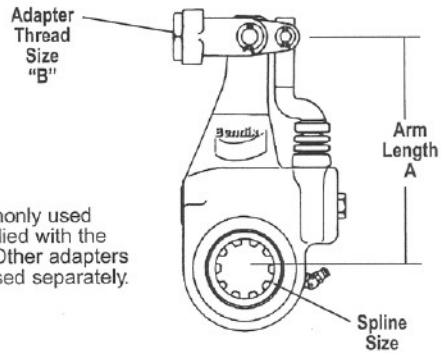
ASA-5 Automatic Slack Adjuster

V.M.R.S. 013-001-030 (FRONT)
013-002-028 (REAR)

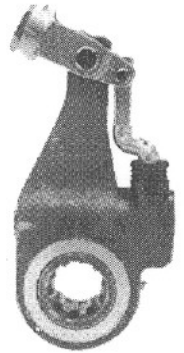
ASA-5 Maintenance Kits

Kit Pc. No.	Description
107162	1/2" Adapter Kit - Quick Connect
107161	5/8" Adapter Kit - Quick Connect
*107156	Adjuster Kit
107163	5" Link Kit
107164	5 1/2" Link Kit
107165	6" Link Kit
107157	Quick Connect Yoke Kit (Straight)
107159	Quick Connect Yoke Kit (Offset)
107158	Easy-On Yoke Kit (Straight)
107160	Easy-On Yoke Kit (Offset)

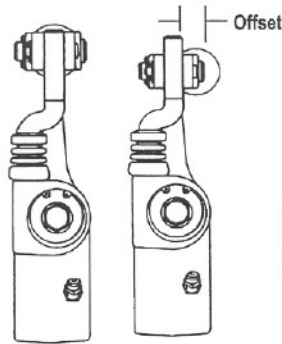
*Adjuster Kit 107156 is common to all ASA-5 Pc. Nos.
Refer to Service Parts Catalog for Kit Contents



The most commonly used adapter is supplied with the slack adjuster. Other adapters may be purchased separately.



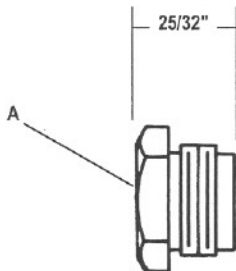
ASA-5 Exterior



Straight

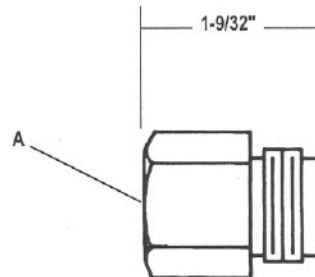
All offset slack adjusters are provided as shown. If the opposite offset is needed remove the yoke and rotate 180°.

Standard Adapter



Yoke Adapter Pc. No.	A Push Rod Thread Size
291452	5/8"-18 UNF
292756	1/2"-20 UNF

Extended Adapter



Yoke Adapter Pc. No.	A Push Rod Thread Size
297700	5/8"-18 UNF
297701	1/2"-20 UNF

ASA-5 SERVICE ASSY. PC. NO.	ARM LENGTH A	ADAPTER THREAD SIZE B	YOKE OFFSET	SERVICE PARTS/KITS			COMMENTS
				ADAPTER	YOKE	LINK	
1 1/4"-10C SPLINE							
065162	5"	1/2-20	5/8"	292756	107160	107163	
065163	5-1/2"	5/8-18	5/8"	291452	107160	107164	
065244	5-1/2"	1/2-20	5/8"	292756	107160	107164	
065164	5-1/2"	1/2-20	Straight	292756	107158	107164	
801351	5-1/2"	5/8-18	Straight	291452	107158	107164	
1 1/4"-24 SPLINE							
065166	5"	1/2-20	5/8"	292756	107160	107163	
065167	5-1/2"	5/8-18	Straight	291452	107158	107164	
065274	5-1/2"	1/2-20	Straight	292756	107158	107164	
065306	5-1/2"	1/2-20	5/8"	292756	107160	107164	Worm Gear Incorporates a lubrication passage
065335	5-1/2"	1/2-20	Straight	292756	107158	107164	Worm Gear Incorporates a lubrication passage
065403	5-1/2"	5/8-18	Straight	291452	107158	107164	Worm Gear Incorporates a lubrication passage
801357	5"	5/8-18	5/8"	291452	107160	107163	
1 1/2"-10C SPLINE							
065168	5"	1/2-20	Straight	292756	107158	107163	
065169	5-1/2"	1/2-20	5/8"	292756	107160	107164	
065170	5-1/2"	5/8-18	Straight	291452	107158	107164	
065172	6"	5/8-18	Straight	291452	107158	107165	
065344	6"	5/8-18	Straight	291452	107158	107165	Worm Gear Incorporates a lubrication passage
065488	5-1/2"	5/8-18	5/8"	291452	107160	107164	Worm Gear Incorporates a lubrication passage
065508	5"	5/8-18	Straight	291452	107158	107163	Worm Gear Incorporates a lubrication passage
065700	5-1/2"	5/8-18	Straight	291452	107158	107164	Worm Gear Incorporates a lubrication passage
801352	5"	5/8-18	Straight	291452	107158	107163	
801353	5-1/2"	1/2-20	Straight	292756	107158	107164	
801358	5-1/2"	5/8-18	5/8"	291452	107160	107164	
801359	5"	5/8-18	5/8"	291452	107160	107163	
1 1/2"-28 SPLINE							
065173	5"	1/2-20	Straight	292756	107158	107163	
065174	5-1/2"	5/8-18	Straight	291452	107158	107164	
065175	6"	5/8-18	Straight	291452	107158	107165	Worm Gear Incorporates a lubrication passage
065176	6"	5/8-18	Straight	291452	107158	107165	
065195	5-1/2"	5/8-18	Straight	291452	107158	107164	Customer Ident. Body
065221	5-1/2"	1/2-20	Straight	292756	107158	107164	Worm Gear Incorporates a lubrication passage
065245	5-1/2"	1/2-20	5/8"	292756	107160	107164	Worm Gear Incorporates a lubrication passage
065247	5-1/2"	5/8-8	Straight	291452	107158	107164	Worm Gear Incorporates a lubrication passage
065276	6"	1/2-20	5/8"	292756	107160	107165	Worm Gear Incorporates a lubrication passage
801354	5"	5/8-18	Straight	291452	107158	107163	
801355	5-1/2"	1/2-20	Straight	292756	107158	107164	
801356	6"	1/2-20	Straight	292756	107158	107165	
1 5/8"-37 SPLINE							
065177	6"	5/8-18	Straight	291452	107158	107165	
065178	5-1/2"	5/8-18	Straight	291452	107158	107164	
065179	6"	5/8-18	Straight	291452	107158	107165	Worm Gear Incorporates a lubrication passage
065182	5-1/2"	5/8-18	Straight	291452	107158	107164	Worm Gear Incorporates a lubrication passage

The easy-on-yoke assemblies are standard on the ASA-5 service basic slack adjusters, however, early production assemblies may contain the quick connect yoke.

If the quick connect yoke is required it must be purchased separately and installed by the customer.

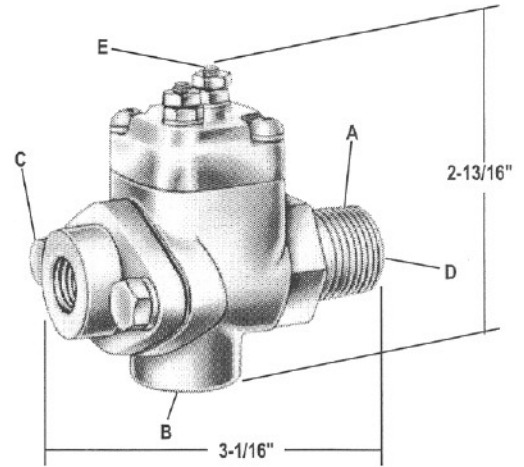
All ASA-5 slack adjusters are supplied with a 45° lube fitting unless otherwise noted.

DS-1 Combined Stop Light Switch Double Check Valve

- Available Remanufactured Exchange
- Field Maintenance Kit 276142

V.M.R.S. 13-010-038

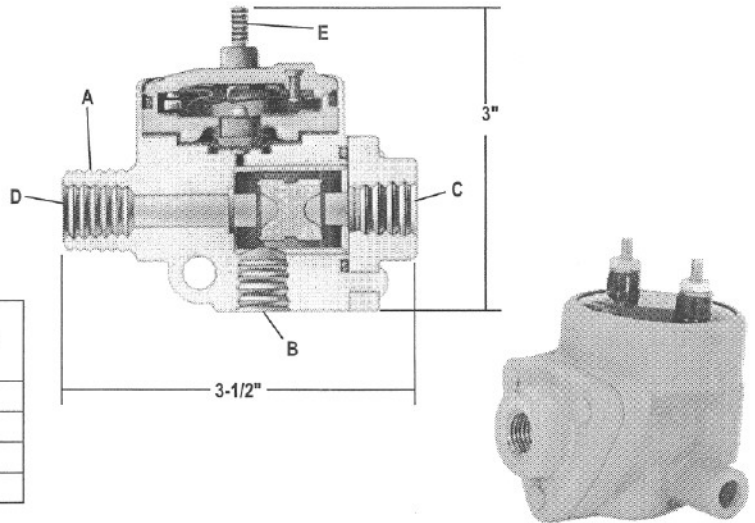
DS-1 Pc. No.	A Male P.T.	B Female P.T.	C Female P.T.	D Female P.T.	E Terminal Thread
228050	1/2"	1/4"	1/4"	—	8-32
228165	3/8"	1/4"	1/4"	—	8-32
228520	1/2"	3/8"	1/4"	—	8-32
229493	1/2"	1/4"	1/4"	1/4"	8-32



DS-2 Combined Stop Light Switch Double Check Valve

V.M.R.S. 13-010-038

DS-2 Pc. No.	A Male P.T.	B Female P.T.	C Female P.T.	D Female P.T.	E Terminal Thread
104563	3/8"	3/8"	1/4"	—	8-32
286452	3/8"	3/8"	3/8"	—	8-32
286453	3/8"	3/8"	3/8"	—	10-32
286704	—	3/8"	3/8"	3/8"	10-32

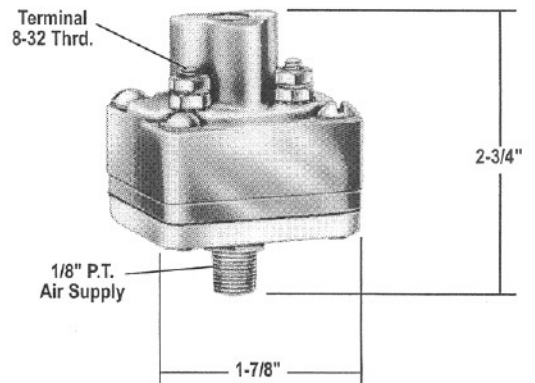


TE-1 Trailer Emergency Stop Light Switch

V.M.R.S. 34-002-008

TE-1 Pc. No. 228477

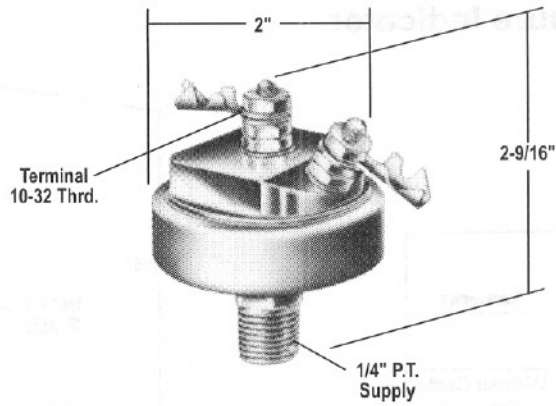
Circuit between terminals
to be closed from 60 PSI
to 0 PSI



SL-3 Stop Light Switch

V.M.R.S. 34-002-008

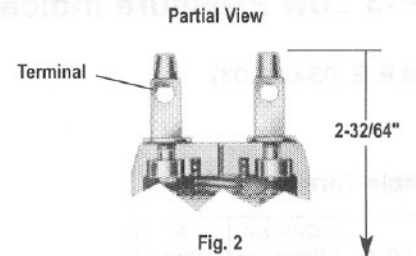
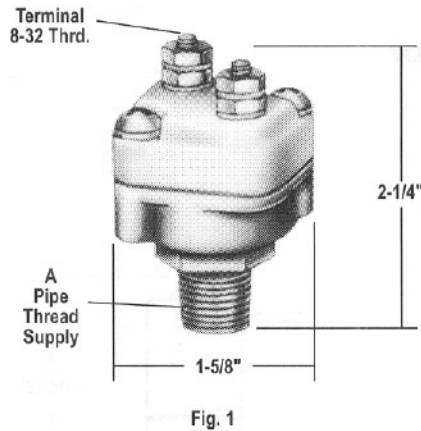
SL-3
Pc. No.
226262



SL-4 Stop Light Switch

V.M.R.S. 34-002-008

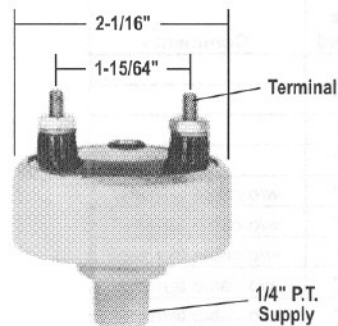
SL-3 Pc. No.	A Pipe Thread	Fig. No.
228600	1/4"	1
228687	3/8"	1
228688	1/4"	2



SL-5 Stop Light Switch

V.M.R.S. 34-002-008

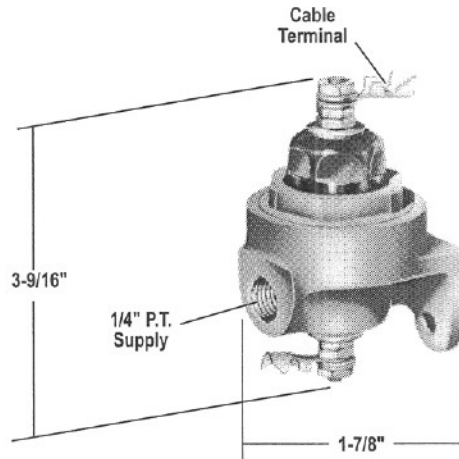
SL-5 Pc. No.	Terminal Thread Size
286392	8-32
286404	10-32



LP-2 Low Pressure Indicator

V.M.R.S. 03-001-037

LP-2 Pc. No.	Cut-Out Pressure P.S.I.	Remarks
223578	60 + 5 - 0	
224044	70 ± 6	Without Cable Terminal
288408	60 ± 6	Weatherproof



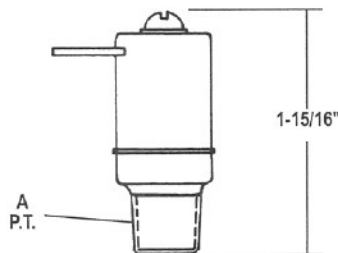
LP-3 Low Pressure Indicator

V.M.R.S. 03-001-037

Single Terminal

LP-3 Pc. No.	Cut-Out Pressure P.S.I.	A Pipe Thread
*104246	66 ± 6	1/4"
279416	60 ± 6	1/4"
279472	75 ± 6	1/4"
280530	70 ± 6	1/4"
289397	75 ± 6	1/8"

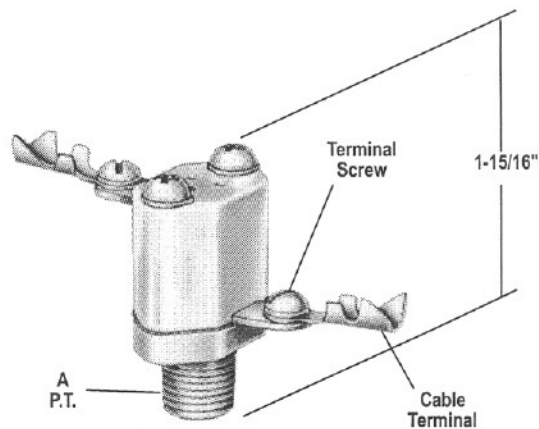
*Push on terminal



Double Terminal

LP-3 Pc. No.	Cut-Out Pressure P.S.I.	A Pipe Thread	Comments
228750	60 ± 6	1/4"	
**275083	-	1/4"	
276599	30 ± 3	1/4"	
277155	50 ± 5	1/4"	
*280743	60 ± 6	1/4"	w/o cable terminal
284793	80 ± 6	1/4"	w/o cable terminal
284833	70 ± 6	1/4"	w/o cable terminal
283029	60 ± 6	1/4"	w/o cable terminal
288522	66 ± 6	1/4"	w/o cable terminal

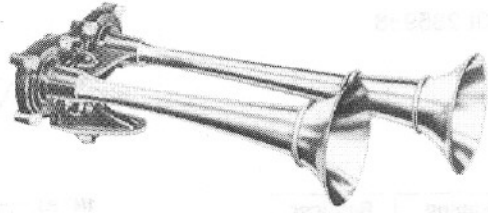
**Pc. No. 275083 has a cut-in pressure of 75 ± 6 PSI



Air Horn Kits

- Kits Include Horn Valve, Tubing & Fittings

Air Horn Kits	Application Description
207945	Includes Hand Operated Horn Valve 228013
207946	Includes Foot Operated Horn Valve 228672

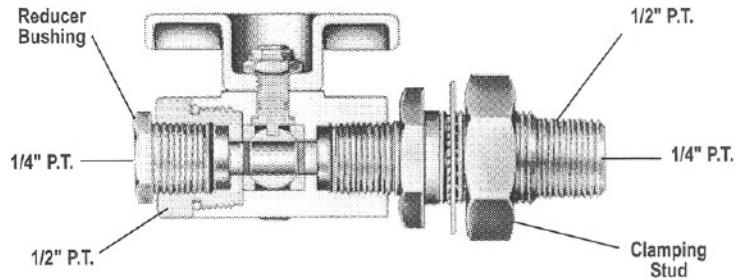


Ahead of the Curve ... with Bendix Air Brake Training

- 25-4 Day Air Brake Training Courses in four locations across the U.S. each year.
- Regional Training on site with 6 mobile training units stationed across the U.S. & Canada
- Audio Visual Training programs available
- Service literature including manuals, wall charts, and handbooks

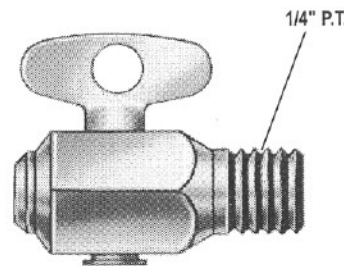
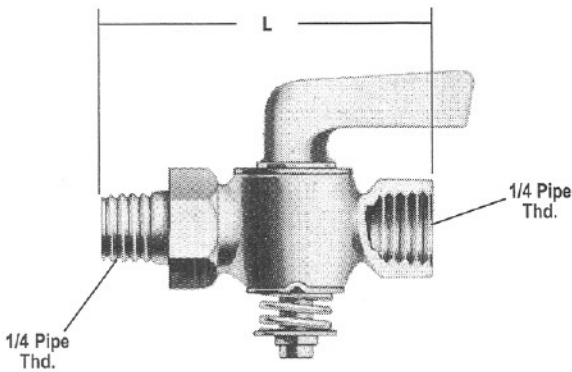
C-5 Cut-Out Cocks

• Maintenance Kit 285938

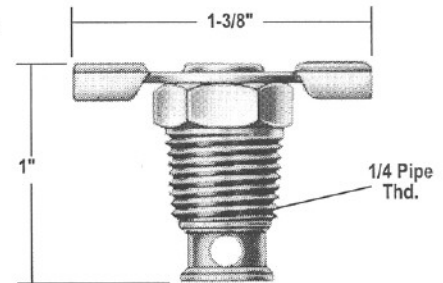


C-5 Pc. No.	Clamping Stud Pc. No.	Reducer Bushing Pc. No.
285172	NONE	NONE
285697	205730	212741

Drain Cocks



Pc. No. 103385



Pc. No. 221121

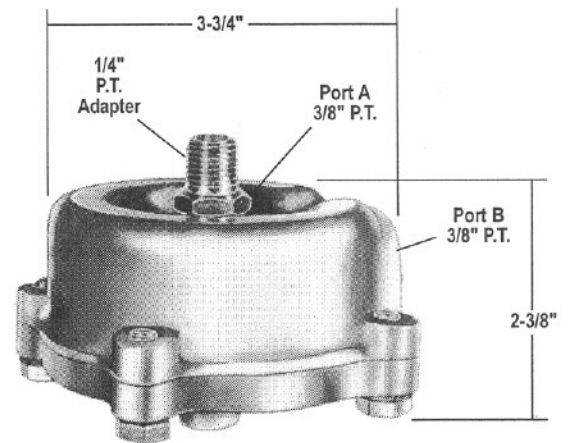
Pc. No.	'L' Length	Comments
220332	1-7/8"	Closed as shown
226338	1-7/8"	Open as shown
276068	2-3/8"	Closed as shown

DV-2 Automatic Reservoir Drain Valve

• Available Remanufactured Exchange
 • Maintenance Kit 282134

V.M.R.S. 13-010-007

Reman. Exch. Pc. No.	Service Pc. No.	Port A		Port B	
		Adapter Pc. No.	Pipe Plug Pc. No.	Adapter Pc. No.	Pipe Plug Pc. No.
281923X	281923	293248	—	—	233057
281924X	281924	—	233057	293248	—
*284412X	*284412	293248	—	—	233057
*284795X	*284795	—	233057	293248	—



*With Heater

Copper Tubing and Tubing Clamps

V.M.R.S. 13-010-053

Tubing Outside Diameter	Tubing Length	Carton of Coiled Copper Tubing Pc. No.
1/4"	25 Ft.	279567
1/4"	50 Ft.	279568
5/16"	25 Ft.	279569
5/16"	50 Ft.	279570
3/8"	25 Ft.	279571
3/8"	50 Ft.	279572
1/2"	25 Ft.	279573
1/2"	50 Ft.	279574
5/8"	25 Ft.	279575
3/4"	25 Ft.	279576

All tubing above conforms with SAE Spec. J844.

For Tubing O.D. Size	Tubing Clamp (Rubber Covered) Pc. No.
1/4"	232821
5/16"	232822
3/8"	232823
1/2"	232824
5/8"	232825
3/4"	232826
1"	232827

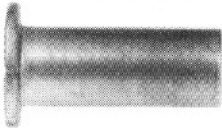
SAE Standard J844B Type 3 Nylon Tubing

V.M.R.S. 13-010-003

O.D. (Inches)	Wall Thickness (Inches)	Length Feet	Tubing Color	Nylon Tubing Pc. No.
1/8	.023	100	Black	249094
1/8	.023	1000	Black	112429
1/4	.040	100	Black	246113
1/4	.040	250	Black	246114
1/4	.040	100	Red	248441
1/4	.040	100	Yellow	248442
1/4	.040	100	Green	248443
1/4	.040	1000	Black	291995
5/16	.046	100	Black	249095
3/8	.062	100	Black	246115
3/8	.062	250	Black	246116
3/8	.062	100	Red	248444
3/8	.062	100	Yellow	248445
3/8	.062	100	Green	248446
3/8	.062	100	Orange	248447
3/8	.062	500	Black	291996
1/2	.062	100	Black	246117
1/2	.062	250	Black	246118
1/2	.062	100	Red	248448
1/2	.062	100	Green	248449
1/2	.062	100	Orange	248450
1/2	.062	500	Black	291997
5/8	.092	100	Black	247606
3/4	.092	100	Black	247607
3/4	.092	100	Green	248451

Each carton of Nylon Tubing is designed for self dispensing. Adaptable for use with Standard Air Brake Fittings with the use of inserts.

Tube Inserts for Nylon Tubing



Can be used with standard Bendix tubing fittings.

For Tube Size O.D.	Pc. No.
1/4"	246088
5/16"	292802
3/8"	246089
1/2"	246090
5/8"	247608
3/4"	246091

Standard Nuts and Sleeves



Nut

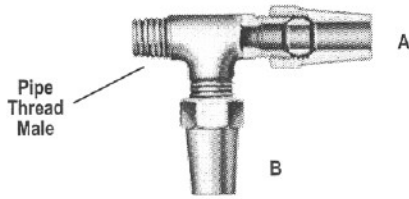


Sleeve

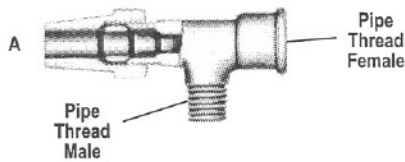
The tubing O.D. size determines the nut and sleeve used.

For Tubing Size O.D.	Nut Pc. No.	Sleeve Pc. No.
1/4"	200455	200457
5/16"	200363	200364
3/8"	200360	200361
1/2"	203755	203754
5/8"	210613	210612
3/4"	203896	203897
1"	203899	203900

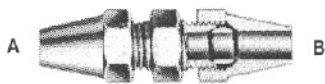
Tubing Fittings (cont.)



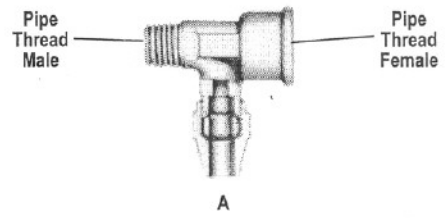
Pipe Thread Male	A Tubing O.D.	B Tubing O.D.	Tee Pc. No.
1/8"	1/4"	1/4"	221978
1/4"	3/8"	3/8"	205104
3/8"	3/8"	3/8"	217050
3/8"	3/8"	1/2"	224647
3/8"	1/2"	3/8"	215703
3/8"	1/2"	1/2"	215701
1/2"	5/8"	3/8"	222150
1/2"	5/8"	5/8"	221986
1/2"	3/8"	1/4"	224793
1/2"	1/2"	1/2"	227842



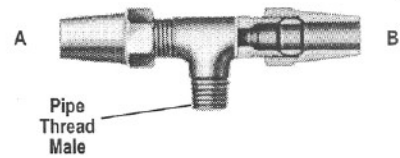
P.T. Female	P.T. Male	A Tubing O.D.	Tee Pc. No.
1/4"	1/4"	3/8"	215954
1/4"	3/8"	3/8"	224827
1/4"	3/8"	1/2"	217640
1/4"	1/2"	5/8"	224103
3/8"	3/8"	1/2"	227900
3/8"	3/8"	5/8"	228377
3/8"	1/2"	1/2"	275284



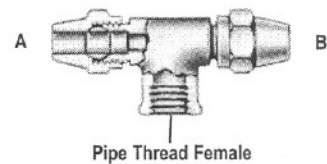
A Tubing O.D.	B Tubing O.D.	Union Pc. No.
1/4"	1/4"	205514
3/8"	3/8"	205134
1/2"	1/2"	215710
5/8"	5/8"	221826
3/4"	3/4"	216523
1"	1"	216339



P.T. Female	P.T. Male	A Tubing O.D.	Tee Pc. No.
1/4"	1/4"	1/4"	220478
1/4"	1/4"	3/8"	217619
1/4"	3/8"	1/2"	224799
1/2"	3/8"	3/8"	223664

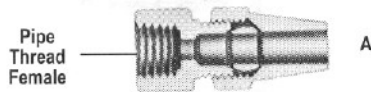


P.T. Male	A Tubing O.D.	B Tubing O.D.	Tee Pc. No.
1/8"	1/4"	1/4"	205182
1/8"	3/8"	3/8"	217051
1/4"	1/4"	3/8"	225838
1/4"	3/8"	3/8"	205103
1/4"	5/8"	5/8"	223994
3/8"	3/8"	3/8"	205177
3/8"	1/2"	3/8"	224645
3/8"	1/2"	1/2"	215700
1/2"	1/2"	1/2"	224721
1/2"	5/8"	5/8"	221982
1/2"	3/8"	5/8"	223403

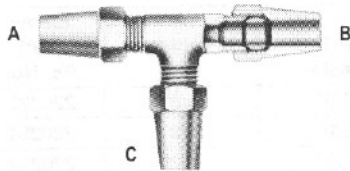


P.T. Female	A Tubing O.D.	B Tubing O.D.	Tee Pc. No.
1/4"	3/8"	3/8"	224681

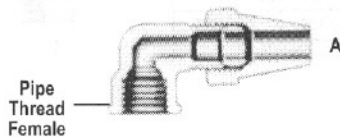
Tubing Fittings (cont.)



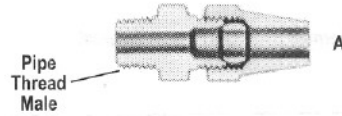
P.T. Female	A Tubing O.D.	Connector Pc. No.
1/8"	1/4"	205101
1/8"	3/8"	205418
1/4"	3/8"	205826
3/8"	3/8"	205827
3/8"	1/2"	215711
1/2"	1/2"	225561
1/2"	5/8"	221987
1/2"	3/4"	229738



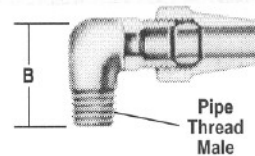
A Tubing O.D.	B Tubing O.D.	C Tubing O.D.	Tee Pc. No.
1/4"	1/4"	1/4"	221979
3/8"	3/8"	1/4"	225760
3/8"	3/8"	3/8"	205106
3/8"	3/8"	1/2"	217663
3/8"	1/4"	3/8"	226196
1/2"	1/2"	3/8"	225836
1/2"	1/2"	1/2"	215712
5/8"	5/8"	3/8"	222064
5/8"	5/8"	5/8"	221984



P.T. Female	A Tubing O.D.	Elbow Pc. No.
1/8"	1/4"	221977
1/8"	3/8"	205426
1/4"	3/8"	205135
3/8"	3/8"	205830
1/2"	5/8"	221983



P.T. Male	A Tubing O.D.	Connector Pc. No.
1/8"	1/4"	205127
1/8"	3/8"	205509
1/4"	1/4"	205183
1/4"	5/16"	205054
1/4"	3/8"	205053
1/4"	1/2"	217690
3/8"	3/8"	205824
3/8"	1/2"	217525
3/8"	5/8"	216685
1/2"	3/8"	222063
1/2"	1/2"	217691
1/2"	5/8"	216684
1/2"	3/4"	217621
3/4"	1/2"	217689
3/4"	5/8"	221985
3/4"	3/4"	215762
3/4"	1"	225786
1"	1"	215763

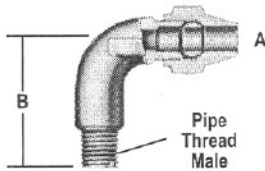


P.T. Male	A Tubing O.D.	B Height to Tubing Center	Elbow Pc. No.
1/8"	1/4"	3/4"	205539
1/8"	3/8"	31/32"	205522
1/4"	1/4"	15/16"	224318
1/4"	3/8"	31/32"	205102
1/4"	3/8"	1-7/16"	222858
1/4"	1/2"	1-1/8"	220475
3/8"	3/8"	15/16"	205829
3/8"	1/2"	1-1/8"	215709
3/8"	5/8"	1-5/32"	221993
1/2"	3/8"	1-5/16"	222062
1/2"	1/2"	1-5/16"	216310
1/2"	5/8"	1-3/8"	221825
3/4"	1/2"	1-5/16"	221536
3/4"	5/8"	1-5/16"	229108
3/4"	3/4"	1-3/8"	216520

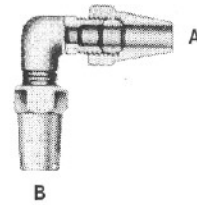
Tubing Fittings (cont.)



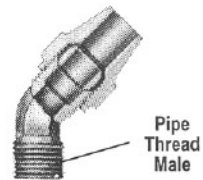
REDUCING BUSHING PC. NO.	PIPE THREAD	
	A	B
BRASS		
212862	3/8"	1/4"
230130	1/2"	1/4"
230808	1/2"	3/8"
STEEL		
212349	1/2"	3/8"
234680	3/4"	1/2"



P.T. Male	A Tubing O.D.	B Height to Tubing Center	Elbow Pc. No.
1/8"	3/8"	1-7/8"	215953
1/2"	3/4"	1-3/8"	217504



A Tubing O.D.	B Tubing O.D.	Elbow Pc. No.
1/4"	1/4"	224317
3/8"	3/8"	205113
1/2"	1/2"	222359
5/8"	5/8"	222360

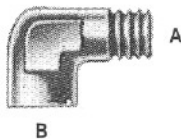


P.T. Male	A Tubing O.D.	Elbow (45°) Pc. No.
1/4"	3/8"	220722
3/8"	3/8"	220291
3/8"	1/2"	220292
1/2"	3/8"	225650
1/2"	1/2"	227162
1/2"	5/8"	222065

Miscellaneous Fittings

V.M.R.S. 13-009-016

P.T.		STREET ELBOW 90° Pc. No.
A	B	
BRASS		
1/8"	1/8"	233567
1/4"	1/4"	233568
3/8"	3/8"	233569
1/2"	1/2"	233570
3/4"	3/4"	233571



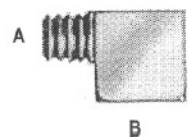
P.T.		STREET ELBOW 45° Pc. No.
A	B	
BRASS		
1/4"	1/4"	233572

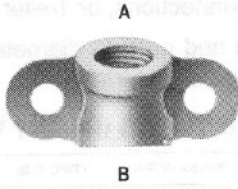


P.T.		PIPE ELBOW 90° Pc. No.
A	B	
BRASS		
1/4"	1/4"	202915

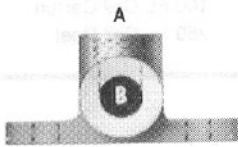


P.T.		REDUCING ELBOW 90° Pc. No.
A	B	
BRASS		
1/8"	1/4"	232871

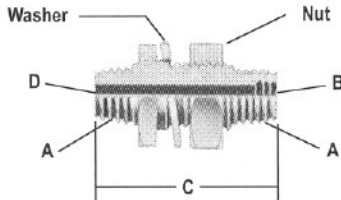


Miscellaneous Fittings (cont.)


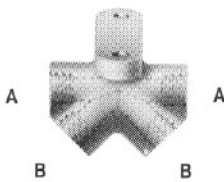
A Pipe Tap	B Pipe Tap	Anchor Elbow Pc. No.
1/4"	1/4"	201030
3/8"	3/8"	212765



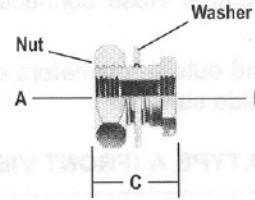
A Pipe Tap	B Pipe Tap	Anchor Elbow Pc. No.
1/4"	1/4"	201010
3/8"	3/8"	233420



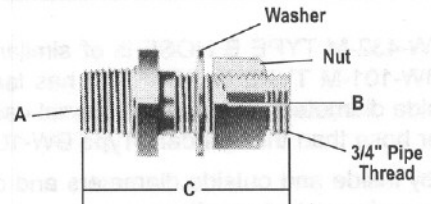
A P.T.	B Pipe Tap	C Length	D Pipe Tap	Clamping Stud Pc. No.
1/2"	1/4"	2-15/16"	-	205730
1/2"	1/4"	3-15/16"	-	223464
1/2"	1/4"	2-15/16"	1/4"	228146



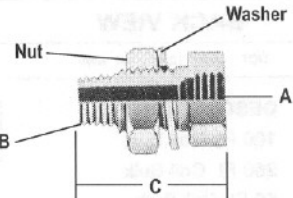
A Pipe Tap	B Pipe Tap	Manifold Fitting Pc. No.
3/8"	1/4"	210398



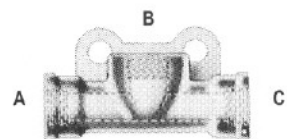
A Pipe Tap	B Pipe Tap	C Length	Anchor Coupling Pc. No.
1/8"	1/8"	1-17/32"	225740
1/4"	1/4"	31/32"	221204
1/4"	1/4"	1-17/32"	205465
3/8"	3/8"	1-5/16"	217709



A P.T.	B Pipe Tap	C Length	Clamping Stud Pc. No.
1/2"	1/4"	1/8"	205498
1/2"	1/4"	2-1/2"	205499



A Pipe Tap	B P.T.	C Length	Anchor Coupling Pc. No.
3/8"	3/8"	1-7/8"	215672

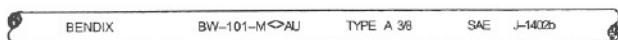


A Pipe Tap	B Pipe Tap	C Pipe Tap	Anchor Tee Pc. No.
1/4"	3/8"	1/4"	231379
3/8"	3/8"	3/8"	236056
3/8"	1/2"	3/8"	239727

TYPE BW-101-M TYPE A HOSE is standard for all flexible connections in the air brake system where conditions do not require larger hose. They are most commonly used for Brake Chamber Hose connections, or Trailer Hose connections.

Identify by inside and outside diameters and continuous marking on the outside surface.

3/8" I.D. TYPE A (FRONT VIEW)



BACK VIEW



BW-101-M HOSE is available as follows:

PC. NO.	DESCRIPTION
285496	50 Ft. Coil Carton

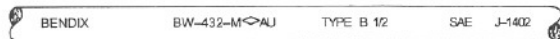
ORDER BY
PIECE NUMBER

TYPE BW-432-M TYPE B HOSE is of similar construction to BW-101-M TYPE B HOSE but has larger inside and outside diameters. It is used in special cases requiring larger hose than the standard Type BW-101-M.

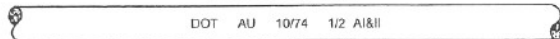
Identify by inside and outside diameters and continuous markings on the outside surface.

BW-127-M HOSE is available in a maximum length of 50 Ft. It is supplied as follows:

1/2" I.D. TYPE B (FRONT VIEW)



BACK VIEW



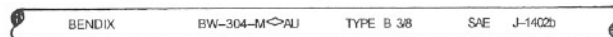
PC. NO.	DESCRIPTION
5005978	100 Ft. Coil Bulk
5005979	250 Ft. Coil Bulk
5006705	50 Ft. Coil Bulk

ORDER BY
PIECE NUMBER

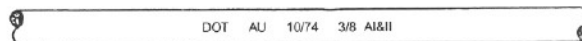
BW-304-M TYPE B HOSE is standard for all flexible connections in the air brake system where conditions do not require larger hose. It is most commonly used for Brake Chamber Hose connections, or Trailer Hose connections.

Identify by inside and outside diameters and continuous markings on the outside surface.

3/8" I.D. TYPE B (FRONT VIEW)



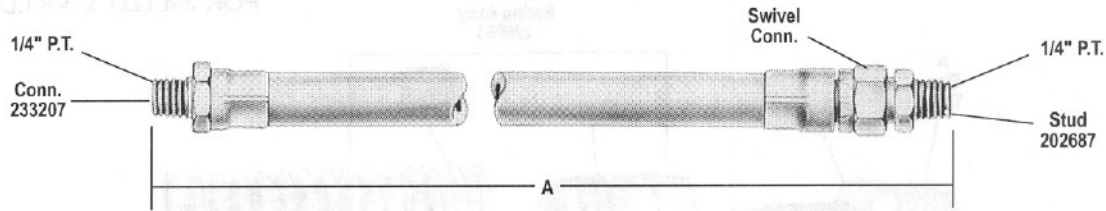
BACK VIEW



BW-304-M HOSE is available as follows:

PC. NO.	DESCRIPTION
277546	50 Ft. Coil Carton
285497	100 Ft. Coil Carton
285498	250 Ft. Coil Reel

ORDER BY
PIECE NUMBER



BW-304-M Type B 3/8" I.D. x 3/4" O.D.

3/8" I.D. TYPE B HOSE

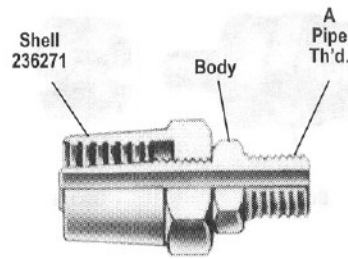
A OVERALL LENGTH	HOSE ASSEMBLY PC. NO.	A OVERALL LENGTH	HOSE ASSEMBLY PC. NO.	A OVERALL LENGTH	HOSE ASSEMBLY PC. NO.	A OVERALL LENGTH	HOSE ASSEMBLY PC. NO.
15-1/8	228533	24-7/8	228544	32	228552	45-1/8	228563
18-5/8	228535	26-7/8	228547	34-3/8	228554	50-1/8	228565
20-3/8	228539	27-5/8	228548	36-1/8	228555	54-1/8	228566
22-58/8	228541	29-1/8	228549	38-1/8	228557	68-5/8	228567
24-1/8	228472	30-1/8	228550	42-5/8	228561		

FOR 3/4 O.D. x 3/8 I.D. HOSE

Hose Connector

For BW-101-M & BW-304-M Hose

A P.T.	Hose Connector Pc. No.	Body Pc. No.
1/4"	226134	236268
3/8"	226135	236269
1/2"	226136	236270

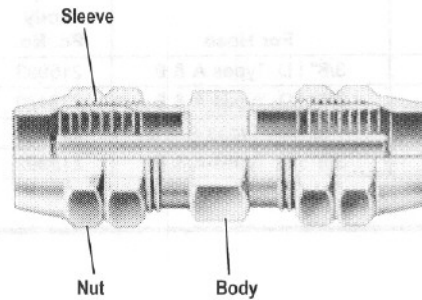


FOR 3/4 O.D. x 3/8 I.D. HOSE

Hose Union

For BW-101-M & BW-304-M Hose

Hose Union Pc. No.	Body Pc. No.	Sleeve 2 Required Pc. No.	Nut 2 Required Pc. No.
216678	216694	203610	203624

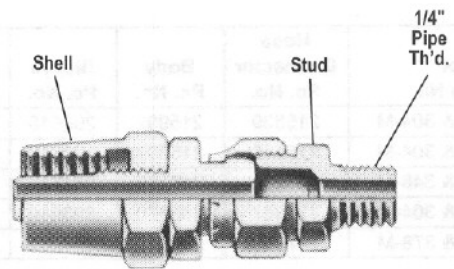


FOR 3/4 O.D. x 3/8 I.D. HOSE

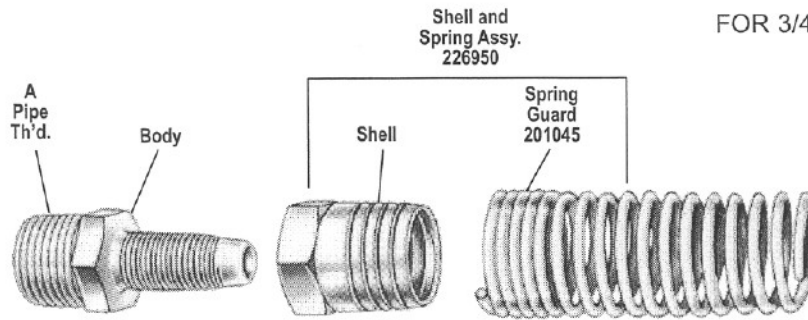
Hose Connector (Swivel)

For BW-101-M & BW-304-M Hose

Hose Connector (Swivel) Pc. No.	Stud Pc. No.	Shell Pc. No.
226293	202687	236271

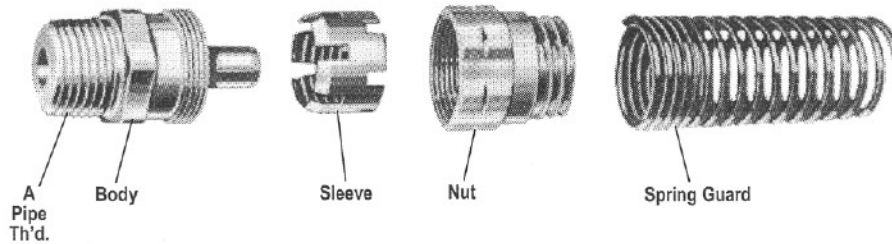


FOR 3/4 O.D. x 3/8 I.D. HOSE



Hose Connector with Spring Guard For BW-101-M & BW-304-M Hose

A P.T.	Hose Connector with Spring Guard Pc. No.	Body Pc. No.
1/4"	226137	236268
3/8"	226138	236269
1/2"	226139	236270



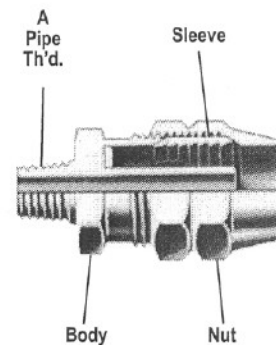
Hose Connector with Spring Guard

A P.T.	For Hose	Body Pc. No.	Sleeve Pc. No.	Nut Pc. No.	Spring Guard Pc. No.	Hose Connector with Spring Pc. No.
1/4"	3/8" I.D. Types A & B	215993	203610	203613	201045	215536
3/8"	3/8" I.D. Types A & B	233470	203610	203613	201045	223907
3/8"	7/16" I.D. Types A & B	216173	204741	204742	204743	216172
1/2"	3/8" I.D. Types A & B	215992	203610	203613	201045	215535

Hose Fittings

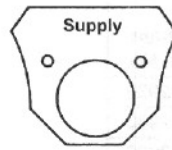
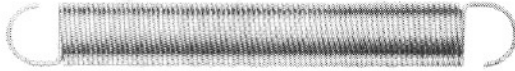
Hose Connector

A P.T.	For Hose No.	Hose Connector Pc. No.	Body Pc. No.	Sleeve Pc. No.	Nut Pc. No.
1/2"	BW-101 & 304-M	215539	215992	203610	203624
1/4"	BW-101 & 304-M	215540	215993	203610	203624
3/8"	BW-127 & 348-M	217604	216173	204741	212318
3/8"	BW-101 & 304-M	224887	233470	203610	203624
1/4"	BW-379 & 378-M	277810	243012	243014	243013

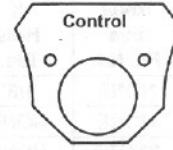


Hose Suspension Spring

Description	Spring Pc. No.
3/4" Dia.-Std.	200661
1" Dia.-H.D.	249393
1-1/16" Dia.-H.D.	249394



Connection Tag
For 'Supply' Hose Line
Pc. No. 201499



Connection Tag
For 'Control' Hose Line
Pc. No. 201500

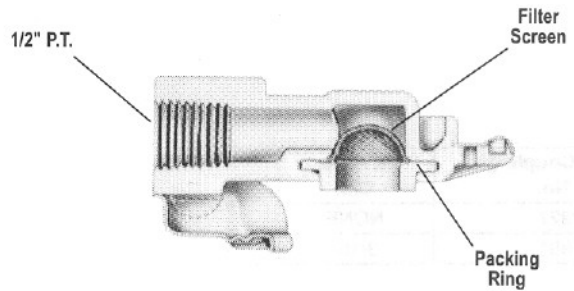
Hose Couplings

V.M.R.S. 13-010-030
13-010-031

Standard Die Cast

HC-1 Pc. No.	Filter Screen Pc. No.
275150	NONE
*275824	NONE
278698	241839

* With 1/2" Nipple Pc. No. 212324



Filter Screen

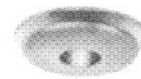


Pc. No. 241839
Fits All Couplings

Packing Rings



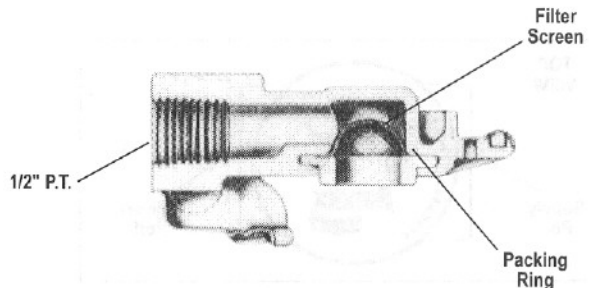
Pc. No. 213630
Standard



Pc. No. 248579
Double Lip
Fits All Couplings

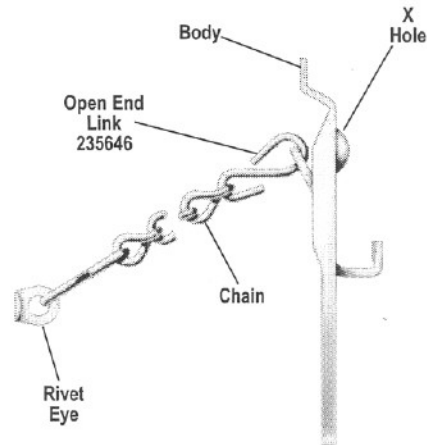
TRU-CUPL Hose Couplings

Hose Coupling Pc. No.	Filter Screen Pc. No.	Coupling Type
278850	NONE	CONTROL
278851	NONE	SUPPLY
278852	241839	CONTROL
278853	241839	SUPPLY

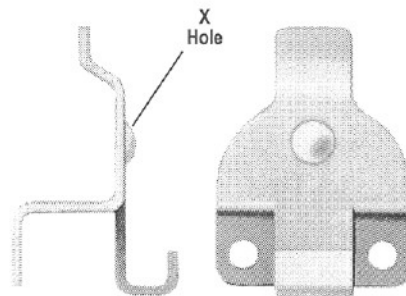


Dummy Couplings

Dummy Coupling with Chain Pc. No.	Rivet Eye Pc. No.	X Hole Dia.	Chain Pc. No.
220635	NONE	1/8"	212930
220636	NONE	NONE	212930
224810	234393	NONE	212930
277994	NONE	NONE	212930



Dummy Coupling Pc. No.	X Hole Dia.
212227	NONE
291991	3/16"



Air Dryers 08

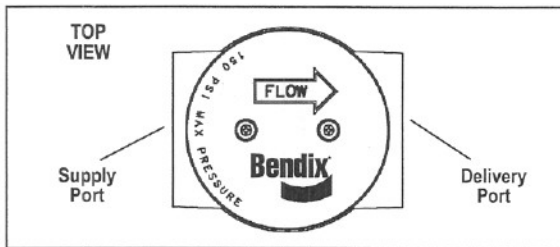
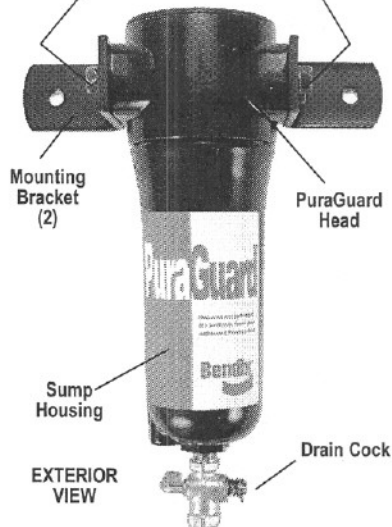
PuraGuard

PuraGuard™

Service Pc. No.
800691

- Maintenance Kit5006788
- Rebuild Kit.....5006789
- Replacement Drain Cock226338

One Supply & one Delivery Port
(see arrow symbol on PuraGuard top cover for air flow)

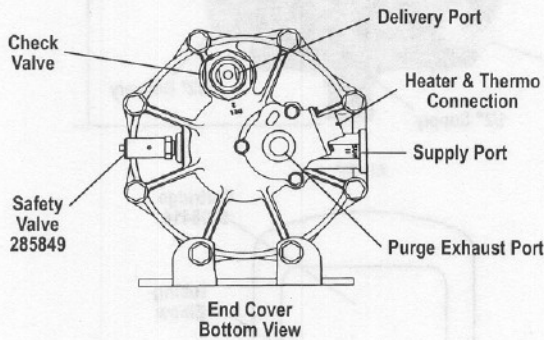


AD-9 Air Dryer

- More Desiccant Works Longer
- Compact Size Saves Space
- Remanufactured Exchange

V.M.R.S. 13-010-033

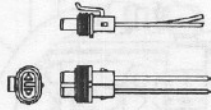
Part No.	Description
107796	Service New – Desiccant Cartridge
107794X	Reman. Exchg. – Desiccant Cartridge
109579	24 Volt Heater & Thermo.
109578	12 Volt Heater & Thermo.
107695	Bracket Kit
5005037	Hard Seat Purge Valve Kit
5005893	Soft Seat Purge Valve Kit



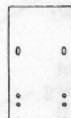
Detail Parts or assemblies not displaying a part number and not contained in a kit ARE NOT AVAILABLE



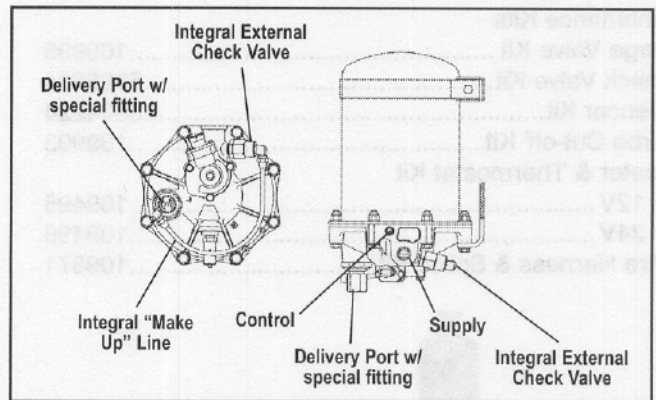
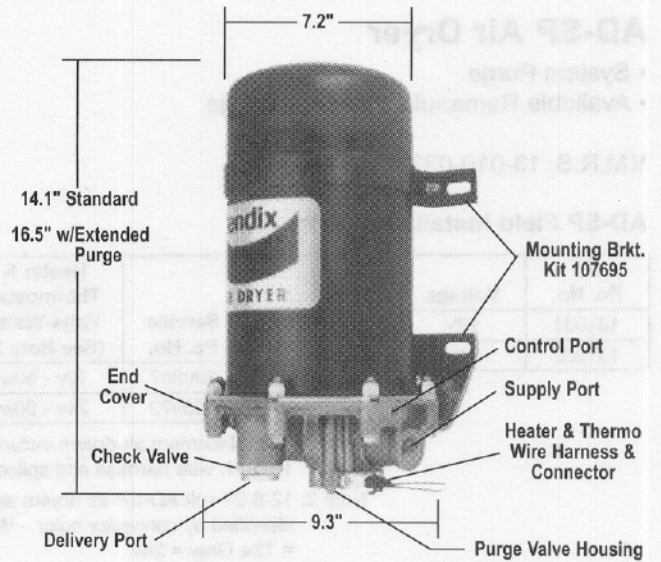
Exhaust Cover
PC. NO. 112399



Wiring Harness & Connector
PC. NO. 109869



Universal Mounting Plate
PC. NO. 113209



AD-9 Drop In

AD-9 Service Part No.	AD-9 Reman. Exch. Part. No.	End Cover Information and Detail							Comments
		End Cover Assy. Compl. New	Supply & Delivery Port Size	Check Valve Assy.	Purge Valve Assy.			Heater & Thermo Kit	
					Heater Voltage (75 Watt)	Purge Vlv. Assy. Compl. w/Heater New	Purge Vlv. Assy. Compl. w/Heater Reman.		
065224	–	065229	.75" PT	107799	24	5004338	5004342	109579	
065225	109685X	065231	.50" PT	107800	12	800405	5004341	109578	
065226	109687X	065230	.75" PT	107799	12	800405	5004341	109578	
065227	109688X	065229	.75" PT	107799	24	5004338	5004342	109579	Extended Purge
065228	–	065230	.75" PT	107799	12	800405	5004341	109578	Extended Purge
065243	–	065231	.50" PT	107800	12	800405	5004341	109578	Extended Purge
800514	–	065454	.50" PT	107800	24	5004338	5004342	109579	Extended Purge
065499	–	065498	.50" PT	107800	12	5004339	–	109578	Discharge Line Unloader Model
065605	–	065605	.50" PT	107800	24	5004340	–	109579	Discharge Line Unloader Model
065649	–	065653	.75" PT	107799	24	5004338	5004342	109579	Soft Seat
065650	109689X	065654	.50" PT	107800	12	800405	5004341	109578	Soft Seat
065651	109690X	065655	.75" PT	107799	12	800405	5004341	109578	Soft Seat
065652	109691X	065653	.75" PT	107799	24	5004338	5004342	109579	Soft Seat – Extended Purge
065647	–	–	.50" PT	107800	12	800405	5004341	109578	Drop In

AD-SP Air Dryer

- System Purge
- Available Remanufactured Exchange

V.M.R.S. 13-010-033

AD-SP Field Installation Kits

Kit Pc. No.	Voltage
131031	12V
131032	24V

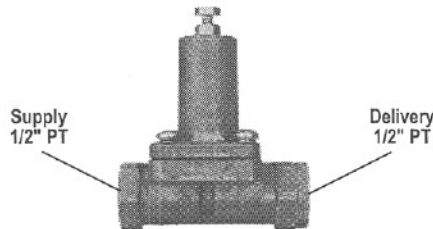
Reman. Pc. No.	Service Pc. No.	Heater & Thermostat Volts-Watts (See Note 2)
109991X	800887	12v - 90w
109992X	800972	24v - 90w

Note 1: All replacement air dryers include 109871, wire harness and splice kit.

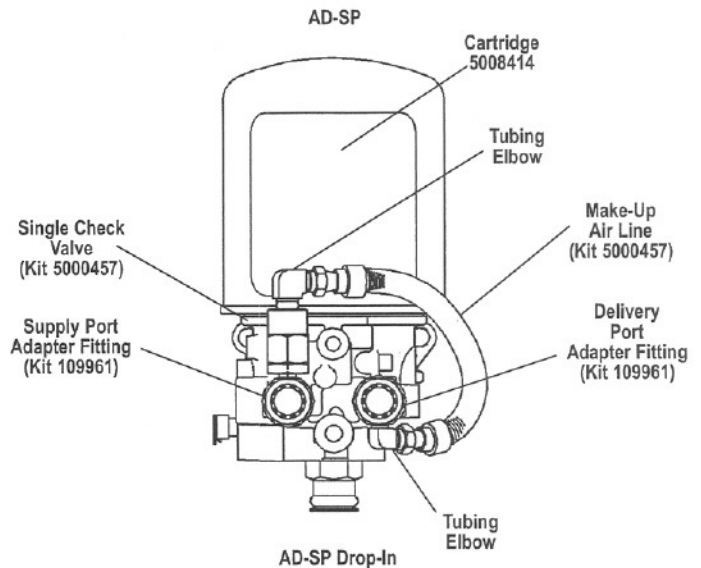
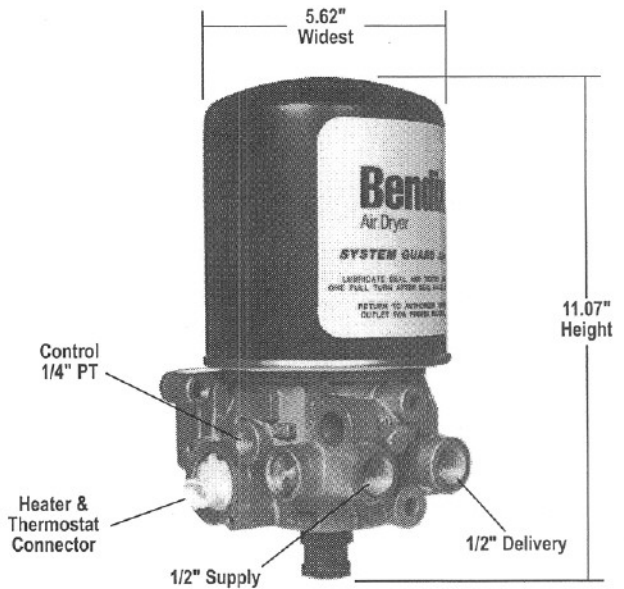
Note 2: 12 & 24 volt AD-SP air dryers are identified by connector color – White = 12v, Gray = 24v

Maintenance Kits

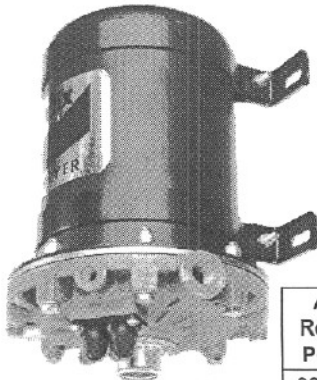
Purge Valve Kit	109995
Check Valve Kit.....	5005624
Silencer Kit.....	5004224
Turbo Cut-off Kit	109993
Heater & Thermostat Kit	
• 12V	109495
• 24V	109496
Wire Harness & Splice Kit	109871



SC-PR
Single Check Protection Valve – must be used in conjunction with the AD-SP Air Dryer
065677 - Service New
5000148X - Reman



AD-4 Air Dryer



Service & Reman. AD-4 Assys.

AD-4 Reman. Pc. No.	Service Pc. No.	AD-9 Reman. Pc. No.	Heater Volts	Supply Ports	Comments
065041X	065041	109685X	12	1/2 P.T.	
065102X	065102	065102X	12	3/4 P.T.	Extended Purge

Remanufactured End Covers

065044X | 12V. 1/2" Ports

Pc. No.	Description
102657	Thermostat Kit (single term.)
103817	Major Kit
103818	Purge Valve Kit
103879	Seal Kit
103980	End Cover Kit
103981	Desiccant Cartridge Kit
103982	Thermostat Kit (double term.)
104027	Mounting Bracket Kit
104358X	Reman. Desiccant Cartridge
288918	Thermostat Cover Kit (single)

AD-IP Air Dryer

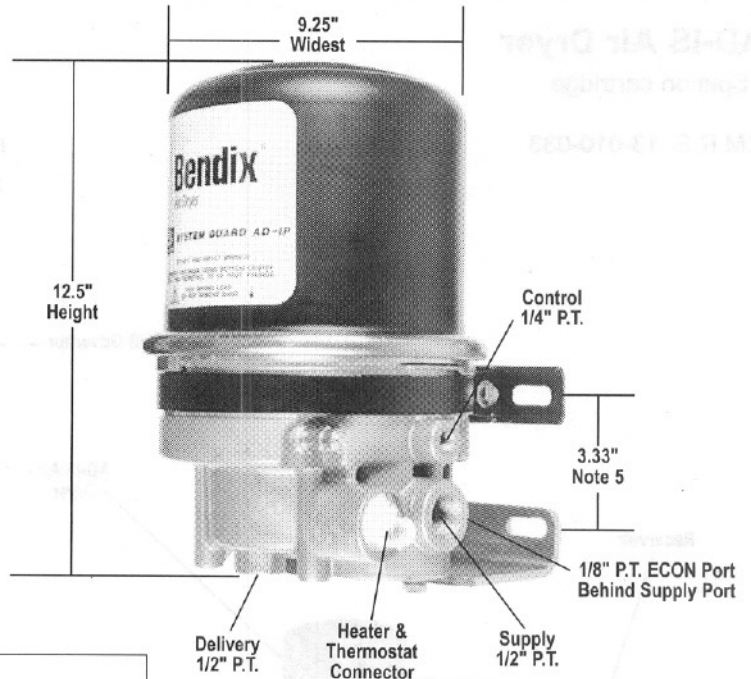
• Integral Purge Air Dryer

V.M.R.S. 13-010-033

Maintenance Kits

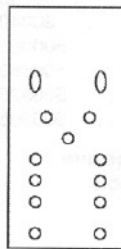
Desiccant Cartridge	
Service New	065624
Remanufactured	109493X
Service Purge Valve	800404
Cartridge Bolt Kit	109498
Delivery Check Vlv. Kit	109494
Heater & Thermo. Kit	
12 Volt	109495
24 Volt	109496
Wire Harness & Splice Kit	109871
Mounting Bracket Kit	5001247
Purge Valve Maint. Kit	5003547
*Extended Purge Kit	5005309

*For extended purge air dryers only

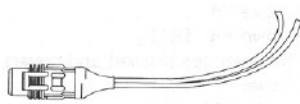


Service Pc. No.	Reman. Pc. No.	Supply Port	Delivery Port	Heater & Thermo. Volts-Watt	Comments
065612	109477X	1/2" PT	1/2" PT	12v - 90w	Notes 3, 4, 6
065613	109478X	1/2" PT	1/2" PT	24v - 90w	Notes 3, 4, 6
065693	109503X	1/2" PT	1/2" PT	12v - 90w	Notes 1, 3, 4
800089	5000985X	1/2" PT	1/2" PT	12v - 90w	Notes 2, 3, 4, 6
800618	5006234X	1/2" PT	1/2" PT	24v - 90w	Notes 3, 4, 6, 7
800576	5005556X	1/2" PT	1/2" PT	12v - 90w	Notes 3, 4, 6, 7
800577	5005567X	1/2" PT	1/2" PT	12v - 90w	Notes 2, 7

- Note 1 - No upper or lower mounting bracket.
- Note 2 - Has 1/8" PT ECON port (plugged). See illustration for port location.
- Note 3 - All replacement air dryers include 109871 (wire harness and splice kit).
- Note 4 - 12 & 24 volt air dryers are identified by connector color - White = 12v, Gray = 24v
- Note 5 - Center to center of slots in both brackets 5.64 inches
- Note 6 - All replacement air dryers include 5001247 (mounting bracket kit)
- Note 7 - Extended Purge



Universal Mounting Plate
Pc. No. 113209
(Can be used to mount any air dryer to vehicle)



Wire Harness Assembly
(Use Kit 109871)



Exhaust Cover 112609
(available as a separate item)



Extended Purge Kit 5005309

AD-IP Drop In

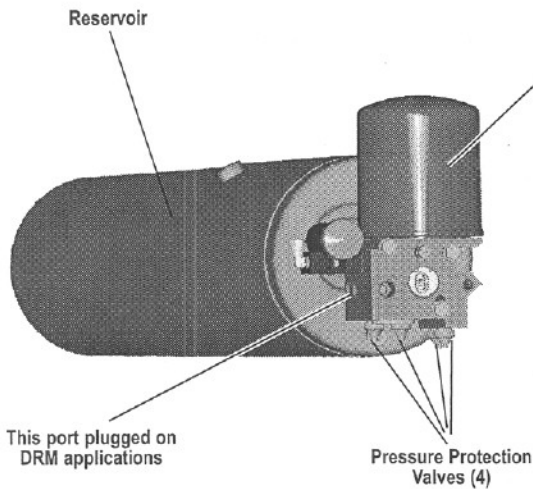
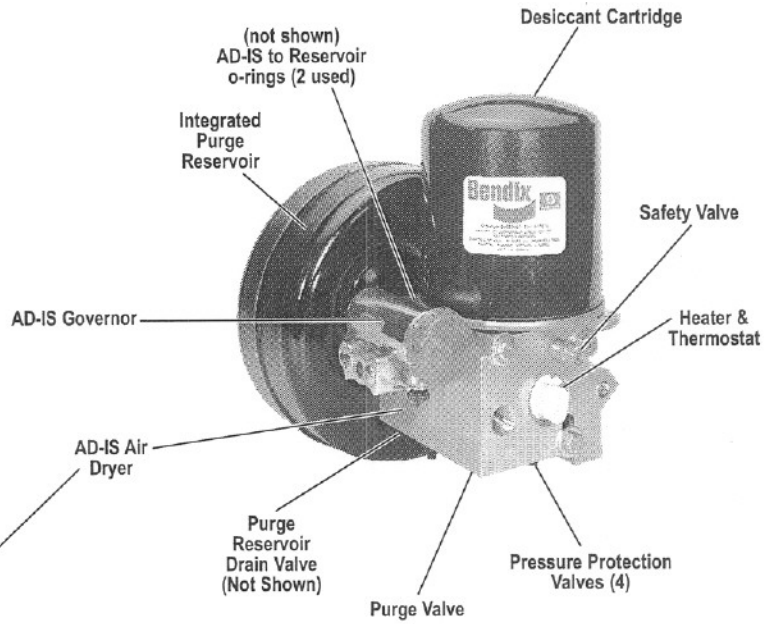
Service Pc. No.	Reman. Pc. No.	Supply Port	Delivery Port	Heater & Thermo. Volts-Watt	Comments
800067	5000709X	1/2" PT	1/2" PT	12v - 90w	Notes 1, 2
800168	5001751X	1/2" PT	1/2" PT	12v - 90w	Note 3

- Note 1 - All replacement air dryers include 109871 (wire harness and splice kit) and 5001247 (mounting bracket kit).
- Note 2 - 12 & 24 volt air dryers are identified by connector color - White = 12v, Gray = 24v
- Note 3 - Includes ECon Check Valve Kit & no Mounting Kit

AD-IS Air Dryer

• Spin on cartridge

VM.R.S. 13-010-033



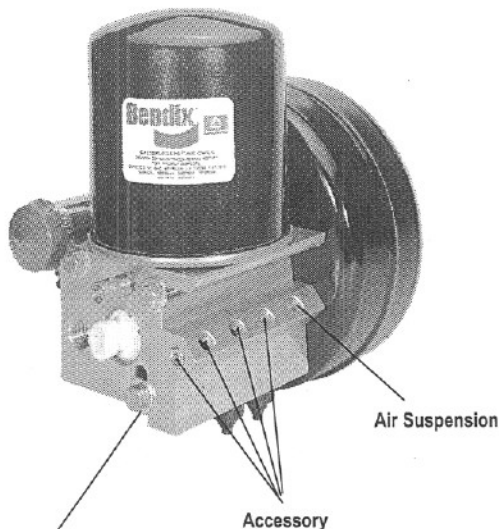
KITS AND SERVICE PARTS

AD-IS to Reservoir o-rings (2 used)	5002816
Delivery Check Valve Replacement Kit	5004052
Desiccant Cartridge Replacement	5008414
Governor Adapter	5003698
Governor Check Valve Kit	5004049
Governor Gasket	5007834
Heater & Thermostat Replacement (12 volt)	109495
Heater & Thermostat Replacement (24 volt)	109496
Mounting Bolt Kit	5009233
Protective Boots (for pressure protection valves)	5005163
Purge Valve Maintenance Kit	5003547
Safety Valve	800350
Service Purge Valve Kit	800404
Service Purge Valve Kit - DLU	5009650
Splash Shield Kit (includes bracket and cover)	5006698
Splash Shield Cover	5005266
Wire Retainer (optional for cover)	5009653

NOTE: There are no kits available for the pressure protection valves. These are not serviceable items - see warning below.

WARNING:

Do not attempt to adjust or service the Pressure Protection valves. Incorrect pressure protection valve settings can result in automatic application of vehicle spring brakes without prior warning.



Mounting Bolt and Washer - 3

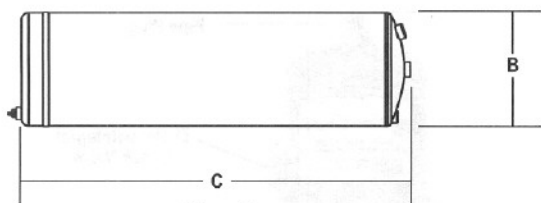


Figure 1

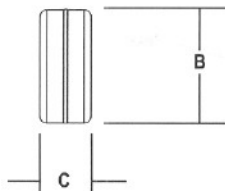


Figure 3

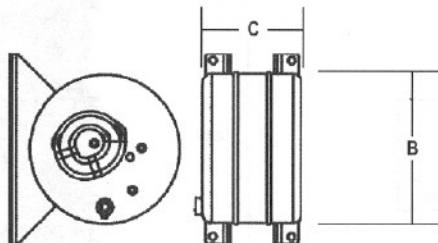


Figure 4

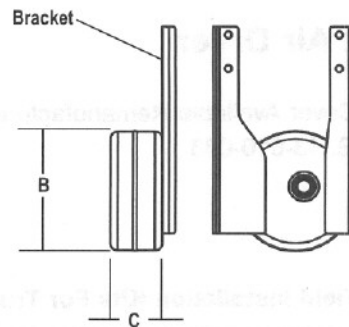


Figure 2

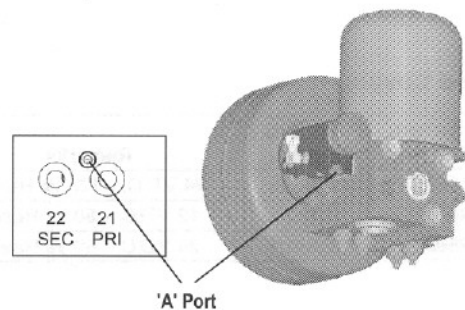
Service and Remanufactured AD-IS Air Dryers do not include DRM Reservoirs or Purge Volume Reservoirs.

Dryer Reservoir Modules

AD-IS Service Pc. No.	AD-IS Reman. Pc. No.	Reservoir Service Pc. No.	'A' Port* Plug	Suspension Port	Accessory Ports (Qty.)
800383	5004050X	5005313	without	1/4" NPT	1/4" NPT (4)
800838	5008332X	5007588	without	1/4" PTC	1/4" NPT (4)
801045	5009233X	5008939	without	1/4" NPT	1/4" NPT (4)

AD-IS Air Dryer with Purge Volume

AD-IS Service Pc. No.	AD-IS Reman. Pc. No.	'A' Port* Plug	Primary Port	Secondary Port	Accessory Ports (Qty.)
800959	5008871X	without	1/2" PTC	1/2" PTC	1/4" NPT (4)
801147	5010133X	with	1/4" NPT	1/4" NPT	1/4" NPT (4)
801164	5010211X	with	1/4" NPT	1/4" NPT	1/4" NPT (4)
801266	5010696X	with	1/4" NPT	1/4" NPT	1/4" NPT (3)
801145	5010104X	with	1/4" NPT	1/4" NPT	1/4" NPT (4)



*AD-IS Dryers with a plugged port 'A' cannot be interchanged with those that do not have a port in this location.

Reservoirs

Service Pc. No.	'B' Dia. Inches	'C' Length Inches	Compartment Number	Comments	Figure
5005313	9	53.5	2	Steel	1
5009107	9	55.5	2	Aluminum	1
5007588	9	26	3	Steel	1
5008939	9	29.8	2	Steel	1

Purge Volume

Service Pc. No.	'B' Dia. Inches	'C' Length Inches	Compartment Number	Mounting Bracket	Figure
5008781	9	3.9	1	Included	2
5009028	9	6	1	4 Hole SAE Mtg.	3
5008574	9	3.9	1	4 Hole SAE Mtg.	3
5010563	9	6	1	Included	4

PTC = Push to Connect

AD-2 Air Dryer

- End Cover Available Remanufactured Exchange V.M.R.S. 13-010-033

AD-2 Field Installation Kits For Trucks

Reman Pc. No.	New AD-2 Pc. No.	Inlet/Outlet Size	Remarks
286934X	286934	1/2" P.T.	12 V.D.C. - 60 W. Heater

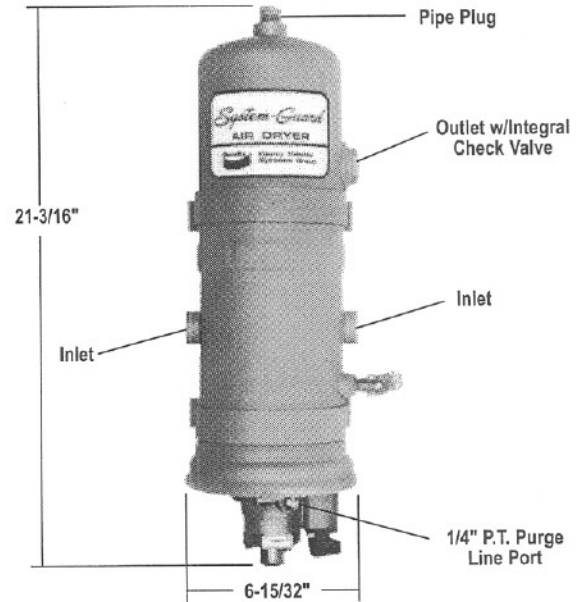
End Covers

Reman Pc. No.	Service Pc. No.	Remarks
103253X	103253	24 V.D.C. - 120 W. Heater
286875X	286875	12 V.D.C. - 60 W. Heater
286876X	286876	24 V.D.C. - 60 W. Heater

Service/Maintenance Information

Maintenance Kits:

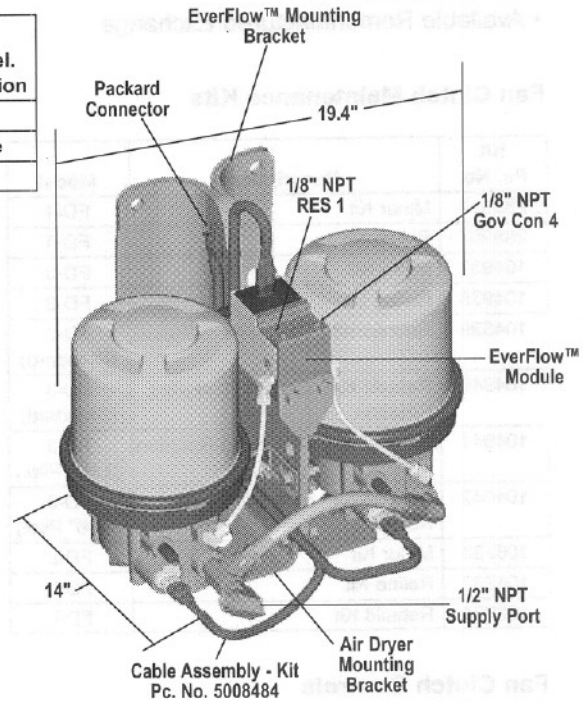
Pc. No.	Description
102657	Thermostat Maintenance Kit
286718	Desiccant Cartridge Refill Kit
287053	Purge Valve Maintenance Kit
287298	Check Valve Maintenance Kit
287313	Replacement Desiccant Cartridge Kit
288918	Thermostat Cover Maintenance Kit



PC. NO. 101900X IS REMFR. EXCH. DESICCANT CARTRIDGE

EverFlow™ Module Assembly

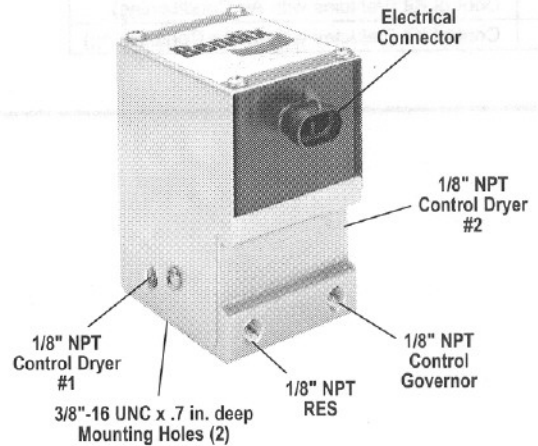
Serv. Pc. No.	Air Dryer			EverFlow™		Sup. & Del. Port Location
	Model	Serv. Pc. No.	Mtg. Brkt.	Serv. Pc. No.	Mtg. Brkt.	
800801	AD-IP	065693	5001247	800685	5008483	Shown
801074	AD-IP	065693	5001247	800685	5008483	Opposite
801032	AD-9	065650	5009610	800685	5008483	Shown



EverFlow™ Air Dryer Module

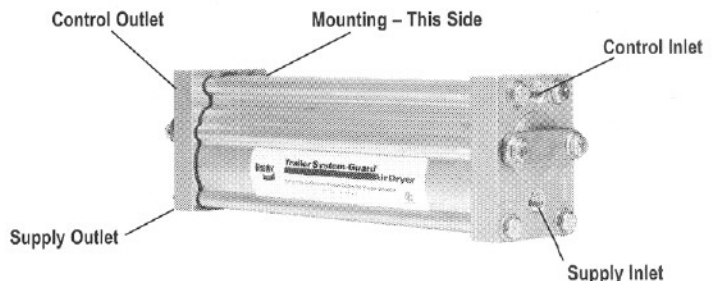
Retrofit Kit* Pc. No.	Service Pc. No.	Voltage
800684	800685	12 V
800723	800722	24 V

*Includes EverFlow module & hardware
- does not include air dryers.



Trailer System-Guard® Air Dryer

Service Pc. No.
800765



All Supply and Control ports 1/4" NPT

FD-1, FD-L & TorqueMaster FD-3 Fan Clutch

V.M.R.S. 42-003-001

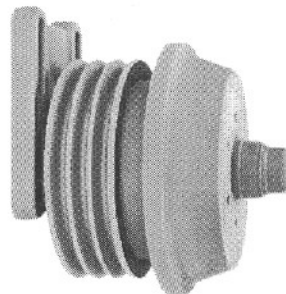
• Available Remanufactured Exchange

Fan Clutch Maintenance Kits

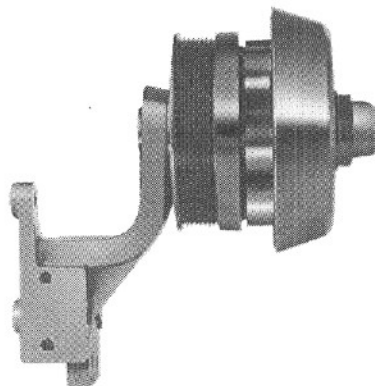
Kit Pc. No.	Description	Model
289319	Minor Kit	FD-1
288907	Reline Kit	FD-1
104937	Minor Kit	FD-3
104938	Reline Kit	FD-3
104939	Rebuild Kit - Clockwise Rotation	FD-3 (Standard)
104940	Rebuild Kit - Counterclockwise Rotation	FD-3 (Standard)
104941	Rebuild Kit - Clockwise Rotation	FD-3 (2.56" Pilot)
104942	Rebuild Kit - Counterclockwise Rotation	FD-3 (2.56" Pilot)
106733	Minor Kit	FD-L
106732	Reline Kit	FD-L
106731	Rebuild Kit	FD-L

Fan Clutch Controls Index Controls

Kit Pc. No.	Description
109750	Control Kit (Vehicles with Air Conditioning)
109751	Control Kit (Vehicles without Air Conditioning)



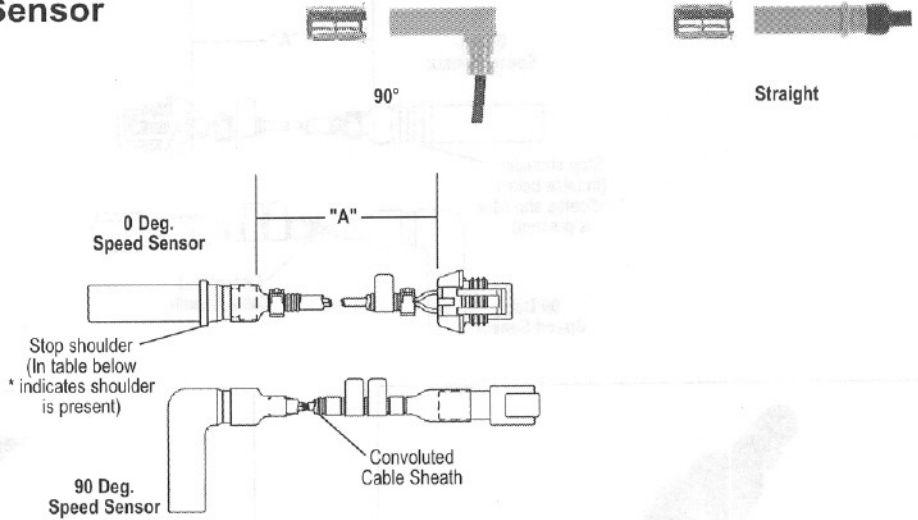
FD-1 & TorqueMaster
FD-3



FD-L

Caution Fan Bolts must not enter fan plate more than 1/2" or less than 3/8". Fan Bolts that enter the fan plate more than 5/8" will cause immediate damage to the TorqueMaster FD-3, FD-L and eventual damage to the FD-1.

WS-20 Wheel Speed Sensor



Kabelmetal Connector

Service Pc. No.	A Inches	Sensor Config.	Comments
65640	68	0	Convolved Cable Sheath, Volvo
65711	68	0	Convolved Cable Sheath
800111	68	0	With Spring Retainer
800109	68	90	With Spring Retainer
800308	68	90	Convolved Cable Sheath, Volvo
800110	80	90	With Spring Retainer

Packard Metripack GT 150 Series Connector

Service Pc. No.	A Inches	Sensor Config.	Comments
801096	30	90	Convolved Cable Sheath
801093	34	0	Convolved Cable Sheath
801252	37	90	Convolved Cable Sheath
801092	42	0	Convolved Cable Sheath
801091	47	0	Convolved Cable Sheath
801090	51	0	Convolved Cable Sheath
801251	38	0	Convolved Cable Sheath

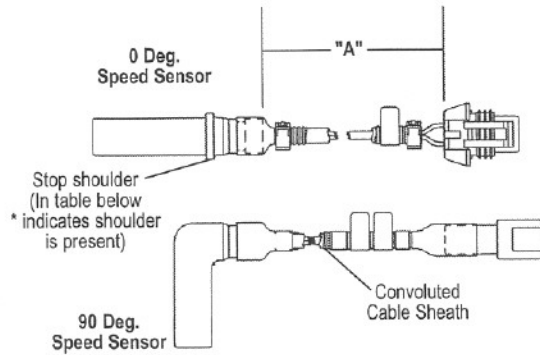


Metripack 280 Series Connector

Service Pc. No.	A Inches	Sensor Config.	Fig.	Comments
65357	62	90	A	
800729	64	90	A	
65363	64	0*	A	
65472	64	0*	B	
800730	64	90*	B	
65456	88	0*	B	
65459	98	0*	A	
65659	97	90	A	
65280	139	0*	A	
65279	139	90	A	

Metripack 150 Series Connector

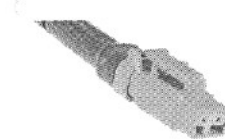
Service Pc. No.	A Inches	Sensor Config.	Comments
800669	35	0	
800668	36	0	
65473	64	0	Convolved Cable Sheath
65517	64	90	Convolved Cable Sheath, GM # 15974484
800487	64	90	Convolved Cable Sheath
65518	76	90	Convolved Cable Sheath
801095	85	90	Convolved Cable Sheath
801094	83	90	Convolved Cable Sheath



Deutsch DT04-2P Connector

NOTE:
Deutsch Model Number "DT04-2P" Molded Into
Connector Body

Service Pc. No.	A Inches	Sensor Config.	Comments
801175	41	0	Convoluted Cable Sheath
65502	49	0*	Convoluted Cable Sheath
65414	61	0*	
800793	61	0*	
65310	76	0*	Convoluted Cable Sheath
800791	76	0*	
65362	104	0*	Convoluted Cable Sheath
800792	104	0*	
800055	25	90	Convoluted Cable Sheath
65528	31	90	Convoluted Cable Sheath
800659	41	90	
800717	41	90	
65323	49	90	Convoluted Cable Sheath
65368	49	90	Convoluted Cable Sheath, Ford
65301	61	90	Convoluted Cable Sheath
800715	61	90	
65324	76	90	Convoluted Cable Sheath
800716	76	90	
65325	104	90	Convoluted Cable Sheath



Deutsch DTM06-2S Connector

NOTE: Deutsch Model Number
"DTM06-2S" Molded Into
Connector Body

Service Pc. No.	A Inches	Sensor Config.	Comments
800542	13	0*	
800197	49	0*	Ford
800306	49	0*	Convoluted Cable Sheath
800343	49	0*	Convoluted Cable Sheath, Ford
800592	49	0*	Convoluted Cable Sheath, Ford
800160	61	0*	Convoluted Cable Sheath
800544	61	0*	
800614	61	0	Convoluted Cable Sheath
800543	104	0*	
800442	13	90	
800489	41	90	Convoluted Cable Sheath
800161	49	90	Convoluted Cable Sheath
800198	49	90	Ford
800690	49	90	
800132	61	90	Convoluted Cable Sheath
800199	61	90	Ford
800344	61	90	Convoluted Cable Sheath, Ford
800593	61	90	Convoluted Cable Sheath, Ford
800655	61	90	Convoluted Cable Sheath
800688	61	90	
550532	68	90	
800201	76	90	Convoluted Cable Sheath, Ford
800356	76	90	With Spring Retainer
800488	76	90	Convoluted Cable Sheath
800708	76	90	Convoluted Cable Sheath
800133	104	90	Convoluted Cable Sheath
800689	104	90	
800134	139	90	

WS-20 CHANGEOVER	
O.E. Pc. No.	Service Pc. No.
65703	800110
65704	N/A
65705	550532
550285	65279
550286	65280
550335	65301
550341	65310
550384	65323
550385	65324
550386	65325
550387	800110
550395	N/A
550437	65357
550440	65362
550441	65363
550442	65368
550485	65456
550486	65459
550487	N/A

WS-20 CHANGEOVER	
O.E. Pc. No.	Service Pc. No.
550532	550532
550534	65414
550607	65472
550610	65473
550656	65517
550657	65518
550686	65502
550715	65528
550759	65640
550767	65659
550796	65711
800200	800198
5000530	800055
5000795	65517
5000796	65518
5000889	800132
5000890	800161
5000891	800488
5000892	800133

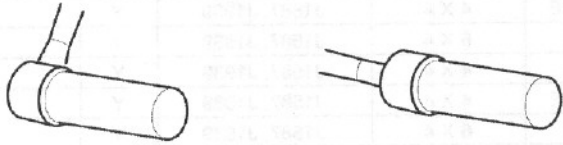
WS-20 CHANGEOVER	
O.E. Pc. No.	Service Pc. No.
5001063	800109
5001064	800110
5001066	800111
5001167	800688
5001168	800689
5001243	800134
5001325	800197
5001326	800198
5001327	800199
5001328	800198
5001667	800356
5001694	800160
5001695	800690
5002037	800201
5003067	800306
5003100	800308
5003607	800343
5003608	800344

WS-20 CHANGEOVER	
O.E. Pc. No.	Service Pc. No.
5004084	800160
5004459	800442
5004602	800489
5004719	800487
5005223	800542
5005224	800543
5005225	800544
5005706	800592
5005707	800593
5006177	800614
5006586	800659
5006663	800668
5006664	800669
5006828	800655
5007217	800729
5007218	800730
5007249	800708
5007338	800715

WS-20 CHANGEOVER	
O.E. Pc. No.	Service Pc. No.
5007339	800716
5007340	800717
5007842	800791
5007843	800792
5007844	800793
5009120	801090
5009121	801091
5009122	801092
5009123	801093
5009124	801094
5009125	801095
5009126	801096
5010403	801175
5010644	801251
5010647	801252
5011303	801094
5011304	801095

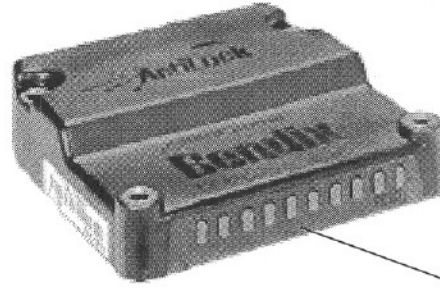
Gen 4 and Gen 5 Wheel End Sensors and Related Components

NOTE: Formerly marketed under the Eaton® brand name



Service Pc. No.	Cable Length	Sensor Config.	Comments
300083	1.3 ft. (0.40 m.)	90	low temperature range applications
300086	2.6 ft. (0.80 m.)	90	
300085	3.3 ft. (1.00 m.)	90	
300171	3.3 ft. (1.00 m.)	0	
300150	5.6 ft. (1.70 m.)	90	
300151	5.6 ft. (1.70 m.)	0	
300084	6.6 ft. (2.00 m.)	90	
300087	6.6 ft. (2.00 m.)	0	

EC-30 Controller



Diagnostic Window

Service Pc. No.	Traction Control ¹	Sensors Modulators ²	Communication Protocol	Blink Code ³	Power Line Carrier	Comment
801166	EL, DB	4 X 4	J1587, J1939			
801167	EL, DB	4 X 4	J1587, J1939		Y	
801173	EL, DB	6 X 4	J1587, J1939	Y	Y	
801174	EL, DB	6 X 4	J1587, J1939	Y		
801176	EL, DB	4 X 4	J1587, J1939			
801177	EL, DB	4 X 4	J1587, J1939		Y	
801178	EL, DB	4 X 4	J1587, J1939	Y		
801179	EL, DB	4 X 4	J1587, J1939	Y	Y	
801180	EL, DB	6 X 4	J1587, J1939	Y	Y	
801181	EL, DB	6 X 4	J1587, J1939	Y		
801197	NONE	4 X 4	J1587, J1939	Y	Y	
801198	NONE	4 X 4	J1587, J1939	Y	Y	86 TOOTH
801199	DB	6 X 4	J1587, J1939	Y	Y	W/BRKT.
801200	DB	4 X 4	J1587, J1939	Y	Y	W/BRKT.
801201	NONE	4 X 4	J1587, J1939	Y	Y	W/BRKT.
801202	DB	6 X 4	J1587, J1939	Y	Y	
801203	DB	4 X 4	J1587, J1939	Y	Y	
801204	NONE	4 X 4	J1587, J1939	Y	Y	
801205	NONE	4 X 4	J1587, J1939	Y		
801206	NONE	4 X 4	J1587, J1939	Y		86 TOOTH
801207	DB	6 X 4	J1587, J1939	Y		W/BRKT.
801208	DB	4 X 4	J1587, J1939	Y		W/BRKT.
801209	NONE	4 X 4	J1587, J1939	Y		W/BRKT.
801210	DB	6 X 4	J1587, J1939	Y		
801211	DB	4 X 4	J1587, J1939	Y		
801212	NONE	4 X 4	J1587, J1939	Y		
801225	EL, DB	6 X 4	J1587, J1939	Y		
801226	EL, DB	6 X 4	J1587, J1939	Y		W/BRKT.
801227	EL, DB	6 X 4	J1587, J1939	Y	Y	
801228	EL, DB	6 X 4	J1587, J1939	Y	Y	W/BRKT.
801233	EL, DB	6 X 4	J1587, J1939, J1922	Y		
801234	EL, DB	6 X 4	J1587, J1939, J1922	Y		86 TOOTH
801235	EL, DB	6 X 4	J1587, J1939, J1922	Y		
801236	EL, DB	6 X 4	J1587, J1939, J1922	Y		
801237	NONE	4 X 4	J1587, J1939	Y		
801238	NONE	4 X 4	J1587, J1939	Y	Y	
801239	EL, DB	6 X 4	J1587, J1939	Y	Y	
801333	NONE	4 X 4	J1587, J1939	Y		
801334	EL, DB	6 X 4	J1587, J1939	Y	Y	
801335	EL, DB	6 X 4	J1587, J1939	Y		

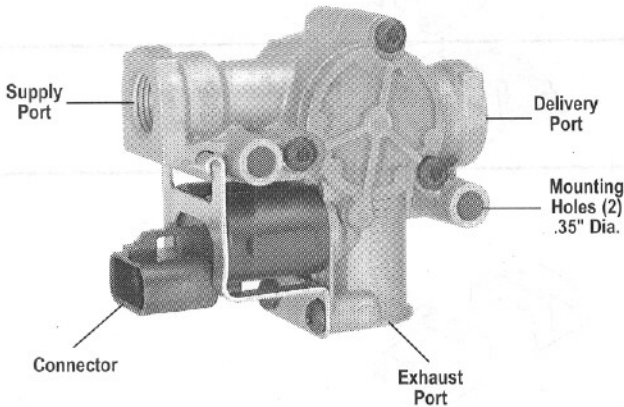
Note 1: "EL" = Engine Limiting feature - "DB" = Differential Braking feature.

Note 2: Number of Speed Sensors presented first Modulators second.

Note 3: Blink Code for troubleshooting is programmed into controller.

M-30 Antilock Modulator

V.M.R.S. 13-011-071



M-30 MODULATOR SERVICE PART NUMBERS				
Pc. No.	Supply Port	Delivery Port	Conn. Color ¹	Comments
800665	1/2" NPT	1/2" NPT	Black	
800968	1/2" NPT	1/2" NPT	Black	Silenced
801077	1/2" NPT	1/2" NPT	White	
801323	1/2" NPT	1/2" NPT	----	Euro
801078	1/2" NPT	1/2" PTC	Black	
801079	1/2" NPT	1/2" PTC	White	
801080	1/2" NPT	1/2" STC	Black	
801081	1/2" NPT	1/2" STC	White	
800666	1/2" PTC	1/2" PTC	Black	
800794	5/8" PTC	1/2" NPT	Black	
800795	5/8" PTC	1/2" NPT	White	
801082	5/8" PTC	1/2" STC	Black	
801083	5/8" PTC	1/2" STC	White	

¹ The Black or White color of the M-30 electrical connector has no effect on operation and is used by some vehicle manufacturers to mate with like colored wiring connectors on the vehicle wiring harness.

STC = Snap-To-Connect

PTC = Push-To-Connect

NPT - Pipe Thread

Truck, Bus, Coach

Basic Generation 5 Control Unit With Power Line Carrier (PLC)
4-Channel ABS only, No Engine Data Link, Retarder Control via Relay 300342

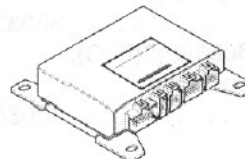
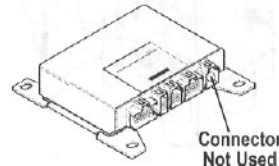
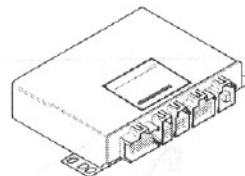
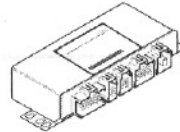
Basic Generation 4 Control Unit
4-Channel ABS Only, No Engine Data Link, Basic Flanges, Retarder Control via Relay 300222

Standard Generation 5 Control Unit With Power Line Carrier (PLC)
6-Channel ABS/ATC, J1939 300344
6-S/6-M, ATC, Retarder Control via Data Link, J1939 (Special Order) 300366
4-S/4M, ATC, Retarder Control via Data Link, J1939 (Special Order) 300365

Standard Generation 4 Control Unit
4-Channel ABS/ATC, J1922 300223
4-Channel ABS/ATC, J1939 300410

Changeover:
Previous model 300325 is replaced by 300410
Previous model 300143 is replaced by 300410
Previous model 300209 is replaced by 300223

Standard Generation 4 Control Unit
6-Channel ABS/ATC, J1922 300126



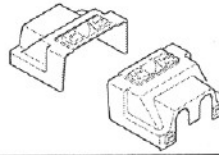
NOTE: Formerly marketed under the Eaton® brand name

Truck, Bus, Coach

V.M.R.S. 13-011-069

Basic Generation 5 Control Unit With Power Line Carrier (PLC)

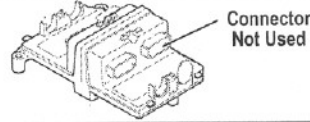
4-Channel ABS only, No Engine Data Link 300343



Basic Generation 4 Control Unit

4-Channel ABS/ATC, J1922 300199

4-Channel ABS/ATC, J1939 300208

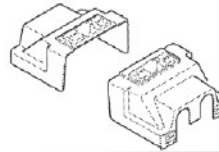


Standard Generation 5 Control Unit With Power Line Carrier (PLC)

6-Channel ABS/ATC, J1939 300345

6-S/6-M, ATC, Retarder Control via Data Link,
J1939 (Special Order) 300368

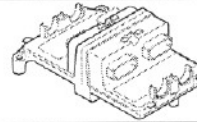
4-S/4M, ATC, Retarder Control via Data Link,
J1939 (Special Order) 300367



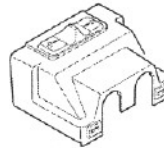
Standard Generation 4 Control Unit

6-Channel ABS/ATC, J1939 300345

6-Channel ABS/ATC, J1939, 24 volt (Military) . . . 300130



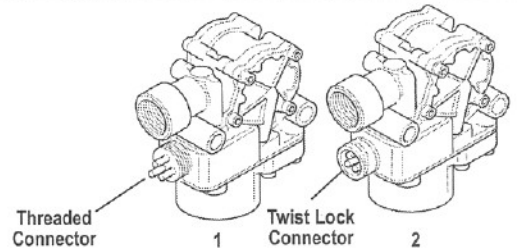
Replacement Cover. 300271



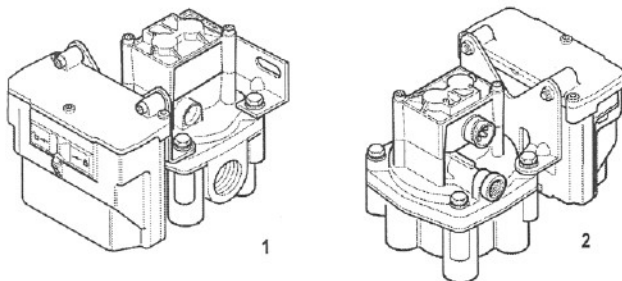
Pressure Modulator Valves

(Fig. 1) 12 volt, Threaded, Metric-Threaded Ports . . 300386

(Fig. 2) 12 volt, Twist-lock, NPT-Threaded Ports . . . 300387

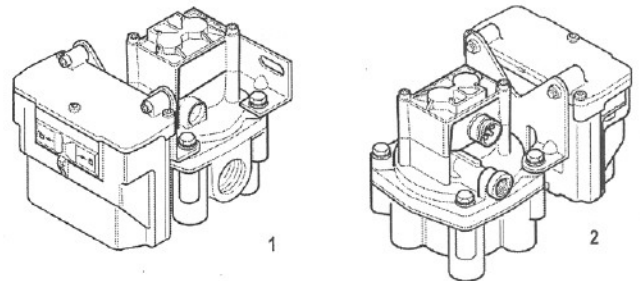


Basic Trailer ABS



(1) Relay Valve with Gen 5 ECU (300340), (PLC),
4.0 PSIG Crack Pressure, 4 Delivery Ports.
Frame-mounted with Bracket 300358
(2) Relay Valve with Gen 5 ECU (300340), (PLC),
4.0 PSIG Crack Pressure, 4 Delivery Ports.
3/4 NPT Tank-mounted 300360

Standard Trailer ABS



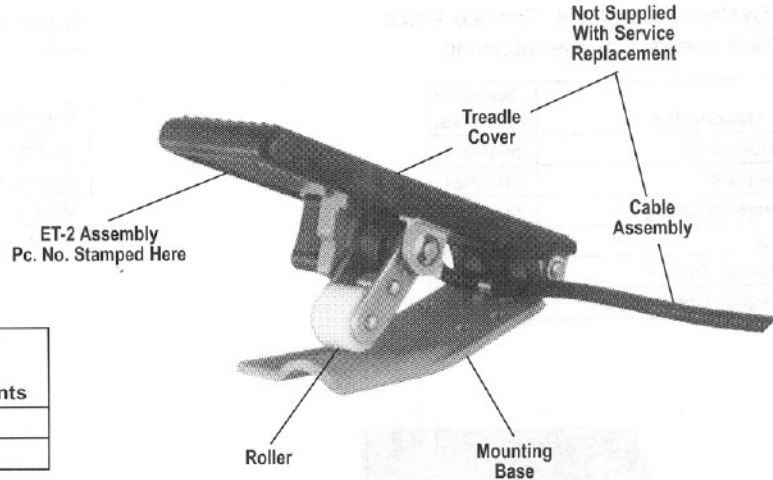
(1) Relay Valve with Gen 5 ECU (300341), (PLC),
4.0 PSIG Crack Pressure, 4 Delivery Ports.
Frame-mounted with Bracket 300362
(2) Relay Valve with Gen 5 ECU (300341), (PLC),
4.0 PSIG Crack Pressure, 4 Delivery Ports.
3/4 NPT Tank-mounted 300364

ET-2 Electronic Throttle

- Pivot Pin Kit 550392
- Lever Shaft Spring Kit 550393

V.M.R.S. No. 44-007-047

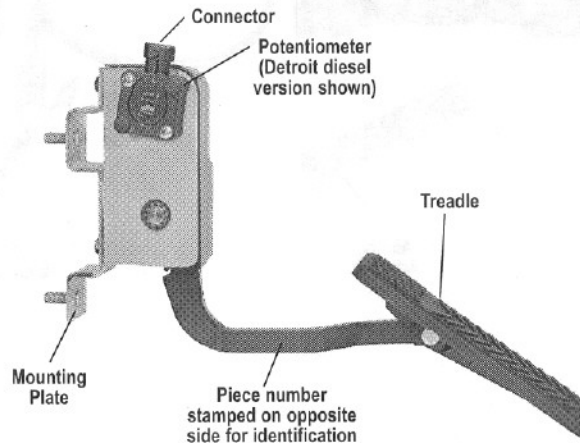
Service Replacement Pc. No.	O.E. Pc. No.	Minor Rebuild Kit	Comments
065151	550200	550394	
065290	550305	550394	Ford



ET-S2 Electronic Treadle

V.M.R.S. No. 44-007-047

Service Piece No.	Treadle & Spring Kit	Potentiometer Replacement Kit
800606	5006085	5002356 (Cummins)
800607	5006085	5006086 (DDC)
800608	5006085	5010163 (Caterpillar)

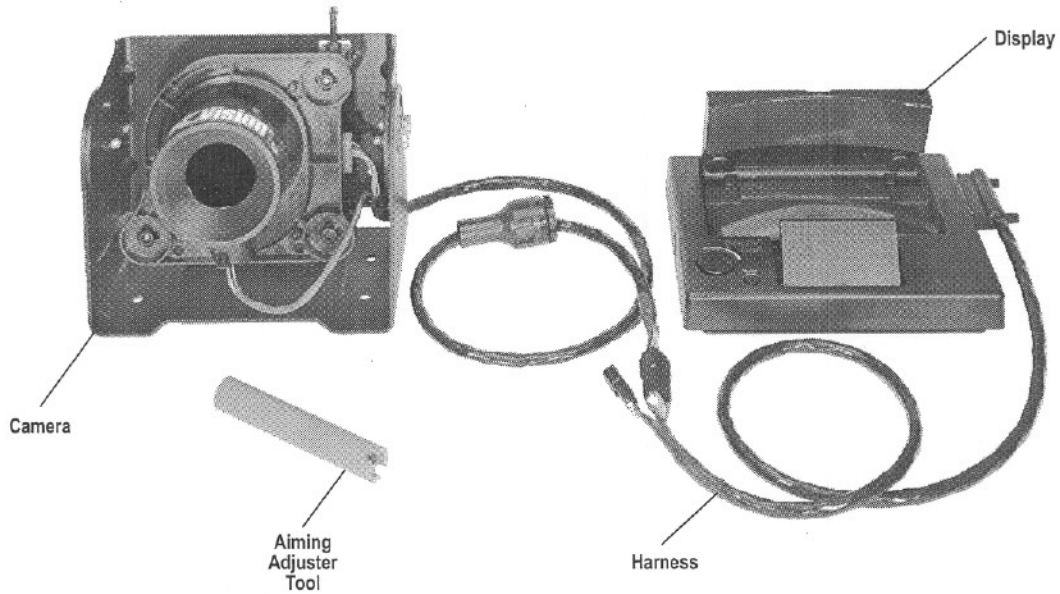


XVision® System Retrofit Kit, Service Piece No. 5010086 consists of the following:

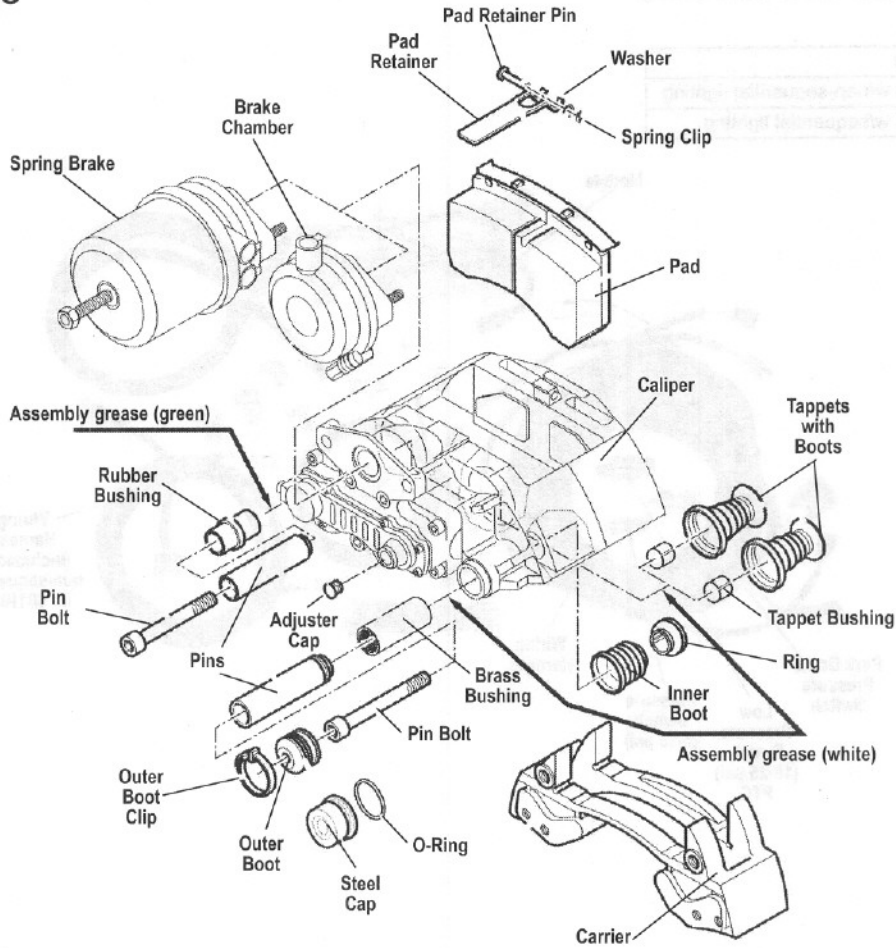
Description	Service Piece No.
Camera Bracket Kit	5010078
CB Mounting Kit	5010081
Friction Hinge Mounting Kit	5010082
Harness Kit	5010083
Aiming Adjuster Tool	-
Camera/Display Combination	-

Replacement Kits

Description	Service Piece No.
Fold Mirror Replacement Kit	5010189
Combiner Mirror Replacement Kit	5010190
Aiming Adjuster Kit	5010079
Window Heater Kit	5010193
Window Replacement Kit	5010192



SB-7000 Series



Pads

Pad set (Replacement for II339760062) . . . II180220062

Rotors

Rotor 22.5", 12mm, front and tag axle (Prevost & Pierce) . . . II37415
 Rotor 22.5", 12mm, drive axle (Prevost) . . . II37986

Grease

White (8g) for brass bushing . . . II14525
 White (500g) for brass bushing . . . II32868
 Green (8g) for rubber bushing . . . II32793
 Green (500g) for rubber bushing . . . Z46

Tools

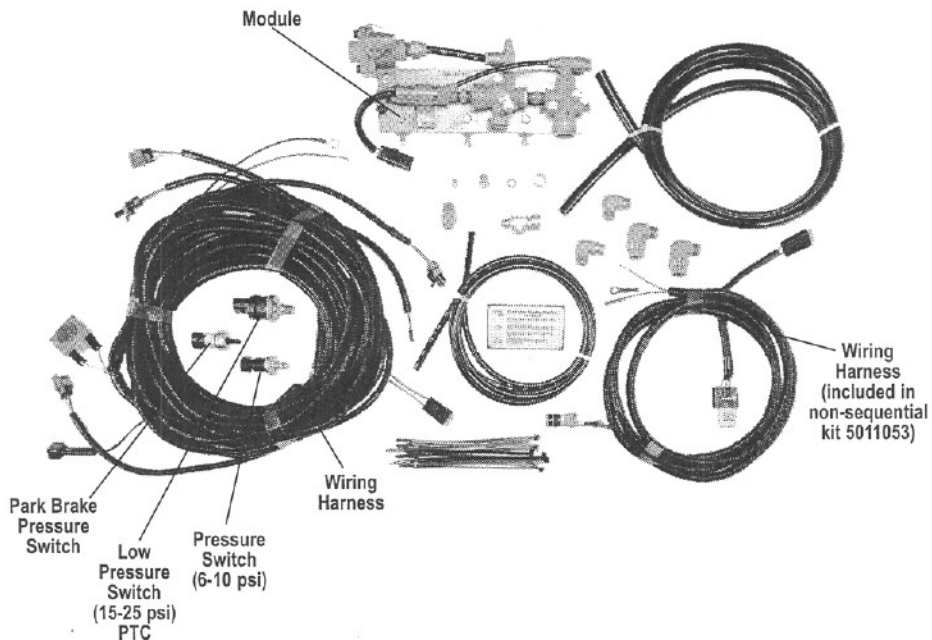
Tool Kit (all tools except Z1105, set includes video and service manual) . . . II37951004
 Steel Cap Tool . . . Z1105
 Mounting Tool for Tappet with Boot . . . II19252
 Mounting Tool for Boot . . . II19253
 Press-In Tool for Brass Bushing . . . II19254
 Grooving Tool for brass bushing . . . II36797
 Tool Fork for Bellow Cap . . . II32202

Kits and Misc. Parts

Adjuster caps (4 pcs.) . . . II17934004
 Tappets with Boots . . . II304130065
 Kit for Floating Pin / Rubber Bushing Set . . II368470064
 Pad retainer set . . . II19712004
 Set of seals, adjuster cap, fixed pin, and inner spindle sealing . . . II328090061
 Set of seals, adjuster cap, fixed pin, inner spindle sealing, floating pin, rubber bushing & grease . . . II328090062
 Steel Cap Set (Pierce) . . . II39769F0063
 Kit Steel Cap Screws (Pierce) . . . II40024F0067
 Set for Guidance and Seals (Pierce) . . . II39769F0062

SBI-1 Autobrake Retrofit Kits

Pc. No.	Comments
5011053	For Busses w/non-sequential lighting
5008285	For Busses w/sequential lighting





Sales Promotions and Training Materials

AUDIO VISUAL PROGRAMS				
Form	Description	Package Quantity	Cost \$ Per Item	Format
AIR BRAKE SYSTEMS				
BW1673	Four-part Video System Training with Workbooks	1 set	30.00	VHS/Book
BW1678	Workbook for BW1673	5	2.00	Book
BW1957	Four-part Video only	1	15.00	VHS
BROCHURES & PRODUCT SHEETS				
Actuating Devices				
BW2116	Spring Brake	25	0	Product Sheet
Air Dryers				
BW2023	AD-IP System-Guard Air Dryer	25	0	Product Sheet
BW2075	PuraGuard System Filter	25	0	Product Sheet
BW2076	EverFlow Air Dryer Control Module	25	0	Product Sheet
BW2088	AD-9 System-Guard Air Dryer	25	0	Product Sheet
BW2213	AD-IS	25	0	Product Sheet
Air Disc Brakes				
BW2015	Air Disc Brakes	25	0	Brochure
Antilock				
BW2019	Truck/Tractor/Bus Antilock Braking Systems	25	0	Product Sheet
BW2020	Trailer Antilock Braking Systems	25	0	Product Sheet
Hydraulics				
BW1399	Troubleshooting the Vacuum Hydraulic Brake System	25	0	Brochure
Modules				
BW2096	Dryer Reservoir Module	25	0	Product Sheet
BW2132	Autobrake Product Sheet	25	0	Product Sheet
Slack Adjusters				
BW1268	ASA-5 Automatic Slack Adjuster	25	0	Brochure
BW1641	ASA-5 Installation Template	10	0	Template
BW2216	Sure Stroke	25	0	Product Sheet
Valves				
BW2047	Genuine Bendix Valves	25	0	Product Sheet
BW2197	BVA-85	25	0	Product Sheet
BW2215	Coreless Valves	25	0	Product Sheet
Vision				
BW2245	Vision	25	0	Brochure
BW2246	Vision	25	0	Product Sheet
Miscellaneous				
BW2272	1-800-Air Brake Card	25	0	Card
Catalogs/Service Manuals/CDs				
BW1114	Quick Reference	25	0	Catalog
BW1419	FMSI Book	1	1.25	Catalog
BW2231	Truck Products Catalog	5	0	Catalog
BW9000	Air & Hydraulic Catalog Complete	1	15.00	Catalog
BW9001	Air & Hydraulic Complete Catalog w/o Binder	1	12.00	Catalog
BW9100	Air Parts Catalog Only	1	10.00	Catalog
BW9200	Hydraulic Parts Catalog Only	1	10.00	Catalog
Service Information				
BW2031	Service Manual - CD	1	5.00	CD
BW5057	Air Brake Handbook	10	0	Handbook
BW9600	Service Data Manual Complete	1	15.00	SD
Binders				
BW1532	Empty Binder for Catalog, Service Manual & Bulletins	1	5.00	Catalog

Sales Promotions and Training Materials



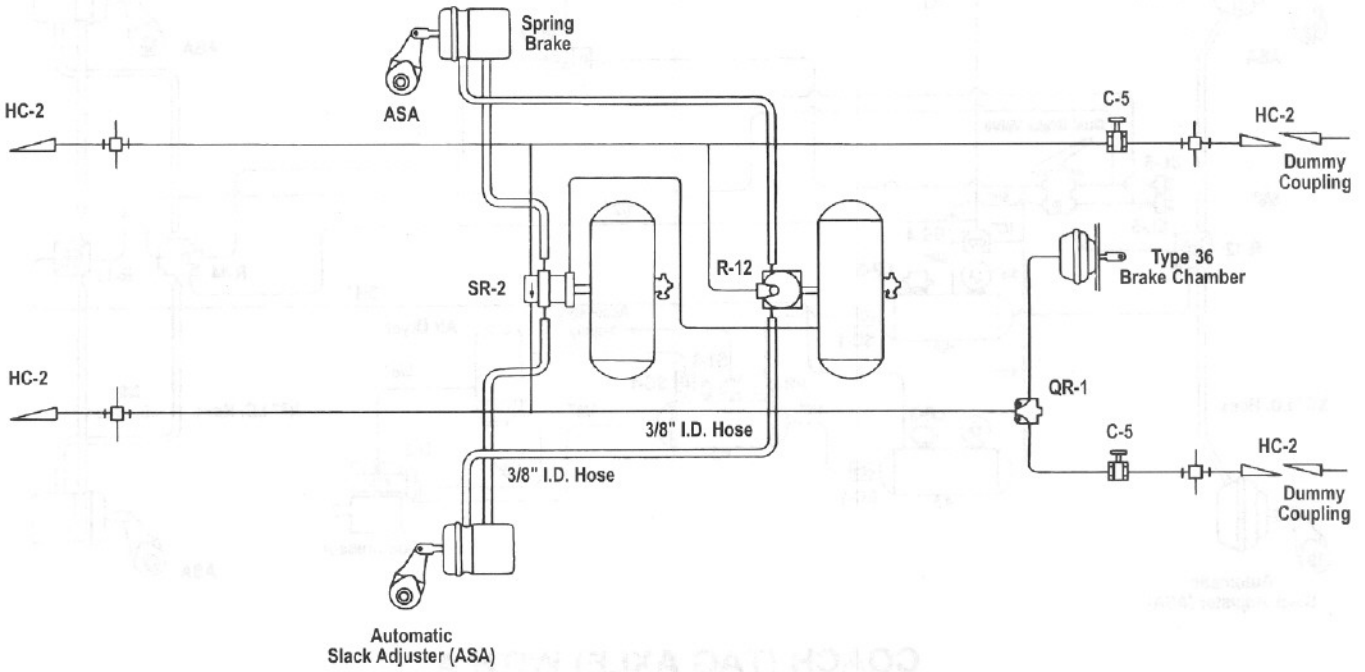
Form	Description	Package Quantity	Cost \$ Per Item	Format
Troubleshooting Cards & Wall Charts				
<i>Systems-Air</i>				
BW902	Bus System Wall Chart	3	1.25	Wall Chart
BW1555	Air Pressure Balance Test	10	0	Card
BW1231	Dual Systems Wallchart	3	1.25	Card
BW1396	Dual Systems Troubleshooting Card	25	1.25	Card
BW1397	Coach w/DD-3 Park System & Coach w/Spring Brake Park System	25	1.25	Card
BW1779	Troubleshooting Charging & Air Supply Systems	25	1.25	Card
<i>Systems-Hydraulic</i>				
BW1398	Vacuum Hydraulic Wall Chart	3	1.25	Wall Chart
BW1611	Power Hyd. Brake Systems Wall Chart	3	1.25	Wall Chart
BW1705	Hydromax System Card w/Troubleshooting	25	1.25	Card
<i>Antilock</i>				
BW1742	MC-12 Trailer Antilock System Troubleshooting Card	25	1.25	Card
BW1959	MC-12 Trailer ABS - Troubleshooting Card	50	2.50	Card
BW1982	EC-17 Troubleshooting Card	50	2.50	Card
BW2175	EC-30 Troubleshooting Card	25	1.25	Card
BW2187	MC-30 Troubleshooting Card	25	1.25	Card
<i>Cores</i>				
BW1299	Core Group	3	0	Wall Chart
BW1330	Mini Core Chart	25	0	Wall Chart

Note: Cost \$ = cost per each item.

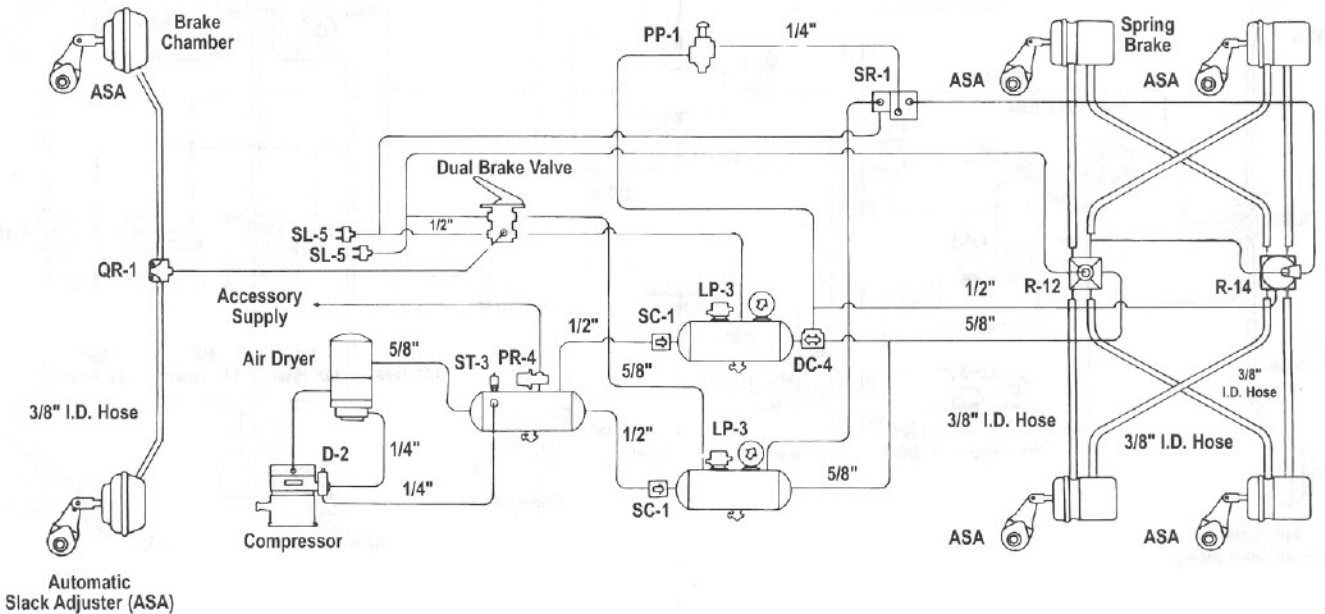
Items must be ordered in multiples of the package quantity shown.

For additional product and literature information, visit our web site at <http://www.Bendix.com>

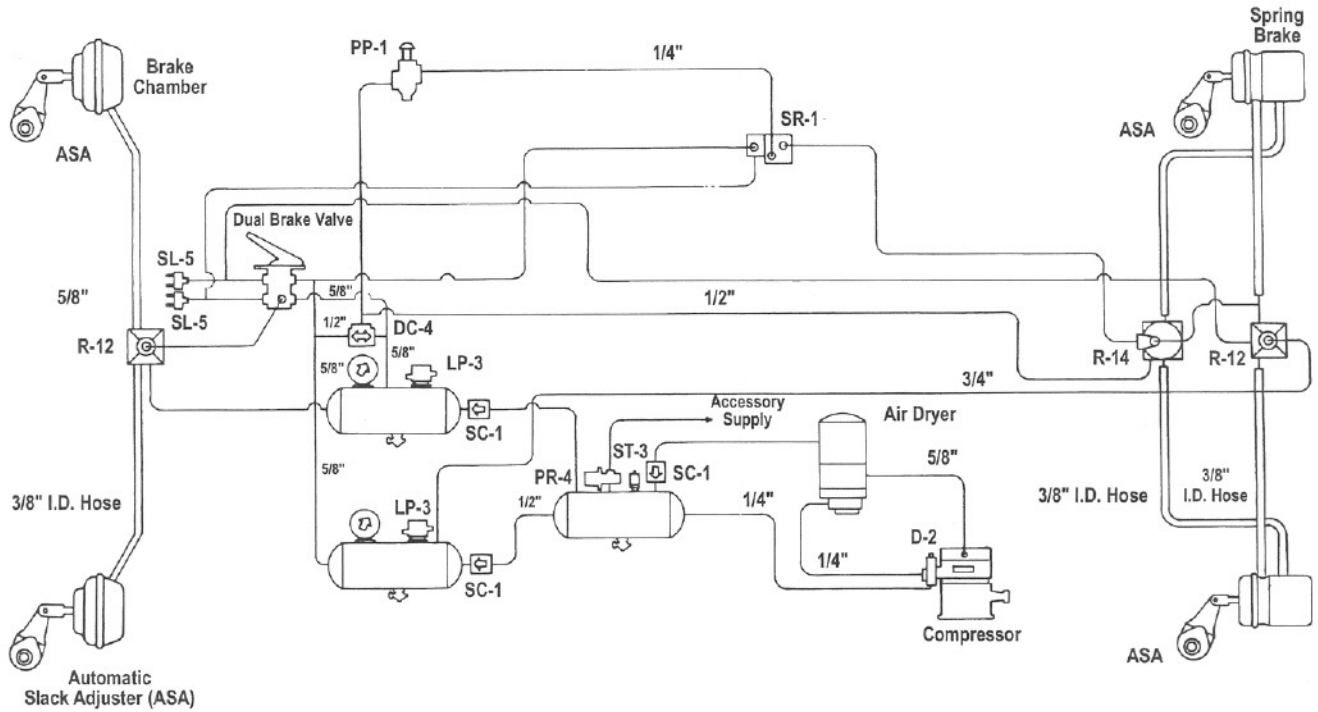
TWO WHEEL TOWING TRAILER



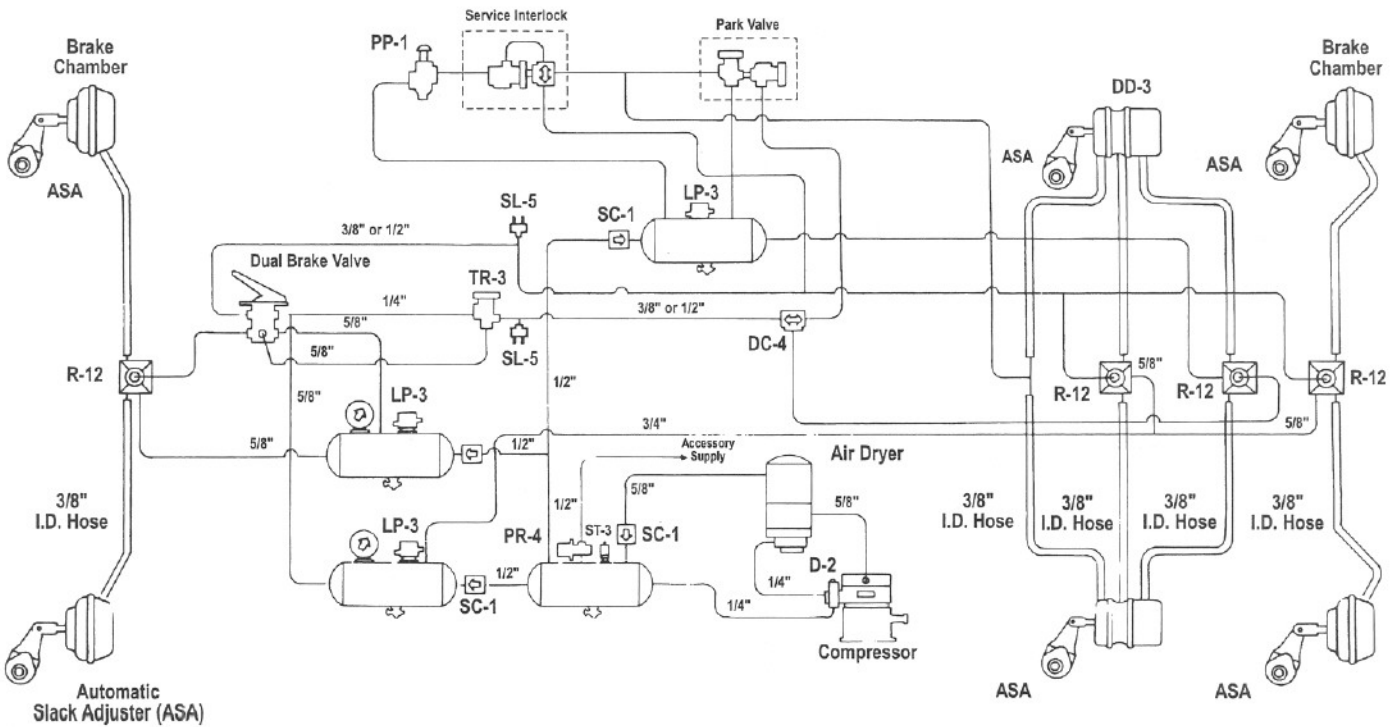
SIX WHEEL TRUCK

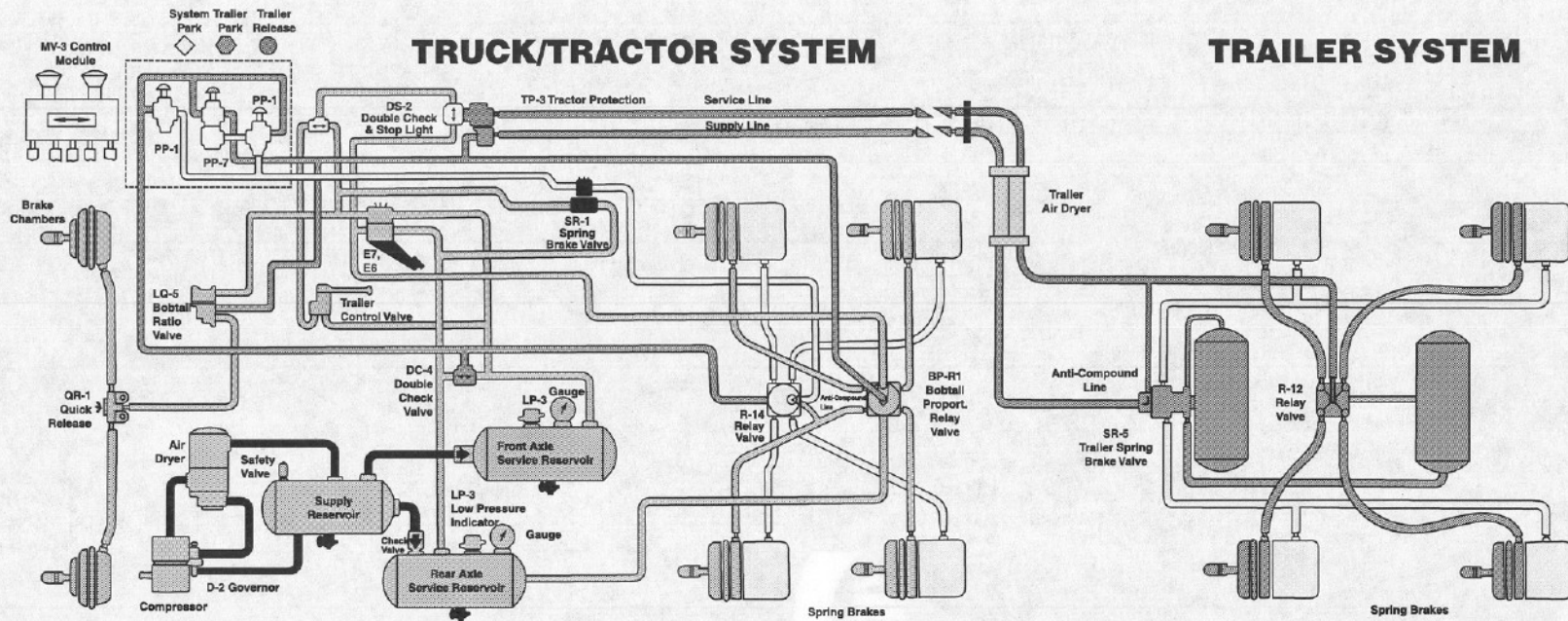


SCHOOL BUS

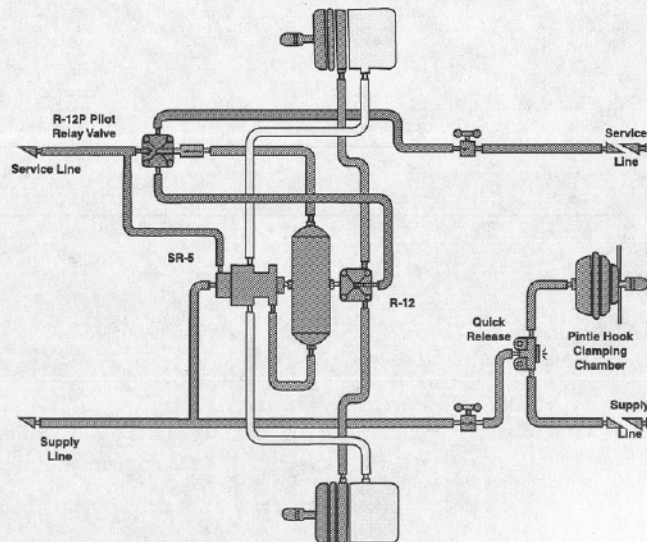


COACH (TAG AXLE) WITH A TWO STEP PARKING BRAKE RELEASE (DD-3)

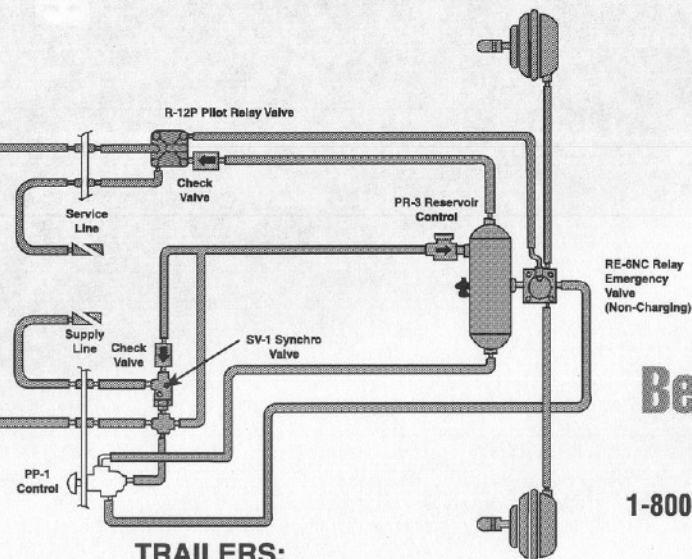




TOWING TRAILER

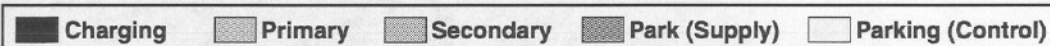


CONVERTER DOLLY



1-800-AIR-BRAKE

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Service Plants

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Sparks, NV 89431
775.353.4255

Canada
8851 Crescent 4
Anjou, Quebec
H1J 1A9
514.323.0303

AD-IS

INTEGRATED SOLUTION AIR DRYER

Improve Performance, Reduce Maintenance Time

Evolutionary Charging System and Integrated Design

Bendix elevates air dryers to a new level with the Bendix® AD-IS, an integrated solution air dryer for removing liquid, vapor and solid contaminants from the air system. With a new concept in system charging and a modular design that combines a variety of air system components, the AD-IS improves performance, simplifies maintenance, decreases the total number of parts, minimizes potential leak points and reduces system weight. The spin-on cartridge design makes replacement quick and easy.

Enhanced Performance

The AD-IS raises the bar over current industry standard air drying systems with its improved drying performance and its innovative system design. With four pressure protection valves located directly on the air dryer module, accessories can be plumbed straight from the air dryer as opposed to connecting through either of two air system reservoirs. This design feature reduces complexity and minimizes possible leak points.

The AD-IS purges air from a self-contained reservoir instead of accessing either of two available air system reservoirs. As a result, the air system reservoirs maintain consistent pressure during the purge cycle and are fully dedicated to air system operations.

Simplified Maintenance, Reduced System Weight

The modular design of AD-IS combines the vehicle supply reservoir, governor and a number of charging system components, eliminating many maintenance trouble spots. Fewer components means lower system weight, fewer maintenance requirements and less opportunity for leaks. It also means service centers can inventory fewer parts.

The integrated design also extends the life span of some components. For example, because the governor is mounted directly to the air dryer – away from the heat and vibration of the compressor – it experiences less wear and tear. All of the sub-components of the air dryer module can be maintained individually and are easily accessed from one central location.



AD-IS

"Spin-On" Cartridge

Due to its spin-on design, the desiccant cartridge can be changed in less than 10 minutes, saving fleets maintenance and downtime. With the air dryer's integral purge volume, this spin-on cartridge meets today's highest performance standards, making the AD-IS an ideal solution for a wide range of applications.

Genuine Bendix Quality and Total Air Guarantee

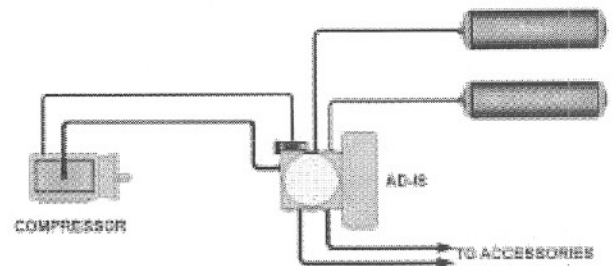
With the AD-IS, you can rely on Genuine Bendix quality backed by our Total Air Guarantee (T.A.G.) limited warranty. We're so certain of the AD-IS performance abilities that, under normal usage, it's warranted for three years or 350,000 miles. And if it's installed as original equipment on a vehicle, you're eligible for our T.A.G. program. T.A.G. extends the warranty of other Bendix air and antilock brake system components also installed as original equipment on the same vehicle to three years or 350,000 miles.

Specifications

Height:	11.5 inches
Width:	9 inches
Projection:	10 inches
Weight:	27 pounds
Heater:	12V and 24V
Purge Source:	Integral
Mounting:	SAE 4-hole thread pattern
Governor:	110 to 130 psi, integral to dryer
Porting:	Per SAE standard
Models:	Standard and Extended Purge
Warranty:	T.A.G. limited warranty; 3 years/350,000 miles (for complete details on the T.A.G. warranty, refer to Bendix publication BW1716)

AD-IS PART REDUCTION VS. CONVENTIONAL 3-TANK SYSTEM

Category	Reduction
Major Components	57%
Pneumatic Lines	43%
Pneumatic Connections	64%



AD-IS System Benefits At-A-Glance

- Simpler charging system design reduces the number of possible leak points.
- Higher system air pressure (up to 135 psi) provides extra braking reserve.
- Number of components is reduced, resulting in weight savings.
- Greater drying capacity extends desiccant cartridge life and reduces maintenance requirements.
- Reduced maintenance.
- Spin-on cartridge design provides quick and easy servicing.

Get Ahead Of The Performance Curve With The Bendix AD-IS

Integrated design, improved performance and reduced maintenance time. Discover how the Bendix AD-IS can enhance your commercial vehicle. Talk to your Bendix Account Manager, call 1-800-AIR-BRAKE, or visit www.bendix.com today.