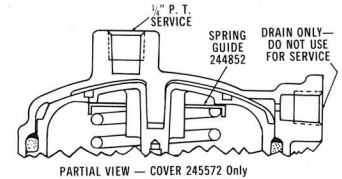
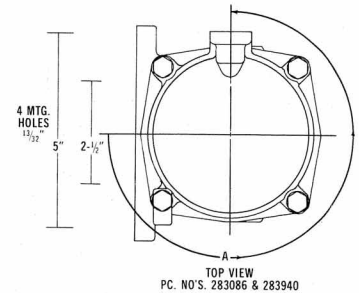
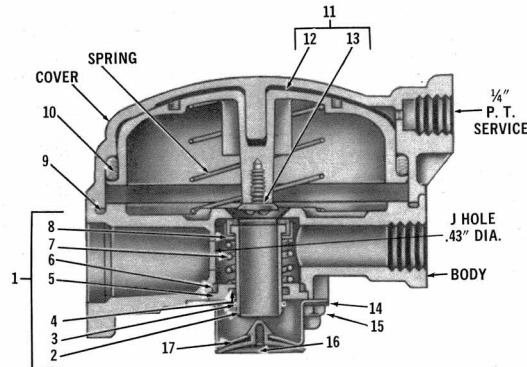
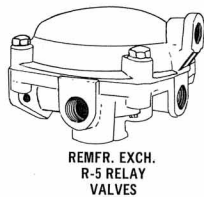
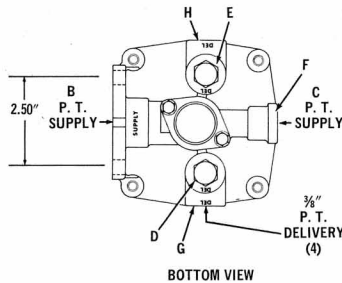
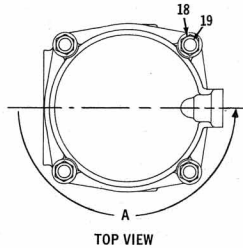
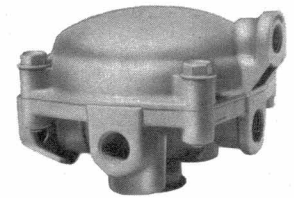


The relay valve is primarily used on long wheel base vehicles to apply and release rear axle(s) service or parking brakes. It is an air operated, graduating, directional control valve of high capacity and fast response. Upon receipt of signal pressure from the service brake valve, the relay valve will graduate, hold and release air pressure from the brake chambers to which it is connected.

The relay valve is used to balance the time of brake applications on heavy duty vehicles. They are especially needed where large volumes of air are required or long service lines cause the capacity of the brake valve to be exceeded.

Relay valves can be remote or reservoir mounted and differ primarily in the design. The R-1 and R-5 are diaphragm operated. The R-6 and R-8 are piston operated.

For installation and maintenance information, see Instruction and Service Data Sheet SD-41.



NO.	PC. NO.	QUAN.	DESCRIPTION	NO.	PC. NO.	QUAN.	DESCRIPTION
1	279181	1	Inlet & Exh. Valve Assy.	11	279182	1	Relay Piston Assy.
2	248187	1	Inlet & Exh. Valve	12	243974	1	Relay Piston
3	243967	1	Retaining Ring	13	243975	1	Exhaust Valve Seat
4	214747	1	O-Ring $1\frac{1}{16}$ " O.D.	14	230412	2	Lock Washer
5	243966	1	Valve Guide	15	290216	2	Screw
6	240337	1	O-Ring, $1\frac{1}{4}$ " O.D.	16	243969	1	Exhaust Check Valve
7	243965	1	Valve Spring	17	243968	1	Exhaust Cover
8	243964	1	Valve Retainer	18	243833	4	Screw
9	245290	1	Cover O-Ring	19	237648	4	Lock Washer
10	243973	1	Relay Piston O-Ring				

**MAINTENANCE KIT
FOR R-6 RELAY VALVE
IS 280856**

**SEE CONVERSION LIST ON
BACK OF PAGE**

R-6 RELAY VALVE O.E. PC. NO.	REMFR. EXCH. PC. NO.	REFERENCE DETAILS												
		BODY PC. NO.	COVER PC. NO.	SPRING PC. NO.	SERV. PORT ANGLE (DEG.)	B PIPE THREAD	C PIPE THREAD	PIPE PLUGS					J HOLE DIA.	PRESS. DIFF. (P.S.I.)
								D	E	F	G	H		
279180	279180	243961	243972	NONE	180	—	$\frac{3}{8}$	238807	238807	—	—	—	—	2
279730	279180	243961	243972	NONE	270	—	$\frac{3}{8}$	238807	238807	—	—	—	—	2
279731	279180	243961	243972	NONE	90	—	$\frac{3}{8}$	238807	238807	—	—	—	—	2
279952	279952	244655	243972	NONE	180	$\frac{3}{4}$	$\frac{3}{8}$	238807	238807	238807	—	—	.43	2
280218	280651	244655	243972	NONE	90	$\frac{3}{4}$	$\frac{3}{8}$	238807	238807	238807	—	—	.43	2
A280243	280243	243961	243972	244853	180	—	$\frac{3}{8}$	238807	238807	—	—	—	—	10
280375	280375	244990	243972	NONE	90	—	$\frac{1}{2}$	238807	238807	—	—	—	—	2
B280651	280651	244655	243972	NONE	180	$\frac{3}{4}$	$\frac{3}{8}$	—	—	—	—	—	.43	2
C281182	281182	243961	245572	NONE	180	—	$\frac{3}{8}$	238807	238807	—	—	—	—	2
281577	280651	244655	243972	NONE	180	$\frac{3}{4}$	$\frac{3}{8}$	—	—	—	—	—	.43	2
281647	280651	244655	243972	NONE	0	$\frac{3}{4}$	$\frac{3}{8}$	—	—	—	—	—	.43	2
281832	281832	244990	243972	NONE	180	—	$\frac{1}{2}$	—	238807	—	238807	—	—	2
C282346	282346	244990	245572	NONE	90	—	$\frac{1}{2}$	238807	238807	—	—	—	—	2
283033	283033	247160	243972	NONE	180	$\frac{3}{4}$	$\frac{1}{2}$	—	—	—	—	—	.43	2
D283086	283940	247280E	243972	NONE	270	—	$\frac{3}{8}$	—	238807	—	—	—	—	2
C283857	282346	244990	245572	NONE	90	—	$\frac{1}{2}$	—	238807	—	—	—	—	2
283940	283940	247280E	243972	NONE	270	—	$\frac{3}{8}$	—	238807	—	—	—	—	2

A—Add Spring Guide, 244852.

B—The Following Parts Are Packed With This Valve:

PC. NO.	QUAN.	DESCRIPTION
238807	3	Pipe Plug
239048	1	Pipe Plug
244819	1	Gasket

C—Service Port On Top Of Cover (See Partial View)

D—Same As 283940 Except Customer Identified.

E—See Partial View For Mtg. Hole Dim'n.

R-6 RELAY VALVE CONVERSION LIST

O.E. PC. NO.	REMFR. EXCH. PC. NO.
279180	279180
279730	279180
279731	279180
279752	279752
280218	280651
280243	280243
280244	280244

O.E. PC. NO.	REMFR. EXCH. PC. NO.
280375	280375
280651	280651
281182	281182
281577	280651
281647	280651
281832	281832
281834	281834

O.E. PC. NO.	REMFR. EXCH. PC. NO.
281908	281908
282346	282346
283033	283033
283086	283940
283857	282346
283940	283940
284348	279180

O.E. PC. NO.	REMFR. EXCH. PC. NO.
284892	284892
284962	284962
285318	285318
285470	282346
285548	285548
286487	286487

MAINTENANCE KIT FOR R-5
IS PC. NO. 276120

R-6 RELAY VALVE AND
RESERVOIR ASSEMBLY
PC. NO. 286182

