AIR BRAKES

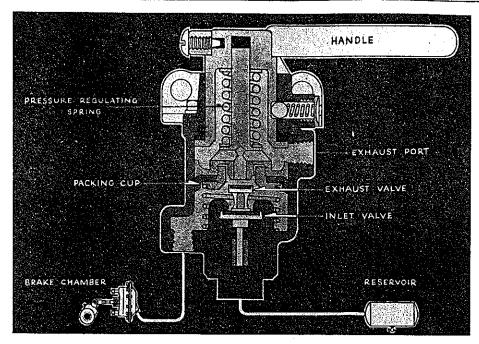


Fig. 19 Releasing position of HP Brake Valve

Fig. 20 Sectional view of Quick Release Valve

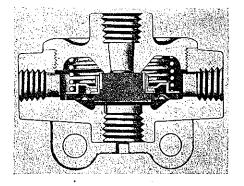
tions such as blocking the wheels must be taken as there is the possibility the air pressure in the system may be depleted due to leakage and the brakes release after a reasonable lapse of time.

OPERATING TESTS—Check the delivery pressure of the brake valve, using an accurate air pressure test gauge. The test gauge may be conveniently connected to the service line outlet at the rear of the vehicle. With the brake valve handle moved to its fully applied position, the brake valve must deliver at least 60 pounds pressure.

Move the brake valve handle to several different positions between fully applied and fully released positions and observe that the air pressure registered by the test gauge varies in accordance with the position to which the handle is moved.

LEAKAGE TESTS-

- 1. With brake valve handle in released position, coat the exhaust port with soapsuds to check for leakage.
- 2. With brake valve handle in fully applied position, coat the exhaust port with soapsuds to check for leakage.
- 3. Leakage in excess of a one-inch soap bubble in one second is not permissible in either of these tests. If excessive leakage is found, it will usually be caused by dirty or worn valves or valve seats and the inlet and exhaust valve assembly or the complete brake valve must be repaired or replaced. Leakage due to dirty valves and valve seats may be corrected by removing the inlet and



exhaust valve assembly and cleaning the valves and valve seats. Leakage due to worn valves may be corrected by installing a new inlet and exhaust valve assembly. If the valve seats are pitted or worn excessively, or if the installation of a new inlet and exhaust valve assembly does not correct the leakage, the brake valve must be repaired or replaced.

QUICK RELEASE VALVE

The purpose of the quick release valve is to reduce the time required to release the brakes by hastening the exhaust of air pressure from the brake chambers. It is most commonly used with front wheel brake chambers.

The valve consists of a body, Fig. 20, containing a spring loaded diaphragm so arranged as to permit air pressure to flow through the valve in one direction but when the supply pressure is reduced, the air which has passed through the valve is permitted to escape through the exhaust port.

OPERATION—The quick release valve assumes three positions during normal operation. These three positions are (1) the applying position, when air pressure is passing through the valve into the brake chambers; (2) the holding position, when pressure is being held in the brake chambers; (3) the releasing position, when the brake chamber pressure is being exhausted, Fig. 21.

When air pressure from the brake valve enters the top connection of the quick release valve, the diaphragm moves down and closes the exhaust port. Air pressure then deflects the outer edges of the diaphragm downward and flows out the side

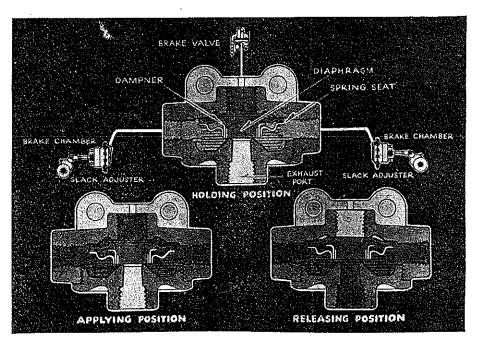
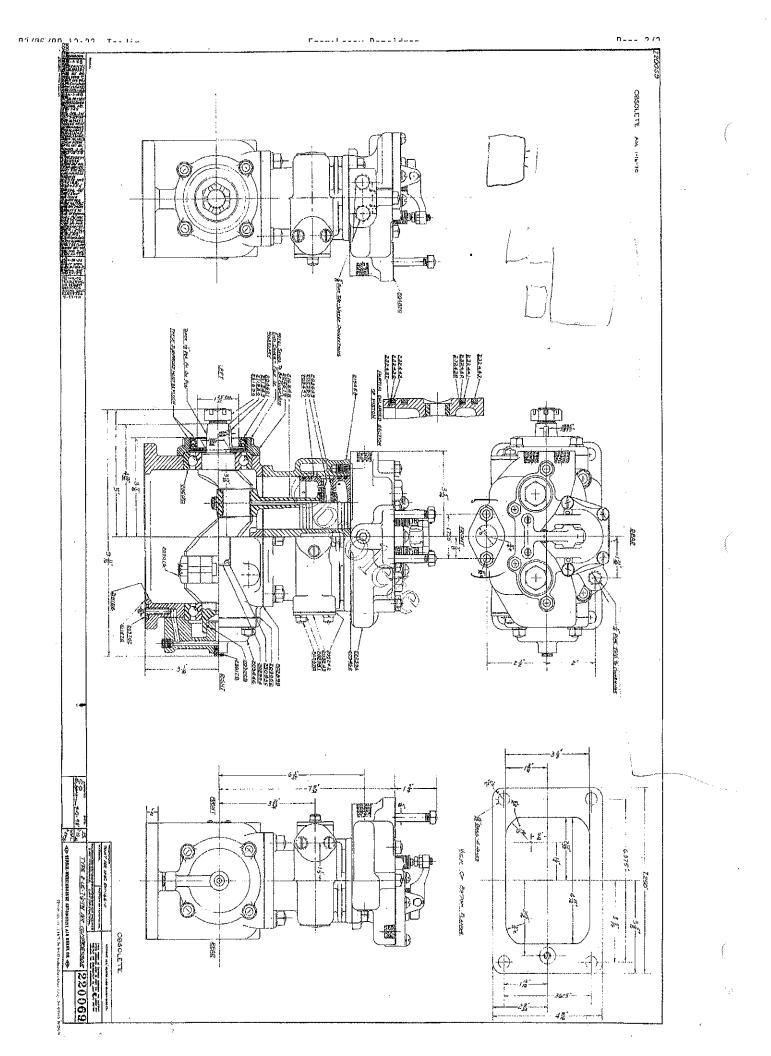
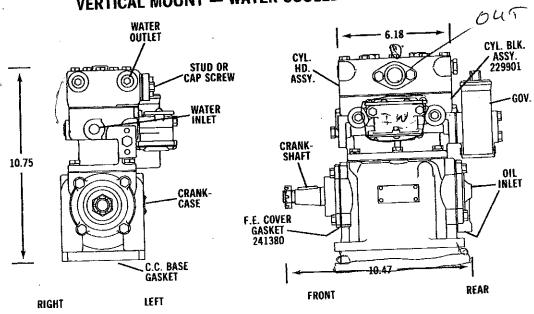


Fig. 21 Applying, holding and releasing positions of Quick Release Valve





REMFR. EXCH. AND CHANGEOVER SELECTIONS

			CHANGE	OVER TO/F	ROM
TF-400	STD.	Į ^r		TF-501	TF-600
COMPR.	REMFR.	OPTIONS	EQUIV.	EQUIV.	EQUIV.
PC. NO.	EXCH.				- 1
101142*	101142	289158 281286, 282783, 283502, 283504		- 1	-
101242*	101242	281286, 282783, 263302, 263304 226433, 226688, 226718, 277055	227320	286526	280602
226085	227400	226433, 226688, 226716, 277933	227322	286527	280604
226335	227403	226557, 226558, 226706, 279310	227322	286527	280604
226365	227401	276434, 226463, 226518, 226519	227320	286526	280602
226433	227400	226688, 226716, 277055, 279349	227322	286527	280604
226434	227401	226463, 226518, 226519, 226520	227322	286527	280604
226463	227401	226518, 226519, 226520, 275781	227322	286527	280604
226518	227401	226519, 226520, 226659, 275781		286527	280604
226519	227401	226520, 226659, 277056, 277342	227322	200321	
226520	227401	226659, 277056, 277342, 275781		286527	280604
226557	227403	eupepsenen RY 226558	227322		280604
226558	227403	1 226706 279310 279313 283600	227322	286527	280602
226562	227402	226705 287132, 279512, 281592	227320	286526	280604
226659	227401	277056, 281094, 27/342, 2/5/81	227322	286527	
	227400	226716, 277055, 279349, 281786	227320	286526	280602
226688	227404	276791 277636	227323	286526	280605
226689	227402	287132 279512, 281592, 281715	227320	286526	280602
226705	227403	279310 279313 283600, 284014	227322	286527	280604
226706	227400	277055, 279349, 281786, 282462	227320_	286526	280602
226716		226755, 226893, 226948, 227739	227320	286526	280602
226727	1	226893, 226948, 227739, 228137	227320	286526	280602
226755		226984, 227220, 227227, 227405	227320	286526	280602
226760			1 —	-	\
226849		275833 226948, 227739, 228137, 227047	227320	286526	280602
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226984	4 227400		227320		
22704	7 227402				
22711	0 227403	227171, 227284, 227563, 22787	1 227322		
22715		227206, 227279, 227970, 27578	0 227322		
22717		227284, 227563, 227872, 22867	7 227320		-
22722		227227, 227405, 228503, 22882	6 227320		
22722		n 2274N5 228503, 228627, 22855	22/32		
22727		227970 228103, 275350, 27578	31 22/32/	((000)	' [- ²⁶⁰⁰⁰
22728	- 1	207562 227872 228670 22890)2	0 28652	6 28060
22740		n 279555 227405, 281879, 22679	60 22732		- 1
2274		u 1 278464 281787, 282126, 2757	RI Í SSLOY		
2274	~ 1	12 278556 279319 279863 2811	56 22/32		
2274		278503, 278554, 282968, 2855	93 22/32		
		a 226680 276791 277636	22/32		
2274	w.	n 228503 228827 228596, 2763	60 22732		26 2806
2274			81 22733		2806
2274			22732		
2275		nv 000004	227320	28652	6 28060
22755					
22756		XX1812, XX8010, XX0302, XX303	227320		
22773			221320	1	
	4 227864	1 1	, –	4	. 1
22786	2 227403	21/020 200000	1 227322	286527	7 l 280604

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