Installation Instructions

KIT 800239

This Field Modification Kit is intended to modify the parking brake system on a 4x2 Ford CF (Cargo) Series refuse truck.

Contents: Refer to system schematic.	 Replace or install the new TW-2 dual circuit "work brake" control valve making certain that the indicator light is installed and operating properly.
Note: This instruction sheet is intended to be a generic representation of a typical 4X2 Ford CF Series vehicle. The actual plumbing may differ from that illustrated.	Note: Bendix recommends that the RV-3 pressure reducing valves (Items 17 and 18) be part number 107154 with a nominal 44 PSI setting. Consult with vehicle manufacturer
Instructions	for recommended setting.
1. Chock the wheels, release the parking brakes, and drain all air reservoirs.	 Temporarily cap off any remaining air lines and charge the system to governor cut-out (120-130 PSI).
2. Remove the ITI actuators in the released position noting the push rod length. Replace with Type 30/30 spring brake actuators installing per the manufacturers recommendations for push rod length, mounting, etc.	8. Release the parking brake and make a service brake
Note: It may also be advisable to inspect all other founda- tion brake parts that impact brake output (slack adjusters, shoes, linings, drums, cams, bushings, etc.) at this time.	turn off the engine, and drain the rear service reservoir. Apply the service brake and check to see that the front
3. Remove the ITI control valve identifying the following ports:	service chambers apply air pressure and the rear spring brakes exhaust with the application of the foot valve. Check
ITI Control Valve Ports EMRR-7 Modulating Valve PortsEMRSUP(No port exists)BAL	to see that the TW-2 control valve produces the same results. If it does not the supply and delivery ports may be crossed at the TW-2.
(Service/Control line to rear axle service relay) DELIVERY PORT (3/8 NPT) DEL Balance Port (brass capnut top) CON	Note: It may be necessary to install gages at the front and rear service chambers and the spring brakes to determine if the system is operating properly.
Replace with the R-7 spring brake modulating valve.	10. Recharge the system with the parking brakes released and drain the other (front) service reservoir. The rear service
IMPORTANT : Make certain that all lines affected by this retrofit are installed per the schematic contained in this instruction sheet.	brakes should be operational via the foot valve or the TW-2 control valve without front brakes. The spring brakes should not be affected. Apply the TW-2 to make certain of its operation.
 Remove the balance of the rear axle valving for both the service and emergency circuits. Replace with the one R- 12 relay valve for service and one QR-1 quick release valve for the parking brake contained in the kit. 	11. Recharge the system release the parking brake and adjust
Refer to Kit 800240 for 6X4 Ford CF series vehicles.	40 F SI.
5. Remove and replace to existing PP-1 parking control valve	12. Remove any extra lines from the vehicles' chassis and plug

at the source.

5. Remove and replace to existing PP-1 parking control valve with the new valve in the kit.

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KIT COMPONENTS	DESCRIPTION	CONTROL VALVE	PARKING CONTROL VALVE	SPRING BRAKE CONTROL VALVE	RELAY VALVE	QUICK RELEASE VALVE
	ITEM NO ODEL	TW-2	l-dd	R-7	R-12	0R- I
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LIST OF MATERIAL	DESCRIPTION	AIR COMPRESSOR	GOVERNOR	AIR DRYER	RESERVOIR-SUPPLY	RESERVOIR-SERVICE-FRONT	RESERVOIR-SERVICE-REAR	DRAIN COCK	SAFETY VALVE	PRESSURE PROTECTION VALVE	SINGLE CHECK VALVE	LOW PRESSURE INDICATOR (80 PSI NOM CLOSING)	AIR PRESSURE GAGE	DOUBLE CHECK VALVE	DUAL BRAKE VALVE	DOUBLE CHECK VALVE & STOPLAMP SWITCH	QUICK RELEASE VALVE	PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE	PARKING INDICATOR	EMERGENCY STOPLAMP INDICATOR	WORKPLACE INDICATOR LIGHT	SLACK ADJUSTER-FRONT-AUTOMATIC	SLACK ADJUSTER-REAR-AUTOMATIC	BRAKE CHAMBER-FRONT	SPRING BRAKE ACTUATOR-REAR	STOPLIGHT SWITCH
	MODEL		D-2						ST-3	PR-4	SC-I	LP-3		DC-4	E-6/E-7	DS-2	0R - 1 / 0R - N	RV-3	RV-3	LP-3	LP-3		ASA-5	ASA-5			SL -5
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