Installation Instructions

KIT 800129

This Field Modification Kit is intended to modify the parking brake system on a 4x2 Ford L Series.

Contents:

Refer to system schematic.

Bendix

Instructions:

- 1. Chock the wheels, release the parking brakes, and drain all air reservoirs.
- Remove the ITI actuators in the released position noting the push rod length. Replace with Type 30/30 spring brake actuators installing per the manufacturer's recommendations for push rod length, mounting, etc. Note: It may also be advisable to inspect all other foundation brake parts that impact brake output (slack adjusters, shoes, linings, drums, cams, bushings, etc.) at this time.
- 3. Remove the ITI control valve identifying the following ports:

ITI Control VIv. Ports	R-7 Modulating VIv. Ports
EMR	SUP
(No port exists)	BAL (Service/ Control line to
	rear axle service relay)
DELIVERY PORT (3/8 NP	T) DEL
Balance Port (brass cap n	ut top) CON

Replace with the R-7 spring brake modulating valve.

<u>IMPORTANT: Make certain that all lines affected by this</u> retrofit are installed per the schematic contained in this instruction sheet.

 Remove the two Bendix relay valves and two quick release valves on or adjacent to the rear axle. Replace with the two R-12 relay valves and QR-1 quick release valves contained in the kit. Note: It will probably be necessary to run a line from the

emergency double check valve to the supply port of the R-12 spring brake relay valve.

Refer to Kit 800130 for 6X4 Ford L series vehicles.

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

- 6. Replace or install the new TW-2 dual circuit "work brake" control valve making certain that the indicator light is installed and operating properly.
- 7. Temporarily cap off any remaining air lines and charge the system to governor cut-out (120-130 PSI).
- 8. Release the parking brake and make a service brake application checking to see that the service brakes apply on all axles.
- 9. With the system charged and the parking brake released, turn off the engine, and drain the rear service reservoir. Apply the service brake and check to see that the front service chambers apply air pressure and the rear spring brakes exhaust with the application of the foot valve. Check 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.

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.

- 10. Recharge the system with the parking brakes released and drain the other (front) service reservoir. The rear service 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.
- 11. Recharge the system, release the parking brake and adjust to the manufacturers recommended brake adjustment. Drain one service reservoir and slowly drain the other to verify that the PP-1 parking control "pops" at approximately 40 PSI.
- 12. Remove any extra lines from the vehicles' chassis and plug at the source.

KIT COMPONENTS	DESCRIPTION	CONTROL VALVE	PARKING CONTROL VALVE	SPRING BRAKE CONTROL VALVE	RELAY VALVE	QUICK RELEASE VALVE
	LTEM aty MODEL	TW-2	l-dd	R-7	R-12	0R- I
	ατγ	-	_	-	N	CI
	I TEM NO	27	28	29	30	Ξ

-		-	LIST OF MATERIAL
I TEM NO	ατγ	MODEL	DESCRIPTION
_	—		AIR COMPRESSOR
N	_	D-2	GOVERNOR
М	_		AIR DRYER
4	_		RESERVOIR-SUPPLY
വ	_		RESERVOIR-SERVICE-FRONT
6	_		RESERVOIR-SERVICE-REAR
7	4		DRAIN COCK
80	_	ST-3	SAFETY VALVE
6	_	PR-4	PRESSURE PROTECTION VALVE
01	2	SC-I	SINGLE CHECK VALVE
_	N	LP-3	LOW PRESSURE INDICATOR (80 PSI NOM CLOSING)
12	2		AIR PRESSURE GAGE
ΠЗ	3	DC-4	DOUBLE CHECK VALVE
14	2	E-6/E-7	DUAL BRAKE VALVE
15	2	DS-2	DOUBLE CHECK VALVE & STOPLAMP SWITCH
16	_	0R-1/0R-N	QUICK RELEASE VALVE
17	_	RV-3	PRESSURE REDUCING VALVE
8	_	RV-3	PRESSURE REDUCING VALVE
61	_	LP-3	PARKING INDICATOR
20	_	LP-3	EMERGENCY STOPLAMP INDICATOR
2	_		WORKPLACE INDICATOR LIGHT
22	Q	ASA-5	SLACK ADJUSTER-FRONT-AUTOMATIC
23	2	ASA-5	SLACK ADJUSTER-REAR-AUTOMATIC
24	2		BRAKE CHAMBER-FRONT
25	2		\triangleleft
26	_	SL-5	STOPLIGHT SWITCH

