## Installation Instructions

### KIT 800128

# This Field Modification Kit is intended to modify the parking brake system on a 6x4 Navistar and others.

#### **Contents:**

**Bendix** 

Refer to system schematic.

#### Instructions:

- 1. Chock the wheels, release the parking brakes, and drain all air reservoirs.
- 2. Remove the ITI actuators in the released position noting the push rod length. Replace with Type 30/30spring brake actuators installing per the manufacturers 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	SR-1 Spring Brake VIv. Ports
EMR	SUP
PRM. RES.	RES 1
DELIVERY PORT (3/8 NPT)	DEL
Balance Port (brass cap nut	top) CON

Replace with the SR-1 spring brake control valve.

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

 Remove the two Bendix R-14 relay valves and replace with the two contained in the kit. The cross member mounted relay should be the service relay as illustrated. Remove the balance port cover on the frame rail mounted R-14 spring brake relay valve and plumb per the schematic.

Note: It will probably be necessary to run a line from the emergency double check valve to the supply port of the R-14 spring brake relay valve.

5. This kit may be used on other 6x4 vehicles except Ford L series by eliminating the quick release valve in the spring brake circuit on the axle. Refer to Kit 800130 for 6X4 Ford L series vehicles.

- 6. Remove and replace the existing PP-1 parking control valve with the new valve in the kit.
- 7. Replace or install the new TW-2 dual circuit "work brake" control valve making certain that the indicator light is installed and operating properly.
- 8. Temporarily cap off any remaining air lines and charge the system to governor cut-out (120-130 PSI).
- 9. Release the parking brake and make a service brake application checking to see that the service brakes apply on all axles.
- 10. 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.

- 11. 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.
- 12. 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.
- 13. 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	
КІТ		CON	PAR	SPR	REL	
	ITEM aTY MODEL	TW-2	PP- I	SR-I	R-14	
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	ITEM	27	28	29	30	

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	OUICK RELEASE VALVE	PRESSURE REDUCING VALVE	PRESSURE REDUCING VALVE	PARKING INDICATOR	EMERGENCY STOPLAMP INDICATOR	SLACK ADJUSTER-FRONT-AUTOMATIC	SLACK ADJUSTER-REAR-AUTOMATIC	BRAKE CHAMBER-FRONT	SPRING BRAKE ACTUATOR-REAR	STOPLIGHT SWITCH	WORKPLACE INDICATOR LIGHT
	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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