IHC DUAL CYLINDER SINGLE SERVO

International Harvester
1510 MHC (Front Brakes)

DESCRIPTION

Dual cylinder single servo brake system consists of two brake shoes, two single piston wheel cylinders, retraction springs and two automatic adjuster assemblies mounted to individual brake shoes. Automatic adjuster consists of a contact plug mounted in center of brake shoe. Plug is connected by a swivel pin to adjusting lever. Adjusting lever makes contact with adjusting wedge cam. Adjusting wedge cam can also be manually operated. As lining wears, contact plug is depressed causing lever to advance spring actuated wedge cam. This maintains correct brake shoe adjustment.

ADJUSTMENT & SERVICING

BRAKE SHOE ADJUSTMENT

Brake shoes are adjusted automatically as lining wears. Initial manual adjustment should be done when installing brake drums. Rotate adjusting wedge cam in either direction until heavy drag is felt. Rotate cam in opposite direction until a slight drag is felt. Adjust other shoe using same procedure.

PARKING BRAKE ADJUSTMENT

See Parking Brake Adjustment in IHC Cable Type Automatic Adjuster in this Section.

BLEEDING SYSTEM

See Hydraulic Brake Bleeding in this Section.

REMOVAL & INSTALLATION

BRAKE SHOES

Removal – With brake drum removed, remove retraction springs. Remove hold-down "C" washers and springs, and lift off shoes. To remove automatic adjuster assembly from shoes, disconnect wedge actuating coil spring from wedge. Disconnect lever actuating spring from shoe web. Work spring coil off lever pivot pin and slide spring "U" hook off contact plug lever pin. Pull adjuster lever from opposite side of shoe web. Pull contact plug through shoe and lift off wedge washer adjuster, wedge cam and wedge guide.

Installation – Install wedge guide on front face of shoe web with serrations facing away from lining. Position adjuster wedge on shoe matching serrations with wedge guide and align slot on lever pivot pin hole. Insert contact plug from drum side of shoe, guiding shank through hole in shoe and over wedge guide and adjuster wedge cam.

2) Insert lever pins through shoe web from opposite side. Guide actuating center pin into mating hole of contact plug shank. Place wedge washer over shoulder of pivot pin. Slide "U" hook of adjuster spring on pin over contact plug shank. Attach end of wedge actuating spring on "U" hook, then install coil of adjuster torsion spring over pivot pin, then pull spring hook over edge of shoe web. Connect wedge actuating spring on raised hook on wedged fork.

3) Fully retract wedge against lever pivot pin, pressing upon contact plug to permit movement. If plug protrudes more than .005", file off end of plug until flush with shoe. If plug is more than .005" below edge of shoe with wedge fully retracted, replace plug.

4) Install shoes on hold-down pins, making sure long end of retracting spring is hooked at anchor end of shoe. Install flat washers and "C" washers on hold-down pins. Install remaining retraction springs. Center shoes on backing plate before installing brake drum. Manually adjust brakes as previously outlined to complete installation.

WHEEL CYLINDER

Removal & Installation – Remove wheel, drum and brake shoes. Disconnect lines from cylinders. Remove retaining bolts and remove cylinders. To install, reverse removal procedure.

OVERHAUL

WHEEL CYLINDER

Disassembly & Reassembly – With wheel cylinder removed, remove dust cap, cup, piston and spring. Remove bleeder screw. Clean all components in clean alcohol. Inspect cylinder bore for wear or scoring. Coat all components with new brake fluid. To assemble wheel cylinder, reverse disassembly procedure.

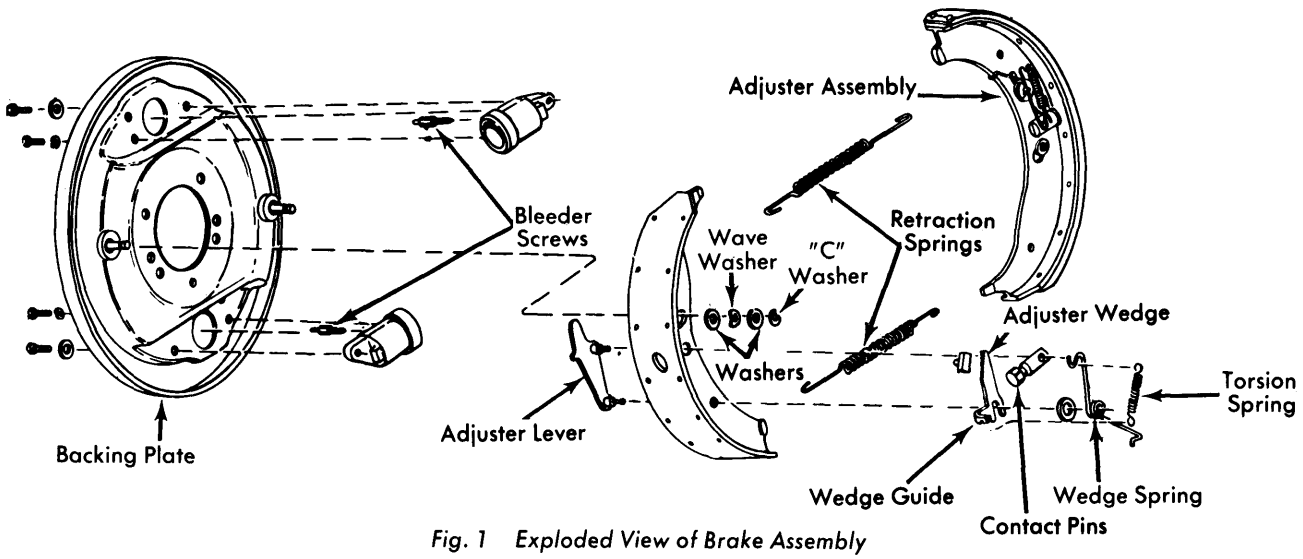

Fig. 1 Exploded View of Brake Assembly