

## SPECIAL EQUIPMENT

### GENERAL

Special equipment, available for Jeep vehicles, is designed to provide extra versatility for all models. The service procedures outlined in this section cover only the most commonly ordered equipment.

### SELECTIVE DRIVE HUBS

Selective drive hubs are used to disengage the front axles from the power train when the vehicle is in two-wheel drive. These hubs must not be used on vehicles equipped with Quadra-Trac. It is advisable to engage hubs at least five miles per month to circulate lubricant in front axle.

#### Removal - CJ Models

(1) Remove allen head screws attaching clutch assembly to hub body assembly and pull off clutch assembly.

(2) Remove retaining ring from end of axle shaft (fig. 21-1).

(3) Bend up lock tabs and remove screws attaching hub body assembly to front hub and remove hub body assembly.

#### Clutch Assembly Overhaul (Automatic Hubs)

(1) Insert punch and push out control dial.

(2) Turn unit over and push out clutch ring and disc.

(3) Clean and inspect all parts for damage. Replace U-ring and O-ring seals on control dial.

(4) Lubricate clutch cap and install control dial assembly. Lubricate O-ring and inside of cap.

(5) Install disc.

(6) Turn control dial to FREE position. Install clutch ring and thread to bottom.

(7) Turn back until holes align and install in body assembly. Turn control dial from FREE to LOCK and check for function.

#### Body Assembly Overhaul

(1) Remove friction shoe spring.

(2) Remove retaining ring and separate hub body from roller clutch.

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(3) Remove centering spring.

(4) Remove Spirolock ring. Cage and axle shaft hub will separate.

(5) Clean and inspect all parts and coat lightly with chassis lube.

(6) Install friction shoe on cage carefully to avoid stretching.

(7) Lubricate friction shoes liberally with chassis lube before installation.

#### Installation

(1) Position gasket and body assembly on wheel hub.

(2) Install tab lockwashers and screws. Tighten screws to 40 to 45 foot-pounds and bend up lockwasher tab.

(3) Install retaining ring on end of axle shaft.

(4) Place gasket and cap assembly on body assembly, install allen head screws and torque to 6 to 8 foot-pounds.

#### Removal - Cherokee and Truck

(1) Remove six allen screws attaching clutch assembly to body and remove clutch assembly.

(2) Remove capscrew, lockwasher, and stop-ring in end of axle.

(3) Remove retaining ring and slide off body assembly.

#### Overhaul - Clutch Assembly (Automatic Hubs)

(1) Remove screw.

(2) Insert punch and push out control dial. Turn assembly over and push out clutch and clutch screw (fig. 21-2).

(3) Clean and inspect all parts for damage. Replace U-ring and O-ring seals on control dial.

(4) Lubricate clutch ring. Thread clutch screw into clutch ring until ring raises slightly.

(6) Install screw and stake it when tight.

(7) If new parts are to be used, drill a 3/16-inch diameter hole through clutch screw into thick web on control dial 5/8-inch deep. Install pin and stake in place.

(8) Turn control dial from FREE to LOCK and check for function.

**NOTE:** *Do not pack with grease.*

#### Body Overhaul

(1) Remove friction shoe spring (fig. 21-2).

(2) With small screwdriver, remove retaining ring.

(3) Clean and inspect all parts

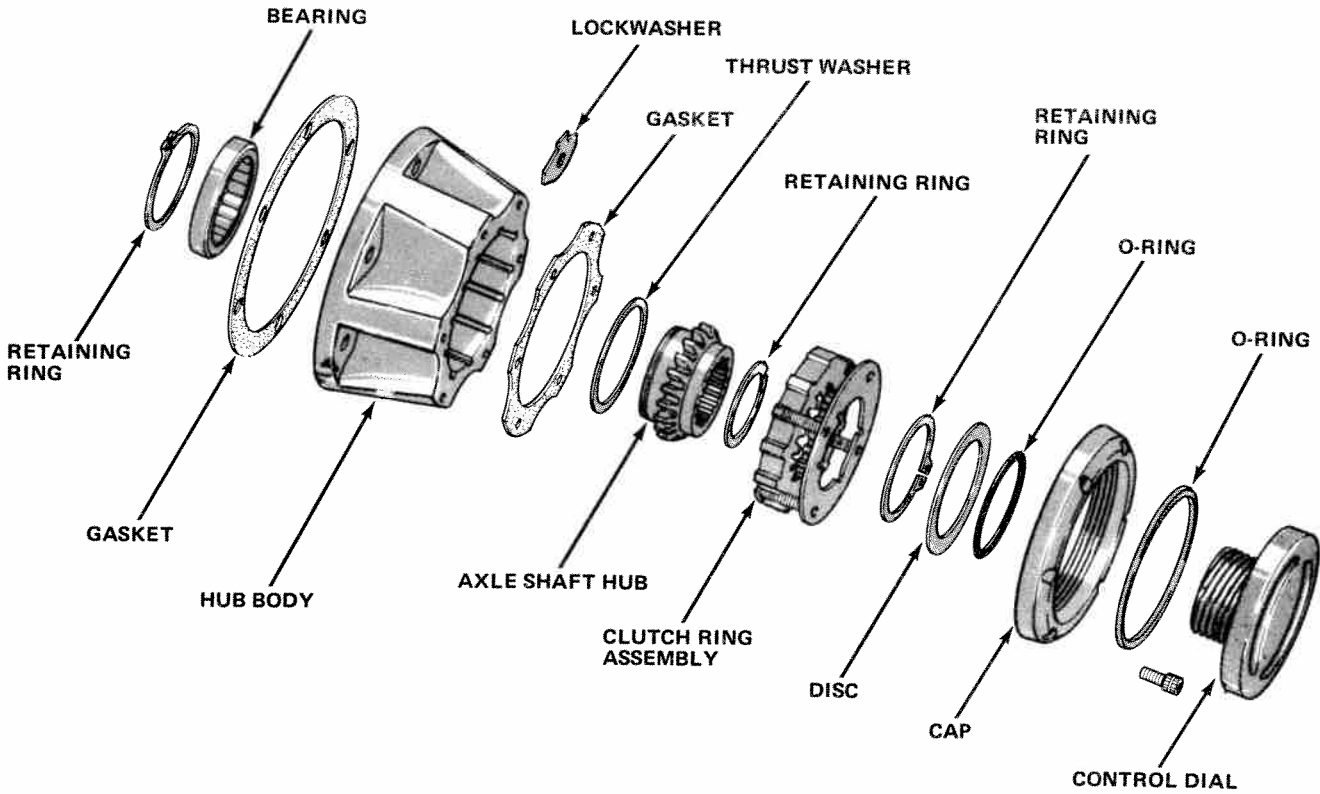
(4) Coat bearing race lightly with chassis lube.

(5) Place cage into body and pack rollers with chassis lube.

(6) Carefully place body over axle shaft hub.

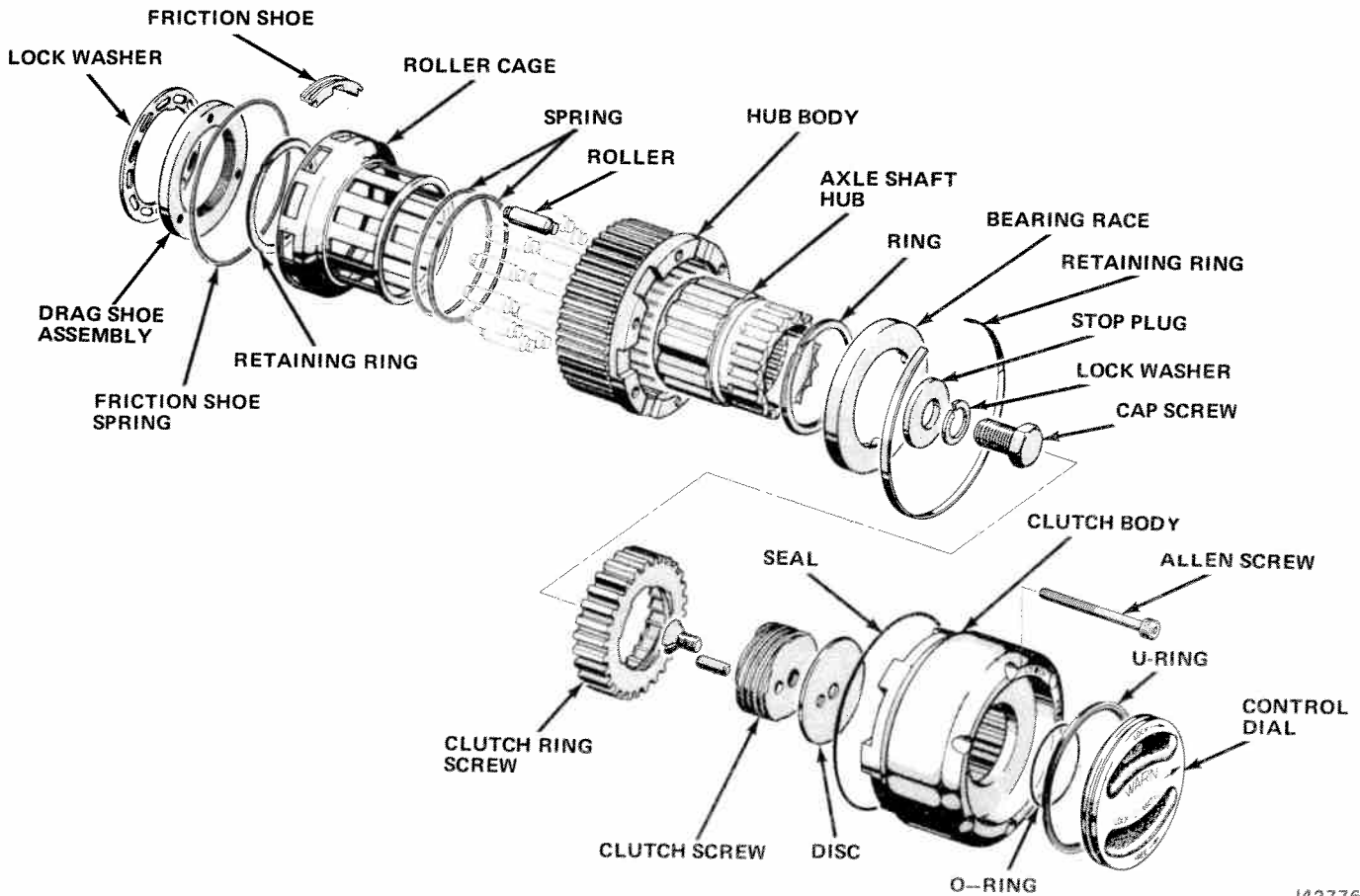
(7) Replace retaining ring (fig. 21-2).

(8) Carefully install friction shoe spring and lubricate friction shoes liberally with chassis lube.



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Fig. 21-1 Manual Hub - CJ Models



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Fig. 21-2 Automatic Hub - Cherokee - Truck

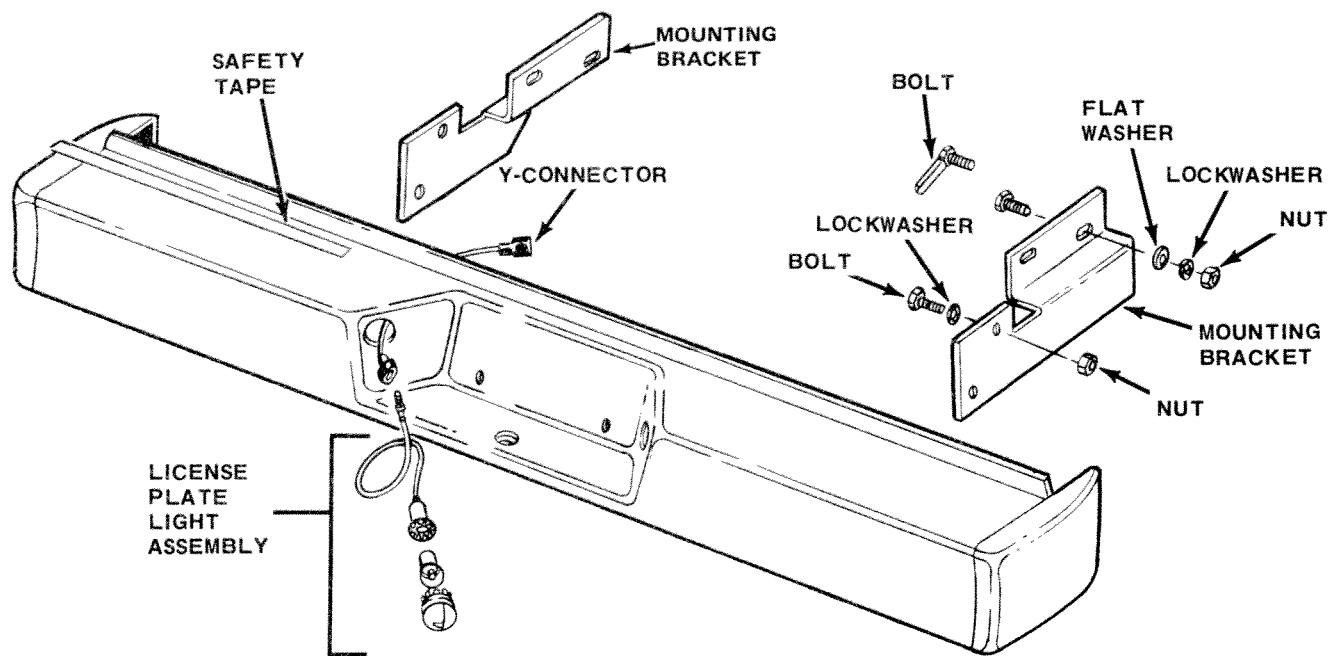


Fig. 21-3 Rear Step Bumper - Typical

**Installation**

(1) Slide body assembly into vehicle hub.

**NOTE:** The body assembly will stop about 1/4 inch from full in position. Push to expand friction shoes over drag shoe nut and allow body to slide to full in position.

(2) Install retaining ring to hold body assembly in vehicle hub.

(3) Install screw, lockwasher, and stop ring in end of axle and tighten to 35 to 40 foot-pounds torque.

(4) Install clutch assembly to body assembly with allen screws and tighten to 4 to 6 foot-pounds torque.

(5) Rotate wheel to check for free movement.

**REAR STEP BUMPER**

Rear step bumpers provide extra body protection and hitch attachment. All step bumpers are similar in construction and design, and will accommodate a long-shank, ball type hitch for towing purposes.

Typical bumper attaching hardware is shown in figure 21-3.

**PINTLE HOOK**

The standard type pintle hook affords a safe, easy-to-use device for towing a trailer or other vehicle. A safety latch locks the hook in the closed position, and two eyebolts are provided for attachment of safety chains. The safety chains should be crossed when installed to prevent the hooks from jumping out of the eyes. Attaching hardware is shown in figure 21-4.

**DRAWBAR**

The drawbar attaches to the rear frame crossmember. A reinforcement channel is mounted inside the rear crossmember to provide added strength. Typical drawbar attachment is shown in figure 21-5.

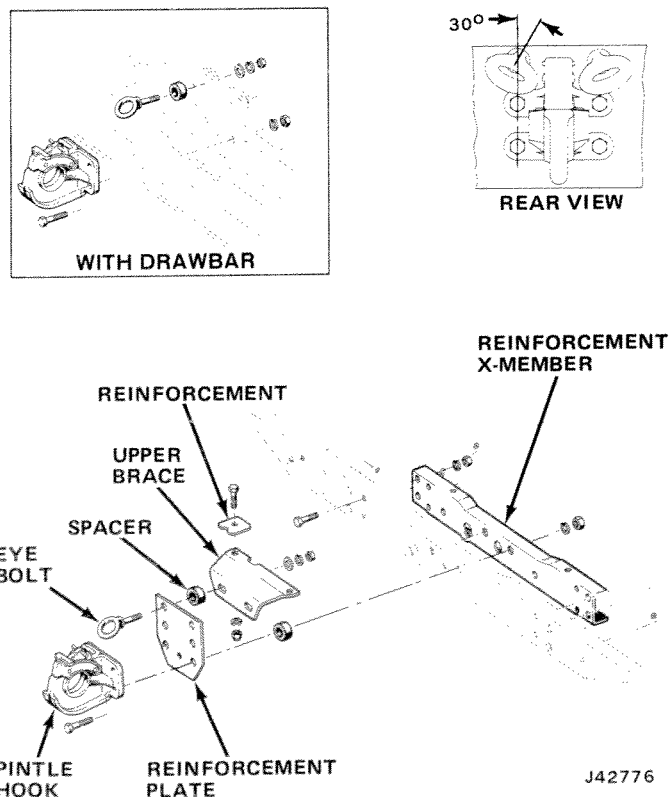


Fig. 21-4 Pintle hook

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