

**International**  
**383/483 Tractors**  
**Chassis**  
**Service Manual**

1982



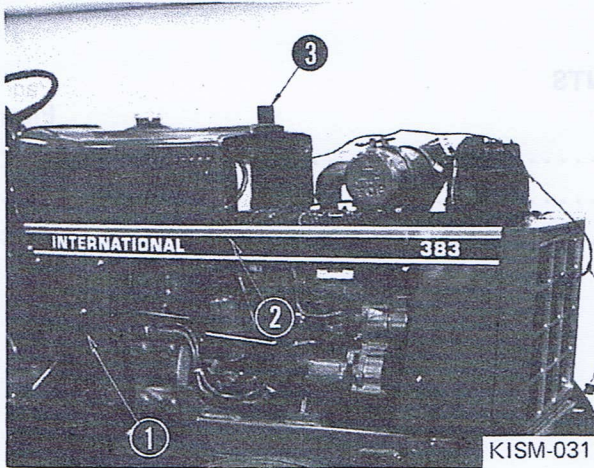
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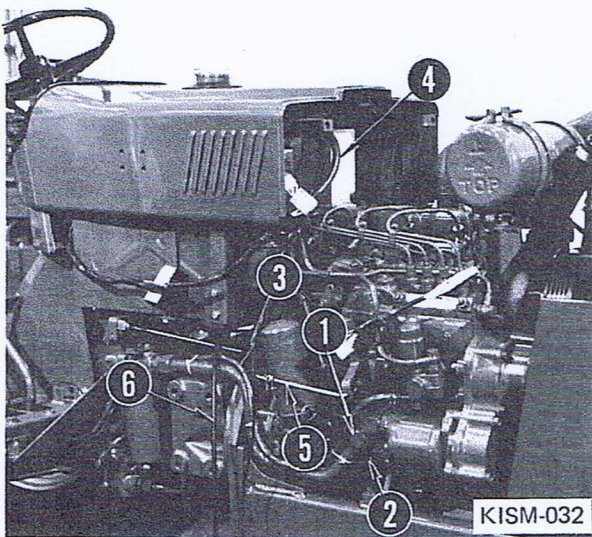


## FRONT SECTION SPLIT



1. Side skirt
2. Side stay
3. Exhaust pipe

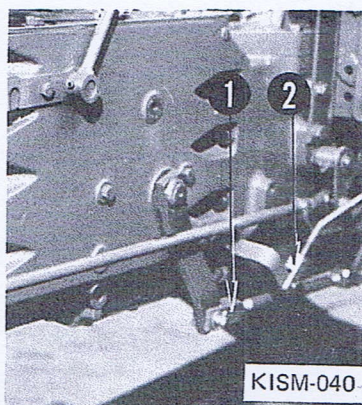
1. Close the fuel shut-off valve and disconnect the battery earth cable at the battery terminal.
2. Disconnect the electrical wirings at the connectors. And disconnect the wirings at the startor motor.
3. Remove the muffler. Then, remove the front hood by removing the hinge bolts.
4. Remove the side skirts and side stays, by removing the flange bolts.



1. Hydraulic suction tube
2. Hydraulic pressure tube
3. Fuel supply tube
4. Fuel return tube
5. Throttle linkage
6. Tachometer cable

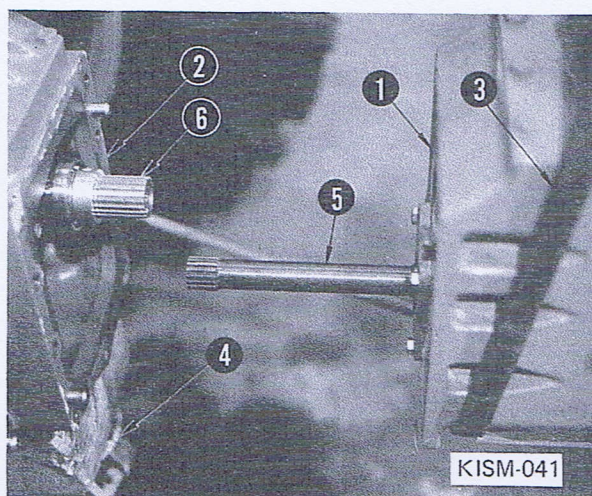
5. Remove the exhaust pipe.
6. Disconnect the tachometer cable throttle linkage and fuel shut-off cable at the front.
7. Remove the hydraulic suction tube and pressure tube. Then, disconnect the power steering tubes.
8. Disconnect fuel supply tube and fuel return tube.





3. Disconnect the linkage of I.P.T.O. clutch lever and P.T.O. shift lever.

- |                                  |
|----------------------------------|
| 1. I.P.T.O. clutch lever linkage |
| 2. P.T.O. shift lever linkage    |



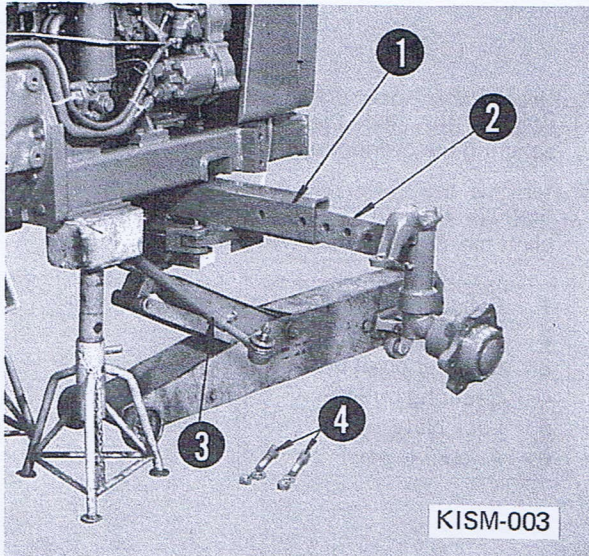
4. Support the rear frame using a hydraulic floor jack and lift the range transmission housing using a sling.

5. Remove the bolts securing the range transmission housing to the rear frame and remove the range transmission housing.

- |  |
|--|
| 1. Range transmission housing                                |
| 2. Rear frame  |
| 3. Sling   |
| 4. Hydraulic floor jack                                      |
| 5. Transmission output shaft (connected to the bevel pinion) |
| 6. P.T.O. drive shaft  |



## Installation



- |    |                 |
|----|-----------------|
| 1. | Axle center     |
| 2. | Axle extension  |
| 3. | Tie-rod         |
| 4. | Extension bolts |

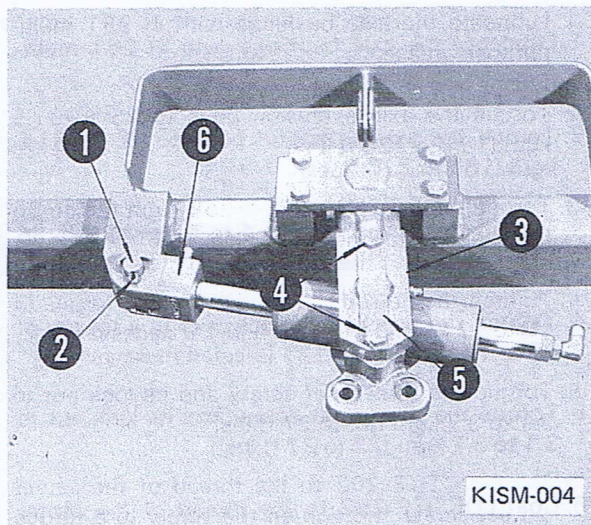
Installation of the front axle assembly is the reverse order of the removal procedure except as follows.

1. Lubricate the axle bushings with IH 251 multi-purpose grease.
2. Torque the axle extension bolts to 25 to 31.5 kgm (181 to 228 ft.lbs).
3. Torque the tie-rod bolts to 4 to 5 kgm (29 to 36 ft.lbs) and install the cotter pins.
4. Tighten the tie-rod tube lock nuts to a torque of 13 to 17 kgm (94 to 123 ft.lbs), if necessary.
5. Torque the thread set screw and its lock nut to 3.1 to 3.7 kgm (22 to 27 ft.lbs).
6. Coat LOCTITE 262 to the thread of the center pin set screw and tighten the screw to a torque of 6 to 7.5 kgm (43 to 54 ft.lbs).



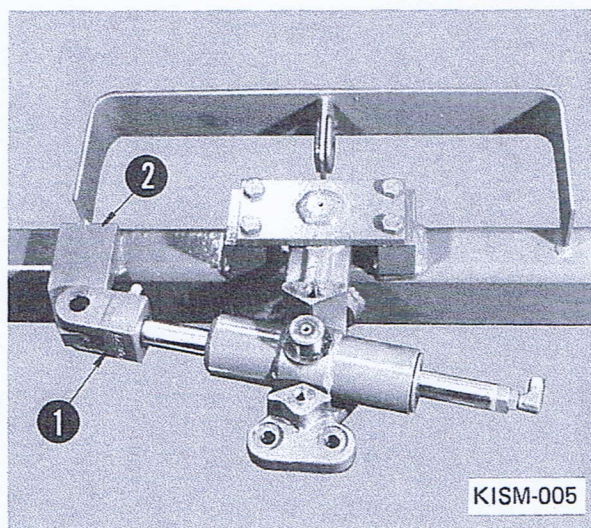
## STEERING CYLINDER

### Removal



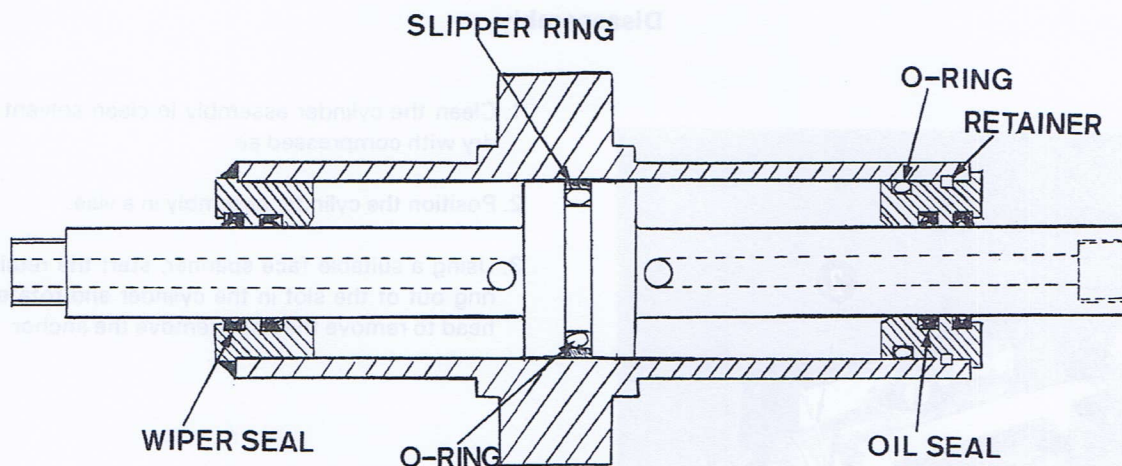
1. Release the lock plate and remove the bolts securing the cylinder pivot bracket.
2. Remove the cotter pin from the cylinder block pivot pin. Remove the pivot pin.

- |    |                          |
|----|--------------------------|
| 1. | Cylinder block pivot pin |
| 2. | Cotter pin               |
| 3. | Cylinder pivot bracket   |
| 4. | Securing bolts           |
| 5. | Lock plate               |
| 6. | Anchor (clevis)          |



3. Move the cylinder to clear the anchor from the axle mounting bracket. Remove the cylinder assembly.

- |    |                  |
|----|------------------|
| 1. | Anchor           |
| 2. | Mounting bracket |



5. Remove piston rod wiper, back-up washer and O-ring from the head if necessary.

### Inspection

Before inspecting the individual parts of the cylinder, all parts should be thoroughly washed in a clean solvent and blown dry.

1. Carefully check the cylinder bore for scratches or grooves. Very slight shallow scratches can be polished out with emery cloth and oil so that a smooth surface is presented to the piston rings and seal. Use a rotary motion when polishing. Never stroke the emery lengthwise through the tube. Deeper scores or grooves will require replacement of the cylinder tube.

2. Inspect the cylinder bore for roundness throughout its length. If a tight spot is noticed while removing the piston, the area of binding should be given particular attention. A tube that is out of round should be replaced.

3. Inspect the piston for deep scratches and wear around the outer edge.

**NOTE:** The piston and rod can be serviced only as an assembly.

4. Use new O-rings and piston rod wipers in the cylinder heads.



# RAISE

Fold out 5

- High pressure
- Low pressure
- Power steering flow

