

Fig. 7 — Steering Control Valve

- |                |                    |
|----------------|--------------------|
| 1. Drive Screw | 8. Spool           |
| 2. Cap         | 9. "O"-Ring        |
| 3. Seat Seal   | 10. Washer         |
| 4. "O"-Ring    | 11. Spring         |
| 5. Bolt        | 12. Retaining Ring |
| 6. Valve Body  | 13. "O"-Ring       |
| 7. Seal        | 14. Lock           |

#### Control Valve Disassembly — Fig. 7

1. Place cylinder assembly in a holding fixture. Pull out on valve spool to align a hole in spool with pressure port in housing. Insert a small punch through pressure port and hole in spool.
2. Remove valve linkage end, No. 14, by unscrewing it from spool. Remove punch.
3. Remove drive screws, No. 1, and remove cap. Valve spool can now be pushed out of housing.
4. Remove oil seal retaining ring and spring from housing.
5. Remove "O"-rings, Nos. 4, 9 and 13.

#### Control Valve Reassembly — Fig. 7

1. Install "O"-ring, No. 4, into valve body and "O"-rings, Nos. 9 and 13, on valve spool.
2. Place washers and spring on spool and install linkage end, No. 14. Tighten securely.
3. Lubricate spool and install into housing from linkage end. Secure in place with retaining ring, No. 12.
4. Install new oil seal, No. 7.
5. Install seal and cap, No. 2.

*NOTE: Drive screw may have broken off during removal. If so, re-drill new holes and install new screw.*

#### Cylinder Disassembly — Fig. 8

1. Place cylinder in a holding fixture and remove retaining bolts.
2. Remove valve body end cap, No. 3, with spring and oil tube, No. 8.
3. Pull piston assembly out of tube and remove piston tube from end cap.

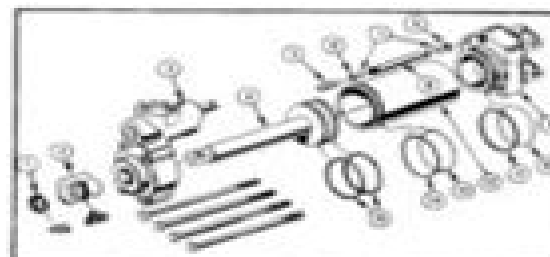


Fig. 8 — Steering Cylinder

- |                    |                    |
|--------------------|--------------------|
| 1. Seal            | 8. Tube            |
| 2. Seal            | 9. End Cap         |
| 3. Valve Body      | 10. Back-Up Washer |
| 4. Piston Assembly | 11. Seal Washers   |
| 5. Spring          | 12. Tube           |
| 6. "O"-Ring        | 13. Back-Up Washer |
| 7. Back-Up Washer  | 14. Seal Washers   |
|                    | 15. Piston Rings   |

#### Cylinder Reassembly — Fig. 8

1. Replace all "O"-rings, back-up washers and seals.
2. Lubricate and install back-up washer, No. 10, and "O"-ring, No. 11, onto cylinder end cap, No. 9.
3. Install back-up washer, No. 13, and "O"-ring, No. 14, onto piston tube, No. 12.
4. Install back-up washer, No. 7, and "O"-ring, No. 6, onto each end of oil tube, No. 8.
5. Install "T"-ring, No. 2, and dust seal, No. 1, into valve body end cap, No. 3.
6. Lubricate seals and insert piston tube into end cap, No. 3.
7. Lubricate piston rings and rod and very carefully insert into piston tube and end cap.

*NOTE: Piston rings must be compressed before piston will enter tube.*

8. Place spring, No. 5, into valve body end cap and insert oil tube, No. 8.
9. Install end cap, No. 9, and secure assembly together with bolts tightened evenly to 8-12 ft.-lb. torque.

### PEDESTAL SHAFT

#### Removal

1. Remove cylinder and valve assembly.
2. Disconnect tie rods and remove shaft from axle support.
3. If bushings in axle support require replacement, press out old bushings and press in new bushings with open end of oil grooves facing each other. Line rear bushings to 1.8760"-1.8760".

*NOTE: An adjustable reamer supplied by Nudac Tool Company (Part No. M-178-114-IP-M) is suitable for this operation.*

# Massey Ferguson 31shop Manual

**R Sanford**



**Massey Ferguson 31shop Manual:**

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Massey Ferguson 31shop Manual**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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