



Fig. 9—Install the right pinion with first tooth (10) aligned with first valley (15) on the other pinion.

POWER ASSIST STEERING SYSTEM

This section covers the power steering system available on Models MF230, MF235 (except Orchard), MF240, MF245 Vineyard and MF250.

LUBRICATION AND BLEEDING

All Models So Equipped

6. Recommended oil for power steering systems is Massey-Ferguson Permatran III Oil. Check power steering reservoir oil level with engine running after all air is bled from system. Power steering system capacity is approximately 0.95 L (1 U.S. quart).

Air can be bled from power steering system by running engine and cycling steering from full left to full right, then back to full left several times. Repeat until there are no air bubbles present in oil reservoir. Make certain oil level is maintained during bleeding process to avoid starving the pump of oil.

SYSTEM OPERATING PRESSURE AND RELIEF VALVE

All Models So Equipped

7. A pressure test of steering hydraulic system will disclose whether the pump relief valve or some other unit in the system is malfunctioning. To check relief pressure, install a "T" fitting at pump pressure port, reattach pressure hose to one port of "T" and a 20000 kPa (3000 psi) pressure gage to the other port. Start engine and operate at 2000 rpm. Turn steering wheel to full turn in either direction and observe gage pressure reading. Normal relief pressure is approximately 8300 kPa (1200 psi).

The relief valve on models equipped with gasoline engine is adjusted after

backlash is eliminated, then tighten the four housing retaining screws. Rotate the right pinion housing (4R) counter-clockwise until all backlash is removed from the right pitman shaft, then tighten the four retaining screws. Check for correct assembly by locating the center (straight ahead) position of the steering shaft (20). With steering shaft straight ahead, the blank splines on both pitman shafts (10 and 15) should be vertical. The small flat mounting boss at rear of steering gear housing will also be vertical when installed on tractor. Fill steering gear housing to level of plug (25) with SAE 90 gear oil.

removing reservoir (27—Fig. 11) and turning screw (24). The relief valve on models equipped after removing reservoir (27—Fig. 10) and turning adjusting screw (24). One full turn of relief valve screw should change pressure approximately 2100 kPa (300 psi) on Models MF230, MF235 and MF245. On Models MF240 and MF250, a pressure change of approximately 3100 kPa (450 psi) should result from one turn of adjusting screw.

Reinstall reservoir, refill with oil and recheck pressure after changing relief valve setting.

POWER STEERING PUMP

The pump shown in exploded view Fig. 10 is used on diesel models; the pump in Fig. 11 on gasoline models. Refer to the appropriate following paragraphs for service.

All Models

8. REMOVE AND REINSTALL. Clean the area thoroughly before disconnecting any lines. Disconnect lines, remove mounting screws and withdraw pump.

When reinstalling, tighten retaining bolts to 27 N · m (20 ft. lbs.) torque. Refill reservoir with fluid and bleed air from system as outlined in paragraph 6.

Diesel Models

9. OVERHAUL. Mark the pump housing (18—Fig. 10) and reservoir (27) before removing reservoir. Filter (16) can be removed after reservoir. Remove nut, gear (1), key and spacer (2). Establish the setting of the relief valve plug (24) before removing the plug. Remove the screws attaching body (17) and shield (20) to the housing (18). Remove gears (10 and 11), Woodruff key (6), idler shaft (13) and pin

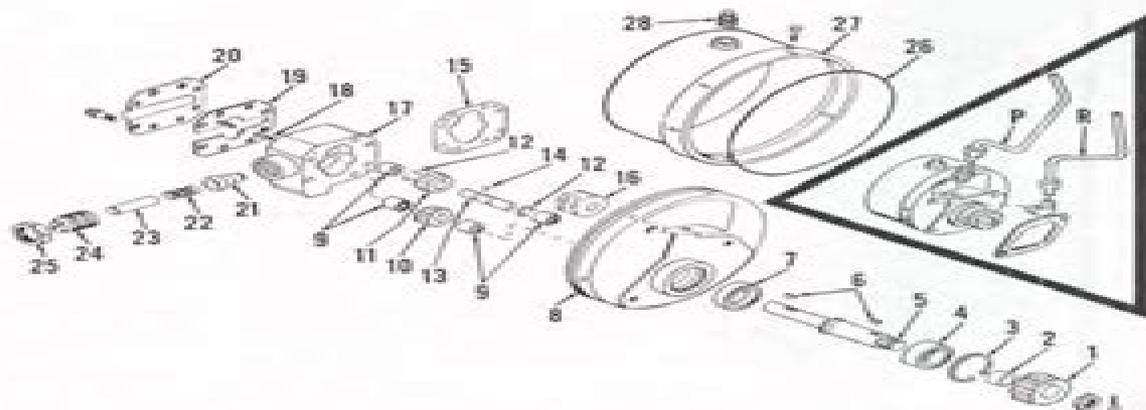


Fig. 10—Exploded view of power steering pump used on Models MF230, MF235 and MF245 equipped with diesel engine. Pump used on Models MF240 and MF250 is similar except dual springs are used on relief valve and spring guide pin (22) is not used. Inset shows location of pressure line (P) and return line (R).

- | | | | |
|-----------------|--------------------|--------------------|---------------------------|
| 1. Gear | 8. Housing | 15. Pin | 22. Spring |
| 2. Spacer | 9. Needle bearings | 16. Filter | 23. Pin |
| 3. Snap ring | 10. Drive gear | 17. Body | 24. Relief adjusting plug |
| 4. Bearing | 11. Drive gear | 18. Cover plate | 25. Nut |
| 5. Shaft | 12. Ring | 19. Coupler | 26. "O" ring |
| 6. Woodruff key | 13. Idler shaft | 20. Shield | 27. Reservoir |
| 7. Seal | 14. Pin | 21. Relief plunger | 28. Pin |

Mf230 Service Manual

Penton Staff



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Table of Contents Mf230 Service Manual

1. Understanding the eBook Mf230 Service Manual
 - The Rise of Digital Reading Mf230 Service Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Mf230 Service Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mf230 Service Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mf230 Service Manual
 - Personalized Recommendations

- Mf230 Service Manual User Reviews and Ratings
- Mf230 Service Manual and Bestseller Lists
- 5. Accessing Mf230 Service Manual Free and Paid eBooks
 - Mf230 Service Manual Public Domain eBooks
 - Mf230 Service Manual eBook Subscription Services
 - Mf230 Service Manual Budget-Friendly Options
- 6. Navigating Mf230 Service Manual eBook Formats
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 - Adjustable Fonts and Text Sizes of Mf230 Service Manual
 - Highlighting and Note-Taking Mf230 Service Manual
 - Interactive Elements Mf230 Service Manual
- 8. Staying Engaged with Mf230 Service Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mf230 Service Manual
- 9. Balancing eBooks and Physical Books Mf230 Service Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mf230 Service Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mf230 Service Manual
 - Setting Reading Goals Mf230 Service Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mf230 Service Manual
 - Fact-Checking eBook Content of Mf230 Service Manual

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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klasifikasi pteridophyta ciri jenis dan manfaatnya sebagai - Oct 11 2022

web feb 7 2023 pteridophyta adalah klasifikasi dari tanaman paku simak ciri jenis dan manfaatnya dalam artikel berikut ini tumbuhan paku dapat dikenali dari daunnya yang rimbun dan mudah ditemukan pada wilayah beriklim sejuk tumbuhan paku yang hidup pada masa kini merupakan keturunan dari paku purba

klasifikasi tumbuhan paku pengertian ciri habitatnya - Jul 20 2023

web nov 3 2023 klasifikasi tumbuhan paku dibagi menjadi 4 subdivisi yaitu psilopsida lycophyta sphenophyta dan pterophyta paku purba psilopsida tumbuhan paku purba yang masih hidup saat ini diperkirakan hanya tinggal 10 spesies sampai 13 spesies dari dua genus paku purba hidup di daerah tropis dan subtropis