

Fiat 680 Tractor Workshop Manual

Fiat Trattori
580 - 680

SPECIFICATION

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page 1

IDENTIFICATION DATA

Marketing Code	580 580 DT	680 680 DT
— Rear wheel drive (RWD)		
— Four wheel drive		
Engineering code:		
— 8-speed, rear wheel drive	661.100.000	662.100.000
— 12-speed, rear wheel drive	661.100.000 Var. 720.286.080	662.100.000 Var. 720.286.090 ¹⁾
— 16-speed, rear wheel drive	661.100.000 Var. 720.111.170	662.100.000 Var. 720.111.170 ¹⁾
— 8-speed, rear wheel drive with reverser	661.100.000 Var. 700.109.030	662.100.000 Var. 700.109.010
— 8-speed, four wheel drive	661.127.000	662.127.000
— 12-speed, four wheel drive	661.127.000 Var. 720.286.080	662.127.000 Var. 720.286.090 ¹⁾
— 16-speed, four wheel drive	661.127.000 Var. 720.111.170	662.127.000 Var. 720.111.170 ¹⁾
— 8-speed, four wheel drive with reverser	661.127.000 Var. 700.109.030	662.127.000 Var. 700.109.010
Engine type (all versions)	— FIAT 8035 (4.370 ¹⁾ / 377 ²⁾ (C.A.V. pump)	FIAT 8045 (2.270 ¹⁾ / 277 ²⁾ (BOSCH pump) FIAT 8045 (2.370 ¹⁾ / 377 ²⁾ (C.A.V. pump)
WEIGHTS (8-speed version)		
Operating weight (including lift, im- plement attachment, swinging drawbar and ROP frame)	mod. 580 kg 2335 (5149 lb) mod. 580 DT + 2651 (5766 lb) mod. 680 + — mod. 680 DT + —	— — 2500 (5513 lb) 2800 (6174 lb)

¹⁾ Engine with FERODO clutch. ²⁾ Engine with LUK or O.M.G. clutch. ³⁾ 680H (see page 9). ⁴⁾ 680H DT (see page 9).

8391

8390

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Fiat 680 Tractor Workshop Manual

The Fiat 680 tractor has gained a reputation for being a reliable workhorse in various agricultural and industrial applications. As with any piece of machinery, proper maintenance and repair are crucial to ensure optimal performance and longevity. The Fiat 680 tractor workshop manual serves as an invaluable resource for both experienced mechanics and novice operators. This comprehensive guide outlines the essential features, maintenance procedures, troubleshooting techniques, and repair instructions necessary for keeping the Fiat 680 in peak condition.

Overview of the Fiat 680 Tractor

The Fiat 680 is a versatile tractor that was designed and manufactured by Fiat Trattori, a division of the Fiat Group. Introduced in the 1970s, the Fiat 680 is equipped with a robust engine and offers excellent power-to-weight ratios, making it suitable for various farming tasks, such as plowing, tilling, and hauling.

Key Specifications

- Engine Type: Diesel, four-stroke
- Engine Power: Approximately 68 horsepower
- Cylinders: 4
- Transmission: 8 forward and 2 reverse gears
- Weight: Approximately 2,400 kg
- Towing Capacity: Capable of towing various implements, depending on configuration

Importance of a Workshop Manual

A workshop manual for the Fiat 680 tractor is essential for several reasons, including:

1. Detailed Information: The manual provides in-depth specifications, diagrams, and step-by-step instructions for maintenance and repairs.
2. Troubleshooting Guidance: Operators can quickly identify problems through systematic troubleshooting procedures.
3. Safety Protocols: Safety guidelines help prevent accidents and injuries during maintenance and operation.
4. Enhanced Lifespan: Regular maintenance, as outlined in the manual, contributes to the longevity of the tractor and its components.

Maintenance Procedures

Regular maintenance is key to ensuring the Fiat 680 operates efficiently. The workshop manual includes a comprehensive maintenance schedule that indicates when and how to perform essential tasks.

Daily Maintenance Checks

Each day before use, operators should consider the following:

- Fluid Levels: Check oil, coolant, and hydraulic fluid levels.
- Tire Pressure: Inspect tire pressure and condition.
- Lights and Signals: Ensure that all lights and signals are functioning.
- Belts and Hoses: Look for signs of wear or damage.
- Cleanliness: Keep the tractor clean to prevent dirt buildup, particularly around the engine and cooling systems.

Weekly Maintenance Tasks

Every week, operators should perform more extensive checks, such as:

- Oil and Filter Change: Replace oil and oil filters as per the manual's recommendations.
- Air Filter Inspection: Clean or replace the air filter to ensure optimal air intake.
- Battery Maintenance: Check battery fluid levels and clean terminals.
- Brake Check: Inspect the brake system for wear and functionality.

Seasonal Maintenance

At the beginning of each season, conduct a thorough inspection:

- Coolant System Check: Flush and refill the coolant system to prevent overheating.
- Fuel System Maintenance: Clean fuel lines and replace filters as needed.
- Hydraulic System Inspection: Check for leaks and ensure proper fluid levels in the hydraulic system.
- Wheel Alignment: Inspect the alignment and adjust if necessary to ensure even tire wear.

Troubleshooting Common Issues

Even with regular maintenance, issues may arise. The workshop manual provides troubleshooting steps for common problems encountered with the Fiat 680 tractor.

Engine Starting Issues

If the engine does not start, consider the following:

1. Battery Condition: Check for a charged battery; replace if necessary.
2. Fuel Supply: Ensure there is adequate fuel and that the fuel lines are not clogged.

3. Starter Motor: Test the starter motor for functionality, replacing it if faulty.

Hydraulic System Problems

Common issues with the hydraulic system may include:

- Insufficient Power: Check hydraulic fluid levels and look for leaks in the system.
- Slow Response: Inspect the hydraulic filter and replace it if clogged.
- Noisy Operation: Look for air in the hydraulic lines, which may need to be bled.

Repair Instructions

The workshop manual includes detailed repair instructions for various components of the Fiat 680 tractor.

Engine Repairs

For engine repairs, follow these general steps:

1. Remove Engine Covers: Carefully remove any covers or panels that obstruct access to the engine.
2. Inspect Components: Check for worn parts, such as gaskets, seals, and bearings.
3. Replace Parts: Use genuine Fiat parts for replacements to maintain compatibility.
4. Reassemble: Ensure all components are correctly reassembled and sealed.

Transmission Repairs

Transmission repairs may be necessary if shifting is difficult. The following steps should be taken:

1. Fluid Check: Inspect the transmission fluid level and condition.
2. Linkage Inspection: Examine the gear linkage for wear or misalignment.
3. Replace Gaskets: If leaks are present, replace gaskets and seals as needed.
4. Test Operation: After repairs, test the transmission through all gears to ensure smooth operation.

Safety Considerations

When working on the Fiat 680, safety should always be a top priority. The workshop manual emphasizes essential safety measures:

- Personal Protective Equipment (PPE): Always wear appropriate PPE, including gloves, goggles, and steel-toed boots.
- Work Area: Ensure the work area is clean, well-lit, and free from hazards.
- Proper Lifting Techniques: Use lifts or jacks when working under the tractor to avoid injury.
- Disconnect Power Sources: Always disconnect the battery before performing electrical repairs.

Conclusion

The Fiat 680 tractor workshop manual is a crucial tool for anyone looking to maintain or repair this iconic piece of machinery. By following the detailed maintenance procedures, troubleshooting tips, and repair instructions outlined in the manual, operators can ensure that their Fiat 680 remains reliable and efficient for years to come. Regular upkeep not only enhances the tractor's performance but also contributes to safety and productivity on the job. Whether you are an experienced mechanic or a first-time tractor owner, this manual is an essential resource for achieving optimal results with the Fiat 680 tractor.

Frequently Asked Questions

What is included in the Fiat 680 tractor workshop manual?

The Fiat 680 tractor workshop manual typically includes detailed sections on maintenance schedules, troubleshooting guides, repair procedures, wiring diagrams, and specifications for parts.

Where can I purchase a Fiat 680 tractor workshop manual?

You can purchase a Fiat 680 tractor workshop manual from authorized Fiat dealers, online marketplaces like eBay or Amazon, or specialized agricultural equipment websites.

Is the Fiat 680 tractor workshop manual available in digital format?

Yes, many retailers and websites offer the Fiat 680 tractor workshop manual in digital format, allowing you to download it for easy access.

How can I find troubleshooting information in the Fiat 680 tractor workshop manual?

Troubleshooting information in the Fiat 680 tractor workshop manual is usually found in a dedicated section, often organized by symptoms or specific components, making it easy to locate relevant guidance.

Are there any specific maintenance tips provided in the Fiat 680 tractor workshop manual?

Yes, the manual provides specific maintenance tips such as checking fluid levels, regular oil changes, and inspecting belts and hoses to ensure optimal performance of the Fiat 680 tractor.

Can I use the Fiat 680 tractor workshop manual for similar models?

While the Fiat 680 tractor workshop manual is specifically designed for that model, some information may be applicable to similar Fiat tractor models; however, it's best to consult the manual for the specific model for accuracy.

What tools are recommended for servicing the Fiat 680 tractor according to the workshop manual?

The workshop manual recommends basic hand tools such as wrenches, screwdrivers, pliers, and specialized tools like torque wrenches and diagnostic equipment for servicing the Fiat 680 tractor.

Is there a section on safety precautions in the Fiat 680 tractor workshop manual?

Yes, the Fiat 680 tractor workshop manual includes a section on safety precautions to ensure safe operation and maintenance practices while working on the tractor.

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