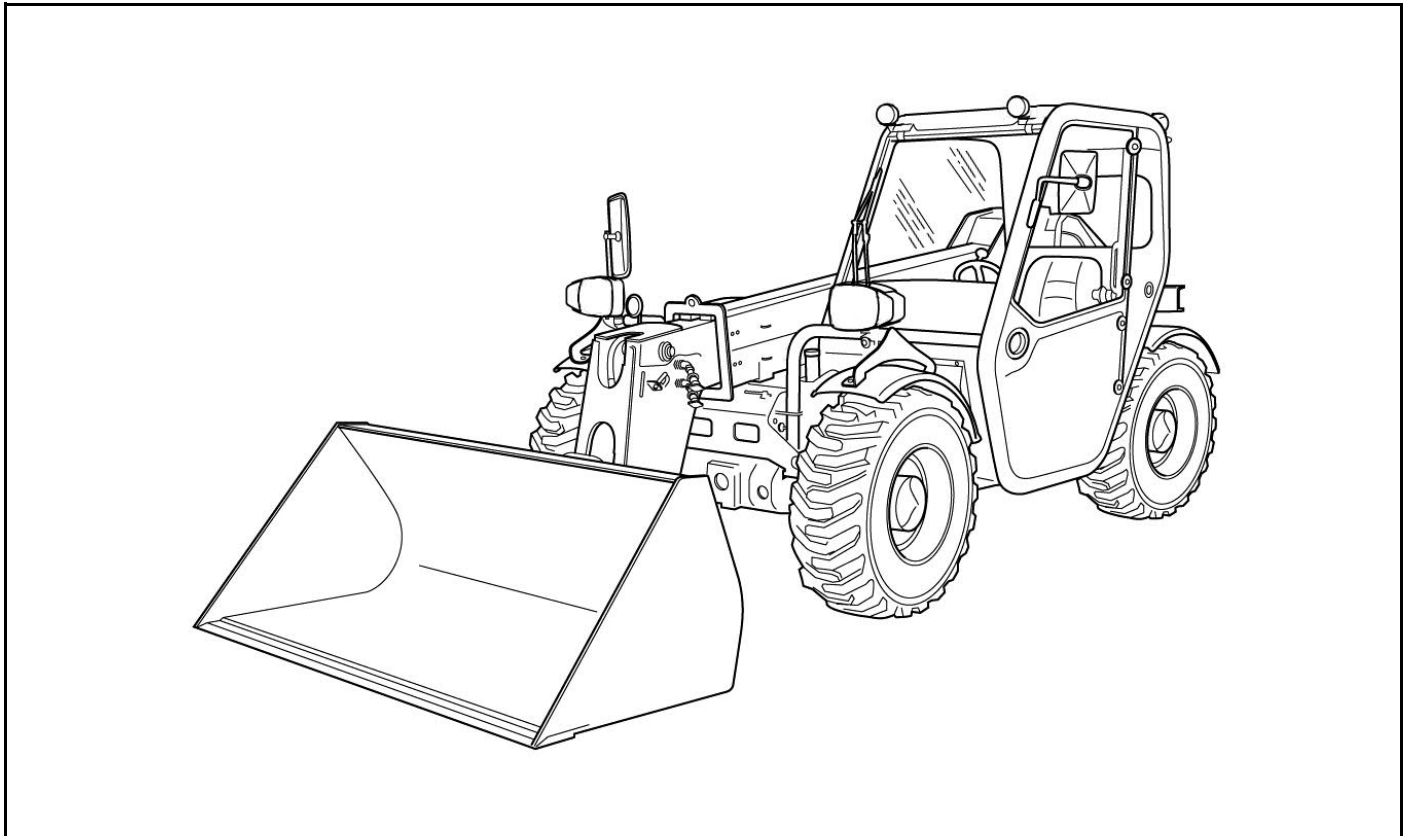


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Workshop Manual



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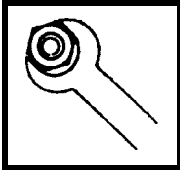
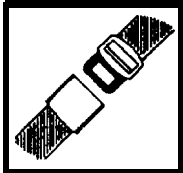


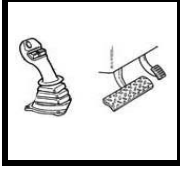

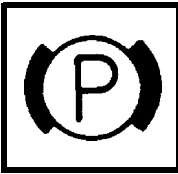
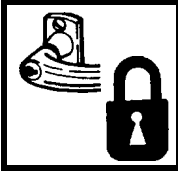
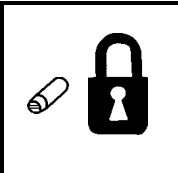
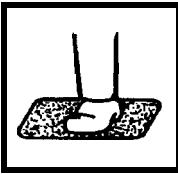
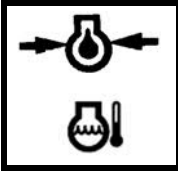
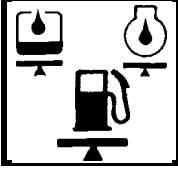

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FOREWORD

This manual is for the Massey Ferguson telescopic handler mechanic. It provides necessary servicing and adjustment procedures for the Massey Ferguson telescopic handler and its component parts and systems. Refer to the Operation & Maintenance Manual for operating instructions, starting procedure, daily checks, etc.

A general inspection of the following items must be made after the telescopic handler has had service or repair:

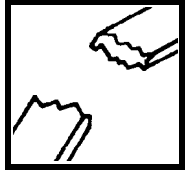
1. Check that ROPS/FOPS (including right side window) is in good condition and is not modified. 
2. Check that ROPS mounting hardware is tightened and is Massey Ferguson approved. 
3. The seat belt must be correctly installed, functional and in good condition. 
4. Check boom stop, replace if damaged. 
5. Machine signs (decals) must be legible and in the correct location. 
6. Joystick control lever and foot pedals must return to neutral. 
7. Check for correct function of the work lights. 
8. The parking brake must function correctly. 
9. Enclosure door latches must open and close freely. 
10. Attachment locking pins must function correctly and be in good condition. Bob-Tach wedges and linkages (if equipped) must function correctly and be in good condition. 
11. Safety treads must be in good condition. 
12. Check for correct function of indicator lamps and gauges. 
13. Check hydraulic fluid level, engine oil level and fuel supply. 
14. Inspect for fuel, oil or hydraulic fluid leaks. 

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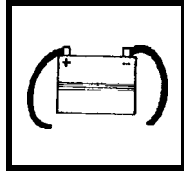
15. Lubricate the telescopic handler.



20. Inspect for loose or broken parts or connections.



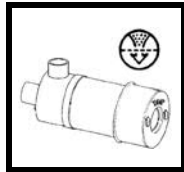
16. Check the condition of the battery and cables.



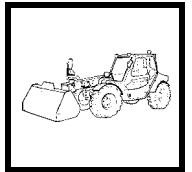
21. Check for any field modification not completed.



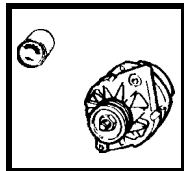
17. Inspect the air cleaner for damage or leaks. Check the condition of the element.



22. Operate the machine and check all functions.



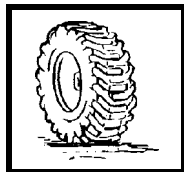
18. Check the electrical charging system.



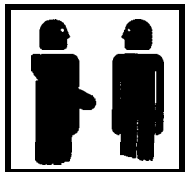
23. Check function or condition of all equipped options and accessories (examples: back-up alarm, fire extinguisher, rotating beacon, front stabilizers, etc.).



19. Check tires for wear and pressure. Use only approved tires.



24. Recommend to the owner that all necessary corrections be made before the machine is returned to service.





Cutting or drilling concrete containing sand or rock containing quartz may result in exposure to silica dust. Use a respirator, water spray or other means to control dust.



Maintenance

The machine and some attachments have components that are at high temperatures under normal operating conditions. The primary source of high temperatures is the engine and exhaust system. The electrical system, if damaged or incorrectly maintained, can be a source of arcs or sparks.

Flammable debris (leaves, straw, etc.) must be removed regularly. If flammable debris is allowed to accumulate, it can cause a fire hazard. Clean often to avoid this accumulation. Flammable debris in the engine compartment is a potential fire hazard.

The operator's area, engine compartment and engine cooling system must be inspected every day and cleaned if necessary to prevent fire hazards and overheating.

All fuels, most lubricants and some coolants mixtures are flammable. Flammable fluids that are leaking or spilled onto hot surfaces or onto electrical components can cause a fire.

Operation

Do not use the machine where exhaust, arcs, sparks or hot components can contact flammable material, explosive dust or gases.

Electrical



Check all electrical wiring and connections for damage. Keep the battery terminals clean and tight. Repair or replace any damaged part or wires that are loose or frayed.

Battery gas can explode and cause serious injury. Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting. Do not jump start or charge a frozen or damaged battery. Keep any open flames or sparks away from batteries. Do not smoke in battery charging area.

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FIRE PREVENTION (CONT'D)

Hydraulic System

Check hydraulic tubes, hoses and fittings for damage and leakage. Never use open flame or bare skin to check for leaks. Hydraulic tubes and hoses must be properly routed and have adequate support and secure clamps. Tighten or replace any parts that show leakage.

Always clean fluid spills. Do not use gasoline or diesel fuel for cleaning parts. Use commercial nonflammable solvents.

Fueling



Stop the engine and let it cool before adding fuel. No smoking! Do not refuel a machine near open flames or sparks. Fill the fuel tank outdoors.

Starting

Do not use ether or starting fluids on any engine that has glow plugs. These starting aids can cause explosion and injure you or bystanders.

Use the procedure in the Operation & Maintenance Manual for connecting the battery and for jump starting.

Spark Arrestor Exhaust System

The spark arrestor exhaust system is designed to control the emission of hot particles from the engine and exhaust system, but the muffler and the exhaust gases are still hot.

Check the spark arrestor exhaust system regularly to make sure it is maintained and working properly. Use the procedure in the Operation & Maintenance Manual for cleaning the spark arrestor muffler (if equipped).

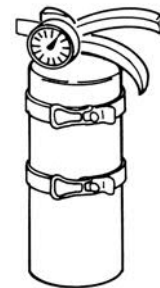
Welding And Grinding

Always clean the machine and attachment, disconnect the battery, and disconnect the wiring from the Massey Ferguson controllers before welding. Cover rubber hoses, battery and all other flammable parts. Keep a fire extinguisher near the machine when welding.

Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

Dust generated from repairing nonmetallic parts such as hoods, fenders or covers can be flammable or explosive. Repair such components in a well ventilated area away from open flames or sparks.

Fire Extinguishers



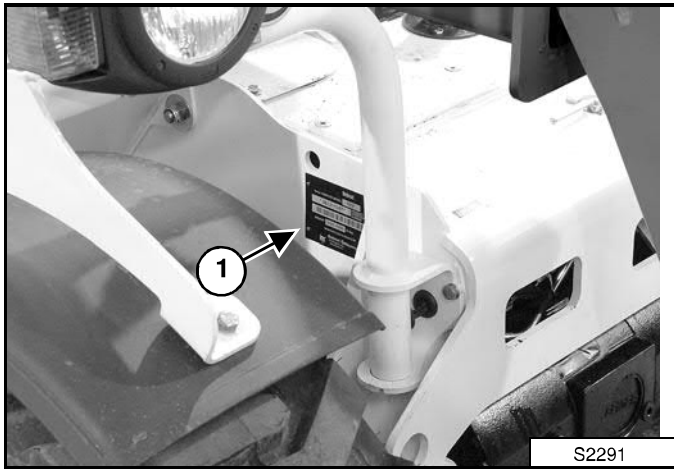
Know where fire extinguishers and first aid kits are located and how to use them. Inspect the fire extinguisher and service the fire extinguisher regularly. Obey the recommendations on the instructions plate.

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SERIAL NUMBER LOCATION

Always use the serial number of the telescopic handler when requesting service information or when ordering parts.

Figure 1-1

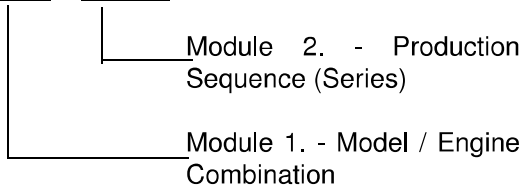


Telescopic Handler Serial Number

The telescopic handler serial number plate is located on the right side of the chassis in front [Figure 1-1].

Explanation of telescopic handler serial number:

XXXX XXXXX

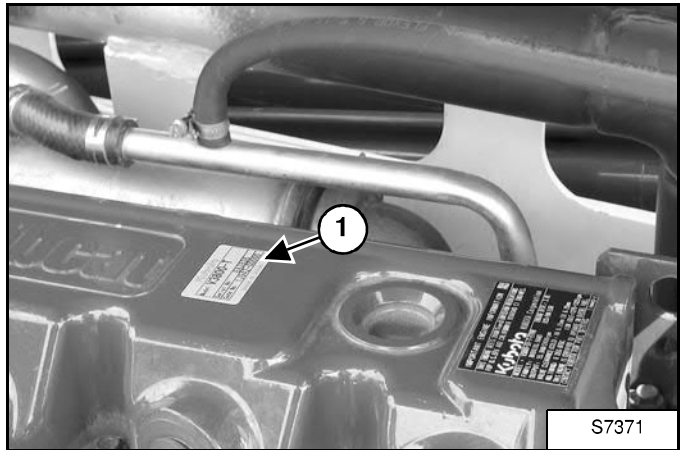


1. The four digit Model/Engine Combination Module number identifies the model number and engine combination.

2. The five digit Production Sequence Number identifies the order which the telescopic handler is produced.

Engine Serial Number

Figure 1-2



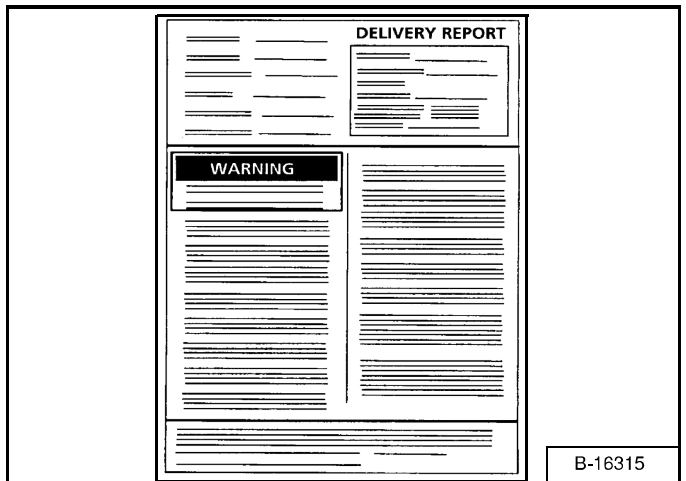
The engine serial number can be found on top of the valve cover (Item 1) [Figure 1-2]. Always use the full number when ordering replacement parts.

Other Serial Numbers

Other components may also have serial numbers and an identification plate. Always use these serial numbers when ordering parts.

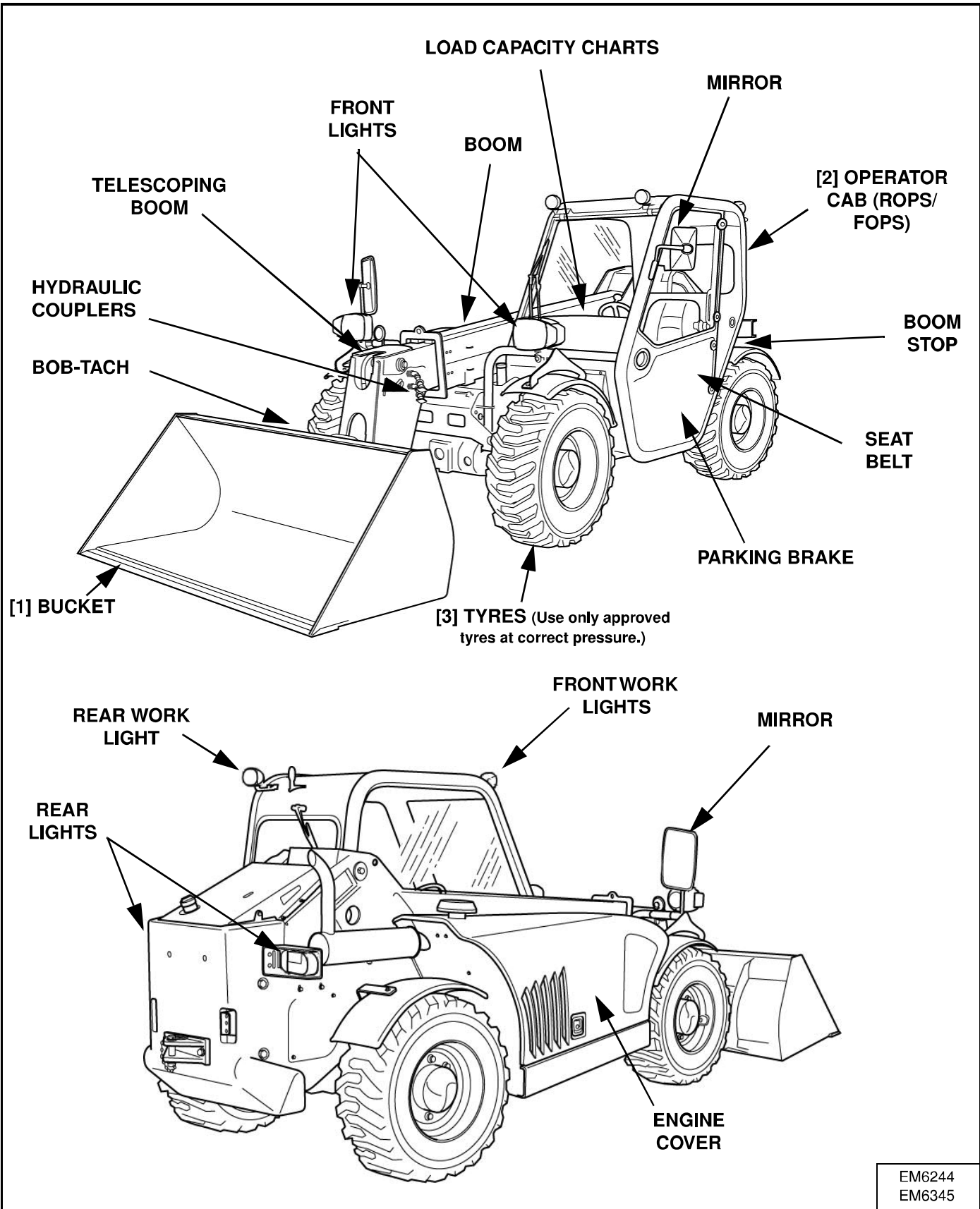
DELIVERY REPORT

Figure 1-3



The delivery report must be completed by the dealer and signed by the owner or operator when the Massey Ferguson telescopic handler is delivered. An explanation of the form must be given to the owner. Make sure it is complete [Figure 1-3].

MASSEY FERGUSON TELESCOPIC HANDLER IDENTIFICATION





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