744
944
1155

TELEHANDLER

with TIER III Engine

744: SN 20132 to 20224
944: SN 30083 to 30165
1155: SN 40070 to 40152

OPERATOR'S MANUAL

PART #913290

Revision B - August 2008

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Mustang 744, 944 and 1155 Telehandler Operator Manual (913290B)

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Machine: Telehandler

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Sample pages follow. Full manual: machinecatalogic.com

cooling system.

E - Alternator Lamp: This lamp indicates the condition of the electrical charging system. During normal operation, this lamp should be off. If the charge rate is too high or too low, this lamp will come on.

F - Air Cleaner Restriction Lamp: If this lamp comes on, the air cleaner should be checked for a clogged inlet or filter element.

G - Transmission Oil Temperature Lamp: This lamp indicates whether the transmission oil is at the proper temperature. During normal operation this lamp should be off.

IMPORTANT: *If the temperature lamp comes on during normal operation, a problem may exist in the transmission system. Stop the machine as soon as possible and investigate the cause of the problem!*

H - Accumulator Charge Lamp: When the operating pressure is too low, this lamp will come on. A low pressure indication requires recharging the accumulator.

I - Low Fuel Lamp: This lamp indicates a low fuel situation. When it first comes on, there is approximately 2.5 gals. (9.5 L) of fuel remaining. The fuel tank should be filled as soon as possible.

J - Hydraulic Oil Filter Lamp: If this lamp comes on, it indicates that the filter element should be checked for possible replacement.

RIGHT SIDE PANEL

These controls and indicators are used to position the frame, boom, and attachment. Graphic symbols on the side panel illustrate the control actions.



A - Frame Leveling Switch: This switch is located on the right side panel behind the boom control joystick. The machine may be tilted slowly 10° to the left or right to level the frame and boom in relation to the ground.

B1 and B2 - Outrigger Option Switches: This option is used to provide greater stability for specific applications. Press the left "B1" switch forward to lower the left outrigger. Press the right "B2" switch forward to lower the right outrigger. To raise the outriggers, press both switches rearward.

WARNING

DO NOT level the frame with the boom raised or extended. Level the frame ONLY while stopped, with the boom fully retracted and the attachment raised just enough to clear the ground.

WARNING

Be sure NO persons or equipment are located where the outrigger pads will be positioned.

DO NOT travel with the outriggers extended.

Adequate clearance is required for the retracted outriggers when traveling through doorways or along narrow pathways.

DO NOT attempt to use the outriggers as a hydraulic jack for maintenance, or to level frame, or for other similar uses.

Failure to heed could result in death or serious injury.

Boom Joystick: This machine has a hydraulic-type boom with three or four telescopic sections. The sections extend by means of a hydraulic cylinder and chain system inside the boom, sequenced for uniform extension of each section.

The boom inner section nose has an attachment-carrying device. The Quick-attach is used for framing and masonry attachment tools. The Quick-attach II is used for special material handling attachment tools.

Both devices are "self-leveling," meaning that when the operator tilts the attachment to a desired angle, that angle will be maintained as the boom is raised or lowered, extended or retracted, until a new angle is set.

The joystick handle is equipped with two yellow buttons and two blue buttons on the upper rear of the handle, and a trigger switch on the front of the handle. The yellow buttons operate the attachment tilt. The blue buttons operate the auxiliary hydraulics. The trigger switch controls the function speed of both the attachment tilt and auxiliary hydraulics.

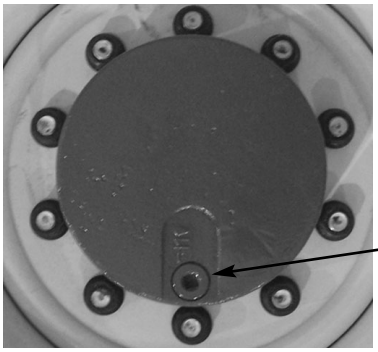
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2. Remove the check/fill plug and fill the differential with oil as specified in the Lubrication chapter. When the oil flows out the oil check/fill hole, replace the plug. Wait 10 to 15 minutes and repeat this process until the axle is full. Repeat the procedure with the other axle (see illustration).

Axle Planetary Hubs

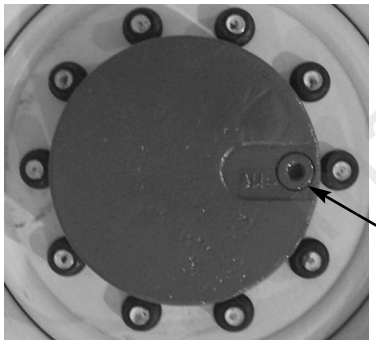
The axle hubs have one plug each used for draining and filling (see illustration).

1. Position the wheel until the drain/fill plug points down. This will allow the oil to drain out. Remove the drain/fill plug.



IMPORTANT: *DO NOT discharge oil onto ground. Catch and dispose of per local waste disposal regulations.*

2. Re-position the hub so the drain/fill plug is horizontal. Fill with fresh oil as specified in the Lubrication chapter. Re-install the drain/fill plug. Repeat this procedure on the other hubs.



CHECKING ALTERNATOR AND FAN BELT CONDITION

Refer to the engine manual for proper belt tension adjustment and replacement procedures. If the belt is worn or cut, it should be replaced. Order replacement belts from your Mustang dealer.

CHECKING EXHAUST SYSTEM

Examine the muffler and tail pipe for possible holes. Re-tighten any loose clamps and make sure the manifold outlet gasket is not leaking.

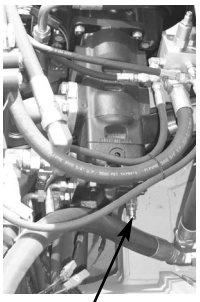
Service Every 2000 Hours or Every Two Years

NOTE: *Perform all other service requirements up to this point as well as the following:*

CHECKING HYDRAULIC SYSTEM RELIEF PRESSURES

Pressure settings for relief valves are pre-set at the factory. A test port is provided at the hydraulic pump.

Before conducting any pressure checks, check the engine speed. Engine speed must be 950 to 1000 rpm at low idle, and 2690 to 2750 rpm at high idle.



Steering Relief Pressure

Plug a 3000 psi (207 bar) oil or liquid-filled gauge in the main/steering test port. Turn the steering full to the right or left. The gauge should read 2500 psi (172 bar).

Main Relief Pressure

With the gauge in the main/steering test port and the boom extended, retract the boom fully. The gauge should read 3000 psi (207 bar).

CHANGING HYDRAULIC RESERVOIR OIL AND STRAINER

Clean all dirt and debris from around the area where the hydraulic system suction (large) hose connects to the wall of the reservoir.

1. Remove the drain plug and drain oil. Wash or blow off any collected particles on the magnetic drain plug.

IMPORTANT: *DO NOT discharge oil onto ground. Catch and dispose of per local waste disposal regulations.*

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Chapter 10

MAINTENANCE

This Maintenance Interval Chart was developed to match the Service and Storage chapter of this manual. Detailed information on each Service Procedure may be found in the Service and Storage chapter. A Maintenance Log follows the Maintenance Interval Chart for recording the service procedures performed. Recording the 10-Hour (or Daily) service intervals would be impractical and therefore is not recommended.

IMPORTANT: *Under severe operating conditions, more frequent service than the recommended intervals may be required. Users must decide if the severity of their operation requires more frequent than normal service.*

MAINTENANCE INTERVAL CHART

SERVICE PROCEDURE	Every 10 Hours or Daily	Every 50 Hours or Weekly	First 100 Hours	Every 250 Hours or Quarterly
Checking Fuel Tank Level	●			
Checking Fuel Filter (Drain water if required)	●			
Checking Radiator Coolant Level	●			
Checking Engine Oil Level	●			
Checking Hydraulic Oil Level	●			
Checking Tire Pressures	●			
Checking Instruments Operation	●			
Checking General Machine Operation & Condition	●			
Checking Work Platform Safety (WPS) System	●			
Checking Wheel Lug Nut Torque	●[1]			
Checking Transmission Oil Level	●			
Lubricate Grease Points		●		
Changing Engine Oil and Filter			●[2]	
Changing Transmission Oil and Filter			●[2]	
Changing Hydraulic Return Filter Element			●[2]	
Checking Axle Differential & Planetary Oil Levels				●
Checking Transfer Case Oil Level				●
Changing Fuel Filter				●
Checking Battery				●
Changing Engine Oil and Filter				●
Checking and Torquing Boom Leaf Chains				●

1 - On new machines, or when a wheel has been removed, until 450 ft.-lbs. (610 Nm) is maintained
2 - New machines only

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Full Version Available

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Mustang 744, 944, 1155 telehandler operator manual 913290B: controls, checks, lubrication, load charts, fault codes, schematics. Instant PDF download.

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