744
944
1155
TELEHANDLER

with TIER III Engine and Dana Axles

744: SN 20225 and up
944: SN 30166 and up
1155: SN 40153 and up including 40080

OPERATOR'S MANUAL

PART #913344
Revision B - February 2011

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Mustang 744, 944 and 1155 Telehandler Operator Manual (913344B)

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: 744, 944 and 1155

Machine: Telehandler

Publication No.: 913344 (Rev. B)

Edition date: February 2011

Serial numbers: 744: SN 20225 and up; 944: SN 30166 and up; 1155: SN 40153 and up including 40080

Language: English

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- 2 - Specifications
- 3 - Checklists
- 4 - Safety
- 5 - Indicators and Controls
- 6 - Operation and Adjustments
- 7 - Lubrication
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Sample pages follow. Full manual: machinecatalogic.com

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IDENTIFICATION INFORMATION

Write your Mustang Telehandler Model and Serial Numbers below.
Refer to these numbers when inquiring about parts or service from your Mustang dealer.

MODEL NO.	
SERIAL NO.	
ENGINE SERIAL NO.	

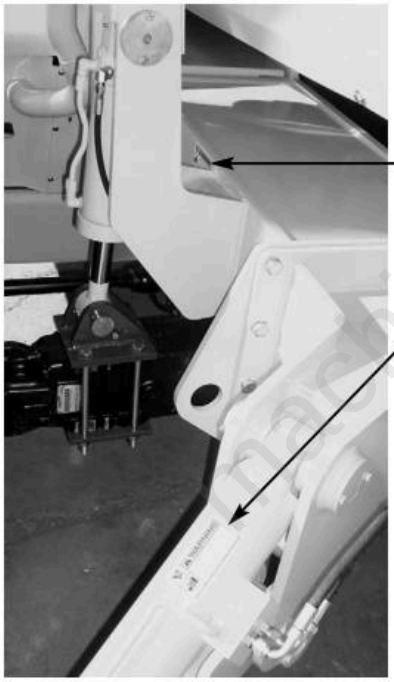
The model and serial numbers for this machine are on a decal located inside the operator's station.

SAFETY



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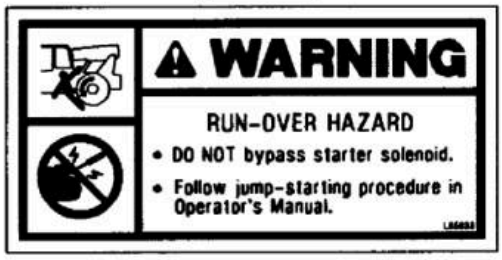




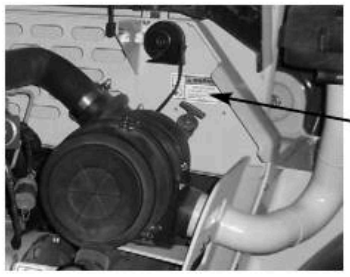
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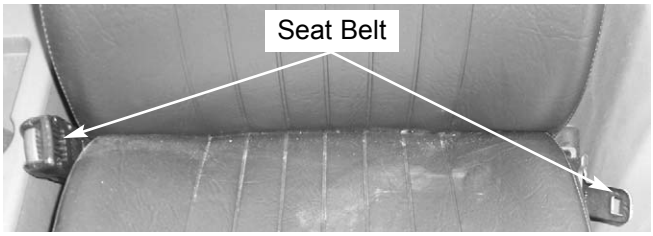






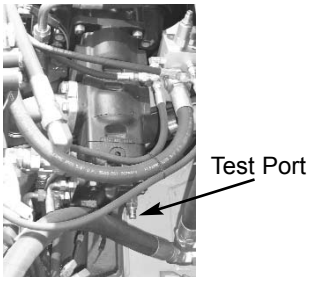
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Seat Belt: This machine has a retractable seat belt. Grasp the belt on the left side of the seat, pull the belt over your lap, and insert the belt into the buckle on the right side of the seat until you hear it lock in place.



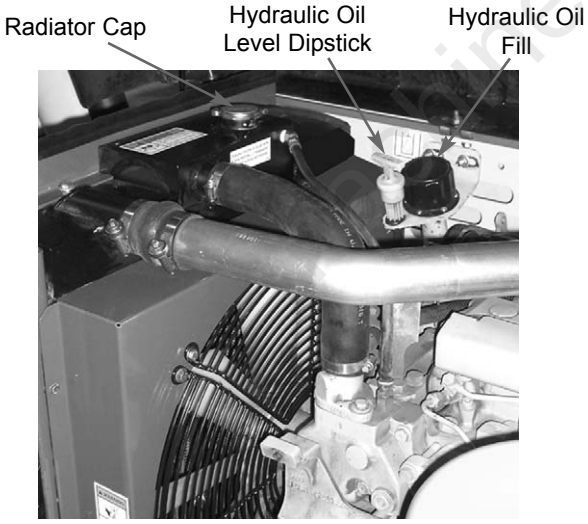
SERVICE AND SAFETY FEATURES

Hydraulic Test Port: A test port located at the rear of the pump, for installing a test gauge to check hydraulic and steering system pressures.



Hydraulic Reservoir Oil Level and Fill Cap: The dipstick is located alongside the fill cap on the rear wall of the powertrain compartment.

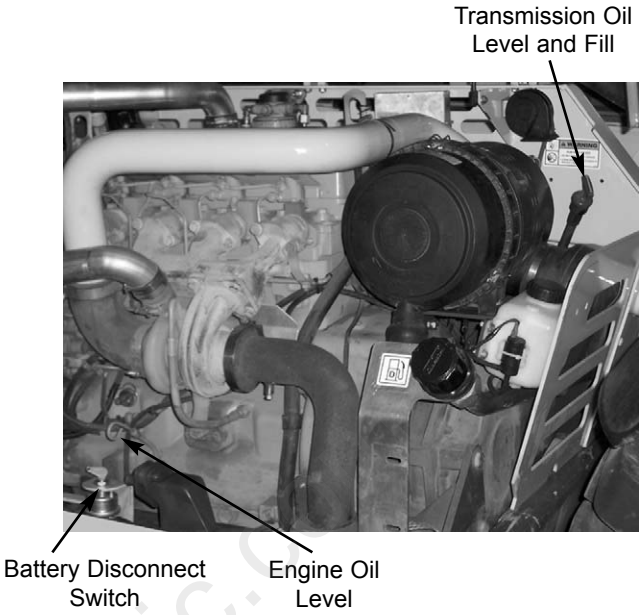
Coolant Level: The coolant can be checked and added through the radiator cap in the engine/power train compartment.



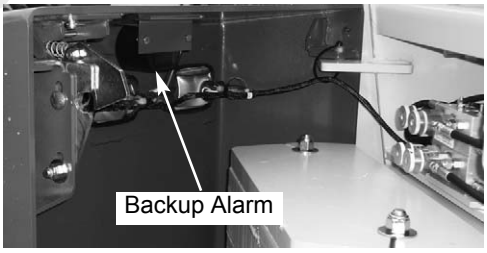
Transmission Oil Level and Fill Cap: The combination dipstick/fill tube is located toward the front wall of the powertrain compartment.

Engine Oil Level: The dipstick is located on the right side of the engine.

Battery Disconnect Switch: The battery can be disconnected from the electrical system by turning the switch key to the OFF position.



Backup Alarm: Located inside the rear frame cover, the backup alarm produces a loud warning sound whenever the transmission is in reverse.



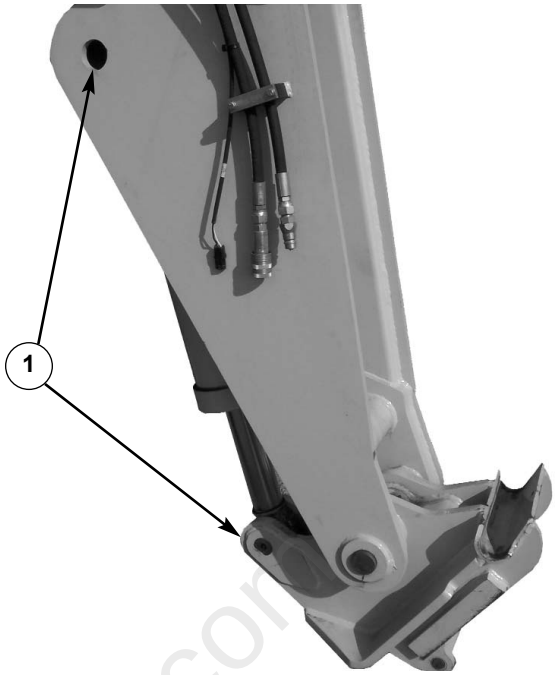
Side View Mirror: This mirror is located on top of the frame leveling cylinder mount. It provides the operator with a view of the area on the right side and behind the machine.

Locking Powertrain Covers: To tilt back the mid-frame access cover and the powertrain cover, pull out the lock mechanism handle and tilt up. Two gas-charged springs help tilt back each cover, and keep them raised.

Fuse and Relay Box: This box is located on the front inside wall of the storage compartment behind the operator's compartment. A decal provides a quick reference guide for troubleshooting electrical functions.

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FILTER REFERENCE CHART	
TYPE	**PART NUMBER**
Engine Oil	102173
Engine Fuel	Primary 105794 Secondary 105795
Air Filter	Primary 105070 Safety 105071
Hydraulic Return	L99459
Hydraulic Strainer	L69358
Transmission Oil	L99440
Cab Venitlation Filter	101843

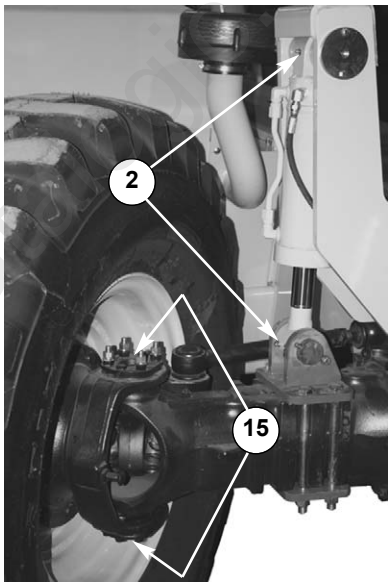


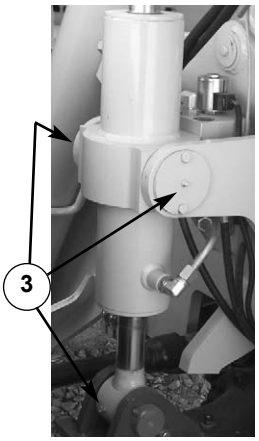
BASIC MACHINE GREASE FITTING LOCATIONS

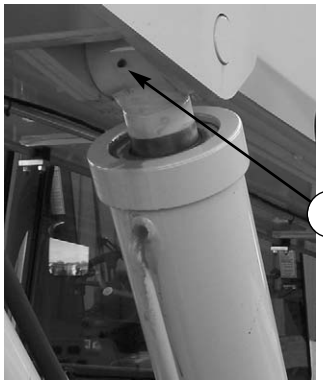
Every 50 Hours (or weekly)

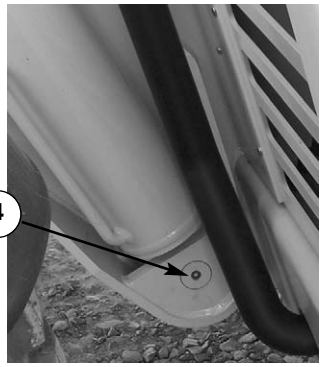
Refer to the illustration below for locations.

1. Tilt Cylinder Pins (2 ea.)
2. Frame Leveling Cylinder Pins (2 ea.)
3. Stabilizing Cylinder Pins (3 ea.)
4. Lift Cylinder Pivot Pins (4 ea.)
5. Slave Cylinder Pivot Pins (4 ea.)
6. Boom Pivot Pins (2 ea.)
7. Extend Cylinder Pivot Pin (1 ea.)
8. Boom Sheave Pins (2 ea.)
9. Axle Pivot Trunions (2 per axle)
10. Outrigger Pad (2 per pad)
11. Outrigger Cylinder (2 per cylinder)
12. Outrigger Leg Pivot (1 per leg)
13. *For Quick-attach™ System Equipped Only*
    Carrier Pivot Pin (1 ea.)
13. *For Quick-attach™ II System Equipped Only*
    Carrier Pivot Pin (1 ea.)
    Attachment Tool Release Pins (3 ea.)
14. Boom Slide Pads (as necessary)
15. Wheel Spindle Pins (4 per axle)









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2. Disconnect water sensor wiring.
3. Loosen drain plugs (C) and drain fuel into a suitable container.
4. Firmly grasp the retaining ring (A) and rotate it clockwise 1/4 turn (when viewed from the top). Remove the ring with filter element (B or F).

NOTE: *Lifting up on retaining ring (A) as it is rotated helps to get it past raised locators.*

5. Inspect filter mounting base for cleanliness. Clean as required.

NOTE: *Raised locators on the fuel filter canister must be indexed properly with slots in mounting base for correct installation.*

6. Install new filter elements onto mounting bases. Be sure elements are properly indexed and firmly seated on bases. It may be necessary to rotate filters for correct alignment.

   If equipped with water seperator bowl (E), remove filter element from seperator bowl. Drain and clean the separator bowl. Dry with compressed air. Install bowl onto new element. Tighten securely.
7. Align keyes on filter element with slots in filter base.
8. Install retaining ring onto mounting base making certain dust seal is in place on filter base. Hand tighten ring counter-clockwise (about 1/3 turn) until it snap into the detent. DO NOT overtighten retaining ring.

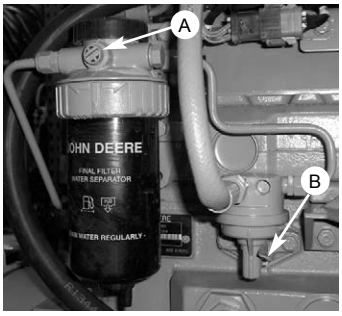
NOTE: *The proper installation is indicated when a "click" is heard and a release of the retaining ring is felt.*

9. Reconnect water sensor wiring.

After fuel filter replacement, bleed the air out of the fuel system by following the fuel bleeding procedure.

Fuel Bleeding Procedure

When the fuel filter is removed and replaced, or if the engine runs out of fuel, air must be bled from the system. Refer to the following procedure for proper bleeding procedure.



1. Loosen the air bleed vent screw (A) two full turns by hand on the filter base.
2. Operate the fuel supply pump primer Lever (B) until fuel flows out of the bleed vent screw.
3. Tighten bleed vent screw securely. Continue operating the primer until pumping action is not felt.
4. Start engine and check for leaks.

If the engine will not start, repeat steps 1-4.

WARNING

Escaping diesel fuel under pressure can have sufficient force to penetrate the skin. Before applying pressure to the fuel system, BE SURE all connections are tight and lines and hoses are not damaged. Use a piece of wood or cardboard to search for suspected leaks. If injured by escaping fuel, see a doctor familiar with this type of injury at once or gangrene may result.

IMPORTANT: *Only an authorized engine dealer can perform warranty service on the engine.*

Diesel Fuel Injectors

Whenever faulty or plugged fuel injectors are indicated, contact an authorized engine dealer.

Diesel Injection Pump Timing

Whenever injection pump timing or other injection pump service is indicated, such as by abnormal engine operation, contact an authorized engine dealer.

CHANGING ENGINE OIL AND FILTER

Change the engine oil and filter using the following procedure:

1. With the engine warm, remove the crankcase drain plug.

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

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⚠ WARNING

Remove the radiator cap only when the engine is cool, or painful burns could result.

1. Loosen the radiator cap to its stop. This will release any system pressure. Remove the cap when all pressure is bled off.
2. Open the radiator drain cock. Remove the water jacket drain plug from the engine block. When all coolant is drained, flush the system with clean fresh water. Allow the flush to drain completely.
3. Replace all drain plugs and tighten the radiator drain cock. Clean the cooling fins in the radiator with water pressure or steam.

IMPORTANT: *Fill the cooling system with a low-silicate ethylene glycol based coolant mixed with quality water and supplemental coolant additives (SCAs) suitable for heavy-duty diesel engines. See the engine manual for additional information.*

4. Inspect the radiator cap seal before re-installing it. Replace it if it appears to be damaged. The 16 psi (110 kPa) pressure cap and engine thermostat work in conjunction with each other to maintain proper engine cooling.

NOTE: *Check the engine temperature lamp every minute or two after coolant has been changed. Air pockets can form, and it may be necessary to refill the cooling system after a short period of use, as the air naturally bleeds out of the system.*

CHANGING HYDRAULIC RETURN FILTER

⚠ WARNING

Lower the boom to the ground when servicing the hydraulic system.

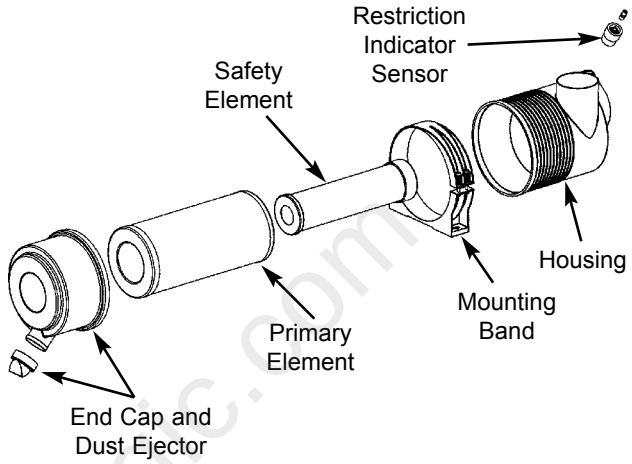
The hydraulic return filter element is a cartridge-type, accessible from underneath the chassis. Initial replacement is after the first 100 hours. Unscrew the filter cover and remove. Slide off the old element and discard.



Insert the new element onto the housing and replace the cover.

IMPORTANT: *The hydraulic return filter is equipped with a restriction sensor. If the dash indicator light comes on, the element should be replaced.*

CHANGING AIR FILTER ELEMENTS



Air Cleaner Assembly

The air cleaner assembly consists of an outer (primary) filter element and an inner (safety) filter element. The air cleaner has a restriction indicator sensor. The dash lamp will indicate when the element should be replaced.

The outer element should be replaced when the restriction indicator lamp is on while the engine is running. The inner element should be replaced every third time the outer element is replaced, unless the outer element is damaged or the inner element is visibly dirty. Along with a daily check of the restriction indicator lamp, check that the air cleaner intake hose and clamps, and the mounting bracket hardware are properly secure.

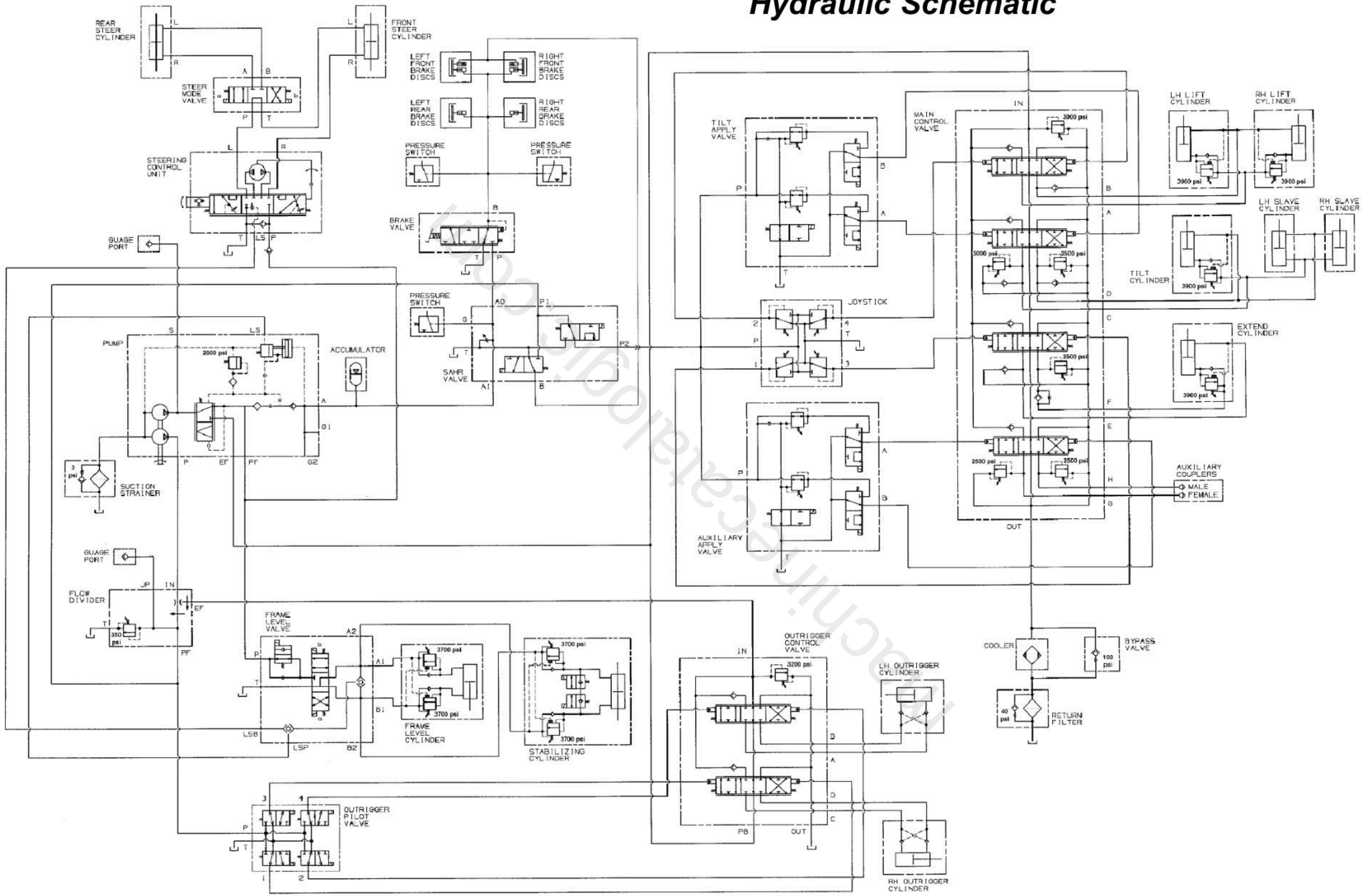
Unlatch the three latches on the air cleaner and remove the cover. Clean out any dirt in the cover assembly.

Outer Element

1. Carefully pull the outer element out of the housing. Never remove the inner element unless it is to be replaced.
2. Clean out any dirt in the housing. Leave the inner element installed during this step to prevent debris from entering the engine intake manifold.
3. Use a trouble light inside the outer element to inspect for bad spots, pinholes and ruptures. Replace the outer element if any damage is found.

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Hydraulic Schematic

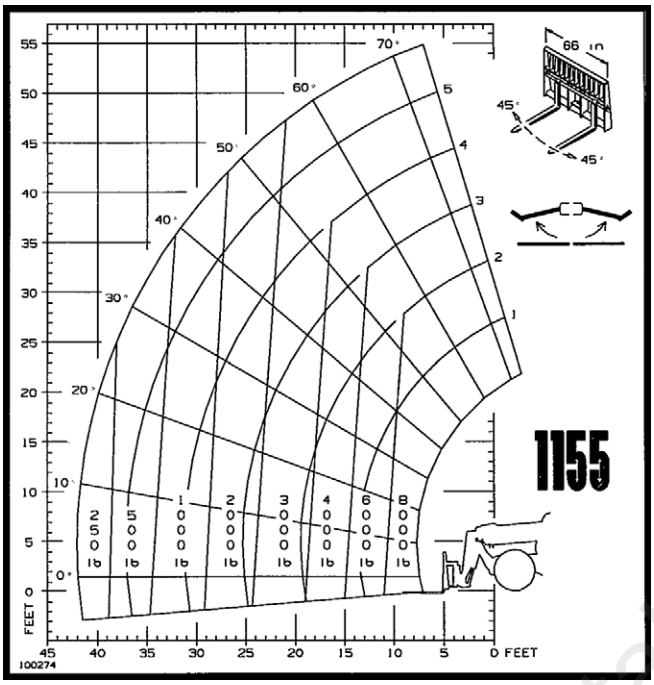


Machinery Catalogs

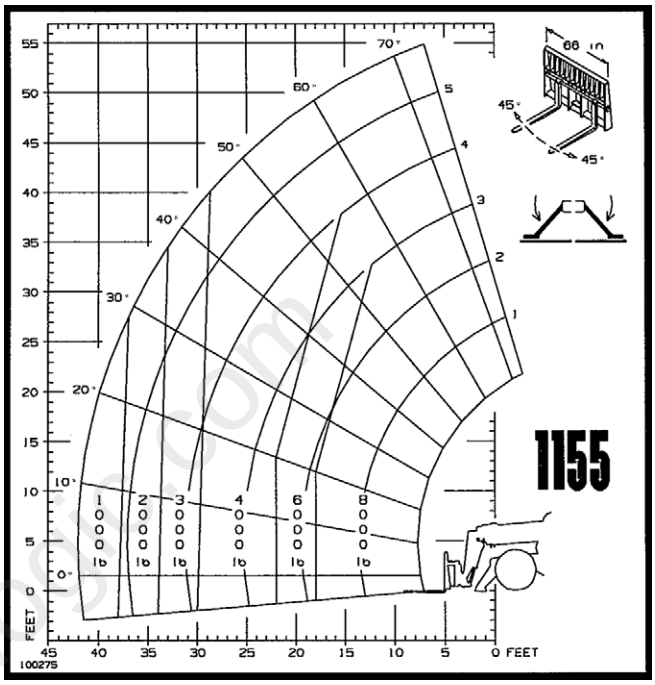
Load Zone Charts

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Swing Carriage - Decal 100274
Outriggers Up

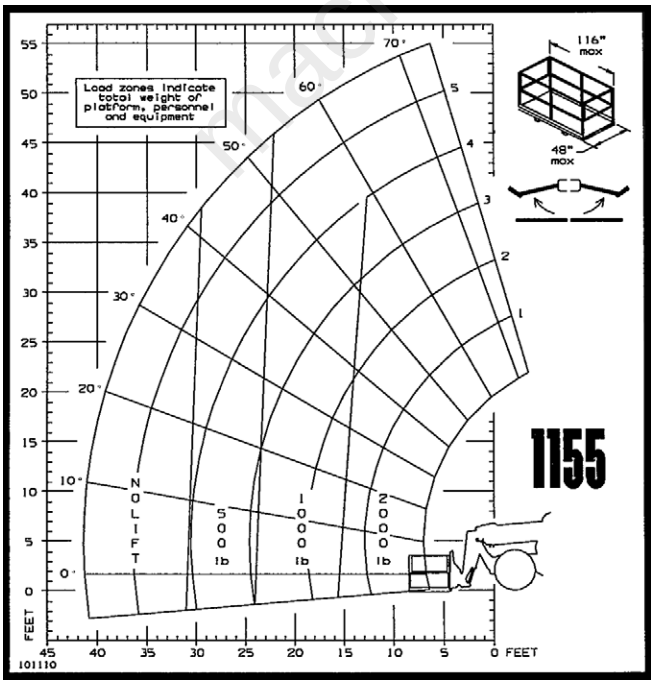


Swing Carriage - Decal 100275
Outriggers Down

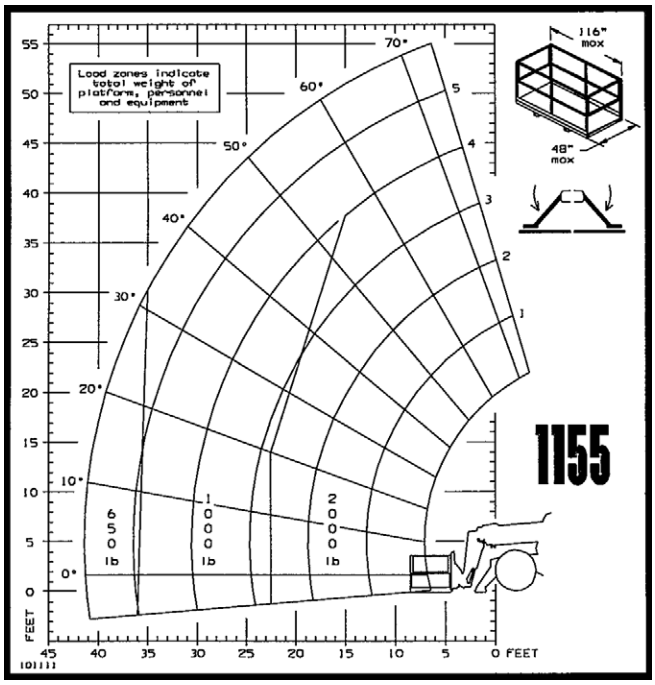


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Work Platform - Decal 101110
Outriggers Up



Work Platform - Decal 101111
Outriggers Down



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Full Version Available

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Publication No.: 913344 (Rev. B) · Language: English · Edition: February 2011