519

TELEHANDLER

OPERATOR'S MANUAL

Revision C - 01/2010

PART #913267

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Mustang 519 Telehandler Operator Manual (913267C)

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Machine: Telehandler

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Sample pages follow. Full manual: machinecatalogic.com

Chapter 2

SPECIFICATIONS

Lifting Performance

Maximum lift capacity:
5500 lbs. (2495 kg)

Maximum lift height:
19’ 1”(5.8 m)

Capacity at maximum lift height:
3000 lbs. (1360 kg)

Max. forward reach to load center:
11’ (3.35 m)

Capacity at maximum forward reach:
1850 lbs. (839 kg)

Maximum below grade reach:
0” (0 mm)

General Dimensions

Based on standard machine equipped with listed tires, 48” masonry carriage and 48” pallet forks.

Recommended tire type:
12 - 16.5 NHS 10-ply

Overall length, less forks:
148” (3.76 m)

Overall width:
71” (1.80 m)

Overall height:
76” (1.93 m)

Ground clearance: 10.5” (266 mm)
Wheelbase: 90” (2.29 m)
Outside turn radius: 132” (3.35 m)

Machine weight:
10,000 lbs. (4536 kg)

Instrumentation

Gauges: Fuel level, hourmeter, coolant temperature

Monitoring lights:
Engine oil pressure, alternator, hydrostatic drive oil temperature, engine coolant temperature

Visual indicators:
Boom angle, frame angle

Steering System

Steer Valve: Fixed-displacement rotary
Displacement/Rev: 7.3 cu. in. (120 cc)
System pressure: 2400 psi (165 bar)
Steer cylinders: 1 per axle
Steer mode valve:
3-position, 4-way solenoid with dash-mounted switch actuation
Steer modes: 2-wheel, 4-wheel, crab

Braking System

Service brakes: Oil-immersed inboard hydraulic wet-disc type; front axle
Manual foot pedal actuation

Parking brake: Spring-applied, hydraulic-release disc-type in front axle

Actuation is electric switch with engine running, automatic with engine off.

Electrical System

Type: 12-volt, negative ground
Battery: 550 minimum cold cranking amps
Circuit protection: Fuse panel
Backup alarm: 107 dB(A)
Horn: 111 dB(A)
Alternator: 50 amp

Service Capacities

Cooling System: 12 qts. (11.3 L)
45/55 mixture
Anti-freeze protection: -31ºF (-35ºC)
Pressure cap: 15 psi (103 kPa)

Fuel tank: 17 gals. (64 L)
Hydraulic tank and system:
18 gals. (68 L)
Axles:
Differentials: 4 qts. (3.8 L) ea.
Planetaries:
Front: 27 oz. (0.8 L) ea.
Rear: 30 oz. (0.9 L) ea.
Transfer Case (front axle only):
8 oz. (0.23 liters)

Hydrostatic Transmission

Type: Rexroth A4VG56DA/32
Speeds: 2 fwd / 2 rev

Travel Speeds:

Low speed:	fwd/rev 4 mph (6.4 km/h)
High speed:	fwd/rev 15 mph (24 km/h)

Axles (front and rear)

Type: Dana
Drive/steer, open differential, double-reduction planetary, full-time four-wheel drive
Overall ratio: 13.7:1
Front Model: 603-211-69
Rear Model: 221-83

Engine

Turbocharged Deutz TD2009 L04
140 cu. in. (2289 cc) displacement
64 hp (48 kW) @ 2600 rpm
149 ft.-lbs. (202 Nm)
torque @ 2000 rpm
Oil volume w/o filter: 8 qts. (7.5 L)
Oil volume w/ filter: 8.5 qts. (8.0 L)

Features:
In-line 4-cycle, 4-cylinder, direct-injection diesel fuel system, in-line fuel filter w/water trap, positive pressure lubrication, liquid pressurized cooling system, 18” (457 mm) blower fan, dry dual-element air cleaner, spin-on oil filter.

Hydraulic System

Type: Open-center
Pump: Single-section gear type

Displacement / revolution:
1.95 cu. in. (32 cc)

Flow @ 2750 RPM:
22 gpm (83 L/min)

Main relief pressure:
3350 psi (230 bar)
Steer relief pressure:
2400 psi (165 bar)

Hydraulic filter:
Return type, 16-micron media, replaceable element.
Rated flow: 35 gpm (132 L/min)
Rated pressure: 1000 psi (70 bar)
By-pass pressure (full flow):
50 psi (345 kPa)

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ATTACHMENT TOOLS

Mustang offers a versatile range of attachment tools to meet various lifting and material handling applications. Contact your Mustang dealer for specifications and ordering information.

ACCESSORIES

Mustang offers a range of special accessories for this machine. Contact your Mustang dealer for specifications and ordering information.

NOTE: *All accessories are field-installed unless otherwise noted. Information and parts for installing accessories are provided by the Mustang Manufacturing Company or Mustang Telehandler dealers.*

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Diesel Fuel Injectors

Whenever faulty or plugged injectors are indicated, see your authorized engine dealer.

Diesel Injection Pump Timing

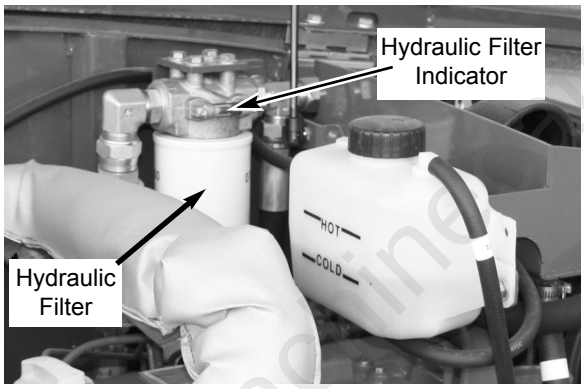
Whenever injection pump timing, or other pump service is indicated by abnormal engine operation, contact your engine dealer.

CHECKING AND CHANGING HYDRAULIC RETURN FILTER ELEMENT

WARNING

Before servicing the hydraulic filter, lower the boom to the ground.

When checking the filter indicator, STAY CLEAR of any rotating parts. Contact with rotating parts will cause serious injury.



This spin-on type hydraulic filter element is accessible from under the engine cover. Initial replacement is after the first 100 hours. To check the hydraulic filter element, run the engine at full throttle and normal operating temperature. Have an assistant lift the engine cover to observe the hydraulic filter indicator located on the filter head. If the indicator is green, the filter does not need replacing. If the indicator is red, replace the filter following the instructions below:

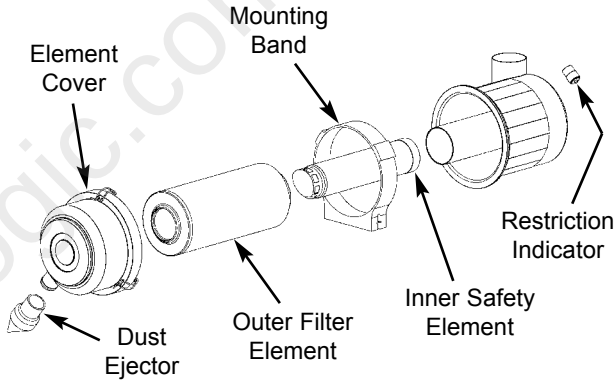
1. Turn off the engine.
2. Spin off the old hydraulic filter element.
3. Wipe the gasket sealing surface of the filter head with a clean cloth.
4. Apply a thin coat of clean oil to the new filter gasket.
5. Spin on the new filter element and hand tighten.
6. Run the engine at full throttle and check for leaks at the filter sealing area.

Service Every 1000 Hours or Yearly

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

CHECKING AND CHANGING AIR FILTER ELEMENTS

IMPORTANT: *Failure to follow proper filter servicing instructions could result in catastrophic engine damage.*



Air Cleaner Assembly

The air cleaner assembly consists of an outer (primary) filter element and an inner (safety) filter element. An air filter restriction indicator for monitoring the condition of the elements is located in the rubber elbow at the rear of the air cleaner. If the air filter becomes restricted, this indicator turns red to warn that the air cleaner requires service. Push the reset button located at the end of the indicator after replacing the element.

NOTE: *Before replacing the filter element(s), push the reset button on the indicator. Start the engine and run at full throttle. If the indicator does not turn red, do not replace the element(s).*

The outer element should be replaced only when the restriction indicator turns red. 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, check that the air cleaner intake hose and clamps, and the mounting bracket hardware are properly secure.

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Torque Specifications

Use these torque values when tightening hardware (excluding: locknuts and self-tapping, thread-forming and metal screws) unless otherwise specified.

Unified National Thread	Grade 2		Grade 5		Grade 8	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
8-32	19*	14*	30*	22*	41*	31*
8-36	20*	15*	31*	23*	43*	32*
10-24	27*	21*	43*	32*	60*	45*
10-32	31*	23*	49*	36*	68*	51*
1/4-20	66*	50*	9	75*	12	9
1/4-28	76*	56*	10	86*	14	10
5/16-18	11	9	17	13	25	18
5/16-24	12	9	19	14	25	20
3/8-16	20	15	30	23	45	35
3/8-24	23	17	35	25	50	35
7/16-14	32	24	50	35	70	55
7/16-20	36	27	55	40	80	60
1/2-13	35	35	75	55	110	80
1/2-20	40	40	90	65	120	90
9/16-12	55	55	110	80	150	110
9/16-18	60	60	120	90	170	130
5/8-11	75	75	150	110	220	170
5/8-18	85	85	180	130	240	180
3/4-10	130	130	260	200	380	280
3/4-16	150	150	300	220	420	320
7/8-9	125	125	430	320	600	460
7/8-14	140	140	470	360	660	500
1-8	190	190	640	480	900	680
1-14	210	210	710	530	1000	740

Metric Course Thread	Grade 8.8		Grade 10.9		Grade 12.9	
	Dry	Lubed	Dry	Lubed	Dry	Lubed
M6-1	8	6	11	7	13.5	10*
24M8-1.25	19	14	27	20	32.5	24*
M10-1.5	37.5	28	53	39	64	47
M12-1.75	65	48	91.5	67.5	111.5	82
M14-2	103.5	76.5	145.5	108	176.5	131
M16-2	158.5	117.5	223.5	165.5	271	200

* *All torque values are in lb-ft, except those marked with an *, which are in lb-in.*
For metric torque value (Nm), multiply lb-ft x 1.355 or lb-in value x 0.113.

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Full Version Available

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Mustang 519 telehandler operator manual 913267C: controls, load zone charts, lubrication, maintenance, schematics, torque data. Instant PDF download.

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