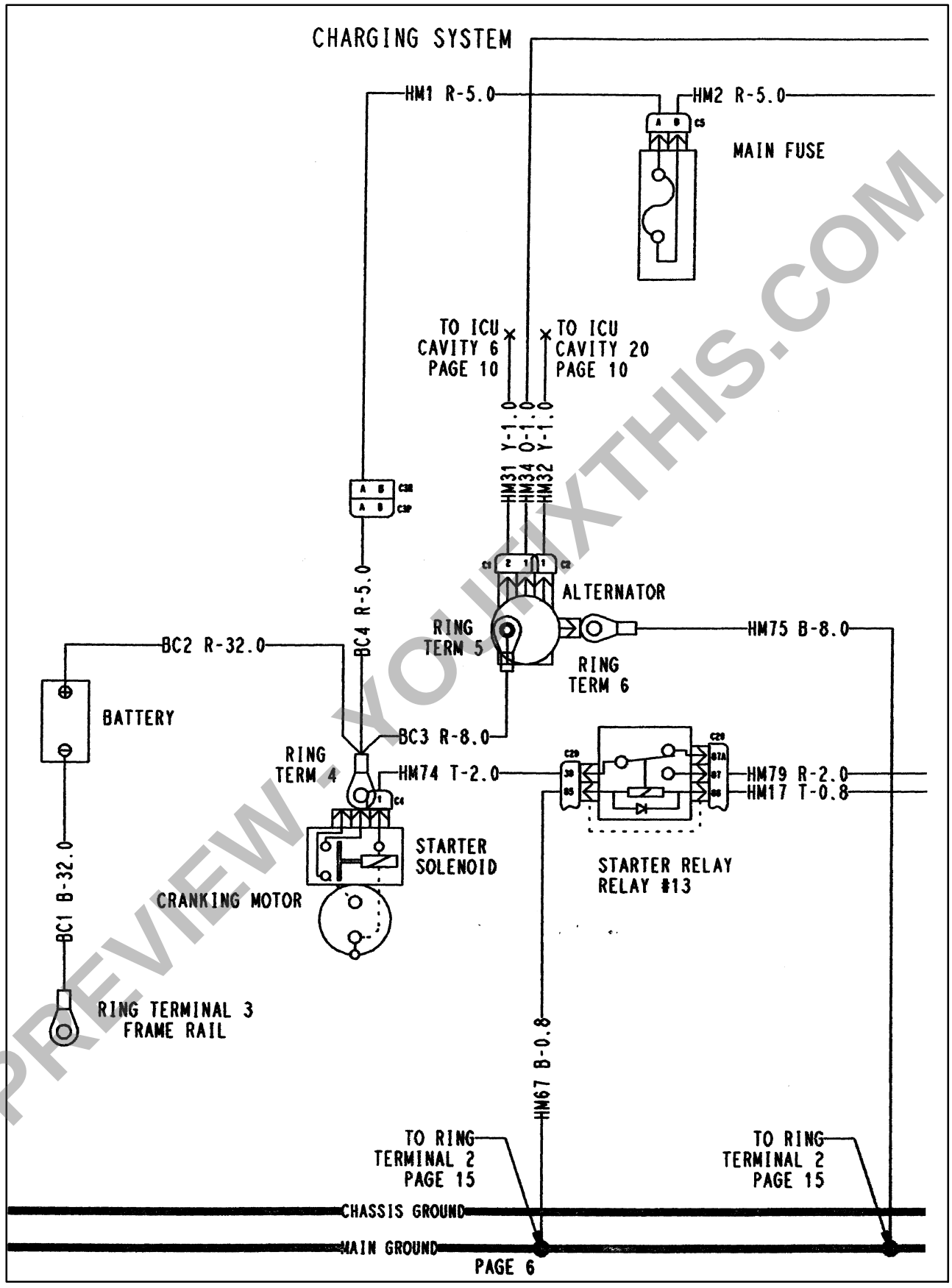


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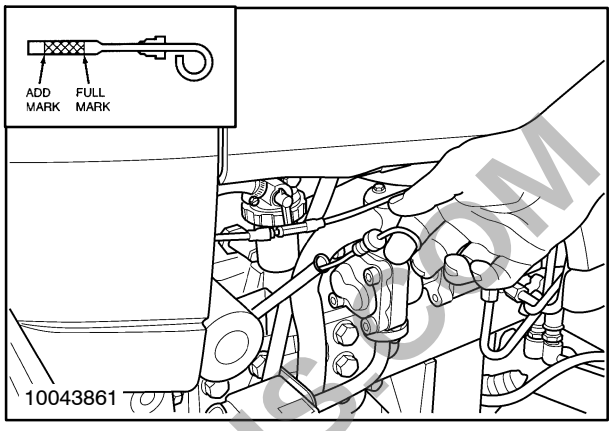
FUEL AND LUBRICANT SERVICE PROCEDURES

ENGINE

Checking the Engine Oil Level

NOTE: *Check the engine oil level daily or after every 10 hours of operation.*

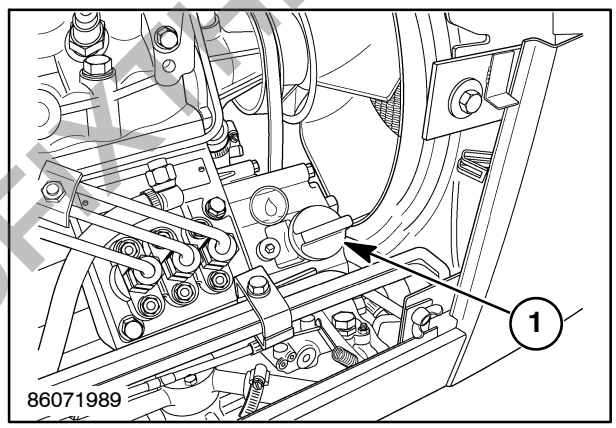
1. After the engine has been stopped for a period of time and with the tractor standing level, check the oil level using the dipstick.



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2. If the oil level is low, remove the filler cap, 1, and add oil through the filler hole. Add enough oil so that the level registers between the two marks on the dipstick. Do not overfill.

NOTE: *Slowly add oil into the filler neck, if oil is added rapidly, the possibility of oil spilling over the filler neck could occur.*



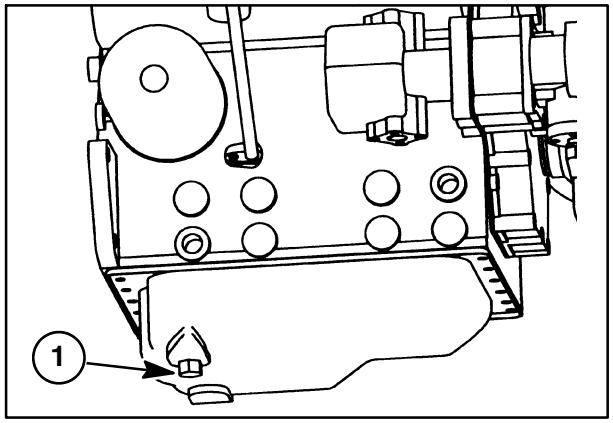
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Changing the Engine Oil

NOTE: *Change the engine oil and filter after the first 50 hours of operation, then every 200 hours thereafter. If the tractor is operated for extended periods of time at maximum rated power and speed, or under other types of continuous, severe operating conditions, the engine oil and filter should be changed at 100 hour intervals following the initial oil change.*

To change the engine oil:

1. Place a suitable container beneath the drain opening to catch the used oil. With the tractor engine off but at normal operating temperature, remove the drain plug, 1. Reinstall the plug after all of the oil has been drained.



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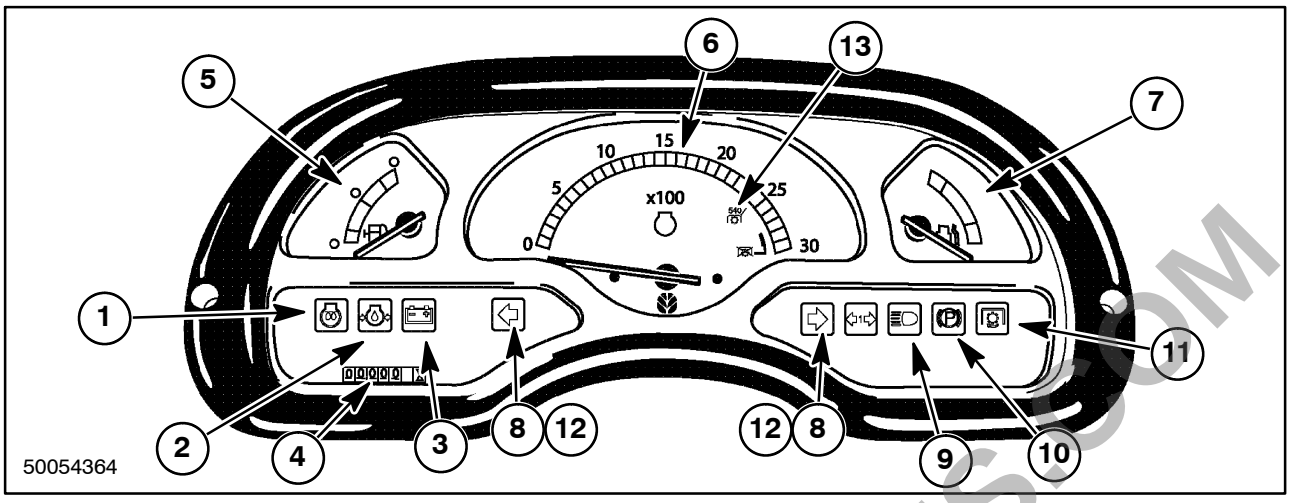
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SECTION 4
SPECIFICATIONS

	Model Boomer 2030 - Hydrostatic/Gear	Model Boomer 2035 - Hydrostatic
ENGINE		
Type	Diesel	Diesel
Engine Gross Horsepower	23.1 kw (31 hp)	26.1 kw (35 hp)
Cylinders	3	3
Bore	84 mm (3.31 in)	84 mm (3.31 in)
Stroke	90 mm (3.54 in)	100 mm (3.94 in)
Displacement	1.50 L (91.3 cu. in.)	1.65 L (101.1 cu. in.)
Compression Ratio	22.2:1	23.3:1
Firing Order	1-2-3	1-2-3
Low Idle Speed	1100 ± 50 RPM	1100 ± 50 RPM
Maximum Speed:		
High Idle	2840 ± 25 RPM	2840 ± 25 RPM
Rated	2600 RPM	2600 RPM
Valve Clearance (Cold):		
Intake	0.20 mm (0.008 in)	0.20 mm (0.008 in)
Exhaust	0.20 mm (0.008 in)	0.20 mm (0.008 in)
CAPACITIES		
Fuel Tank	27.6 liters/ 7.3 U.S. gals	27.6 liters/ 7.3 U.S. gals
Cooling System	5.2 liters/ 5.5 U.S. qts	5.2 liters/ 5.5 U.S. qts
Engine Crankcase:		
With Filter	4.5 liters/ 4.8 U.S. qts	4.5 liters/ 4.8 U.S. qts
Rear Axle & Transmission (Includes Hydraulics)		
Gear	32.5 liters/ 8.6 U.S. gals	
HST	33.3 liters/ 8.8 U.S. gals	33.3 liters/ 8.8 U.S. gals
Front Axle Final Reduction	0.8 liters/ 0.85 U.S. qts	0.8 liters/ 0.85 U.S. qts
Differential Gear Case	1.4 liters/ 1.5 U.S. qts	1.4 liters/ 1.5 U.S. qts

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INSTRUMENT PANEL

1. **Cold Starting Indicator Light** - Illuminates when the key switch is first turned to the "ACC/RUN" position. It remains lit for approximately four seconds, during which time the glow plugs are heating the precombustion chambers.
2. **Engine Oil Pressure Warning Light** - Illuminates with the key switch in the "ON" position and remains lit for a short period of time after the engine is started. The light indicates oil pressure only and goes out when sufficient oil pressure is present at the oil sender. If the bulb becomes lit during operation, stop the tractor engine immediately and investigate the cause.
3. **Battery Charge Warning Light** - Illuminates when the key switch is in the "ON" position and goes out when the engine is started. If this bulb becomes lit during operation, it indicates that the charging system is not operating normally. As the battery can become fully discharged under these conditions, the problem should be investigated as soon as possible.
4. **Proof Meter** - Records the hours and portions of hours that your tractor has been operated regardless of engine RPM. Use the proof meter as a guide to determine hourly service and maintenance intervals.
5. **Fuel Gauge** - Indicates the amount of diesel fuel remaining in the tank. The gauge is activated when the key switch is in the "ON" position. It will resister "empty" with the key switch in the "STOP" position.
6. **Tachometer** - Registers engine RPM (Revolutions Per Minute). The gauge is marked in increments of 100 and will return to zero when the engine is not running.
7. **Temperature Gauge** - Indicates coolant temperature. It is activated when the key switch is turned to the "ON" position. The gauge will register cold with the key switch in the "STOP" position. If the needle registers in the green range of the gauge, this indicates a normal operating temperature. If the needle moves to the red portion of the gauge, this indicates an overheated condition. Stop the tractor engine immediately and investigate the cause.
8. **Flasher Warning Lights** - Operate when the flasher switch is turned on, regardless of the key switch position. Use the flasher warning lights and the SMV emblem when traveling on public roads, day or night.
9. **High Beam Road Light Indicator** - The light symbol will illuminate "Blue" when the light switch is placed in the (High Beam) position.
10. **Parking Brake Light** - Illuminates if the parking brake is engaged when the key switch is turned from the "OFF" position.
11. **PTO On Indicator** - When either the rear or mid PTO is engaged, the indicator will be illuminated amber with the key in the "START" or "ON" positions.
12. **Flasher Turn Lights** - Operate when the turn signal switch is moved upwards for right turns the right arrow will flash and moved downwards for left turns the left arrow will flash. The key switch has to be in the "ACC/RUN" or "START" positions.
13. **PTO Speed Indicator** - Determined by the position of the needle on the tachometer. The tachometer is marked to indicate 540 PTO RPM. If the needle registers above the 540 RPM mark, this indicates a dangerous over speed condition, and the engine RPM should be reduced immediately.

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SECTION 2
OPERATION

CONTROLS AND INSTRUMENTS

SEAT, SEAT BELT, AND ROLLOVER PROTECTIVE STRUCTURE (ROPS)

Adjusting the Tractor Seat

Your New Holland tractor is equipped with an adjustable suspension seat.

To move the seat fore and aft, raise the release lever, 1. Because the seat is on an inclined base, more effort is required to move the seat rearward than forward.

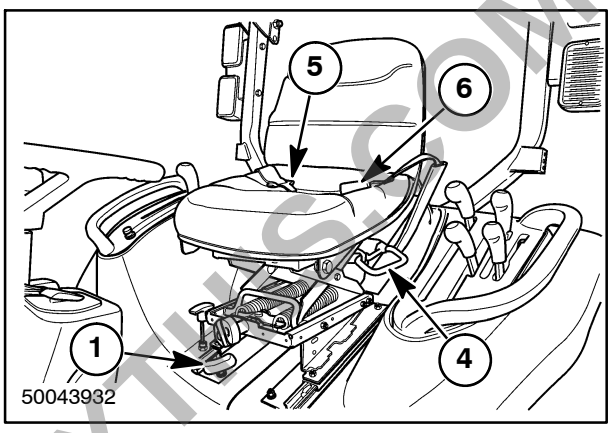
To adjust the flotation of the seat, pull out handle, 2, on knob, 3. Rotate the handle clockwise for a firmer ride or counter-clockwise for a softer ride.

To swivel the seat, raise the handle, 4, and swivel in the desired direction. The seat will swivel and lock at 10° or 20° to the right and 10° to the left.

NOTE: *Care of vinyl, plastic, and rubber parts to MAXIMIZE life:*

For cleaning of vinyl, plastic, and rubber parts, use "ONLY" a mild car washing soap and water, as described below:

"First remove any loose dirt by rinsing with clean water. Mix a warm, mild liquid CAR WASHING soap solution (1 part soap and 99 parts water). Then using a sponge or soft cloth, apply the soap solution to the part. Allow the solution to soak for a few minutes to loosen the dirt. Finally, rinse the part with clean water to remove the dirt, and any solution residue. If all the dirt does not come off, repeat the procedure."



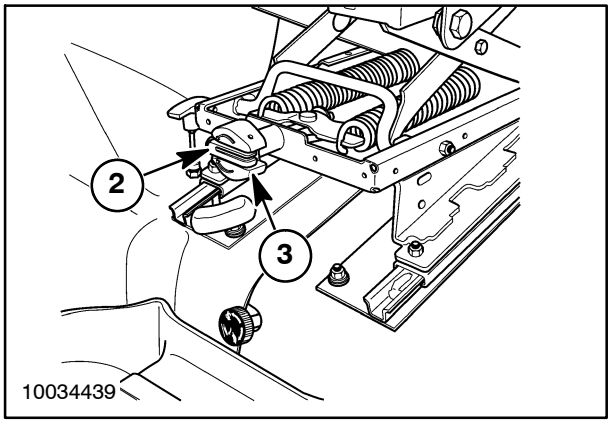
1

Adjusting the Seat Belt

The male end of the seat belt, 5, is part of a retraction mechanism, located on left side of the seat. To extend length of seat belt, pull out on male end until correct length is obtained. To latch seat belt, insert male end into belt latch, 6, located on right side of seat. Make sure belt is securely buckled and belt length is adjusted correctly for size of operator.

Use soap and water to clean the seat belt if necessary. Do not use carbon tetrachloride, naphtha, etc., as these substances will weaken the webbing. Additionally, do not bleach or redye the webbing, as these products will also weaken the webbing.

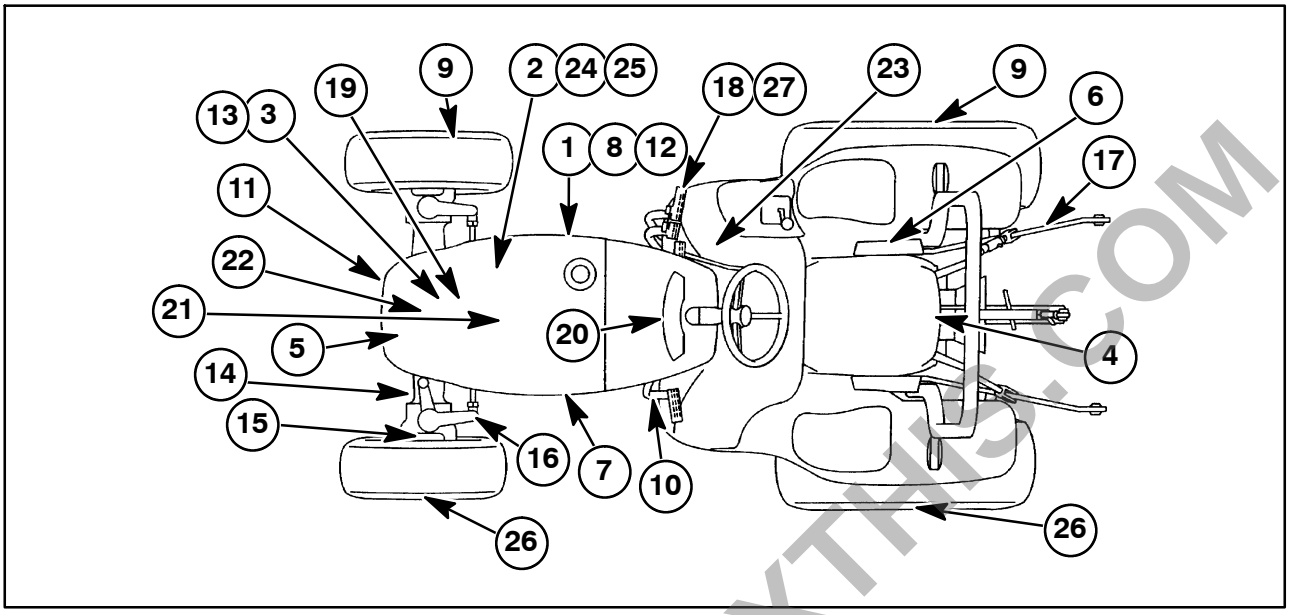
Replace the seat belt if it becomes damaged or worn.



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LUBRICATION AND MAINTENANCE CHART
NEW HOLLAND BOOMER 2030, 2035 - FRONT-WHEEL DRIVE



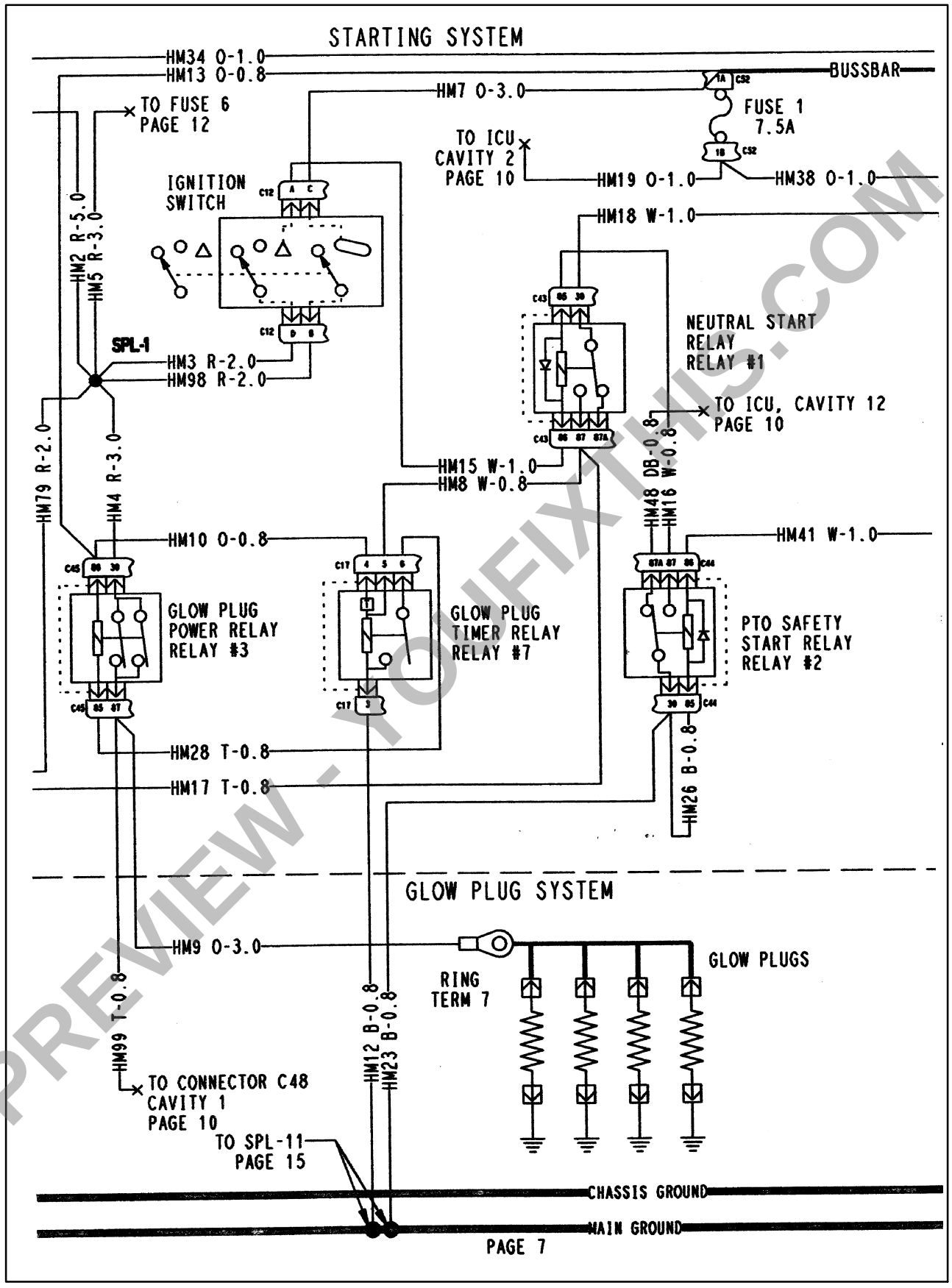
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NO.	LUBRICATION & MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
1	Engine Oil Level	X					Every 10 Hours or Daily
2	Air Cleaner	X					
3	Radiator Coolant	X					
4	Transmission Oil Level	X					
5	Radiator Fins		X				
6	Hydraulic Filter				X		First 50 Hours
7	H.S.T. Filter				X		
1, 8	Engine Oil & Filter				X		
9	Tire Pressure	X					
12	Fuel Filter				X		
26	Wheel Bolt Torque	X					
—	All Fluid Levels	X					
27	Brake Pedal Free Play	X					
9	Tires	X					Every 50 Hours
10	Clutch Pedal	X		X		X	
11	Battery	X					
13	Fan Belt	X					
14	Front Axle Oil Level	X					
15	Final Reduction Gear Cases Oil Level	X					
27	Brake Pedal Free Play	X					
	Lubrication Fittings:						
16	Steering Linkage			X			
17	3-Point Linkage			X			
18	Brake Pedal			X			
19	Power Steering Cylinder			X			
20	Pedal Shaft			X			
21	Drive Cover Shaft			X			
22	Pivot Shaft			X			
23	H.S.T. Pedal Pivot			X			

NO.	LUBRICATION & MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
2	Air Cleaner Element		X				Every 100 Hours
12	Fuel Filter		X				
1, 8	Engine Oil & Filter				X		Every 200 Hours
27	Brake Pedal Free Play					X	
13	Fan Belt					X	
26	Wheel Bolt Torque	X					
4	Transmission Oil				X		Every 300 Hours
6	Hydraulic Filter				X		
7	H.S.T. Filter				X		
12	Fuel Filter				X		
15	Front Axle Oil				X		
16	Final Reduction Gear Cases Oil				X		
24	Fuel Injector	X			X	X	Every 600 Hours *Refer to Repair Manual
25	Valve Clearance	X				X	
2	Air Cleaner Element				X		Seasonal
3	Radiator Coolant				X		
2	Safety Air Filter Element				X		Every 3rd Primary Element Change or Every **1000** Hours, Whichever Comes First

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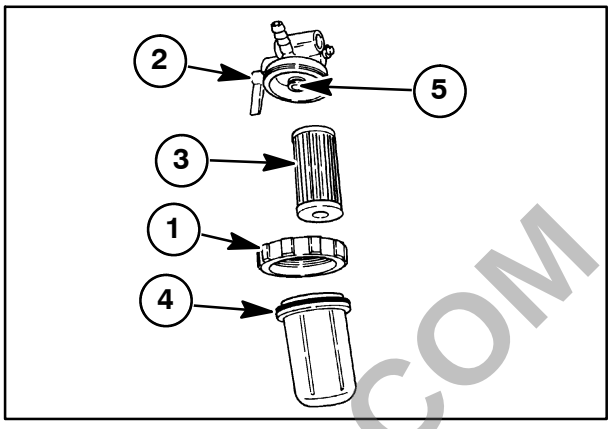
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Changing the Fuel Filter

NOTE: *Change the diesel fuel filter after the first 50 hours of operation, then following every 300 operating hours thereafter.*

1. Close the shutoff valve (the handle should be pointing to the “C” position).
2. Remove the sediment bowl by rotating the retaining nut, 1.
3. Open the fuel shutoff valve, 2, to drain any remaining water from the tank.
4. Discard the old element, 3, and install a new element.
5. Inspect the O-rings, 4 and 5, and replace if necessary.
6. Install and securely tighten the sediment bowl.
7. Open the fuel shutoff valve (the handle should be pointing to the “O” position), 2, so fuel will flow to the filter.
8. Bleed the fuel filter and injection pump as described below in “Bleeding the Fuel System.”



10

Bleeding Air From the Fuel System

Bleed the fuel system if:

- It has been drained.
- A new filter element has been installed.
- The tractor has run out of fuel.
- The lines leading to or from the filter have been disconnected.
- The injection pump has been removed and reinstalled.

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	Model Boomer 2030 - Hydrostatic/Gear	Model Boomer 2035 - Hydrostatic
COOLING SYSTEM		
Type	Pressurized Liquid with Recirculating Bypass	Pressurized Liquid with Recirculating Bypass
Water Pump:		
Type	Centrifugal	Centrifugal
Drive	V-Belt	V-Belt
Belt Deflection	10 - 15 mm (7/16 - 9/16 in) when 9 - 11 kg (20 - 25 lb) pressure is applied midway between belt pulleys	10 - 15 mm (7/16 - 9/16 in) when 9 - 11 kg (20 - 25 lb) pressure is applied midway between belt pulleys
Fan Diameter	340 mm (13.4 in)	340 mm (13.4 in)
Thermostat:		
Start to Open	71°C (160°F)	71°C (160°F)
Fully Open	82°C (185°F)	82°C (185°F)
Radiator Cap	0.9 bar (13 PSI)	0.9 bar (13 PSI)
ELECTRICAL SYSTEM		
Alternator	12-volt, Heavy Duty, 40 amps	12-volt, Heavy Duty, 40 amps
Battery	12-volt, w/ negative ground, 420 cca	12-volt, w/ negative ground, 420 cca
Starting Motor	Solenoid Pre-Engaged Reduction	Solenoid Pre-Engaged Reduction
FUEL SYSTEM		
Fuel Type	Diesel	Diesel
Type of Fuel to Use if Above 40°F	No. 2-Diesel, Cetane Rating: Minimum 40	No. 2-Diesel, Cetane Rating: Minimum 40
Type of Fuel to Use if Below 40°F	No. 1-Diesel, Cetane Rating: Minimum 40	No. 1-Diesel, Cetane Rating: Minimum 40
Injection Pump:		
Type	In-Line	In-Line
Timing	21° BTDC	21° BTDC
CLUTCH		
Type	225 mm (8.86 in) (HST) Dry Disc, Organic Face 215 mm (8.46 in) - Transmission 9x3 Trans 225 mm (8.86 in) - PTO 9x3 Trans	225 mm (8.86 in) (HST) Dry Disc, Organic Face
Pedal Free-Travel	19 - 30 mm (3/4 - 1-3/16 in)	19 - 30 mm (3/4 - 1-3/16 in)

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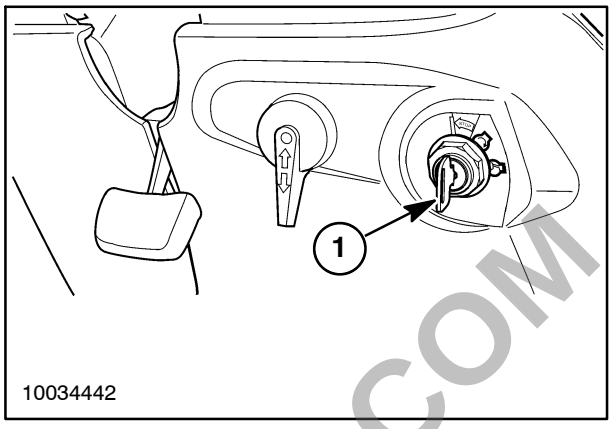
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STARTING THE ENGINE

The key switch, 1, allows activation of the starter motor and fuel delivery only when:

1. The rear PTO, 2, and Mid PTO, 3, (if equipped) are in the “OFF” position.
2. The range lever, 4, is in the “NEUTRAL” position.

NOTE: *The tractor can be started with the operator out of the seat and the park brake* ***NOT*** *applied. However, an alarm will sound indicating that the operator needs to either apply the park brake or sit in the seat.*

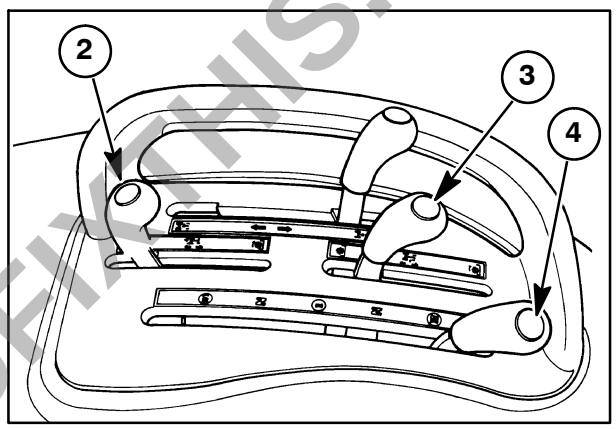


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Always use safe practices when starting your tractor. Turn the key to the extreme right. Position the hand throttle forward so that it is one-fourth to one-third open.

⚠ WARNING ⚠

Always sit in the operator’s seat when starting the tractor. Never attempt to start the engine while standing beside the tractor. Failure to comply could result in death or serious injury.



10

IMPORTANT: *Do not engage the starting motor continuously for more than 30 seconds. Doing so may cause starting motor failure.*

The engine will shut off in approximately two seconds if the operator leaves the seat without the range lever in the neutral position.

NOTE: *The range lever, 4, must be in the “NEUTRAL” position to allow the operator to leave the seat, when the tractor engine is in operation. If the “REAR PTO” is in the “ON” position, the engine will remain operating. If the “MID PTO” is in the “ON” position, the engine will shut off in approximately two seconds.*

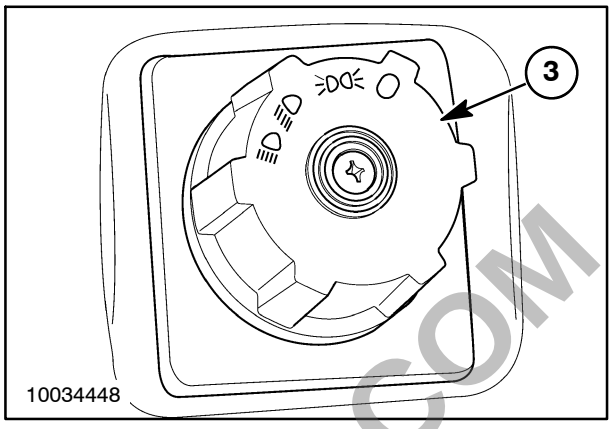
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Light Switch

The light switch, 3, is located on the right side of the dash panel. This is a rotary type switch that has four positions (rotating clockwise from “OFF” position):

- Off.
- Instrument panel and Taillights.
- Road lights, Instrument panel and Taillights.
- Road lights, Work lights, Instrument panel and Taillights (A blue high beam indicator light will illuminate in the instrument panel when the road and work lights are illuminated).

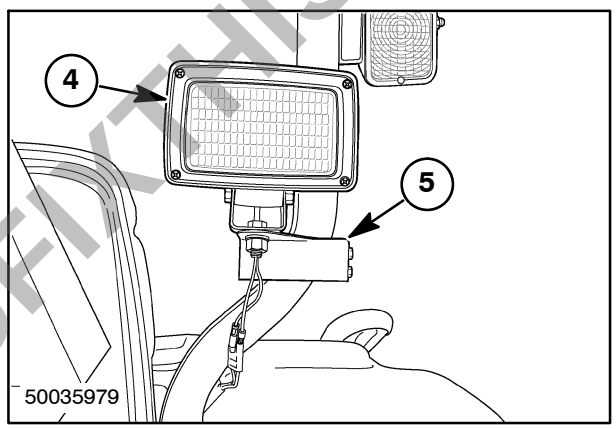


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Rear Work Light (Optional)

The optional rear halogen work light, 4, is mounted to the ROPS and is operated by a push-button switch located on the light.

NOTE: *To mount the rear work light to the ROPS, light bracket, 5, #86531714 is required.*

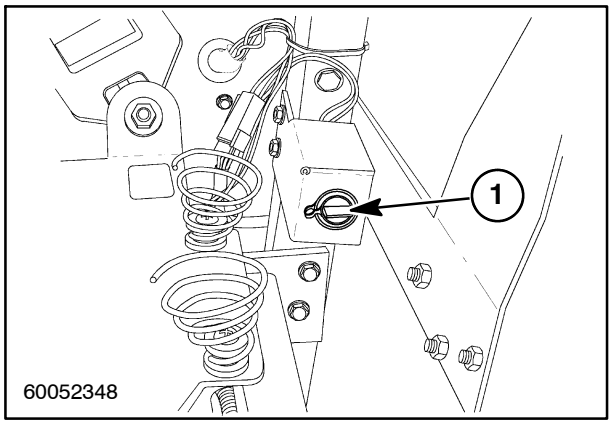


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AUXILIARY ELECTRICAL POWER SOCKET

An auxiliary 12 volt (15 amp maximum current) power socket, 1, is located on the right side ROPS upright. This socket can be used to power a cellular phone or any other 12 volt electrical item.

The #6, 15 amp fuse (located in tractor fuse box) protects the auxiliary power socket from overload condition.



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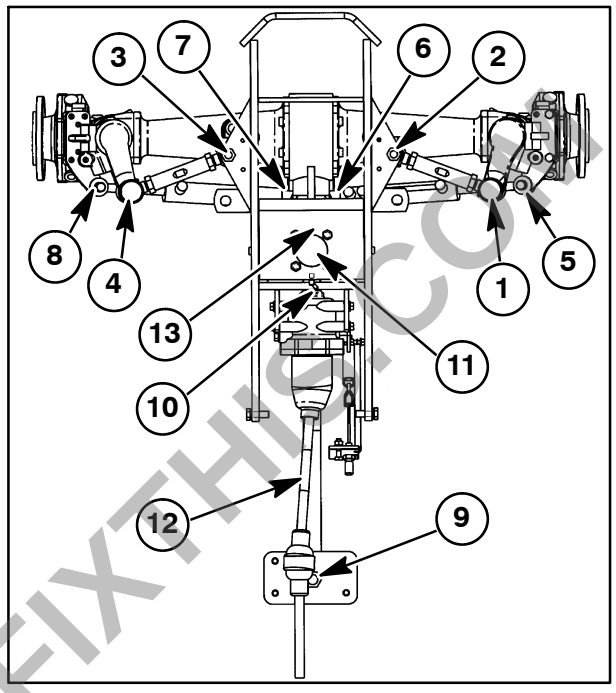
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LUBRICATION AND MAINTENANCE CHART
NEW HOLLAND BOOMER 2030, 2035 - FRONT-WHEEL DRIVE - SUPER STEER™

EVERY 50 HOURS

1. Right Tie Rod Outer Ball Joint
2. Right Tie Rod Inner Ball Joint
3. Left Tie Rod Inner Ball Joint
4. Left Tie Rod Outer Ball Joint
5. Right Steering Cylinder Outer Bushing
6. Right Steering Cylinder Inner Bushing
7. Left Steering Cylinder Inner Bushing
8. Left Steering Cylinder Outer Bushing
9. Stabilizer Rear Ball Joint
10. Stabilizer Front Ball Joint
11. Pivot Bearing
12. Rear Drive Shaft
13. Front Drive Shaft



2

CLUTCH HOUSING

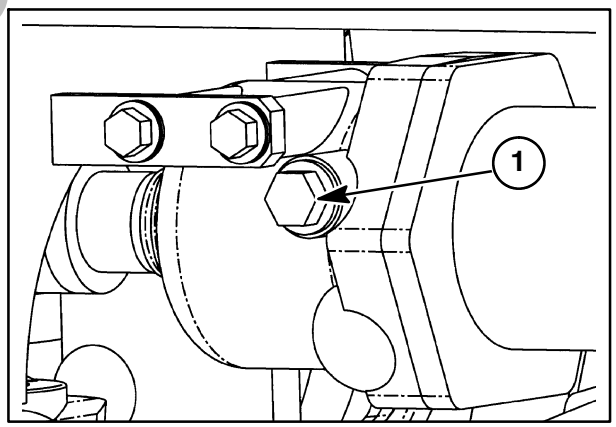
Check oil level - every 50 hours.

Change oil - every 600 hours.

To check oil level, remove check plug, 1. Oil is at correct level when fluid is even with check plug opening. Add NH 134 hydraulic oil through check plug opening until fluid is at correct level.

To change the oil of the clutch housing, remove clutch assembly from tractor and drain using check plug opening.

Fluid capacity of clutch housing: 0.3 liters (10.0 oz).



3

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