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DX23, DX26 Tractors

Operator's Manual

87544696
Replaces 87307205

CASE IH

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SAFETY

⚠ PRECAUTIONARY STATEMENTS ⚠

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read the following precautions before operating this equipment. Equipment should be operated only by those who are responsible and instructed to do so.

Carefully review the procedures given in this manual with all operators. It is important that all operators be familiar with and follow safety precautions.

THE TRACTOR

1. Read the Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. Use an approved roll bar and seat belt for safe operation. Overturning a tractor without a roll bar can result in death or injury. If your tractor is not equipped with a roll bar and seat belt, see your Case IH Dealer.
3. Always use the seat belt. The only instance when the seat belt should not be used is if the roll bar has been removed from the tractor.
4. If a front end loader is to be installed, always use a FOPS (Falling Object Protective Structure) canopy to avoid injury from falling objects.
5. Use the handholds and step plates when getting on and off the tractor to prevent falls. Keep steps and platform cleared of mud and debris.
6. Do not permit anyone but the operator to ride on the tractor. There is no safe place for extra riders.
7. Keep all safety decals clean of dirt and grime, and replace all missing, illegible, or damaged safety decals. See the list of decals in the Decal section of this manual.

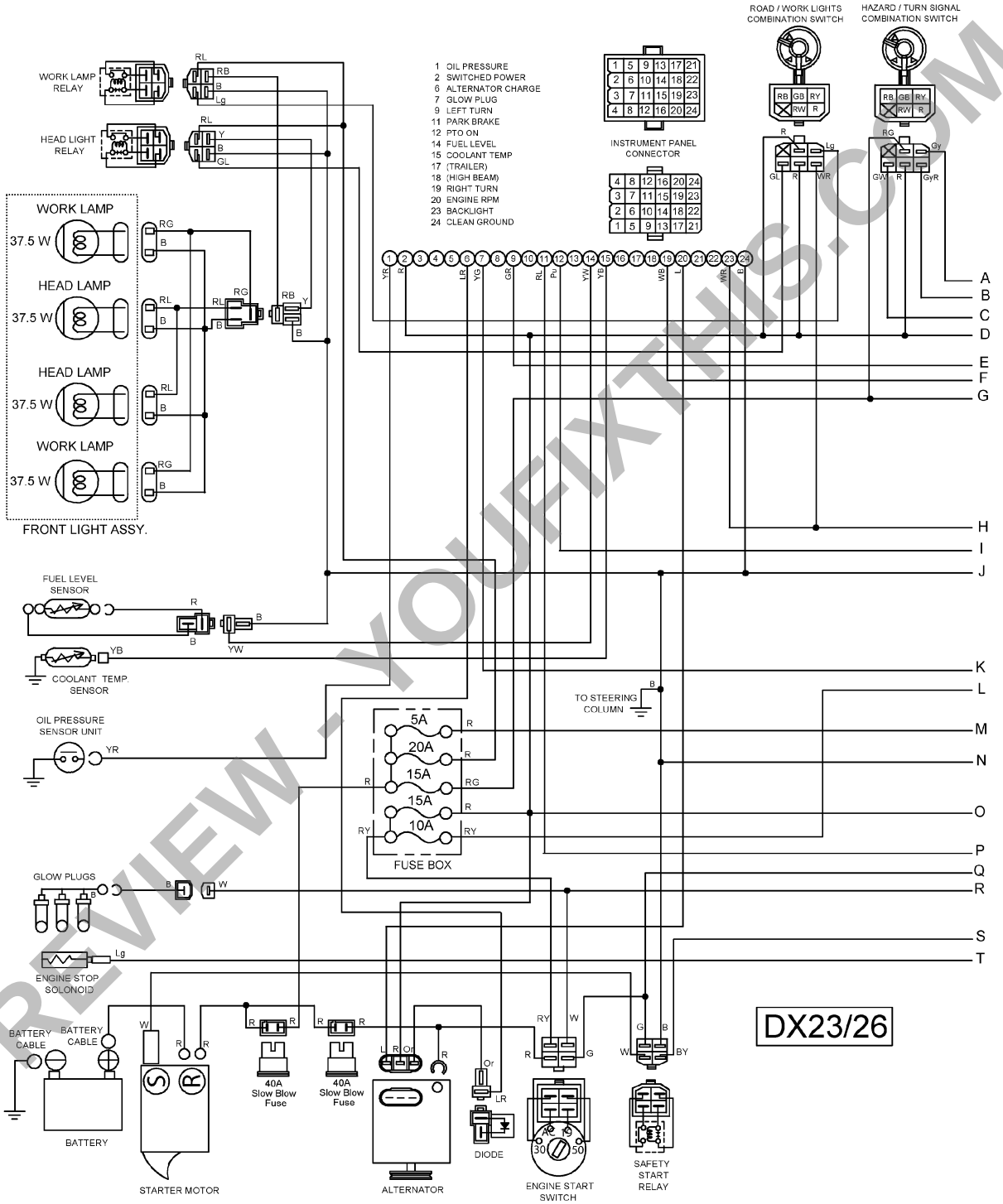
SERVICING THE TRACTOR

1. The cooling system operates under pressure which is controlled by the radiator cap. It is dangerous to remove the cap while the system is hot. Always turn the cap slowly to the first stop and allow pressure to escape before removing the cap entirely.
2. Keep any type of open flame away from the tractor and do not smoke while refueling. Wait for the engine to cool before refueling.
3. Keep the tractor and equipment, particularly brakes and steering, maintained in a reliable and satisfactory condition to ensure your safety and comply with legal requirements.
4. Keep open flame or cold weather starting aids away from the battery to prevent fires or explosions. Use jumper cables according to instructions to prevent sparks which could cause explosion.
5. Stop the engine before performing any service on the tractor.
6. Escaping hydraulic/diesel fluid under pressure can penetrate the skin causing serious injury. If fluid is injected into the skin, obtain medical attention immediately or gangrene may result.
   - DO NOT use your hand to check for leaks. Use a piece of cardboard or paper to search for leaks.
   - Stop the engine and relieve pressure before connecting or disconnecting lines.
   - Tighten all connections before starting the engine or pressurizing lines.
7. Do not modify or permit anyone else to modify or alter this tractor or any of its components or functions without first consulting a Case IH Dealer.
8. The fuel oil in the injection system is under high pressure and can penetrate the skin. Unqualified persons should not remove or attempt to adjust a pump, injector, nozzle, or any other part of the fuel injection system. Failure to follow these instructions can result in serious injury.
9. Continuous long-term contact with used engine oil may cause skin cancer. Avoid prolonged contact with used engine oil. Wash skin promptly with soap and water.

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ELECTRICAL WIRING DIAGRAM



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Bleeding the Injector Lines

Bleed the injector lines if:

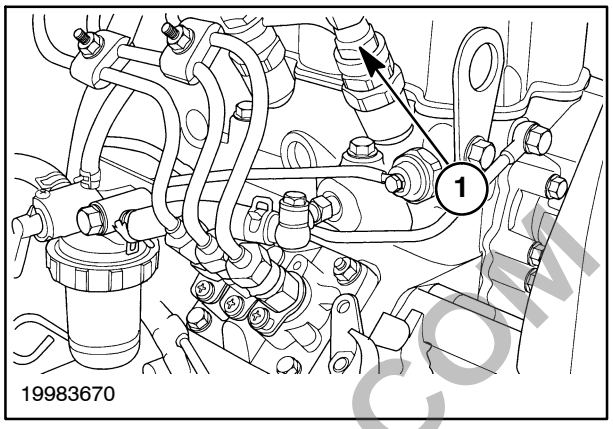
- the tractor has run out of fuel.
- new injectors have been installed.
- the injection pump has been removed for service repairs.

To bleed the injector lines:

1. Loosen the injector line fittings, 1, at the injectors.
2. Move the hand throttle control lever to its wide open position.
3. Crank the engine until air-free fuel flows from each connection, then tighten the fittings to 24-29 N·m (18-22 ft. lbs.).

IMPORTANT: *If air is not purged from the system, repeat the above procedures.*

Do not crank the engine continuously for more than 30 seconds as this may cause starting motor failure.

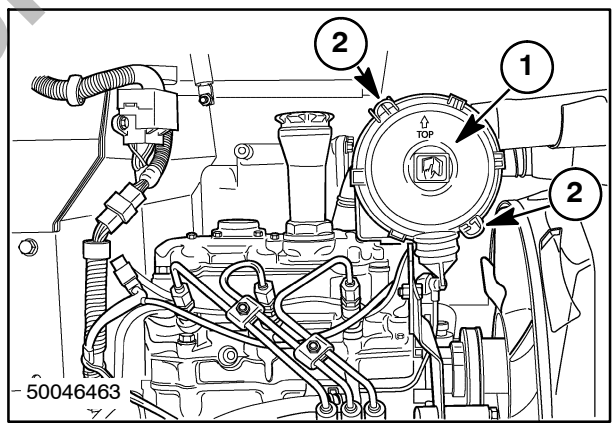


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AIR CLEANER

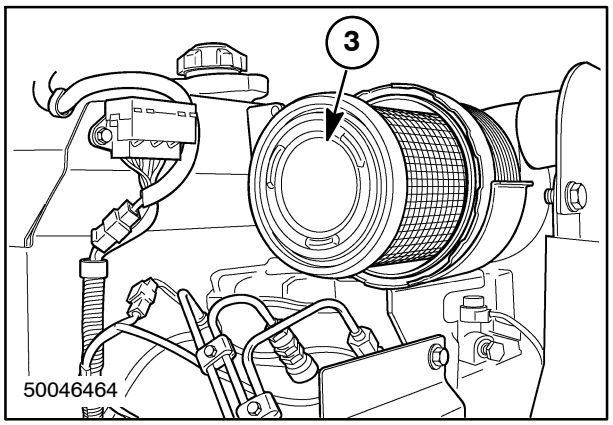
The air cleaner, 1, is accessed by opening the tractor hood.

The air cleaner assembly contains two elements: an outer primary element and an inner safety element.



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To remove the primary element, loosen the spring clamps, 2, and remove the end cap from the air cleaner body to expose the primary element, 3.



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MINIMUM HARDWARE TIGHTENING TORQUES

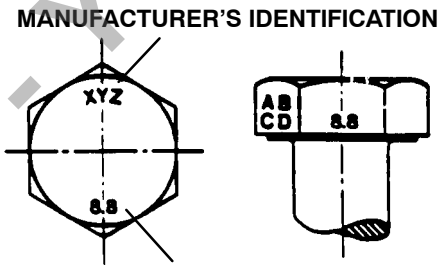
IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

METRIC NON-FLANGED HARDWARE AND LOCKNUTS

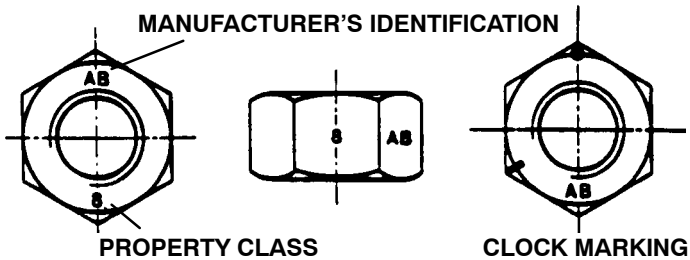
NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	1.7 (15)*	2.2 (19)*	2.6 (23)*	3.4 (30)*	3.7 (33)*	4.8 (42)*	2.3 (20)*
M6	5.8 (51)*	7.6 (67)*	8.9 (79)*	12 (102)*	13 (115)*	17 (150)*	7.8 (69)*
M8	14 (124)*	18 (159)*	22 (195)*	28 (248)*	31 (274)*	40 (354)*	19 (169)*
M10	28 (21)	36 (27)	43 (32)	56 (41)	61 (45)	79 (58)	38 (28)
M12	49 (36)	63 (46)	75 (55)	97 (72)	107 (79)	138 (102)	66 (49)
M16	121 (89)	158 (117)	186 (137)	240 (177)	266 (196)	344 (254)	164 (121)
M20	237 (175)	307 (226)	375 (277)	485 (358)	519 (383)	671 (495)	330 (243)
M24	411 (303)	531 (392)	648 (478)	839 (619)	897 (662)	1160 (855)	572 (422)

NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION
HEX CAP SCREW AND CARRIAGE BOLTS
CLASSES 5.6 AND UP



HEX NUTS AND LOCKNUTS
CLASSES 05 AND UP



86529681 REV F 5.1

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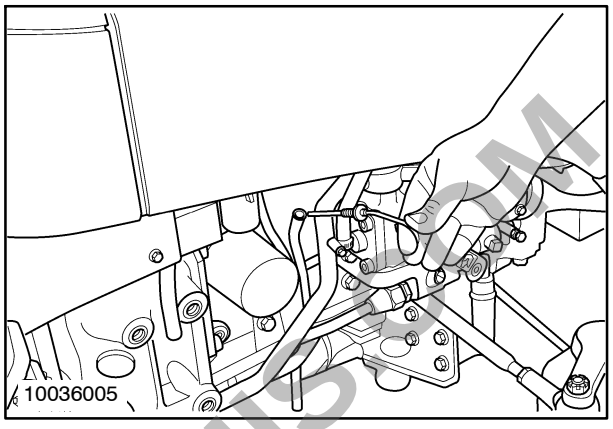
FUEL AND LUBRICANT SERVICE PROCEDURES

ENGINE

Checking the Engine Oil Level

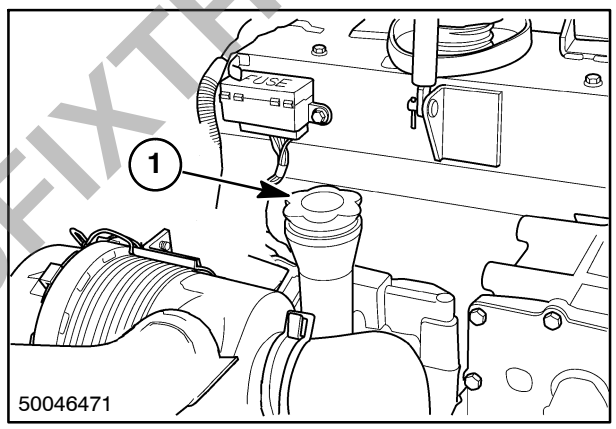
NOTE: *Check the engine oil level daily or after every 10 hours of operation.*

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.



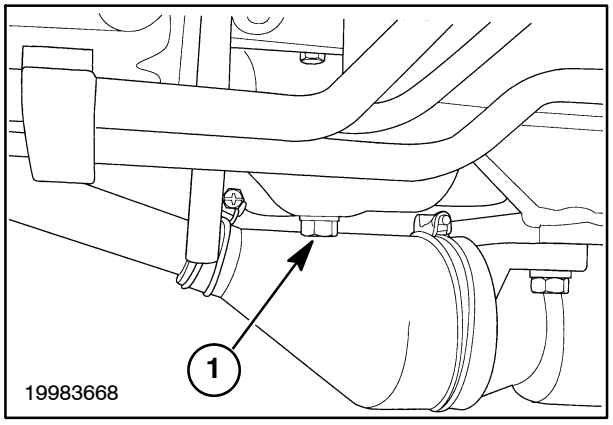
4

Changing the Engine Oil

NOTE: *Change the engine oil and filter after the first 50 hours of operation, then every 100 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 70-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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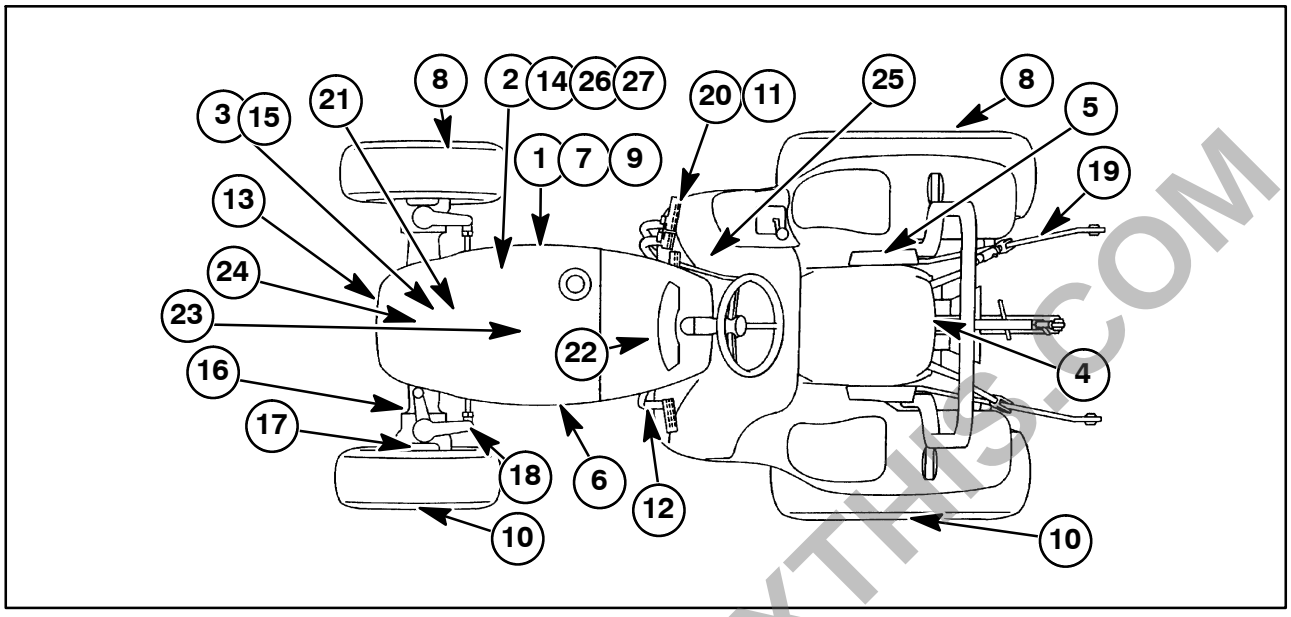
SECTION 4
SPECIFICATIONS

	Model DX23 Hydrostatic/Gear	Model DX26 Hydrostatic
ENGINE		
Type	Diesel	Diesel
Engine Gross Horsepower	23.0	26.0
Cylinders	3	3
Bore	77 mm (3.03 in)	77 mm (3.03 in)
Stroke	72 mm (2.83 in)	81 mm (3.19 in
Displacement	1.005 L (61.3 cu. in.)	1.131 L (69.0 cu. in.)
Compression Ratio	24:1	23.1:1
Firing Order	1-2-3	1-2-3
Low Idle Speed	1100 – 1200 RPM	1100 – 1200 RPM
Maximum Speed:		
High Idle	3025 – 3075 RPM	3025 – 3075 RPM
Rated	2850 RPM	2850 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	20 liters/ 5.3 U.S. gals.	20 liters/ 5.3 U.S. gals.
Cooling System	3.5 liters/ 3.7 U.S. qts.	3.5 liters/ 3.7 U.S. qts.
Engine Crankcase:		
Less Filter	2.6 liters/ 2.7 U.S. qts.	3.0 liters/ 3.2 U.S. qts.
With Filter Change	2.7 liters/ 3.0 U.S. qts.	3.3 liters/ 3.5 U.S. qts.
Rear Axle & Transmission (Includes Hydraulics)	16 liters/ 4.23 U.S. gals.	16 liters/ 4.23 U.S. gals.
Front Axle Final Reduction	0.8 liter/ 0.85 U.S. qt. per side	0.8 liter/ 0.85 U.S. qt. per side
Differential Gear Case	1 liter/ 1.06 U.S. qts.	1 liter/ 1.06 U.S. qts.

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LUBRICATION AND MAINTENANCE CHART
CASE IH DX23/DX26 — FRONT-WHEEL DRIVE



1

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	Hydraulic Filter				X		First 50 Hours
6	H.S.T. Filter				X		
1, 7	Engine Oil & Filter				X		
8	Tire Pressure	X					
9	Fuel Filter				X		
10	Wheel Bolt Torque	X					
11	Brake Pedal Free Play	X					
—	All Fluid Levels	X					
8	Tires	X					Every 50 Hours
11	Brake Pedal Free Play	X					
12	Clutch Pedal Free Play	X		X		X	
13	Battery	X					
9	Fuel Filter	D	R	A	I	N	
14	Power Steering Oil Level	X					
15	Fan Belt	X					
16	Front Axle Oil Level	X					
17	Final Reduction Gear Cases Oil Level	X					
	Lubrication Fittings:						
18	Steering Linkage			X			
19	3-Point Linkage			X			
20	Brake Pedal			X			
21	Power Steering Cylinder			X			
22	Pedal Shaft			X			
23	Drive Cover Shaft			X			
24	Axle Pivot Shaft			X			
25	H.S.T. Pedal Pivot			X			

NO.	LUBRICATION & MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTERVALS
1, 7	Engine Oil & Filter				X		Every 100 Hours
2	Air Cleaner Element		X				
9	Fuel Filter		X				
11	Brake Pedal Free Play					X	Every 200 Hours
9	Fuel Filter Element				X		
15	Fan Belt					X	
10	Wheel Bolt Torque	X					
	Steering Free Play	X				X	
4	Transmission Oil				X		Every 300 Hours
5	Hydraulic Filter				X		
6	H.S.T. Filter				X		
16	Front Axle Oil				X		
17	Final Reduction Gear Cases Oil				X		
14	Power Steering Oil				X		Every 600 Hours
26	Fuel Injector	X				X	
27	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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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 HST transmission range lever, 4, is in the “NEUTRAL” position.
3. Gear transmission, gear shift handle, 5, 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.*

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.

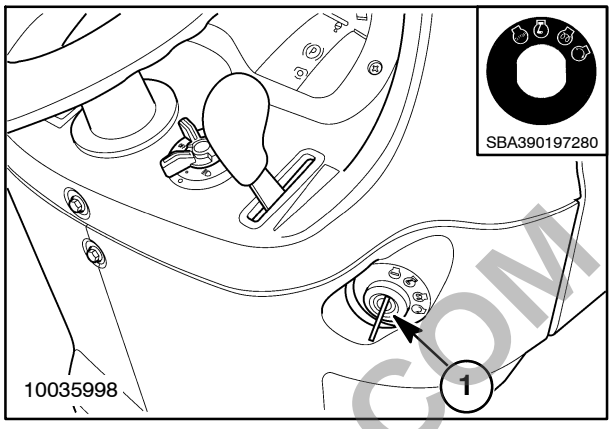
⚠ WARNING ⚠

Always sit in the operator’s seat when starting the tractor. Never attempt to start the engine while standing beside the tractor.

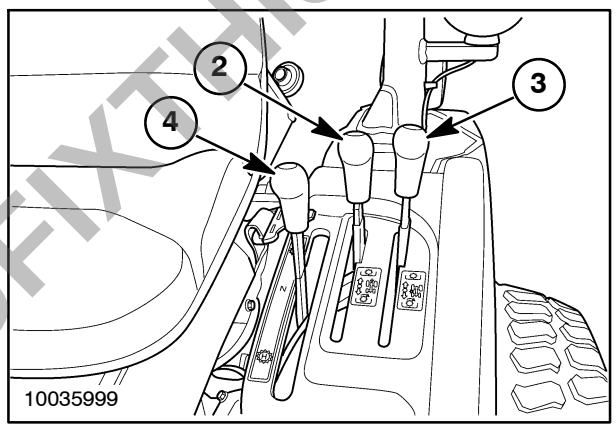
IMPORTANT: *Do not engage the starting motor continuously for more than 30 seconds. Doing so may cause starting motor failure.*

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

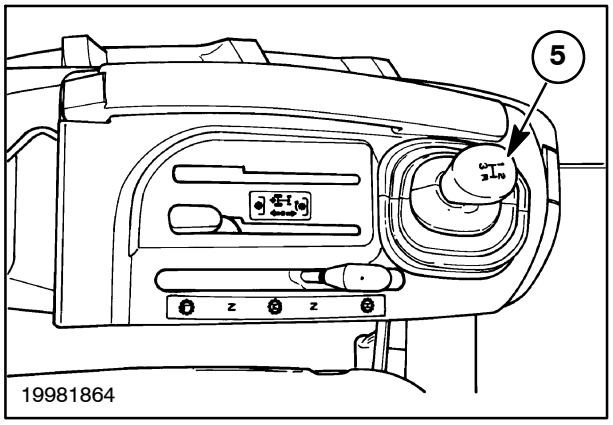
NOTE: *The range lever, 4, or gear shift, 5, must be in the “NEUTRAL” position to allow the operator to leave the seat, when the tractor engine is in operation. If the “REAR PTO” is in the “ON” position, the engine will remain operating. If the “MID PTO” is in the “ON” position, the engine will shut off in approximately two seconds.*



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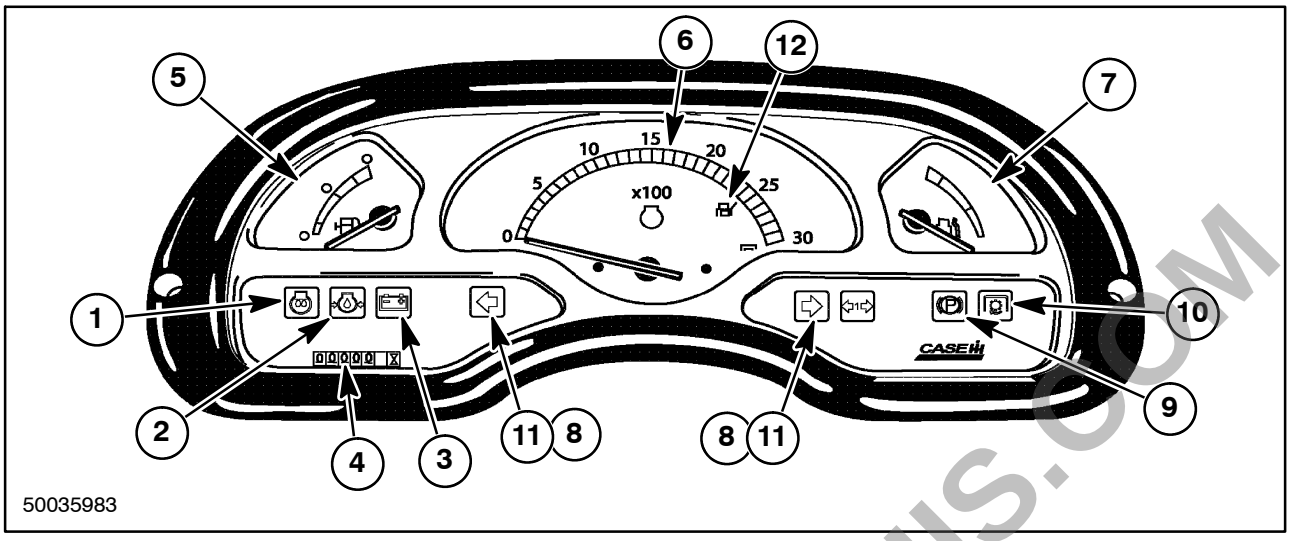
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INSTRUMENT PANEL

1. **Cold Starting Indicator Light** – Illuminates when the key switch is turned to the “ACC/RUN” position. It remains lit for approximately four seconds when the key is in position, during which time the glow plugs are heating the precombustion chambers of the cylinder head.
2. **Engine Oil Pressure Warning Light** – Illuminates with the key switch in the “ACC/RUN” 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 lights during operation, stop the tractor engine immediately and investigate the cause.
3. **Battery Charge Warning Light** – Illuminates when the key switch is in the “ACC/RUN” position and goes out when the engine is started. If this bulb lights 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 “ACC/RUN” position. It will register “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 “ACC/RUN” 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, indicating an overheated condition, stop the tractor engine IMMEDIATELY and investigate the cause.
8. **Flasher Warning Hazard Lights** – Operate when the flasher switch is turned on, regardless of the key switch position. Use the flasher warning lights and the SMV placard when traveling on public roads, day or night.
9. **Parking Brake Light** – Illuminates if the parking brake is engaged when the key switch is turned from the “OFF” position.
10. **PTO “On” Indicator** – When either the rear or mid PTO positions are engaged, and the key switch is in the “ACC/RUN” or “START” position, this indicator will be illuminated amber.
11. **Flasher Turn Lights** – Operate when the turn signal switch is moved to the right for right turns (the RH arrow will flash) or to the left for left turns (the LH arrow will flash.) The key switch must be in the “ACC/RUN” or “START” position for the turn signals to operate.
12. **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. (only on HST tractor)

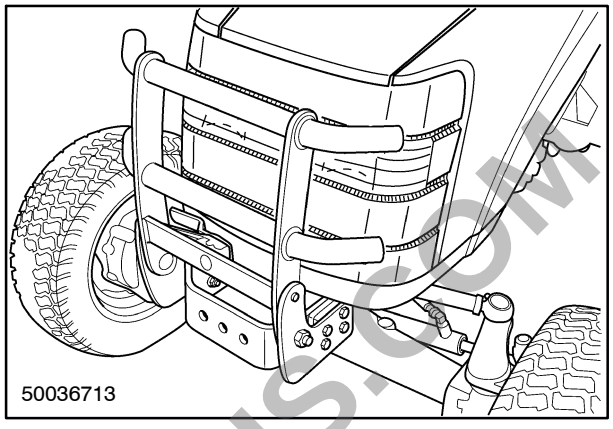
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OPTIONAL ATTACHMENTS

GRILLE GUARD #719849066 (OPTIONAL)

A pivoting grille guard is available to provide protection to the front of the tractor. The grille guard is compatible with a front end loader or front weights.



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