PREVIEW - YOUFIXTHIS.COM

DX48, DX55 Tractors

Operator's Manual

87300478

CASE IH

Download full manual at youfixthis.com

CONTENTS

SAFETY 0-7

GENERAL INFORMATION 1-1

OPERATION 2-1

LUBRICATION AND MAINTENANCE 3-1

SPECIFICATIONS 4-1

INDEX 4-15

DELIVERY REPORT 4-17

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PRECAUTIONARY STATEMENTS

PERSONAL SAFETY

Throughout this manual and on machine decals, you will find precautionary statements ("**DANGER**", "**WARNING**", and "**CAUTION**") followed by specific instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

⚠ DANGER ⚠

This word "DANGER" indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

⚠ WARNING ⚠

This word "WARNING" indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

⚠ CAUTION ⚠

This word "CAUTION" indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

FAILURE TO FOLLOW THE "DANGER", "WARNING", AND "CAUTION" INSTRUCTIONS MAY RESULT IN SERIOUS BODILY INJURY OR DEATH.

MACHINE SAFETY

The precautionary statement ("**IMPORTANT**") is followed by specific instructions. This statement is intended for machine safety.

IMPORTANT: *The word "IMPORTANT" is used to inform the reader of something he needs to know to prevent minor machine damage if a certain procedure is not followed.*

INFORMATION

NOTE: *Instructions used to identify and present supplementary information.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

MINIMUM HARDWARE TIGHTENING TORQUES

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

INCH HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 2		SAE GRADE 5		SAE GRADE 8		LOCKNUTS		NOMINAL SIZE
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	GR.B w/GR5 BOLT	GR.C w/GR8 BOLT	
1/4	55* (6.2)	72* (8.1)	86* (9.7)	112* (13)	121* (14)	157* (18)	61* (6.9)	86* (9.8)	1/4
5/16	115* (13)	149* (17)	178* (20)	229* (26)	250* (28)	324* (37)	125* (14)	176* (20)	5/16
3/8	17 (23)	22 (30)	26 (35)	34 (46)	37 (50)	48 (65)	19 (26)	26 (35)	3/8
7/16	27 (37)	35 (47)	42 (57)	54 (73)	59 (80)	77 (104)	30 (41)	42 (57)	7/16
1/2	42 (57)	54 (73)	64 (87)	83 (113)	91 (123)	117 (159)	45 (61)	64 (88)	1/2
9/16	60 (81)	77 (104)	92 (125)	120 (163)	130 (176)	169 (229)	65 (88)	92 (125)	9/16
5/8	83 (112)	107 (145)	128 (174)	165 (224)	180 (244)	233 (316)	90 (122)	127 (172)	5/8
3/4	146 (198)	189 (256)	226 (306)	293 (397)	319 (432)	413 (560)	160 (217)	226 (306)	3/4
7/8	142 (193)	183 (248)	365 (495)	473 (641)	515 (698)	667 (904)	258 (350)	364 (494)	7/8
1	213 (289)	275 (373)	547 (742)	708 (960)	773 (1048)	1000 (1356)	386 (523)	545 (739)	1

NOTE: Torque values shown with * are inch pounds.

IDENTIFICATION
CAP SCREWS AND CARRIAGE BOLTS



SAE GRADE 2 | SAE GRADE 5 | SAE GRADE 8

REGULAR NUTS | SAE GRADE 5 HEX NUTS | SAE GRADE 8 HEX NUTS

LOCKNUTS



GRADE IDENTIFICATION
GRADE A NO NOTCHES
GRADE B ONE CIRCUMFERENTIAL NOTCH
GRADE C TWO CIRCUMFERENTIAL NOTCHES



GRADE IDENTIFICATION
GRADE A NO MARKS
GRADE B THREE MARKS
GRADE C SIX MARKS
MARKS NEED NOT BE LOCATED AT CORNERS



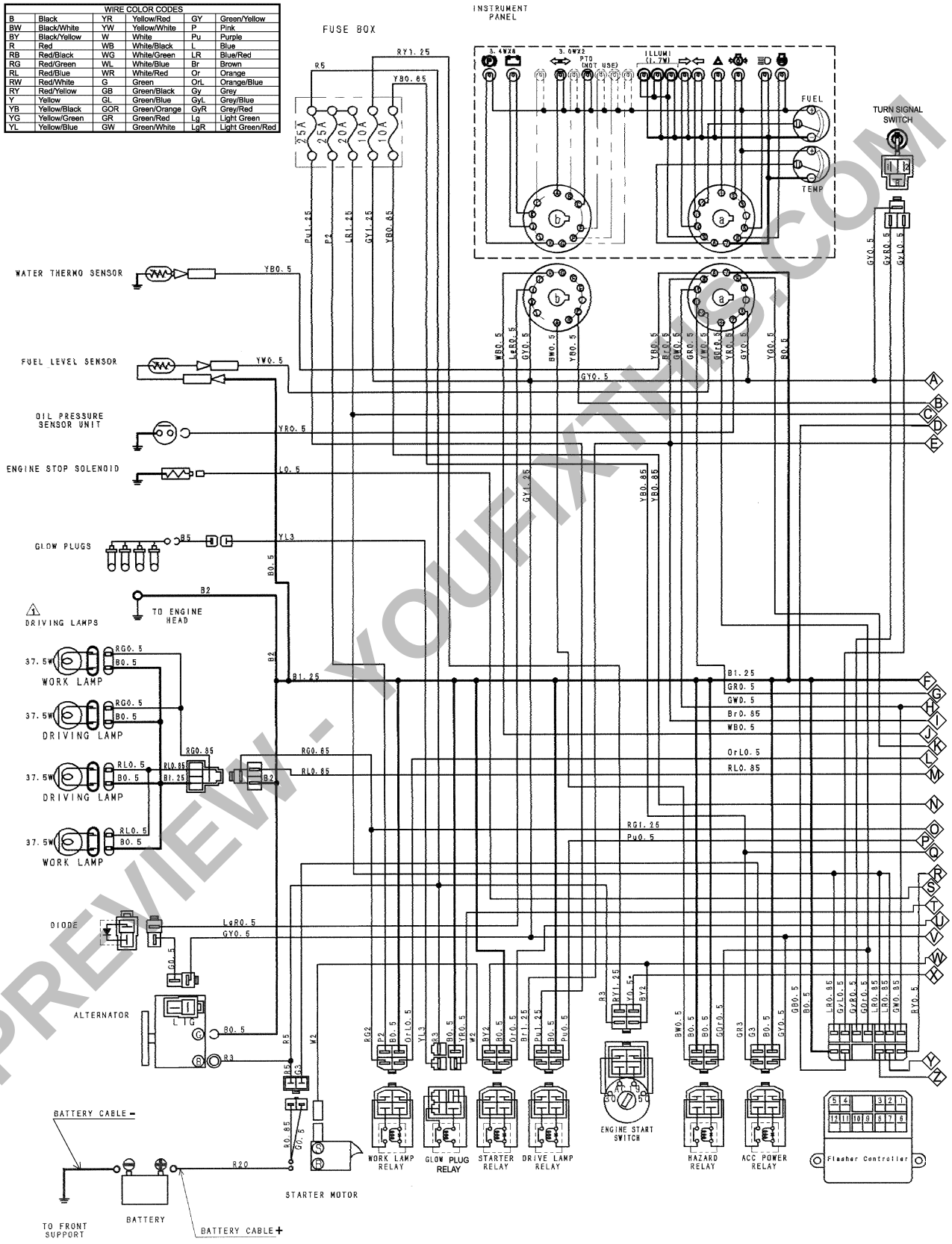
GRADE A NO MARK
GRADE B LETTER B
GRADE C LETTER C

GRADE IDENTIFICATION

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

WIRE COLOR CODES					
B	Black	YR	Yellow/Red	GY	Green/Yellow
BW	Black/White	YW	Yellow/White	P	Pink
BY	Black/Yellow	W	White	Pu	Purple
R	Red	WB	White/Black	L	Blue
RB	Red/Black	WG	White/Green	LR	Blue/Red
RG	Red/Green	WL	White/Blue	Br	Brown
RL	Red/Blue	WR	White/Red	Or	Orange
RW	Red/White	G	Green	OrL	Orange/Blue
RY	Red/Yellow	GB	Green/Black	Gy	Grey
Y	Yellow	GL	Green/Blue	GyL	Grey/Blue
YB	Yellow/Black	GOR	Green/Orange	GyR	Grey/Red
YG	Yellow/Green	GR	Green/Red	Lg	Light Green
YL	Yellow/Blue	GW	Green/White	LgR	Light Green/Red



50036033

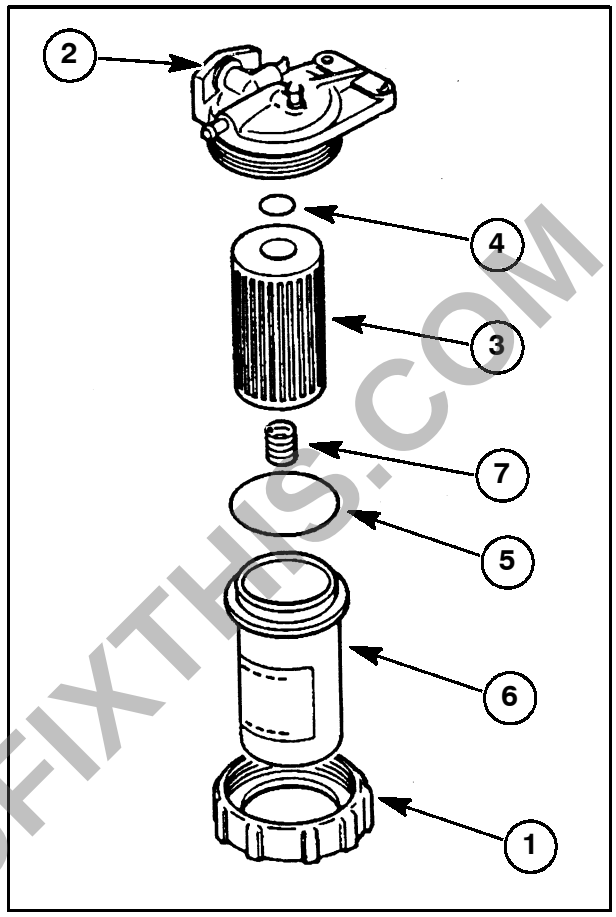
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Changing the Fuel Filter

NOTE: *Change the diesel fuel filter after the first 50 hours of operation, then following every 200 operating hours thereafter.*

1. Make sure there is adequate fuel in the fuel tank and close the fuel shutoff valve, 2. (Turn the handle clockwise to the “OFF” position.)
2. Unscrew the retaining nut, 1, and remove, empty, and clean the fuel sediment bowl, 6. Remove and set aside the filter element, 3, O rings, 4 and 5, and element retaining spring, 7.
3. Open the fuel shutoff valve to allow fuel to flow from the filter. Close the shutoff valve when all water has been removed and only fuel flows from the filter base.
4. Inspect the O rings, 4 and 5, and replace if necessary.
5. Discard the old element, 3, and install a new element, with the upper O ring, 4.
6. Install spring, 7, between bottom of the element and the fuel sediment bowl.
7. Reinstall the lower O ring, 5, and sediment bowl, 6, securing with the retaining nut, 1.
8. Open the fuel shutoff valve, 2, (turn the handle counterclockwise to the “ON” position), so fuel will flow to the filter.
9. Bleed the fuel filter and injection pump as described below in “Bleeding the Fuel System.”



8

Bleeding Air From the Fuel System

The vehicle has an auto-bleed system which should exhaust all air if the engine is cranking.

The system should bleed with minimal cranking if the sediment bowl is filled with fuel.

If the bowl is slow in filling, there is likely a blockage in the return vent lines.

Manually 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.

PREVIEW - YOUFIXTHIS.COM

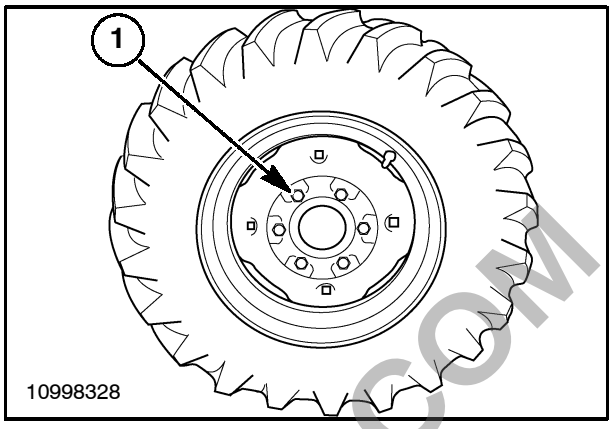
Download full manual at youfixthis.com

WHEEL BOLT TORQUE

Tighten the front wheel bolts, 1, to the specified torque any time the wheel assembly is removed from the tractor or the wheel bolts are loosened.

Front Wheel Torque
125 ft. lbs. (169 N·m)

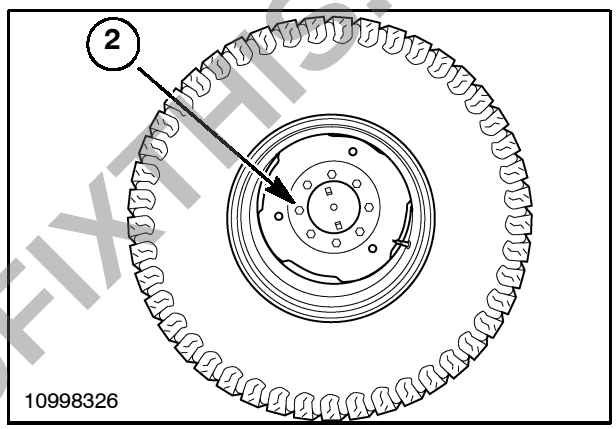
NOTE: *Torque for the front wheels is the same for 2WD and FWD axles.*



40

Rear Wheel Torque
125 ft. lbs. (169 N·m)

Check rear wheel bolt, 2, torque daily until torque stabilizes.

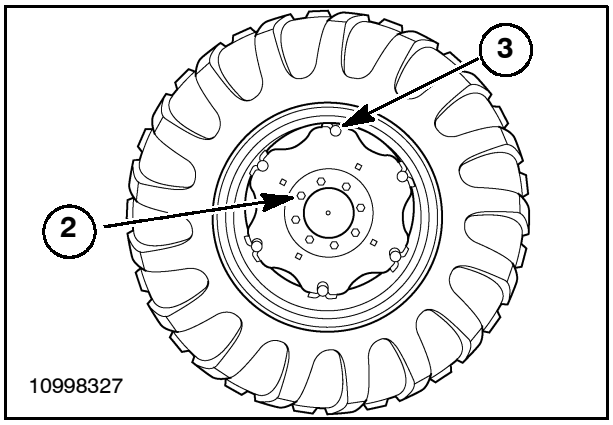


41

RIM TO DISC BOLT TORQUE

Tighten the rim to disc bolts, 3, to the specified torque anytime the wheel spacing is changed or bolts have been loosened.

Rear Disc Torque
180 ft. lbs. (244 N·m)



42

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

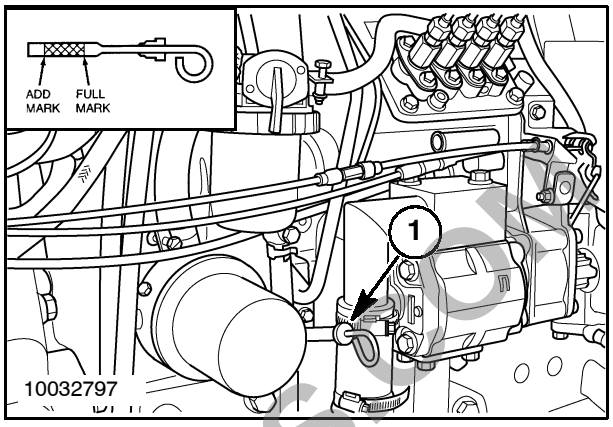
FUEL AND LUBRICANT SERVICE PROCEDURES

ENGINE

Checking the Engine Oil Level

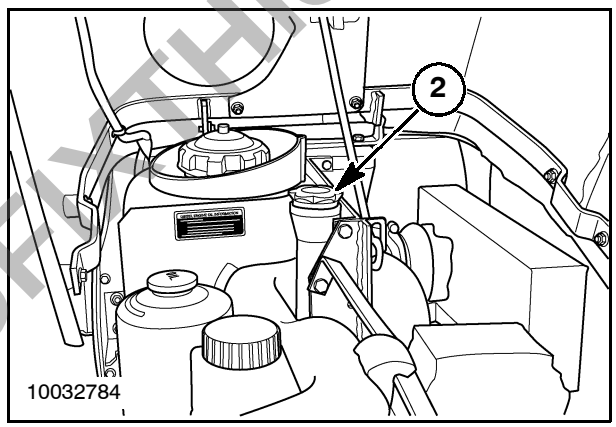
NOTE: *Check the engine oil level daily or after every 10 hours of operation.*

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, 1.



3

2. If the oil level is low, remove the filler cap, 2, 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.



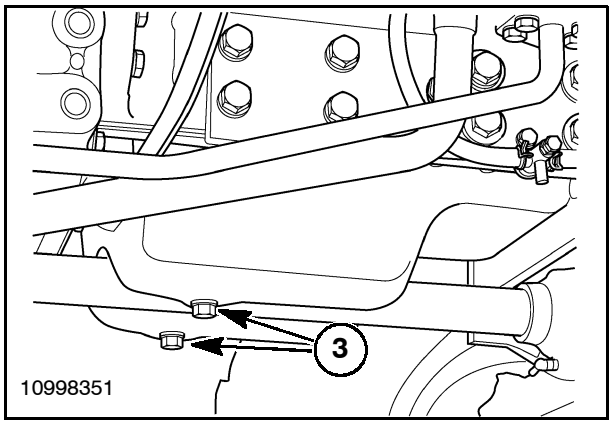
4

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 openings to catch the used oil. With the tractor engine off but at normal operating temperature, remove the drain plugs, 3. Reinstall the plugs after all of the oil has been drained.



5

NOTE: *Remove both drain plugs to properly drain all oil.*

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

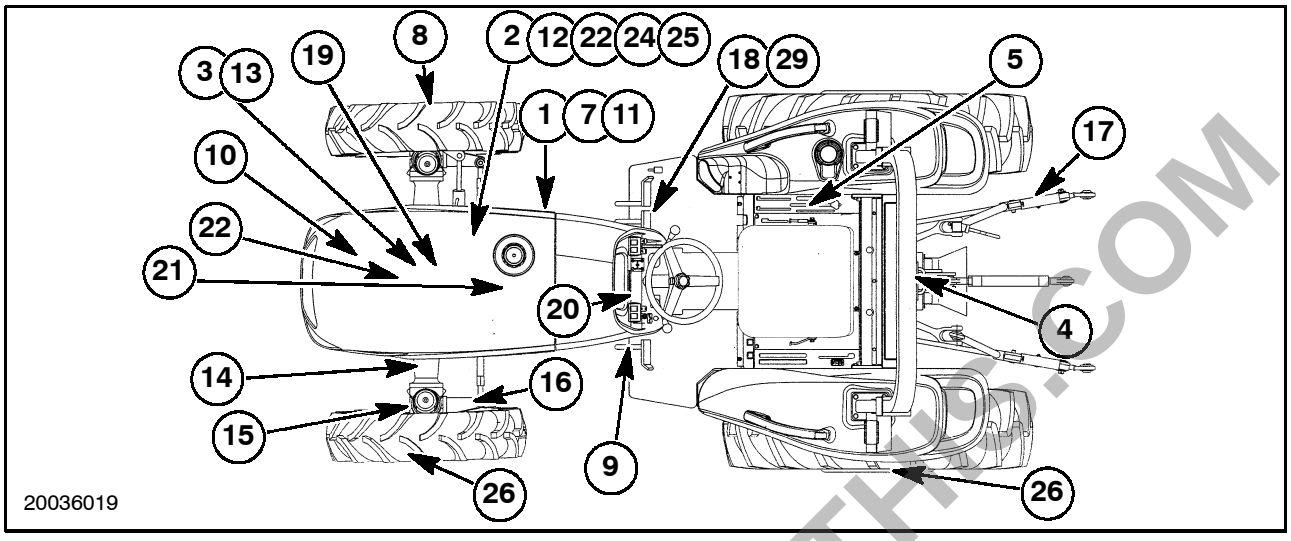
SECTION 4
SPECIFICATIONS

	Model DX48	Model DX55
ENGINE		
Type/Model	Diesel/844L	Diesel/N844L-T
Engine Gross Horsepower	35.8 kw (48)	41.0 kw (55)
Cylinders	4	4
Bore	84 mm (3.31″)	84 mm (3.31″)
Stroke	100 mm (3.94″)	100 mm (3.94″)
Displacement	2.2 L (135.2 cu. in.)	2.2 L (135.2 cu. in.)
Compression Ratio	22.4:1	22.4:1
Firing Order	1-3-4-2	1-3-4-2
Low Idle Speed	1000 RPM (± 50)	1000 RPM (± 50)
Maximum Speed:		
High Idle	3000 RPM (± 50)	2900 RPM (± 50)
Rated	2800 RPM (± 50)	2700 RPM (± 50)
CAPACITIES		
Fuel Tank	51.0 liters/ 13.5 U.S. gals.	51.0 liters/ 13.5 U.S. gals.
Cooling System	8.0 liters/ 8.4 U.S. qts.	8.0 liters/ 8.4 U.S. qts.
Engine Crankcase:		
With Filter	7.0 liters/ 6.62 U.S. qts.	7.0 liters/ 6.62 U.S. qts.
Rear Axle & Transmission (EHSS & SSS) (Includes Hydraulics)	42.0 liters/ 11.1 U.S. gals.	42.0 liters/ 11.1 U.S. gals.
Power Steering	1.8 liters/ 1.9 U.S. qts.	1.8 liters/ 1.9 U.S. qts.
Front Axle Final Reduction /Differential Gear Case	5.8 liters/ 6.1 U.S. qts.	5.8 liters/ 6.1 U.S. qts.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

LUBRICATION AND MAINTENANCE CHART
CASE IH DX48, DX55 — FRONT-WHEEL DRIVE



1

NO.	LUBRICATION & MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTER-VALS
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
1, 7	Engine Oil & Filter				X		
8	Tire Pressure	X					
11	Fuel Filter				X		
26	Wheel Bolt Torque	X					
—	All Fluid Levels	X					
8	Tires	X					Every 50 Hours
9	Clutch Pedal	X		X		X	
10	Battery	X					
12	Power Steering Oil Level	X					
13	Fan Belt	X					
14	Front Axle Oil Level	X					
15	Final Reduction Gear Cases Oil Level	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			

NO.	LUBRICATION & MAINTENANCE ITEMS	CHECK	CLEAN	LUBE	CHANGE	ADJUST	SERVICE INTER-VALS
1, 7	Engine Oil & Filter				X		Every 100 Hours
2	Air Cleaner Element		X				
11	Fuel Filter		X				
29	Brake Pedal Free play					X	Every 200 Hours
11	Fuel Filter Element				X		
13	Fan Belt					X	
26	Wheel Bolt Torque	X					
4	Transmission Oil				X		Every 300 Hours
5	Hydraulic Filter				X		
14	Front Axle Oil				X		
15	Final Reduction Gear Cases Oil				X		
12	Power Steering Oil & Filter				X		Every 600 Hours *Refer to Repair Manual
24*	Fuel Injector	X				X	
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

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SECTION 2
OPERATION

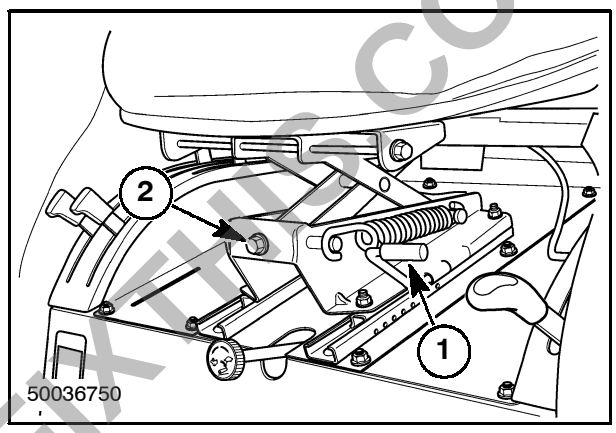
CONTROLS AND INSTRUMENTS

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

Adjusting the Tractor Seat
Your Case IH 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, turn the adjustment bolt, 2, clockwise for a firmer ride or counter clockwise for a softer ride.

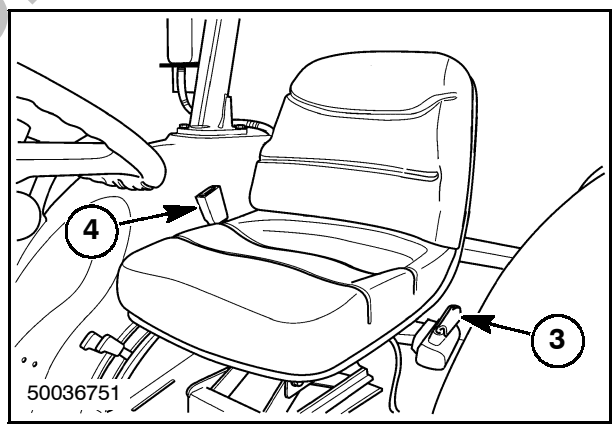


1

Adjusting the Seat Belt
The male end of the seat belt, 3, is part of a retraction mechanism, located on the left side of the seat. To extend length of seat belt, pull out on male end until correct length is obtained. To latch belt, insert male end, 3, into belt latch, 4, located on right side of seat. Be sure belt is securely latched 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 re-dye the webbing, as these products will also weaken the webbing.

Replace the seat belt if it becomes damaged or worn.



2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

STARTING THE ENGINE

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

1. The PTO modulation lever, 2, is in the “OFF” position.
2. The forward/reverse shuttle lever, 3, is in the “NEUTRAL” position.
3. The operator is sitting in the seat OR the parking brake is engaged.

NOTE: *Without the operator in the seat or the parking brake not engaged, the starter motor will be activated but the engine will not start, because the fuel solenoid is not energized and not allowing fuel to flow to the injection pump.*

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.

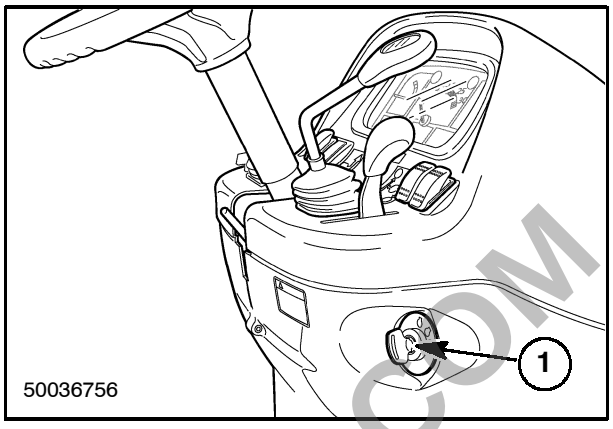
⚠ WARNING ⚠

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

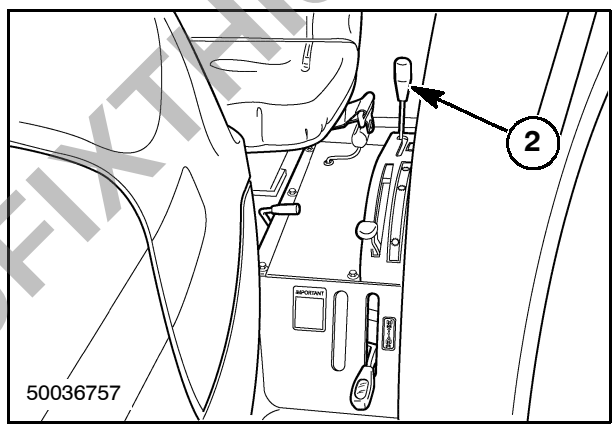
IMPORTANT: *Do not engage the starting motor continuously for more than 30 seconds. Doing so may cause starting motor failure.*

The engine will shut off in approximately two seconds if the operator leaves the seat without the parking brake engaged and without the shuttle lever in the neutral position.

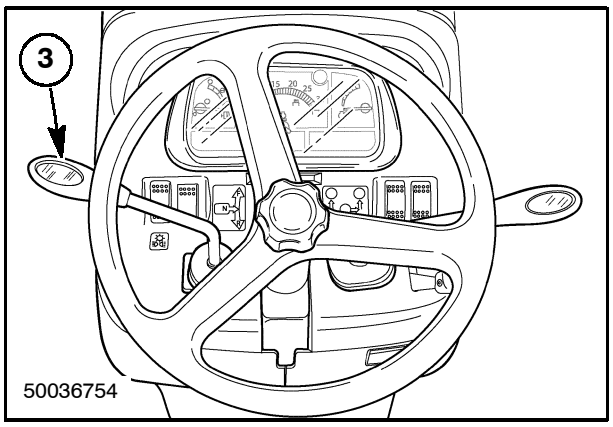
NOTE: *The parking brake MUST be engaged and the shuttle lever must be in the neutral position to allow the operator to leave the seat, when the tractor engine is in operation.*



10



11



12

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 12 of 126 pages

The full manual includes:

- All 126 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case IH DX48, DX55 Operator Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual