JUMP STARTING THE TRACTOR

USING JUMPER CABLES (Booster Cables)

⚠ WARNING ⚠

Always sit in the driver's seat to operate the starter motor. If the key-start switch is by-passed and the tractor has been left in gear, sudden and unexpected movement of the tractor or a tractor runaway may result, causing serious injury. Wear eye protection when starting the tractor with jumper cables or when charging the battery.

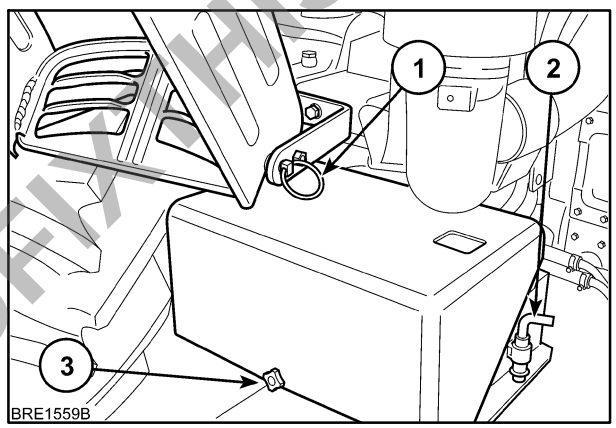
If it is necessary to use jumper cables (booster cables) to start the tractor, use only heavy duty cables and proceed as follows.

Remove the spring clip above the lower tread on the right-hand cab access steps. Swing the steps up, align the two holes in the right-hand step support and insert the shank of the spring clip, 1, to lock the steps in the raised position.

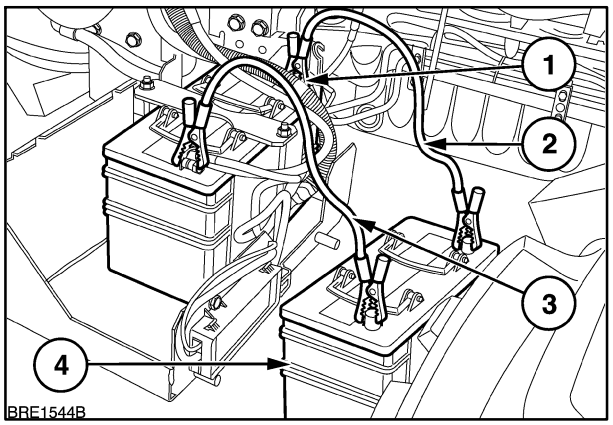
⚠ CAUTION ⚠

Ensure the steps are safely supported by the spring clip. Exercise extreme caution when working in close proximity to the steps, while swinging the battery out for access.

- Lift the retaining catch, 2, on the battery tray and swing the battery/tray assembly out. Unscrew the knurled nut retaining the battery cover, 3, and lift the cover off.
- Connect one end of the red jump cable, 2, to the tractor battery positive (+) terminal, 1, and the other end to the positive (+) terminal of the auxiliary battery, 4.
- Connect one end of the black jump cable, 3, to the tractor battery negative (–) terminal and the other end to the negative (–) terminal of the auxiliary battery, 4. Follow the starting procedure described in STARTING THE ENGINE, in this section.



7



8

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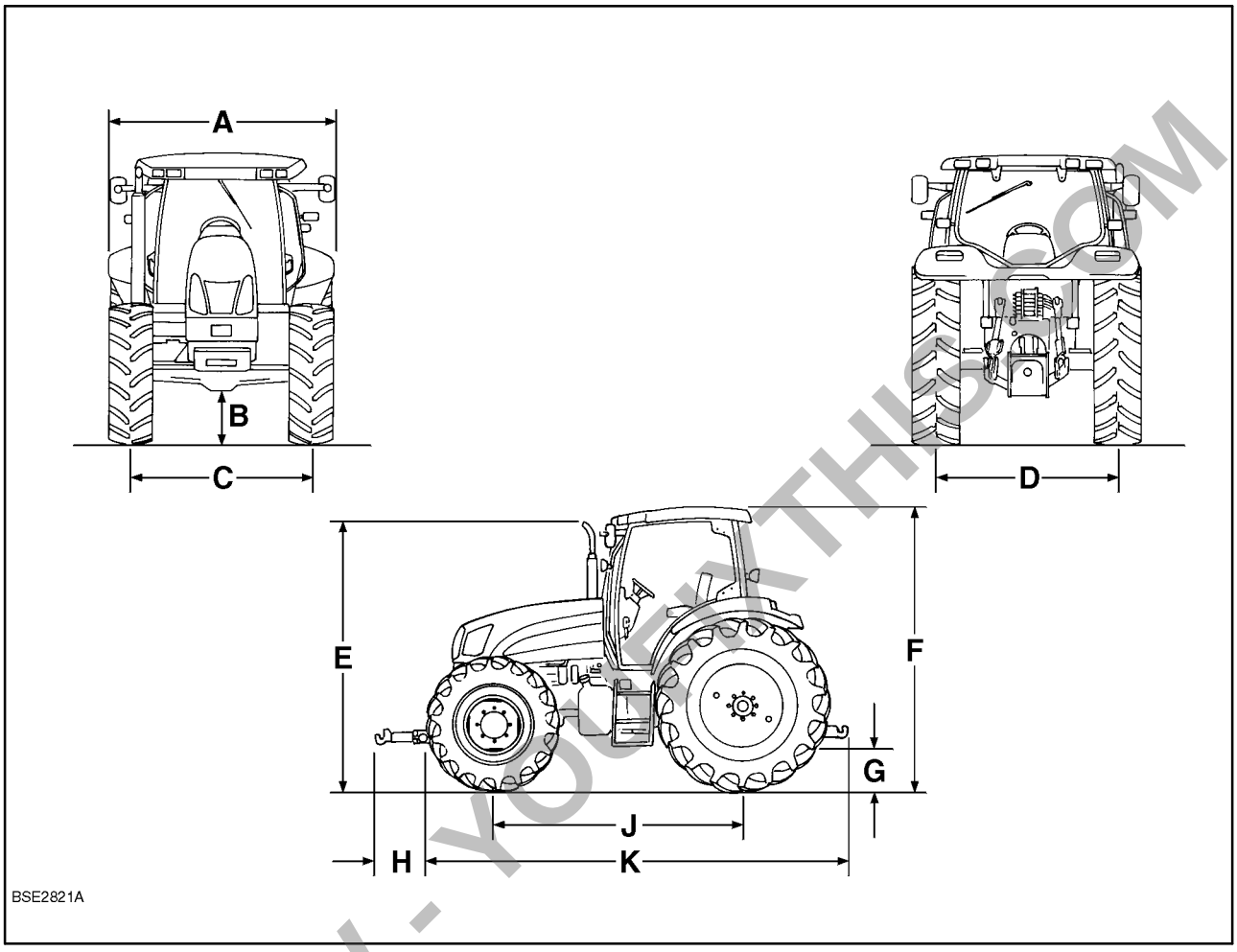
ENGINE TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Engine will not start or is difficult to start	Incorrect starting procedure.	Review starting procedure.
	Low or no fuel.	Check fuel level.
	Air in fuel lines.	Bleed fuel system.
	Low ambient temperature.	Use cold starting aid.
	Contaminated fuel system.	Clean and bleed fuel system.
	Fuel pump inoperative.	Check fuse. If satisfactory, replace pump.
	Clogged fuel filter(s).	Replace fuel filter element(s).
	Malfunctioning fuel injectors.	See your authorized dealer.
	Malfunctioning fuel solenoid or solenoid relay.	See your authorized dealer.
	Incorrect engine oil viscosity.	Use correct viscosity oil.
	Incorrect fuel for operating temperature.	Use correct type fuel for temperature conditions.
	Slow starter speed.	See slow starter speed in Electrical.
Engine runs roughly and/or stalls	Clogged fuel filter(s).	Replace fuel filter element(s).
	Contaminated fuel system.	Clean and bleed fuel system.
	Fuel solenoid incorrectly adjusted.	See your authorized dealer.
	Fuel cap vent blocked.	Wash cap in clean fuel oil.
Engine knocks	Fuel injection pump timing.	See your authorized dealer.
	Low engine oil level.	Add oil, as required.
	Low engine oil pressure.	See your authorized dealer.
	Low engine operating temperature.	Check thermostats.
	Engine overheats.	See Engine overheats.

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GENERAL DIMENSIONS – TS100A



NOTE:*The following dimensions are based on Plus and Deluxe tractors fitted with tire sizes shown. Allowance must be made for tires of larger or smaller dimensions:*

		TS100A		
		2WD	4WD	4WD SuperSteer™
The following dimensions are based on tractors with tire sizes shown:	Front	7.50 x 16	14.9 R24	14.9 R24
	Rear	16.9 R38	16.9 R38	16.9 R38
A. Width across fenders				
Standard fenders	mm	2170	2170	2170
	in	85.4	85.4	85.4
Extended fenders	mm	2550	2550	2550
	in	100.3	100.3	100.3

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LUBRICATION AND MAINTENANCE CHART

Service Interval	Operation No.	Maintenance Requirement	Check	Clean	Lube	Change	Adjust	Drain	Wash	Page No.
When warning lamp lights	1	Engine air cleaner outer element	X	X						4-10
	2	Brake fluid level	X				X			4-12
	3	Fuel system water separator	X					X		4-12
	4	Engine coolant level	X				X			4-13
Every 10 hours or daily	5	Engine oil level	X				X			4-14
	6	Windshield washer reservoir	X				X			4-14
Every 50 hours	7	Radiator, oil cooler and air conditioner condenser	X	X						4-15
	8	Cab air filters	X	X						4-16
	9	All grease fittings			X					4-18
	10	Front and rear wheel nut torque	X				X			4-24
	11	Tire pressures and condition	X				X			4-25
	12	Remote control valve drain bottles	X							4-25
Every 100 hours	13	A/C drive belts	X				X			4-25
Every 300 hours	14	Poly V-belt	X				X			4-26
	*15	Battery electrolyte level (tropical climates)	X	X			X			4-26
	16	Four wheel drive front axle and hubs oil level	X				X			4-28
	17	Front suspension cylinder upper bearing			X					4-28
	18	Transmission/rear axle/hydraulics oil level	X				X			4-29
	19	Cab mounting bolts torque	X				X			4-29
	20	Parking brake	X				X			4-31
Every 600 hours	#21	Engine oil and filter				X				4-32
	22	Hydraulic and transmission oil filters				X				4-34
	23	Air cleaner outer element				X				4-35
	24	Engine air intake connections	X							4-35
	25	Fuel pre-filter and fuel filter elements	X			X				4-36
Every 1200 hours or annually	26	Cab air filters				X				4-39
	27	Transmission/rear axle/hydraulic oil and filter				X				4-40
	28	Four wheel drive axle differential oil				X				4-41
	29	Four wheel drive axle hub oil				X				4-42
	30	Battery electrolyte level (temperate climates)	X	X			X			4-43
Every 1200 hours or two years	31	Engine coolant				X				4-44
	32	Engine air cleaner inner element				X				4-48
	33	Check and adjust tappet clearance	X				X			4-49
Every 1800 hours	34	Fuel injectors	X	X			X			4-50
Every Three Years	35	Air Conditioner System	X	X		X				4-51
General Maintenance	36	Bleeding the fuel injection system	X				X			4-52
	37	Foot brakes	X				X			4-52
	38	Engine idle speed	X				X			4-53
	39	Headlight and worklamp adjustment	X			X				4-53
	40	Bulb replacement	X			X				4-54
	41	Fuse replacement	X			X				4-57
	42	Cleaning the tractor	X	X						4-63

***** Batteries on tractors operating in temperate climates need only be checked every 1200 hours.

Oil and filter change interval will be reduced if the diesel fuel has a high sulphur content or if the tractor is operated in extremely cold temperatures. See page 4-32.

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STARTING THE ENGINE

GRID HEATER OPERATION

⚠ DANGER ⚠

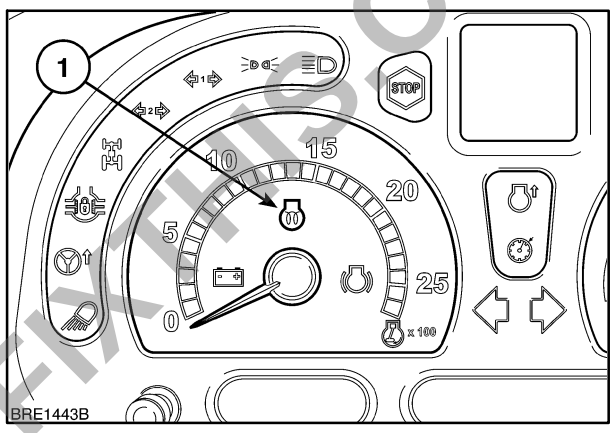
Your tractor can be equipped with an electronic cold weather starting aid. Do not use ether with the cold start aid installed. It will explode in the intake manifold. If any difficulty is experienced when trying to start your tractor in cold temperatures, consult your authorized dealer.

The grid heater, which is effective in ambient temperatures down to −18°C (0°F), consists of a heating element installed in the intake manifold. Operation of the grid heater is automatic when the the engine coolant temperature falls to 0°C (32°F) on 100 and 115 models or −3°C (26.6°F) on 125 and 135 models.

Turning the key-start switch to position 4 (ON) will activate the grid heater raising the temperature of the intake air prior to it being drawn into the combustion chamber. The cold start indicator light, 1, will illuminate to confirm operation.

When the cold start indicator light extinguishes, turn the key-start switch fully clockwise to position, 5, Figure 3, to operate the starting motor. Crank the engine until it starts but do not operate the starting motor for more than 60 seconds.

If temperatures below −18°C (0°F) are encountered, a block coolant heater is available as an accessory. The block coolant heater is effective in ambient temperatures down to −29°C (−20°F) when used in conjunction with the grid heater.

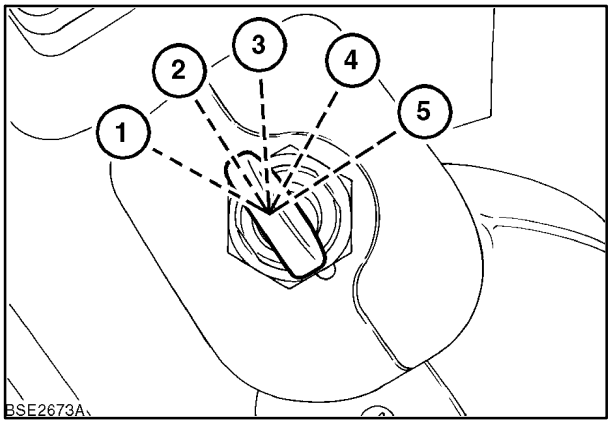


2

KEY-START SWITCH

A five-position key-start switch is installed. The key-start switch positions are as follows:

Position 1	Not used
Position 2	Off
Position 3	Accessories on
Position 4	Grid heater, warning lights and instruments on
Position 5	Grid heater on, Starter motor engaged



3

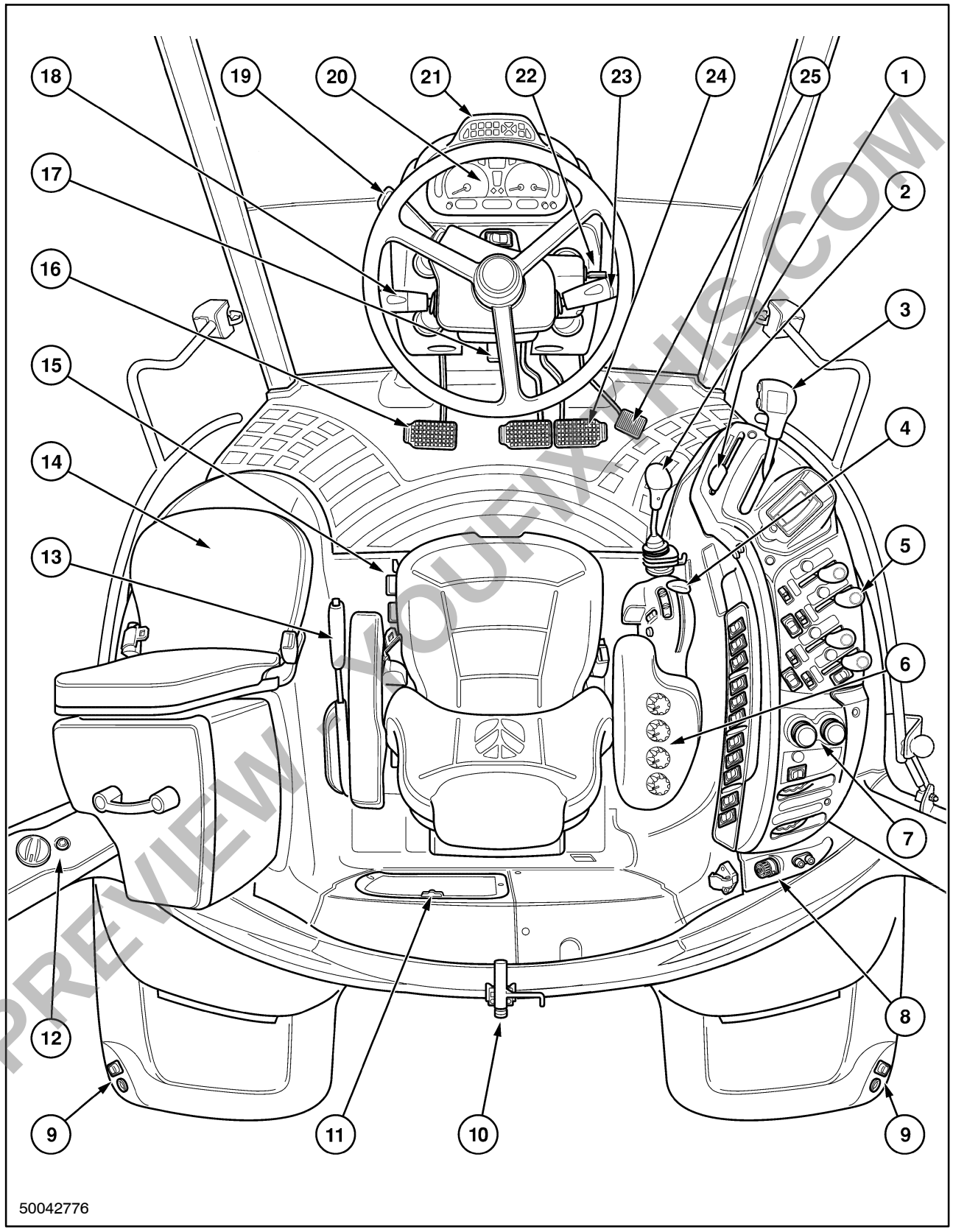
IMPORTANT: *Never push or tow the tractor to start the engine. Use an auxiliary battery and jumper cables.*

NOTE: *Neutral start switches prevent operation of the starting motor unless the shuttle lever is in the neutral (N) position.*

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CAB AND PLATFORM CONTROLS



1

General View of Tractor Controls - With Cab

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MINIMUM HARDWARE TIGHTENING TORQUES

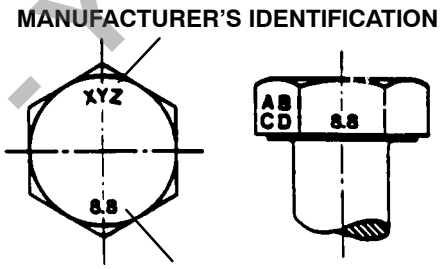
IN NEWTON-METERS (FOOT POUNDS) FOR NORMAL ASSEMBLY APPLICATIONS

METRIC NON-FLANGED HARDWARE AND LOCKNUTS

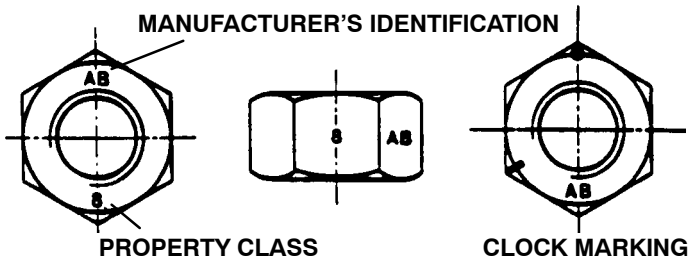
NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	1.7 (15)*	2.2 (19)*	2.6 (23)*	3.4 (30)*	3.7 (33)*	4.8 (42)*	2.3 (20)*
M6	5.8 (51)*	7.6 (67)*	8.9 (79)*	12 (102)*	13 (115)*	17 (150)*	7.8 (69)*
M8	14 (124)*	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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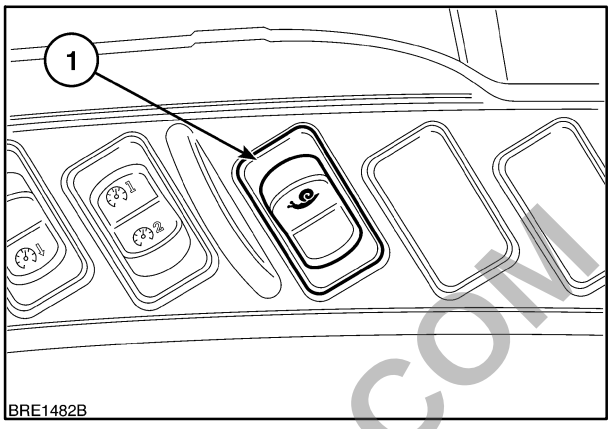
CREEPER GEARS (where fitted)

For operations requiring extra low ground speeds, reduction gear sets (creeper gears) are available.

The reduction gear set provides an additional twenty four gears in forward and reverse.

The creeper gears are selected with a rocker switch, 1, located on the right-hand console.

With the engine running, the clutch pressed and the shuttle lever in neutral, apply the tractor foot brakes. Momentarily press the upper part of the selector switch, 1, to engage the creeper gears.

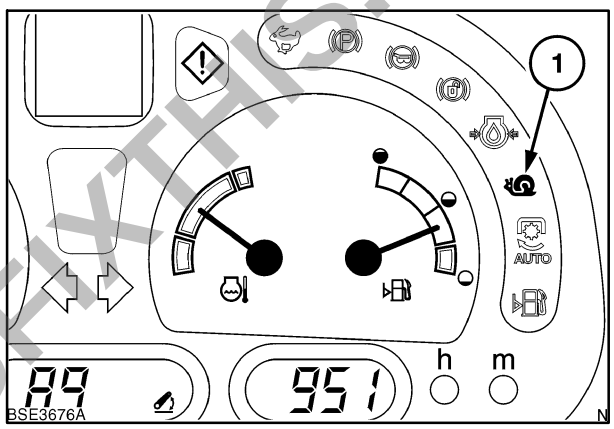


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The creep speed symbol, 1, will appear in the Instrument panel.

To disengage the creeper gears, repeat the above procedure. The creep speed symbol will cease to illuminate.

IMPORTANT: *The creeper gears offer very low ground speeds. Do not use the low gearing advantage to apply excessive draft loads to the tractor.*



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ERROR CODES (24 x 24)

If a fault occurs in the transmission controls, causing the tractor to become disabled, an error code will be displayed on the instrument panel. If this happens, contact your authorized dealer and report the error code. Disabling error codes are shown in the table to the right.

Transmission Calibration

If transmission shifts become slow or harsh, the clutches in the transmission require re-calibrating. Consult your authorized dealer.

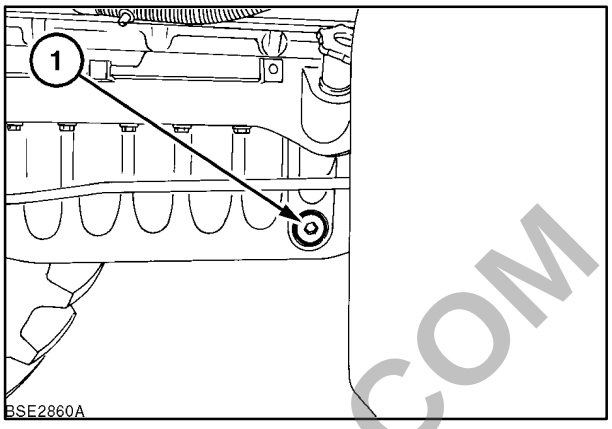
Error Code	Fault
2011	Clutch pedal potentiometer signal too low.
2012	Clutch pedal potentiometer signal too high.
2021	Drive line harness disconnected.
2035	Dump solenoid closed circuit.
2036	Dump solenoid open circuit.
2037	Clutch disconnect switch open circuit.
2038	Clutch 3 solenoid short circuit.
2039	Clutch 3 solenoid open circuit.
2040	Clutch 4 solenoid short circuit.
2041	Clutch 4 solenoid open circuit.
2048	Clutch pedal switch set too low.
2053	5 volt reference failed, shorted to 12 volts.
2054	5 volt reference failed, shorted to earth (ground).
C	Wheel speed too high for creeper gears.
CP	Press clutch pedal to enable transmission (restore drive).

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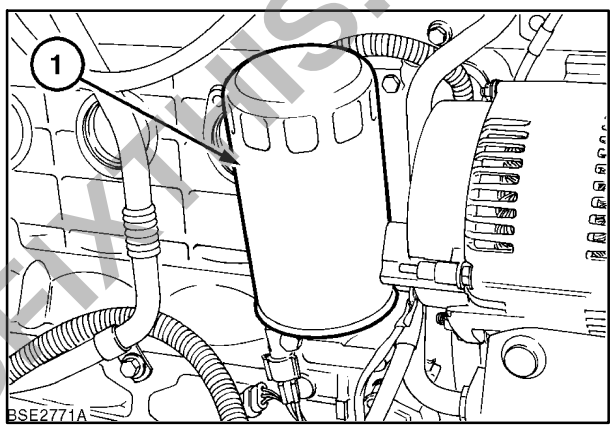
Warm the engine to operating temperature.

1. Remove the engine oil drain plugs, 1, which are located at the rear of the sump on both sides of the engine. Catch the oil in a suitable container and dispose of it properly.
2. Replace the drain plugs after the oil has drained.



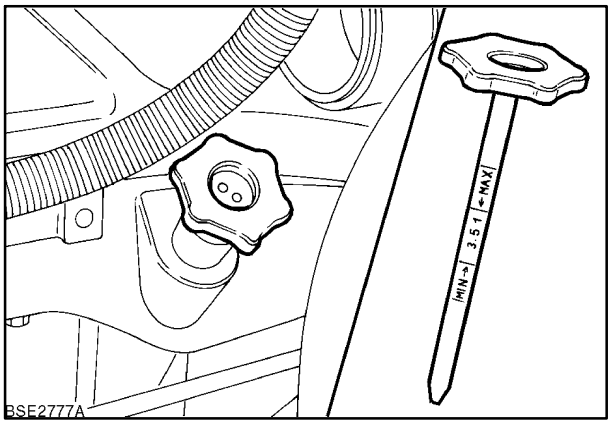
67

3. Clean the oil filter area. Remove the oil filter, 1, and discard it. Catch any residual oil and dispose of it properly.
4. Clean the new filter mounting surface and apply a thin coat of oil on the new filter sealing ring and install the filter. Turn until the sealing ring contacts the mounting surface, then tighten an additional 3/4 to 1 full turn. Do not overtighten.



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5. Remove the dipstick/filler cap and fill with the correct amount of fresh oil as indicated below. Ensure the oil is the correct grade and viscosity.
6. Start the engine and run it for 3 minutes at idle speed then stop the engine.
7. Check the drain plugs and oil filter areas for leaks.
8. Wait 5 minutes to allow the oil to drain into the crankcase, then check the oil level on the dipstick. The oil level should fall between the MIN and MAX on the dipstick. Add more oil as required.



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IMPORTANT: *Do not fill the crankcase above the MAX indicator on the dipstick. Excess oil will burn off, creating smoke and give a false impression of oil consumption. Do not operate the engine with the oil level below the lower notch.*

9. Re-install the dipstick/filler cap.

See page 4–8 for the correct oil specification.

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TRANSMISSION TROUBLESHOOTING – DUAL COMMAND

PROBLEM	POSSIBLE CAUSE	CORRECTION
Tractor does not drive in any gear	Error code will indicate source of malfunction.	See your authorized dealer.
Poor inching control when using inching pedal (clutch pedal)	Transmission clutch fill time out of adjustment.	See your authorized dealer.
Jerky gear shifting	Transmission clutches require calibration.	Perform transmission clutch calibration procedure or see your authorized dealer.
Jumping out of gear or holding in gear	Worn synchronizers/couplers.	See your authorized dealer.
High transmission operating temperature	Low oil level. Incorrect oil grade/viscosity. Dirty or blocked transmission oil cooler.	Add oil, as required. Drain and refill with oil of the correct specification. Clean.
Low transmission oil pressure	Low oil level. Incorrect oil grade/viscosity. Blocked transmission oil filter.	Add oil, as required. Drain and refill with oil of the correct specification. Replace filter.
Noisy transmission	Low oil level. Incorrect oil grade/viscosity. Worn bearings or failed parts.	Add oil, as required. Drain and refill with oil of the correct• specification. See your authorized dealer.
Gear engagement difficult	Incorrect linkage adjustment or worn linkage, Worn shift forks/selectors. Worn bearings.	Adjust linkage, replace worn parts or see your authorized dealer. See your authorized dealer. See your authorized dealer.
Engine stalls when changing from Hi drive to Lo drive	Defective Hi drive clutch pack.	See your authorized dealer.
Engine stalls when changing from Lo drive to Hi drive	Defective Lo drive clutch pack.	See your authorized dealer.

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TRACTOR WEIGHT

WEIGHTS		TS100A	TS115A	TS125A	TS135A
2WD					
On front axle	kg	1362	1482	1494	1500
	lb	3002	3267	3293	3306
On rear axle	kg	3178	3458	3486	3500
	lb	7006	7623	7685	7716
Total weight	kg	4540	4940	4980	5000
	lb	10008	10890	10978	11022
4WD – standard axle					
On front axle	kg	1884	2044	2056	2060
	lb	4153	4506	4532	4541
On rear axle	kg	2826	3066	3084	3090
	lb	6230	6759	6798	6812
Total weight	kg	4710	5110	5140	5150
	lb	10383	11265	11331	11353
4WD – SuperSteer axle					
On front axle	kg	1936	2096	2108	2112
	lb	4268	4620	4647	4656
On rear axle	kg	2904	3144	3162	3168
	lb	6402	6931	6970	6984
Total weight	kg	4840	5240	5270	5280
	lb	10670	11552	11618	11640
4WD – Suspended axle					
On front axle	kg	1948	2116	2128	2132
	lb	4294	4664	4691	4700
On rear axle	kg	2922	3174	3192	3198
	lb	6441	6997	7037	7050
Total weight	kg	4870	5290	5320	5330
	lb	10736	11662	11728	11750

NOTE: *The above weights are based on production tractors with a full fuel tank but without a driver, ballast, or additional equipment.*

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OPERATION 9

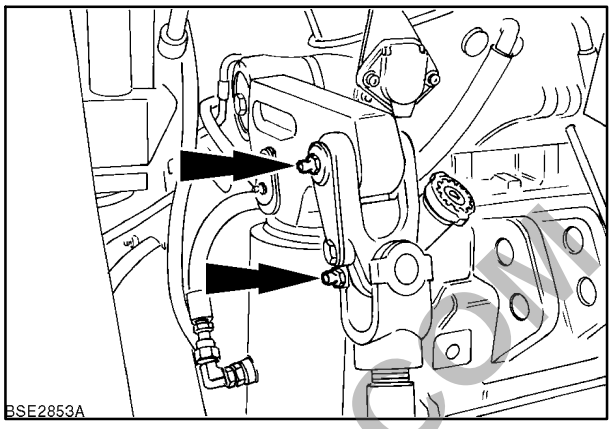
LUBRICATING ALL GREASE FITTINGS

Oil all pivots and apply a grease gun to the lubrication fittings as shown in Figures 28 to 45 inclusive.

See page 4–8 for the correct grease specification.

Right and Left Hand Lift Rod with Turnbuckle Adjustment

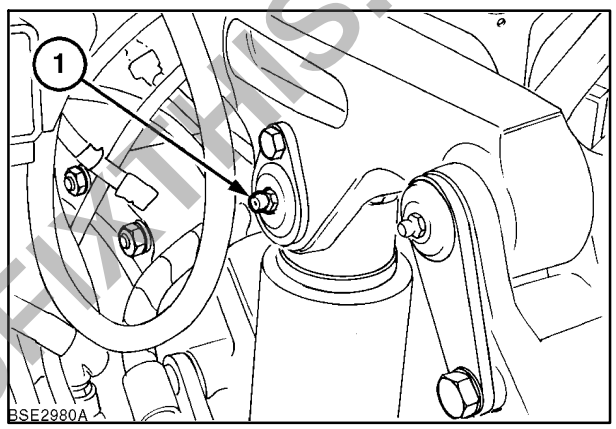
Apply a grease gun to the lubrication fittings as shown.



28

External Lift Cylinder (Where Fitted)

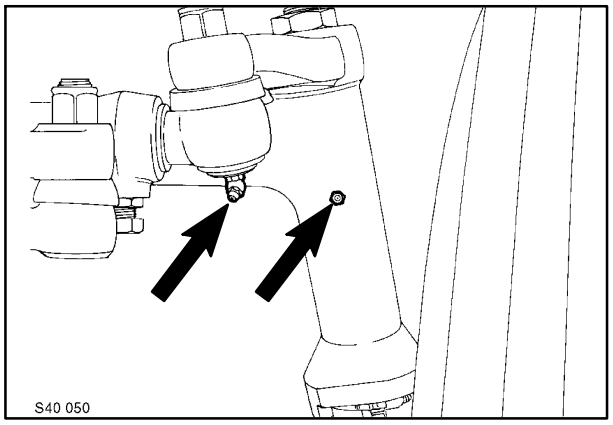
Apply a grease gun to the lubrication fittings as shown.



29

2WD Front Wheel Spindles and Right Steering Arm

Apply a grease gun to the lubrication fittings as shown.



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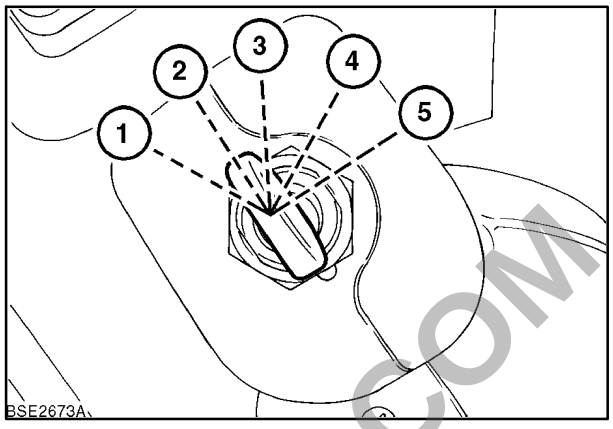
STARTING IN COLD WEATHER OR WITH A COLD ENGINE

The grid heater will only function when the temperature of the coolant falls below a pre-determined level.

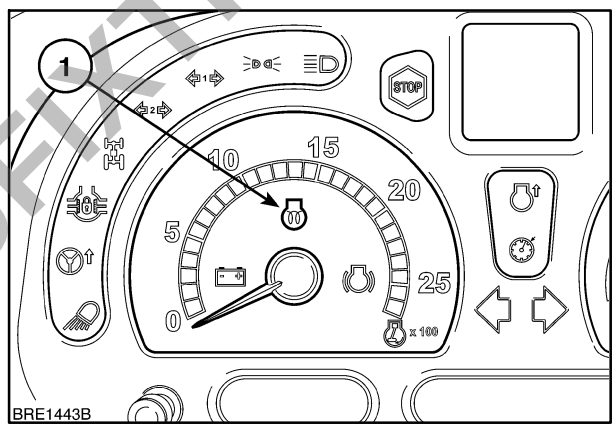
- Open the hand throttle halfway and turn the key-start switch clockwise to position, 4. An indicator light, 1, Figure 6, on the instrument panel will illuminate for 10 to 15 seconds to show that the grid heater has been activated.
- When the light extinguishes, turn the key fully clockwise to position, 5. Crank the engine until it starts but do not operate the starting motor for more than 60 seconds.

NOTE: *If the engine is not cranked within 30 seconds of the light extinguishing, turn the key-start to the OFF position, pause and re-start the sequence.*

- If the engine fails to start, repeat the starting procedure. If the engine still fails to start, allow the battery 4 – 5 minutes to recover, then repeat the procedure.
- When the engine starts, return the throttle to the idle position and check that all warning lights extinguish and gauge readings are normal.



5



6

STOPPING THE ENGINE

IMPORTANT: *Before stopping the engine, allow it to idle at 1000 rpm for approximately one minute. This will allow the turbo-charger and exhaust manifold to cool and prevent possible distortion of components.*

To stop the engine, carry out the following procedure.

- Sit in the driver's seat.
- Close the throttle.
- Ensure that the parking brake is firmly applied.
- Ensure that all gearshift levers are in neutral.
- Ensure the PTO is disengaged.
- Place the remote control valve levers in the neutral position.
- Lower 3 point hitch mounted equipment to the ground.
- Turn the key-start switch off – position, 3.

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Key to Figure 1 **Page Numbers for Reference**

1. Joystick control 3-43
2. Hand throttle 2-21
3. Transmission controls
24x24 Dual Command transmission 2-54
16x16 Electro Command transmission 2-54
4. Hydraulics controls
Mechanical Lower Link sensing 3-21
Electronic Draft Control 3-25
5. Remote control valve levers
Manual operation 3-42
Electro-Hydraulic operation 3-50
6. EDC panel 3-26
7. PTO controls – rear 3-15
8. Electrical power panel 2-13
9. External 3-point hitch controls 3-34
10. Rear window locking handle 2-6
11. Cab air recirculation filter 2-8
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MINIMUM HARDWARE TIGHTENING TORQUES

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

INCH NON-FLANGED 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	6.2 (55)*	8.1 (72)*	9.7 (86)*	13 (112)*	14 (121)*	18 (157)*	8.5 (75)*	12.2 (109)*	1/4
5/16	13 (115)*	17 (149)*	20 (178)*	26 (229)*	28 (250)*	37 (324)*	17.5 (155)*	25 (220)*	5/16
3/8	23 (17)	30 (22)	35 (26)	46 (34)	50 (37)	65 (48)	31 (23)	44 (33)	3/8
7/16	37 (27)	47 (35)	57 (42)	73 (54)	80 (59)	104 (77)	50 (37)	71 (53)	7/16
1/2	57 (42)	73 (54)	87 (64)	113 (83)	123 (91)	159 (117)	76 (56)	108 (80)	1/2
9/16	81 (60)	104 (77)	125 (92)	163 (120)	176 (130)	229 (169)	111 (82)	156 (115)	9/16
5/8	112 (83)	145 (107)	174 (128)	224 (165)	244 (180)	316 (233)	153 (113)	215 (159)	5/8
3/4	198 (146)	256 (189)	306 (226)	397 (293)	432 (319)	560 (413)	271 (200)	383 (282)	3/4
7/8	193 (142)	248 (183)	495 (365)	641 (473)	698 (515)	904 (667)	437 (323)	617 (455)	7/8
1	289 (213)	373 (275)	742 (547)	960 (708)	1048 (773)	1356 (1000)	654 (483)	924 (681)	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

86529681 REV F 5.2

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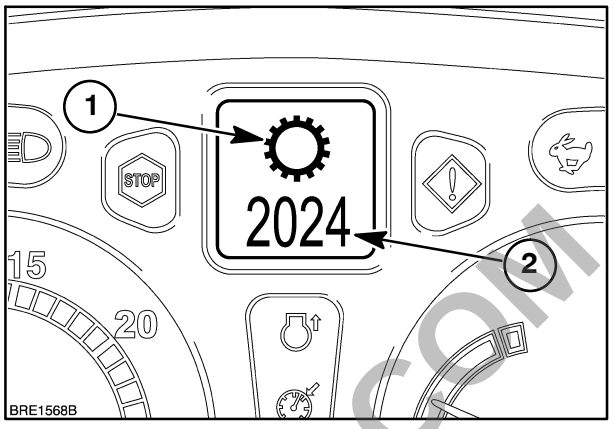
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ERROR CODES (16 x 16)

If a fault occurs in the transmission controls or electronic circuitry, the malfunction symbol, 1, and a four for five digit error code, 2, will appear in the Dot Matrix Display (DMD).

The code indicates the faulty circuit or sensor and the type of fault, e.g., open circuit or short circuit.

If a fault occurs causing the tractor to become disabled, contact your authorized dealer and report the error code. Disabling error codes are shown in the table below.



128

Error Code	Fault
2001	Shuttle speed sensor circuit fault.
2011	Clutch pedal potentiometer signal low.
2012	Clutch pedal potentiometer signal high.
2021	Drive line harness disconnected.
2024	Synchronizer calibration incorrect.
2037	Clutch disconnect switch open circuit.
2038	C4 clutch solenoid short circuit.
2039	C4 clutch solenoid open circuit.
2040	C3 clutch solenoid short circuit.
2041	C3 clutch solenoid open circuit.
2042	C2 clutch solenoid short circuit.
2043	C2 clutch solenoid open circuit.
2044	C1 clutch solenoid short circuit.
2045	C1 clutch solenoid open circuit.
2046	Fuse 35 open circuit.
2048	Clutch disconnect switch short circuit (maladjusted, always closed).
2053	5 volt reference failed, shorted to 12 volts.
2054	5 volt reference failed, shorted to earth (ground).
2067	Forward solenoid short to 12 volts
2068	Reverse solenoid short to 12 volts
2087	Clutch solenoid short circuit, ratios 1-4.
2088	Clutch solenoid short circuit, ratios 5-8.
2098	Clutch solenoid short circuit, ratio 17.
2100	Dump solenoid short circuit, ratio 17.
P	Park brake on.
CP	Press clutch pedal to enable transmission (restore drive).
N	Place the shuttle lever in neutral.

Transmission Calibration

Should transmission shifts become slow or harsh, the clutches in the transmission require calibration. Consult your authorized dealer.

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HYDRAULICS TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTION
Hydraulic system does not operate	Error code will indicate source of malfunction.	See your authorized dealer.
	Hydraulics oil level very low.	Add oil, as required.
	Blocked hydraulic oil filter(s).	Replace oil filter(s).
Hydraulic oil overheats	Hydraulics oil level too low or too high.	Adjust oil level, as required.
	Hydraulics oil cooler blocked.	Clean.
	Blocked hydraulic oil filter(s).	Replace oil filter(s).
	Flow control incorrectly adjusted.	Allow to cool, adjust flow control before operating again.
	Hydraulic load not matched to tractor.	See your authorized dealer.
Remote control valve detent disengages prematurely	Detent release pressure set too low.	Adjust detent pressure or see your authorized dealer.
Remote equipment cylinder operates too fast or too slowly	Flow control incorrectly set.	Adjust flow control.
Remote equipment does not operate	Hoses not correctly connected.	Attach hoses correctly.
	Load exceeds system capacity.	Reduce load or use correct size cylinder (see your authorized dealer).
	Remote control valve lever movement restricted.	Adjust cables or see your authorized dealer.

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TRACTOR ENGINE SPECIFICATIONS

ENGINE		TS100A	TS115A	TS125A	TS135A
Advertised engine power	Kw	74	85	92	100
(at rated speed, ISO TR 14396)	Hp (cv)	101	116	125	136
Boosted power	Kw	–	–	108	119
	Hp (cv)	–	–	147	162
Number of cylinders		4	6	6	6
Valves per cylinder		2	2	4	4
Aspiration			Turbocharged and intercooled		
Bore	mm	104	104	104	104
	in	4.0	4.0	4.0	4.0
Stroke	mm	132	132	132	132
	in	5.19	5.19	5.19	5.19
Displacement	cm^3	4485	6728	6728	6728
	in^3	273	410	410	410
Compression ratio		17.5:1	17.5:1	17:1	17:1
Firing order		1.3.4.2	1.5.3.6.2.4	1.5.3.6.2.4	1.5.3.6.2.4
Rated engine speed	rpm	2200	2200	2200	2200
Idle speed	rpm	650	650	650	650
Maximum no-load speed	rpm	2400	2400	2360	2360
Valve tappet clearance (cold)					
Intake	mm	0.25	0.25	0.25	0.25
	in	0.009	0.009	0.009	0.009
Exhaust	mm	0.51	0.51	0.51	0.51
	in	0.020	0.020	0.020	0.020

FUEL SYSTEM SPECIFICATIONS

Injection pump type					
Bosch VE Mech		Std	Std	–	–
Bosch CR-CP3 SL		–	–	Std	Std
Dynamic timing 〈°BTDC)		5° ± 0.5°	5° +/-0.5°	n/a	n/a

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