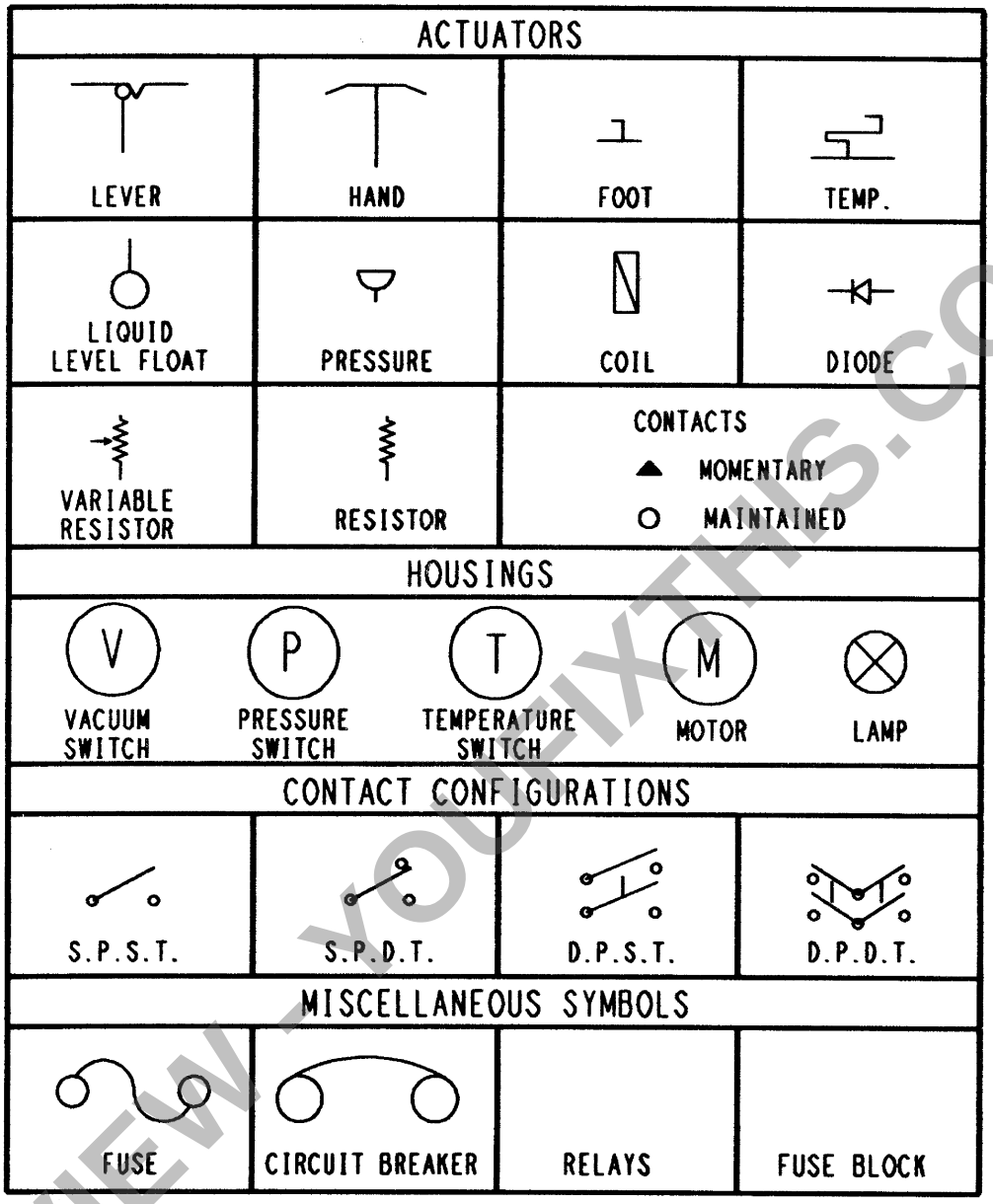


PAGE 2

2

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LUBRICATION AND MAINTENANCE SCHEDULE

Service Interval	Operation No.	Maintenance Requirement	CHECK	CLEAN	LUBRICATE	CHANGE	ADJUST	DRAIN
Every 10 hours or daily	1	• Engine oil level	X					
	2	• Radiator coolant level	X					
	3	• Hydrostatic steering oil level	X					
First 50 hours	6	• Wheel nuts and bolts	X				X	
	8	• Fan/Alternator belt tension	X				X	
	9	• All greasing points			X			
	11	• Air filter (outer element)		X				
	12	• Fuel filter				X		
	14	• Engine oil and filter				X		
	16	• Hydraulic oil filter				X		
		• Coolant system hose connections	X					
		• Air intake system hose connections	X					
		• Front weights clamp bolt (optional)	X					
		• All fluid levels	X					
Every 50 hours or weekly	4	• Clutch pedal free play	X				X	
	5	• Brake pedal free play	X				X	
	6	• Wheel, nuts and bolts	X				X	
	7	• Tire pressure	X				X	
	8	• Fan / alternator belt tension	X				X	
	9	• All greasing points		X	X			
	10	• Battery electrolyte level	X					
	11	• Dry air cleaner outer element		X				
Every 300 hours	12	• Fuel filter				X		
	13	• Fuel feed pump strainer		X				
	14	• Engine oil and filter				X		
	15	• Transmission/ final drive/ hydraulics oil level	X					
	16	• Hydraulic oil filter				X		
	17	• PTO Clutch					X	
	18	• Front Axle Differential Oil Lvel (FWD)	X				X	
	19	• Front Axle Hub Oil Levels (FWD)	X				X	

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SECTION 5
TROUBLESHOOTING

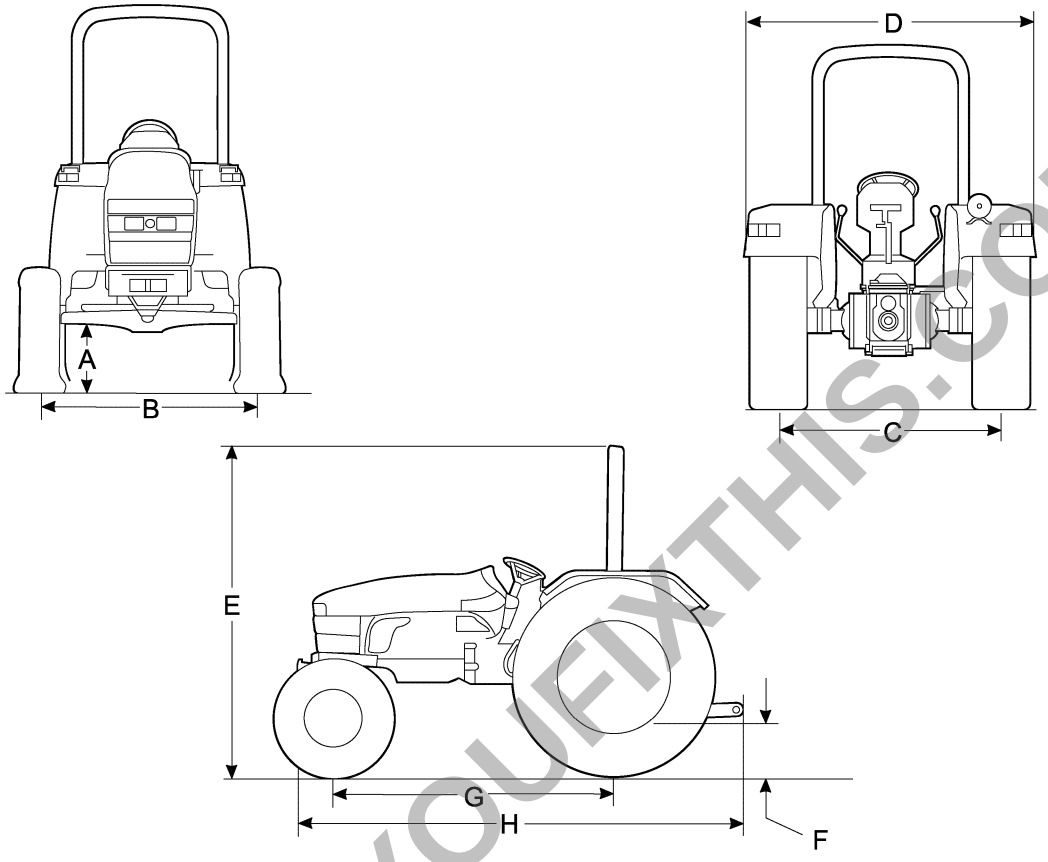
ENGINE

PROBLEM	POSSIBLE CAUSE	CORRECTION
• The engine will not start or is difficult to start.	• Incorrect starting procedure. • Tractor in gear. • Fuel level low or empty. • Air in fuel system. • Fuel system choked. • Fuel filter clogged. • Fuel pump injector faulty.	• See starting procedure. • Put in neutral. • Check fuel level. • Bleed fuel system. • Contact your Authorized Dealer. • Replace filter. • Contact your Authorized Dealer.
• The engine does not run properly and / or cuts out.	• Fuel filter clogged. • Poor diesel quality. • Fuel system choked. • Fuel injector faulty.	• Replace filter. • Drain tank and fill with filtered diesel. • Contact your Authorized Dealer. • Contact your Authorized Dealer.
• Engine does not reach maximum power.	• Engine overloaded. • Air cleaner dirty. • Fuel filter clogged. • Engine overheating. • Low engine operating temperature. • Fuel injector faulty. • Valve clearance incorrect. • Throttle control lever mechanism faulty.	• Change to lower gear or reduce load. • Carry out maintenance on air cleaner. • Replace filter. • See engine overheating. • Check thermostat. • Have your Authorized Dealer check the injectors. • Check and get it adjusted by your Authorized Dealer. • Contact your Authorized Dealer.

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GENERAL DIMENSIONS



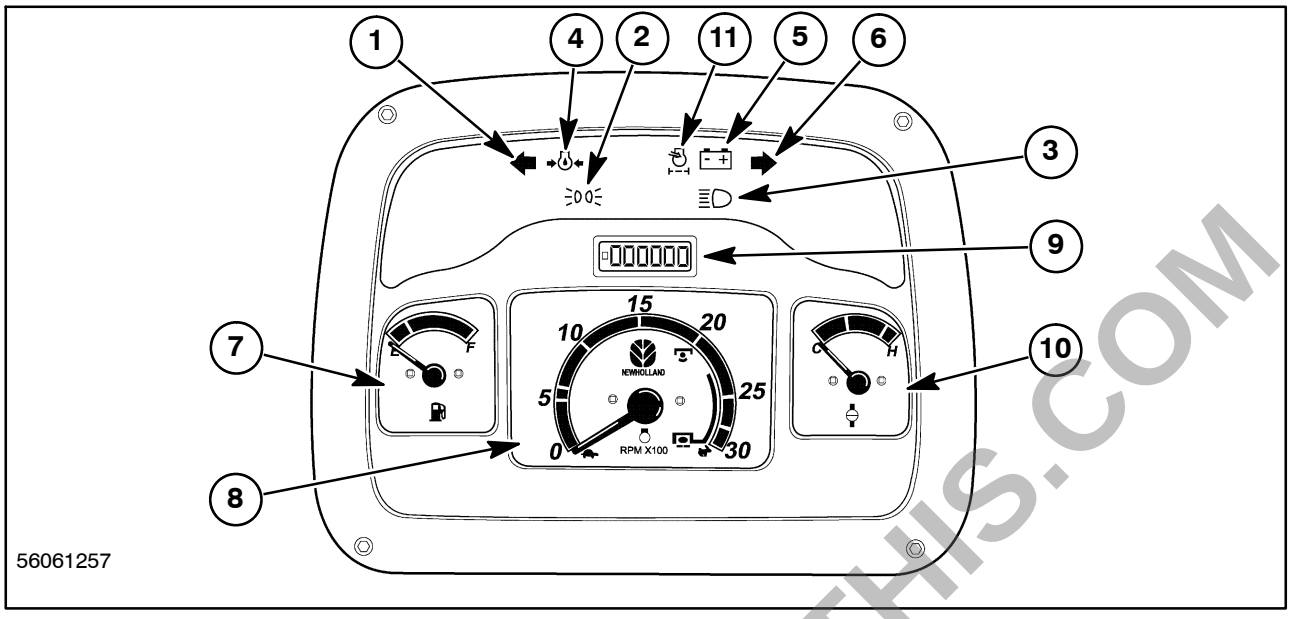
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***NOTE:** The following dimensions are based on **standard** tractors fitted with tire sizes as shown. Allowance must be given for tires of larger or smaller dimensions.*

			TT75A (2WD)	TT75A (FWD)	TT60A (2WD)	TT60A (FWD)
The following dimensions are based on tractors with tire sizes shown:		Front	7.50x16	11.2x24	7.50x16	9.5x24
		Rear	16.9x30	16.9x30	16.9x28	16.9x28
A	Ground clearance under front axle	mm	500	410	500	380
		in	19.7	16.1	19.7	15.0
B	Front track width (Std.)	mm	1410	1515	1340	1477
		in	57	59.6	53	58.1
C	Rear track width (Std.)	mm	1520	1520	1475	1475
		in	60	60	56.5	56.5
D	Overall width (Std.)	mm	1990	1990	1850	1850
		in	78.5	78.5	73	73

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3

INSTRUMENT PANEL, GAUGES, AND WARNING LIGHTS

The instrument panel, Figure 3, comprises Three gauges and seven colored lights, which provide operating information or give warning of system malfunction.

The instruments are illuminated when key start switch is turned on to position –2 fig (2) on page 3–4.

Left Turn Indicator

The blinking GREEN light(1) indicates the direction of turning to left hand side. Green light will flash in unison with tractor left hand turn signal.

Position Lights

With the key-start switch on a GREEN light, 2, indicates that the position lights are on.

⚠ WARNING ⚠

To avoid personal injury, always apply parking brake before leaving the tractor seat.

Head Light High Beam Indicator Light

The BLUE light, 3, will be illuminated when the tractor lights are switched to high beam.

Engine oil pressure

Steady light, 4, in the middle indicates low engine oil. pressure. Stop the engine and investigate the cause. See Maintenance (Section 4).

Battery Charging Indicator

At the right top a battery symbol, 5, is provided. Battery symbol glows when alternator is not charging the battery.

Right Turn Indicator

The blinking GREEN light, 6, indicates the direction of turning to right hand side. Light will flash in unison with tractor right hand turn signal.

Fuel Gauge

The gauge, 7,indicates the level of the fuel in the tank and is only operative with the key start switch turned on to position–2.

Tachometer

The tachometer, 8, indicates engine revolutions per minute (RPM). Each division on the scale represents 100RPM, therefore with the needle indicating ’20’ the engine is running at ’2000’ RPM.

A PTO symbol on the RPM scale indicates the engine speed at which the standard PTO speed of 540 RPM at 1967 engine RPM is obtained.

Hour Meter

The reading of the Hour Meter, 9, indicates the hours the tractors has run.

Water Temperature Gauge

The gauge, 10, indicates the temperature of the engine coolant. If the needle enters the right–hand (red) section of the gauge while the engine is running,bring the engine to idle RPM and run for some time before switching off the engine to investigate the cause.

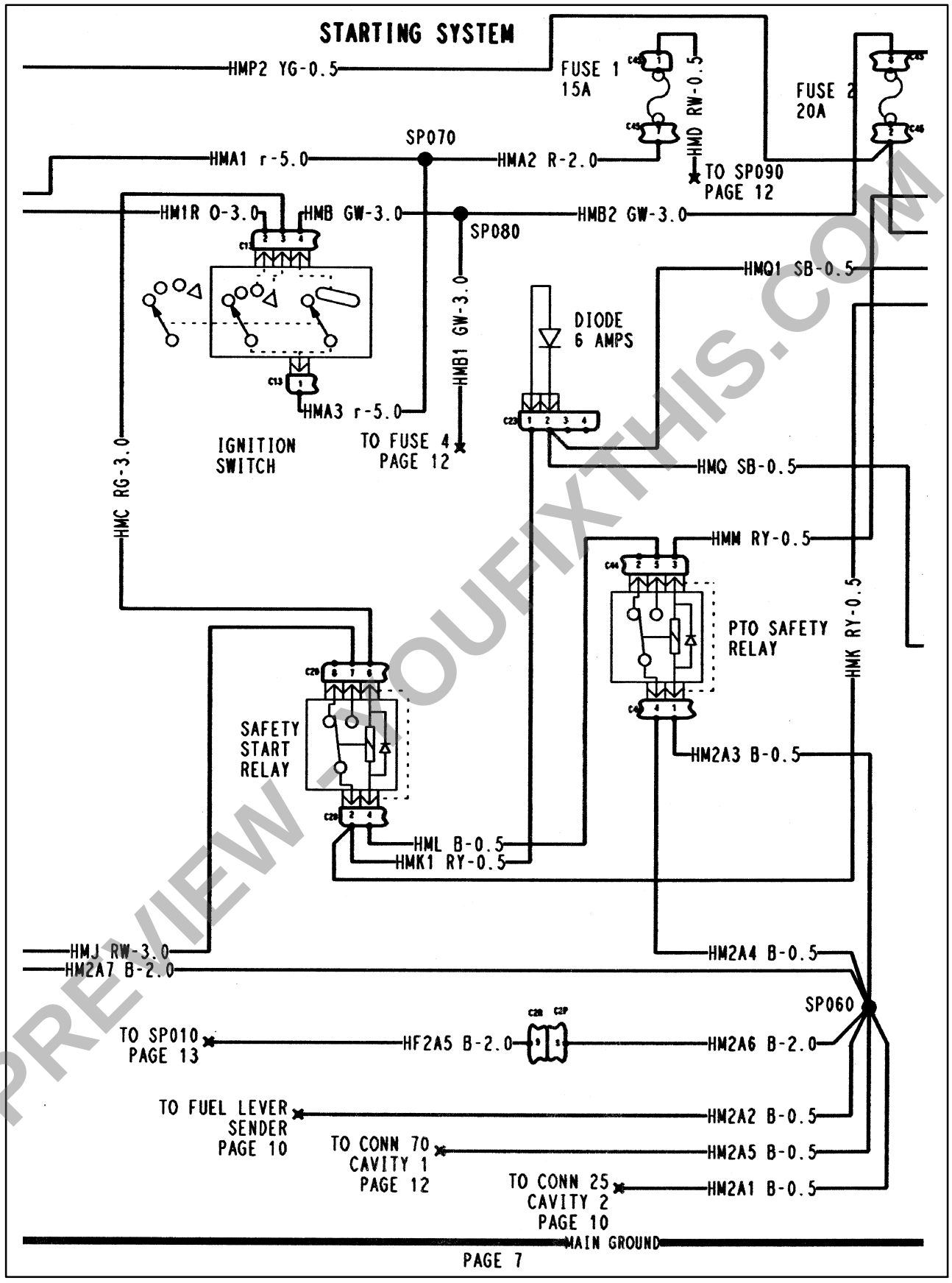
When the engine is switched off, the gauge needle will assume an initial position.

Air Cleaner Restriction Light

Glowing of the air cleaner restriction light, 11, indicates that air cleaner is clogged. Clean the air cleaner outer element whenever light glows.

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Service Interval	Operation No.	Maintenance Requirement	CHECK	CLEAN	LUBRICATE	CHANGE	ADJUST	DRAIN
Every 600 hours	20	• Valve tappet clearance	X				X	
	21	• Transmission breather		X				
	22	• Front wheel bearings		X	X			
	23	• Fuel Injectors	X				X	
	24	• Toe-in	X				X	
Every 1200 hours or 24 months, whichever occurs earlier	25	• Transmission/hydraulics oil / final drive				X		
	26	• Radiator and coolant				X		
	27	• Steering oil				X		
	28	• Front axle differential oil (FWD)				X		
	29	• Front axle hub oil (FWD)				X		
General Maintenance	30	• Bleeding the fuel system	X				X	
	31	• Engine idle speed	X				X	
	32	• Head light and worklamp adjustment					X	
	33	• Bulb replacement, if required	X			X		
	34	• Fuse replacement, if required				X		

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ENGINE (CONTINUED)

PROBLEM	POSSIBLE CAUSE	SOLUTION
• Abnormal engine knocking.	• Oil level low. • Oil pressure low. • Engine over heating • Tappet setting incorrect.	• Top up the oil level. • Contact your Authorized Dealer. • See engine overheating. • Contact your Authorized Dealer.
• Low engine operating temperature.	• Thermostat malfunction. • Water temperature gauge faulty.	• Replace thermostat. • Contact your Authorized Dealer.
• Engine oil pressure warning light glows (Oil Pressure low).	• Oil level low. • Incorrect grade of oil. • Oil pump faulty.	• Top up the oil level, as required. • Drain and refill with oil of correct grade and viscosity. • Contact your Authorized Dealer.
• Excessive oil consumption.	• Oil level too high. • Incorrect grade of oil. • Oil leaking.	• Reduce oil level. • Use oil of correct viscosity. • Contact your Authorized Dealer.
• Engine overheating.	• Radiator cap defective. • Radiator core/fins clogged. • Engine overloads. • Engine oil level low. • Coolant level low. • Fan/Alternator belt slipping or wornout. • Thermostat defective.	• Check belt tension. Replace belt, if worn. • Clean. • Change to lower gear or reduce load. • Top up oil level. • Top up coolant level in radiator tank; check system for leakages. In case leakage still persists, contact your Authorized Dealer. • Replace cap. • Change.

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			TT75A (2WD)	TT75A (FWD)	TT60A (2WD)	TT60A (FWD)
E	Height to top of ROPS	mm	2445	2445	2388	2419
		in	96.25	96.25	94.0	95.25
F	Ground clearance under rear axle	mm	457	457	400	432
		in	18.0	18.0	15.75	17.0
G	Wheel base	mm	2150	2210	2075	2035
		in	84.6	87.0	81.7	80.1
H	Overall length	mm	3483	3483	3466	3466
		in	137	137	136.5	136.5
	Minimum radius of turning circle	mm	3643	5100	3530	5100
	(Std. front track without brakes)	in	143	201	139	201

***NOTE:** If your tractor has tires of a different size, then the above dimensions will vary due to the difference in the rolling radius and section width of the tires fitted.*

TRACTOR WEIGHT

		TT75A (2WD)	TT75A (FWD)	TT60A (2WD)	TT60A (FWD)
On front axle	kg	950	1164	850	1059
	lbs.	2095	2566	1874	2335
On rear axle	kg	1420	1418	1300	1361
	lbs.	3130	3126	2866	3000
Total weight	kg	2370	2582	2150	2420
	lbs.	5225	5692	4740	5335

***NOTE:** The above weights are based on standard built units, without ballast or optional equipments and should be used as a guide only.*

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STARTING THE ENGINE

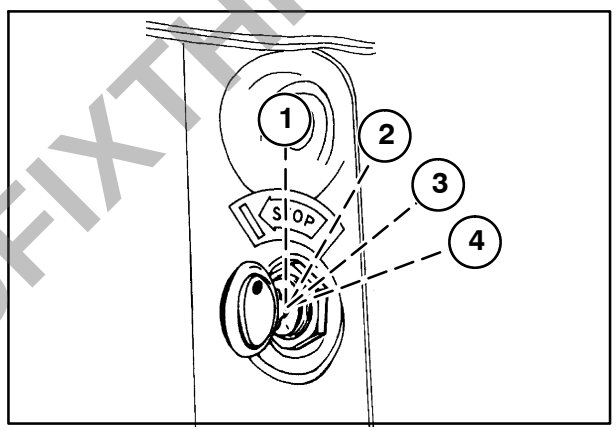
Before starting the engine, always carry out the following procedure:

- Enter the tractor from left hand side only.
- Sit in the driver seat.
- Ensure that both gearshift levers are in neutral.
- Ensure the PTO is disengaged.
- Depress the clutch pedal.

IMPORTANT: *Never push or tow the tractor to start the engine. Doing so may overstress the drive train.*

NOTE: *Neutral start switch prevent operation of the starting motor unless the gear levers are in the neutral position.*

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



2

Position 1

Electrical equipment Off

Position 2

Accessories on (Head lamp, Instrument cluster, horn and gauges, brake lights, turn signal), Engine “ON”

Position 3

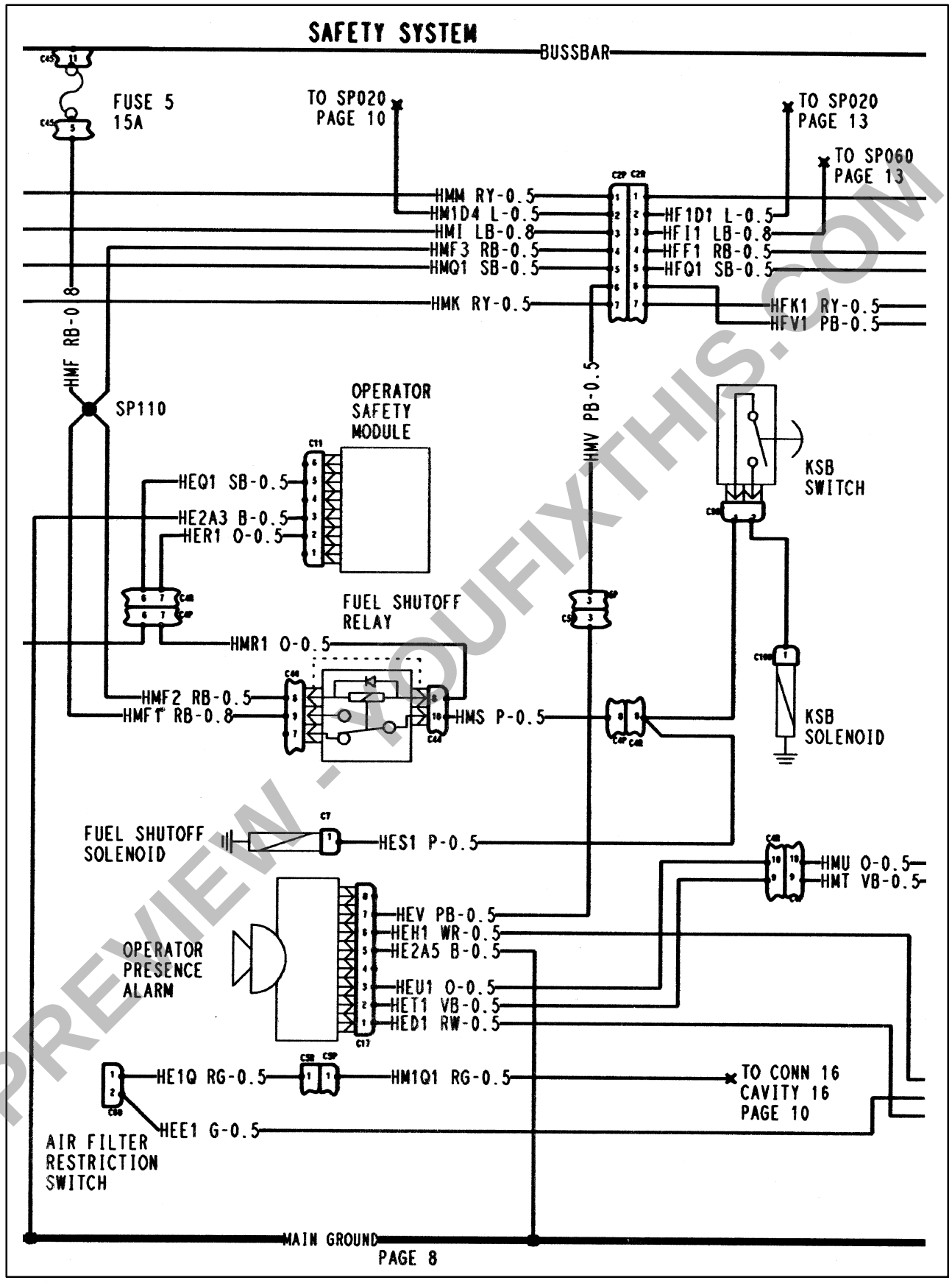
Engine thermostart engine heating element is activated

Position 4

Engine Start – The full clockwise position activates the starter motor to start the engine. Once the key is released the switch returns to position 2.

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8

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ENGINE (Continued)

PROBLEM	POSSIBLE CAUSE	SOLUTION
• Engine overheating (cont.).	• Cooling system clogged internally.	• Flush cooling system.
	• Thermostat not properly functioning.	• Check thermostat.
	• Hoses leaking.	• Tighten hose connections.
	• Temperature indicator or gauge not working properly.	• Contact your Authorized Dealer.
• Excessive fuel consumption.	• Air cleaner dirty or clogged.	• Carry out maintenance on air cleaner.
	• Engine overloaded.	• Change to lower gear or reduce load.
	• Valve clearance incorrect.	• Check and get it adjusted by your Authorized Dealer.
	• Implement incorrectly adjusted.	• Refer to Authorized Dealer for correct operation.
	• Engine temperature too low.	• Have the injectors serviced by your Authorized Dealer.
	• Incorrect ballast.	• Add ballast to eliminate wheel slippage. Contact your Authorized Dealer for further details.
	• Fuel injector nozzles faulty.	• Have your Authorized Dealer service the injectors.
	• Excess tire pressure/tire slippage or incorrect ballast.	• Inflate tires to recommended pressure.
	• Brakes system faulty/jammed.	• Contact your Authorized Dealer.

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