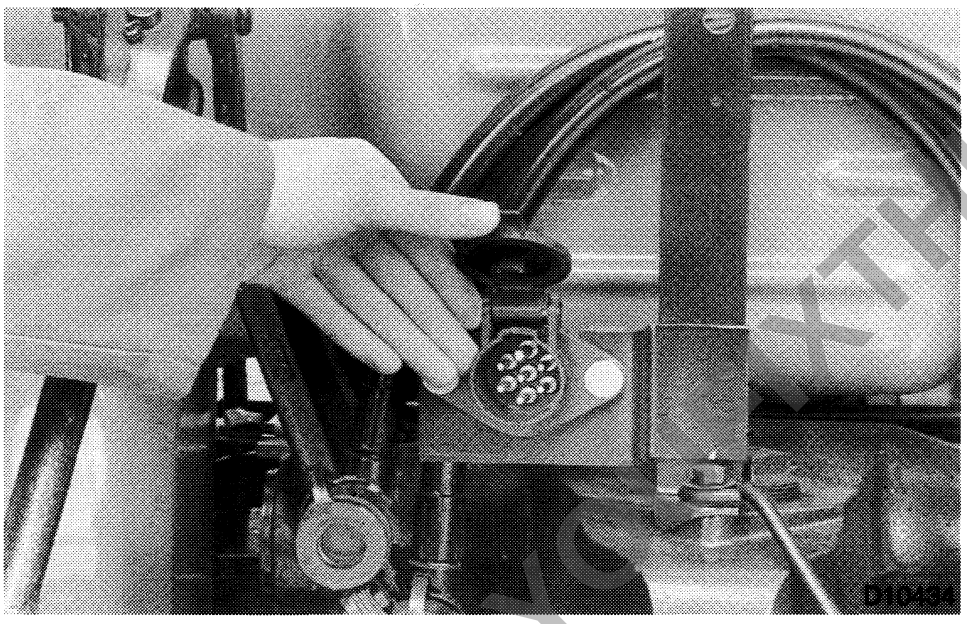
AUXILIARY POWER CONNECTIONS

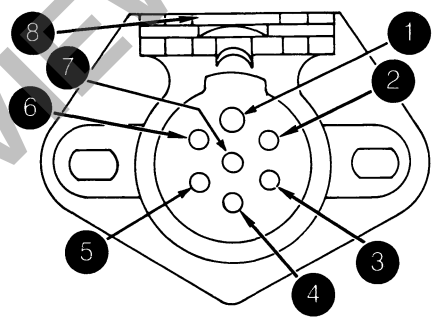
Seven Terminal Electrical Outlet

The outlet socket is located at the rear of the tractor and supplies power for implement electrical systems, warning lamps and trailers.



Wiring Connections Looking at Socket

Pins 1, 3 and 5 are wired at the factory for the circuits shown below. Pins 2, 4, 6 and 7 can be wired to provide power for other circuits when necessary.



PM025

PIN NO	WIRE COLOR	CIRCUIT
1	BLACK	GROUND
3	GREEN/RED	LH FLASHER AND TURN LIGHT
5	GREEN/WHITE	RH FLASHER AND TURN LIGHT

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Model 695 Orchard and Vineyard Tractor with Two Speed Power Shift Transmission Miles Per Hour (Kilometres Per Hour)

The following travel speeds are approximate and calculated at 2180 RPM engine speed. No allowance is made for wheel slip.

SPEED-RANGE	REAR TIRE SIZE 18.4-16.1	
	DIRECT DRIVE	POWER SHIFT
1-1	1.1 (1.8)	0.9 (1.4)
2-1	1.5 (2.4)	1.2 (2.0)
3-1	2.8 (4.5)	2.4 (3.8)
4-1	3.7 (5.9)	3.0 (4.9)
1-2	4.1 (6.6)	3.4 (5.5)
2-2	5.6 (9.1)	4.7 (7.5)
3-2	10.9 (17.6)	9.1 (14.6)
4-2	14.1 (22.6)	11.7 (18.8)
1-R	1.3 (2.1)	1.1 (1.8)
2-R	1.8 (2.9)	1.4 (2.3)
3-R	3.4 (5.5)	2.8 (4.5)
4-R	4.4 (7.1)	3.7 (5.9)

To calculate travel speeds for other sized tires

TIRE	13.6-28	14.9-24	14.9-28	16.9-24	16.9-28	18.4-26	21.5-16.1
MULTIPLY	1.17	1.13	1.23	1.19	1.29	1.29	0.00

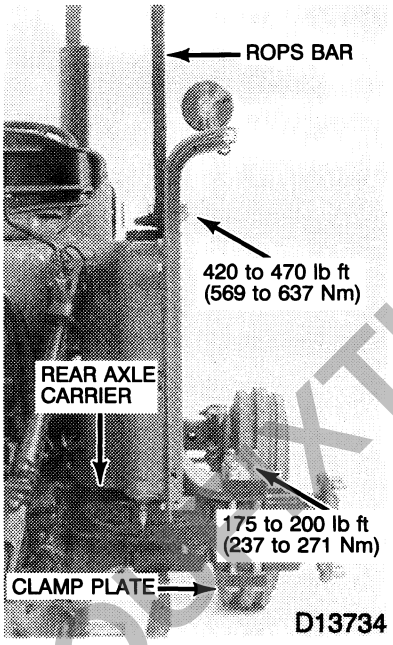
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ROPS FRAME (If Equipped)

If the ROPS is removed from a tractor for a specific reason the mounting hardware must not be substituted during installation.

The ROPS mounting bolts must be tightened to the specified torque. The clamp plate bolts must be torqued in a diagonal sequence.



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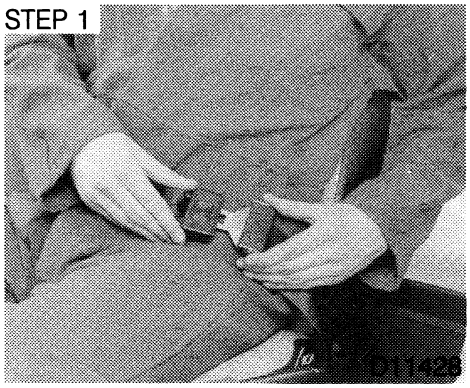
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SEAT BELTS

From time to time, carefully inspect the seat belts for worn areas and replace belts when needed.

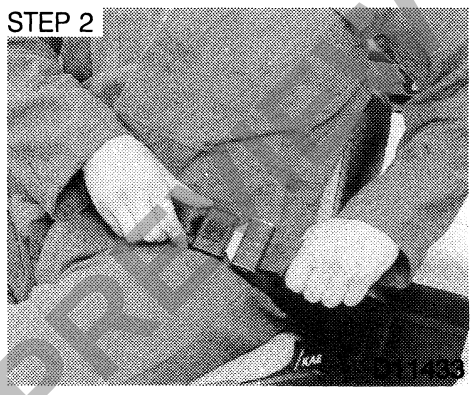
Securely fasten your seat belt. Your tractor is equipped with a ROPS cab or frame for your protection. The seat belt can help insure your safety if it is used and maintained. Never wear the belt in a twisted condition or pinched between the seat structural members. M271

STEP 1



Adjust the seat to your need. Keep your back straight in the seat. Pull the seat belt completely across your body. Push the metal eye into the open end of the buckle until it locks.

STEP 2



Adjust the position of the seat belt as low on your body as possible.

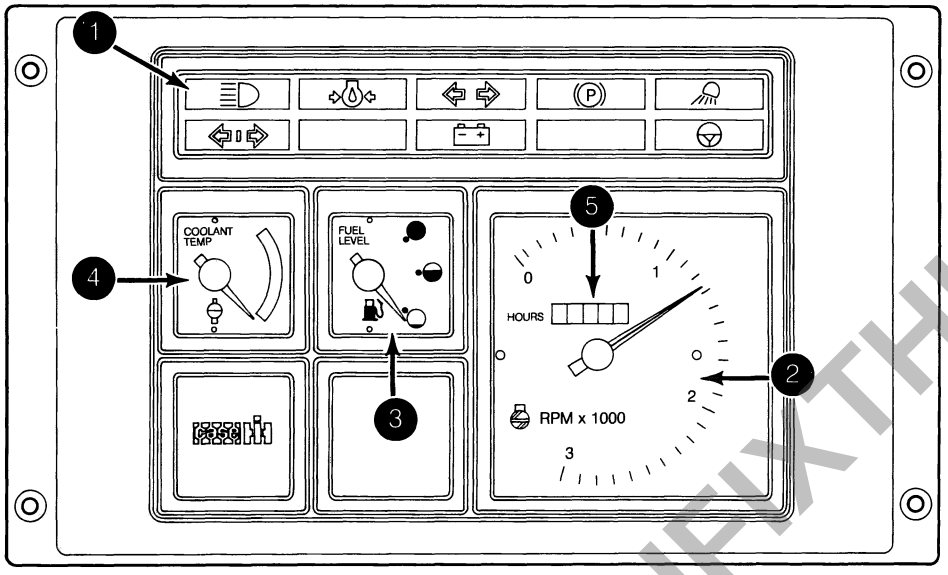
STEP 3



To release the seat belt, push the button in the center of the buckle and separate the buckle and metal eye.

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STANDARD INSTRUMENT CLUSTER



PM204

1. INDICATOR LAMPS - These lamps illuminate to tell the operator that there is a fault in a system or that a function chosen is operating. See INDICATOR LAMPS on page 48 for details.

2. TACHOMETER - This shows the engine revolutions per minute (RPM).

3. FUEL GAUGE - The fuel gauge indicates how much fuel is in the fuel tank. The lower symbol indicates empty and the upper symbol indicates full.

4. ENGINE COOLANT TEMPERATURE GAUGE - The gauge is divided into two sections in two colours. The pointer in the green area indicates normal working temperature. The red area indicates overheating, STOP THE ENGINE AND CHECK FOR THE CAUSE.

5. HOURMETER - The hourmeter shows the engine running hours, white numbers, and tenths of hours red numbers.

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DIESEL ENGINE

General

Type, Model 595 ..... D.206 Four Cylinder, Four Stroke Cycle. Valves in Cylinder Head
Type, Model 695 ..... D.239 Four Cylinder, Four Stroke Cycle. Valves in Cylinder Head
Firing Order 1-3-4-2
Bore ..... 3.87 inches (98.0 mm)
Stroke
  Model 595 ..... 4.37 inches (111.0 mm)
  Model 695 ..... 5.06 inches (128.5 mm)
Piston Displacement
  Model 595 ..... 206 Cubic Inches (3376 cm^3)
  Model 695 ..... 239 Cubic Inches (3911 cm^3)
Compression Ratio ..... 16 to 1
Cylinder Sleeves ..... Wet Type, Removeable
Governed Engine Speed Without Load
  Model 595 ..... 2590 RPM
  Model 695 ..... 2645 to 2705 RPM
Rated Engine Speed
  Model 595 ..... 2300 RPM
  Model 695 ..... 2400 RPM
Engine Idle Speed
  Model 595 ..... 700 to 800 r/min
  Model 695 ..... 650 to 750 r/min
Rocker Arm to Valve Clearance (Engine Hot)
Intake and Exhaust ..... 0.012 inch (0.305 mm)

IMPORTANT: *Rocker Arm to Valve clearance adjustments must be made when the engine is stopped.*

Air Intake System

Type ..... Dry Type Air Induction System, Two Stage, with Dust Unloader

Cooling System

Type ..... Pressure System, Thermostat Controlled Bypass, Impeller Type Pump
Radiator ..... Fin and Tube Type
Thermostat ..... Starts to Open at Approximately 180°F (82°C) Fully Open at 203°F (94°C)
Pressure Cap ..... 9 to 12 PSI (62 to 82 kPa) (0.62 to 0.82 bar)
Fan Drive Type ..... Belt

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Static Calibration Code Number

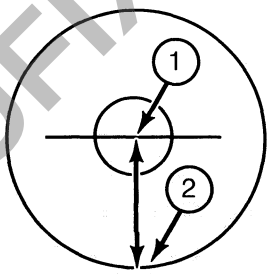
The static calibration method described below can be used, if desired, to determine the ground speed calibration number. The static calibration number is based on the static loaded radius of the rear tractor tyres.

To determine the static calibration number, measure the rear tire static loaded radius, on your fully equipped tractor, as shown on the diagram below. Use the static loaded radius dimension to find the correct calibration number in the chart below.

STATIC CALIBRATION CODE NUMBERS

STATIC LOADED RADIUS		STATIC CALIBRATION CODE NUMBER					
		"R" TRANS 1.		"S" TRANS 1.		"T" TRANS 1.	
INCH	MM	MPH	KM/H	MPH	KM/H	MPH	KM/H
18.90	480	057	035	047	029	060	037
19.10	485	056	035	046	029	060	037
21.50	545	050	031	041	026	053	033
22.45	570	048	030	039	024	051	032
23.63	600	045	028	037	023	048	030
24.41	620	044	027	036	022	047	029
24.80	630	043	027	036	022	046	029
25.20	640	042	026	035	022	045	028
25.40	645	042	026	035	022	045	028
25.60	650	042	026	034	021	047	029
26.38	670	041	025	033	020	043	027
27.77	680	040	025	033	020	043	027
27.56	700	039	025	032	020	042	026
28.15	715	038	024	031	019	041	025
28.54	725	037	023	031	019	040	025
29.53	750	036	022	030	018	039	024

MEASURING STATIC LOADED RADIUS



MEASURE FROM CENTRE OF AXLE (1) TO BOTTOM OF THE TIRE (2)

NOTE 1.: Refer for Transmission Serial Number to page 5 of this manual.

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LUBRICATION/MAINTENANCE CHART

PAGE NO	SERVICE POINTS	NO OF POINTS	FREQUENCY IN HOURS				
			GREASE	DRAIN	CHECK	CLEAN	CHANGE
174	Front Axle King Pins	2	10				
174	Steering Arm Pivot	1	10				
174	Front Axle Pivot	2	10				
174	Steering Cylinder Pivot/Clevis	2	10				
174	Front Axle Universal Joint (MFD)	2	10				
174	Front Axle Swivel Pins (MFD)	4	10				
174	Three Point Linkage	3	10				
181	Fuel Filter Water Trap	2		10			
177	Engine Oil Level	1			10		
196	Transmission/Hydraulic Oil Level	1			10		
186	Coolant Level	1			10		
175	Windshield Washer Resevoir	1			10		
216	Clutch Reservoir (Cab Tractor)	1			10		
192	Air Intake Dust Unloader Valve	1			10		
137	Tire Pressures	4			10		
154	Wheel Rim Nuts				10		
	General Tractor Inspection (Note 1)				10		
204	Radiator Core	1				10	
215	Engine Clutch Adjustment (ROPS)	1			40		

NOTE 1: Check the tractor for oil leaks, rubbing hoses, loose bolts and trash build up. Repair all oil leaks, hoses and tighten loose bolts before field operation.

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BEFORE STARTING THE ENGINE

Before starting your tractor for the first time make the following checks. Also see Lubrication and Preventive Maintenance for regular service schedule.

1. Make sure all persons that operate or do maintenance on the tractor understand that clean fuel is important.
2. Check all lubrication fittings for grease as given in the Lubrication Chart.
3. Check the oil level in the engine crankcase. Check the fluid level in the transmission.
4. Check the water level in the batteries.
5. Check that the tractor fuel tank is filled with clean fuel that has the specifications given in this manual.

   NOTE: *Clean around the fuel tank cap before you remove the cap.*
6. Check the fuel system, cooling system and engine oil pan for leaks.
7. Check that the alternator and compressor belts are adjusted correctly.
8. Remove any water or sediment from the fuel tank.
9. Check the air pressure of the tires.
10. If your tractor has a power takeoff, make sure the safety guard is installed.
11. Check the coolant level in the radiator. Add water and ethylene glycol coolant as needed.

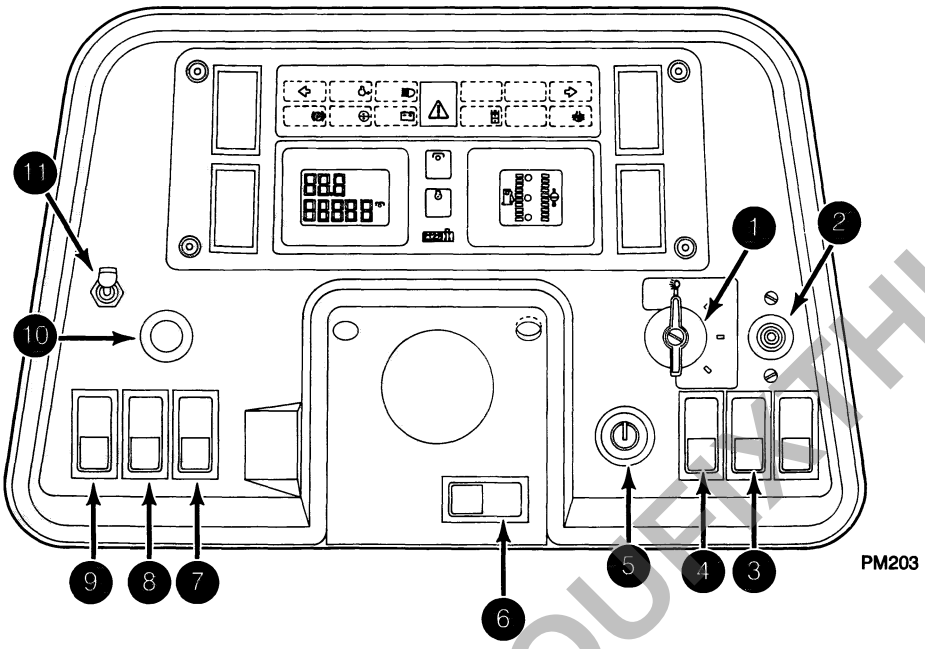
Before starting the engine, be sure all operating controls are in neutral or park lock position. This will eliminate accidental movement of the machine or start up of power driven equipment.

M106D

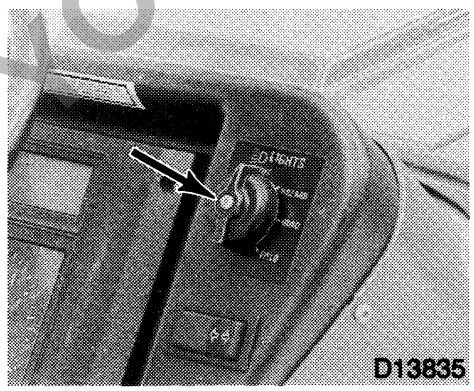
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INSTRUMENT PANEL CONTROLS



1. MAIN LAMP SWITCH - This is a four position rotary switch described as follows:



Off Position - switch knob position fully counterclockwise. All lamps are off.

On Position - switch knob is turned clockwise from off position. The various lamps will be illuminated as follows:

First Positon - Front and rear amber warning lamps.

Second Position - Front and rear amber warning lamps, panel lamps, tail lamps and headlamps. The headlamp dip switch (item 4) can be used to select high or low beam headlamps.

Third Position - Headlamps, panel lamps and work lamps.

2. HORN BUTTON (If equipped) - Press button to operate the horn.

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SAFETY

Before operating, read and comply with the operators' manual and safety instructions.

Understand that your safety and the safety of other persons is measured by how you service, and operate this machine. Know the positions and operations of all controls before you try to operate. MAKE SURE YOU CHECK ALL CONTROLS IN A SAFE AREA BEFORE STARTING YOUR WORK.

READ THIS MANUAL COMPLETELY and make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you start to operate.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state and local laws. Make sure your machine has the correct equipment needed by the local laws and regulations.

CASE IH is continuing to work for your safety: by making tractors with better protection and by giving these rules for safe operation.

THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL. CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY OR DEATH. M171A

Safety Rules

Before starting the engine, be sure all operating controls are in neutral. This will eliminate accidental movement of the machine or start up of power driven equipment. R106C

Operate controls only when seated in the Operators seat. R137

Securely fasten your seat belt. Your tractor is equipped with a ROPS cab or frame for your protection. The seat belt can help insure your safety if it is used and maintained. Never wear a seat belt loosely or with slack in the belt system. Never wear the belt in a twisted condition or pinched between the seat structural members. R271

A frequent cause of personal injury or death is persons falling off and being run over. Do not permit others to ride. Only one person - the operator - should be on the machine when it is in operation. R115A

Before leaving the tractor, stop the engine, put all controls in NEUTRAL and apply the park brake.

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