5130-5140 Tractors

Operators Manual

9-13742

Reprinted

CASE

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GENERAL TABLE OF CONTENTS

Safety/Decals 6

Specifications 15

Instruments/Controls 32

Operating Instructions 58

Field Operation 96

Tires/Wheels/Spacing/Ballast 142

Lubrication/Maintenance Charts 187

Lubrication/Filters/Fluids 191

Maintenance/Adjustments 227

Electrical System 241

Storage 256

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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 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. M171

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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DIESEL ENGINE

General

Type, Model 5130	6-590 Six Cylinder, Four Stroke Cycle, Naturally Aspirated, Valves in Cylinder Head
Type, Model 5140	6T-590 Six Cylinder, Four Stroke Cycle, Turbocharged, Valves in Cylinder Head
Firing Order	1-5-3-6-2-4
Bore	4.02 inch (102 mm)
Stroke	4.72 inch (120 mm)
Piston Displacement	359 cu inch (5.88 Litre)
Compression Ratio, 5130	17 to 1
5140	17.5 to 1
Governor Engine Speed Without Load	2400 RPM
Rated Engine Speed	2200 RPM
Engine Idle Speed	900 RPM
Rocker Arm-to-Valve Clearance, Cold (Exhaust)	0.020 inch (0.50 mm)
(Intake)	0.010 inch (0.25 mm)

IMPORTANT: *Rocker Arm-to-Valve clearance adjustment must be made when the engine is not running.*

Air Intake System

Type	Dry Type Air Induction System, Two Stage Filter System with Service Indicator on Instrument Cluster

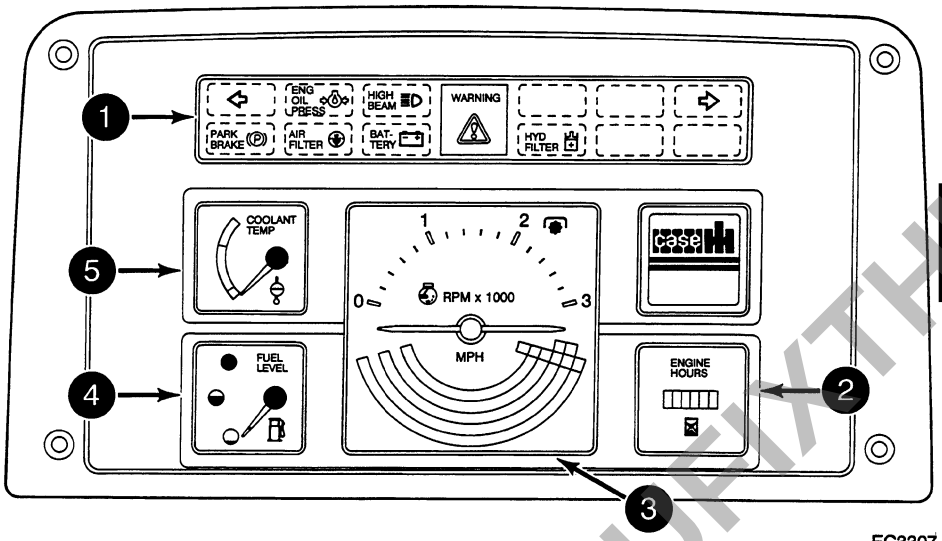
Cooling System

Type	Pressure System, Thermostat Controlled Bypass, Impeller Type Pump
Radiator	Heavy Duty Fin and Tube Type
Thermostat	Starts to Open at Approximately 180°F (83°C) Fully Open at 203°F (95°C)
Pressure Cap	15 PSI (103 kPa)
Fan Drive Type	Belt, Automatic Adjustment

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STANDARD INSTRUMENT CLUSTER



EC3307

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

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

3. TACHOMETER/SPEEDOMETER - The upper part shows the engine revolutions per minute (RPM), a symbol indicates the RPM for each PTO speed. The lower part shows the tractor travel speed for each gear.

4. 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.

5. ENGINE COOLANT TEMPERATURE GAUGE - The gauge is divided into three sections marked in three colors.
   The pointer in the yellow area indicates low temperature.
   The pointer in the green area indicates normal working temperature.
   The pointer in the red area indicates overheating. STOP THE ENGINE AND CHECK THE CAUSE.

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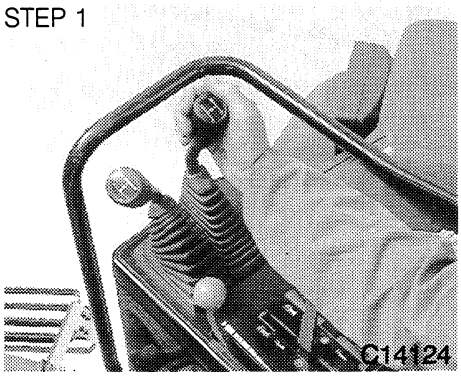
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NORMAL STARTING PROCEDURE

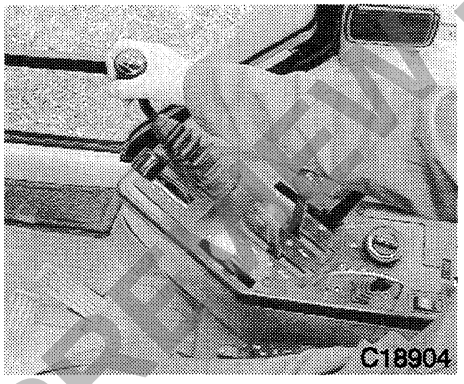
IMPORTANT: *It is very important to operate the engine at idle speed for a few minutes to make sure that enough lubricant reaches the turbocharger bearings and engine parts before operating the engine at rated speed.*

Operate controls only when seated in the Operators seat.
M137

STEP 1



Syncromesh Transmission
Put both the Range and the Speed levers in the neutral position or the starter motor will not operate.

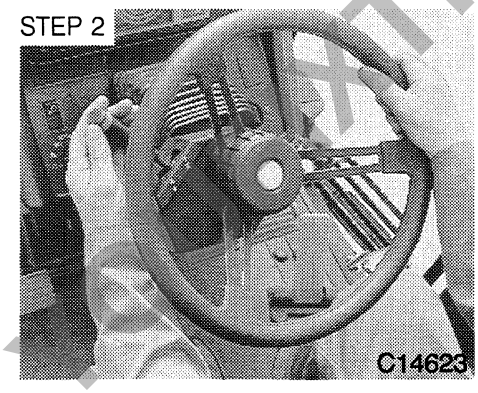


Power Shift Transmission
Put the range lever in the neutral position or the starting motor will not operate.

Always move off with the Power Shift lever in the low (I) position.

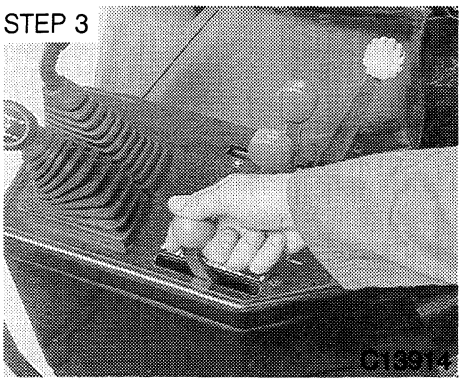
NOTE: *Make sure the PTO lever is in the disengaged position or the starting motor will not operate.*

STEP 2



Put the Forward/Reverse lever in the FORWARD position.

STEP 3



Move the throttle lever to 1/2 open position (1600 RPM Max)

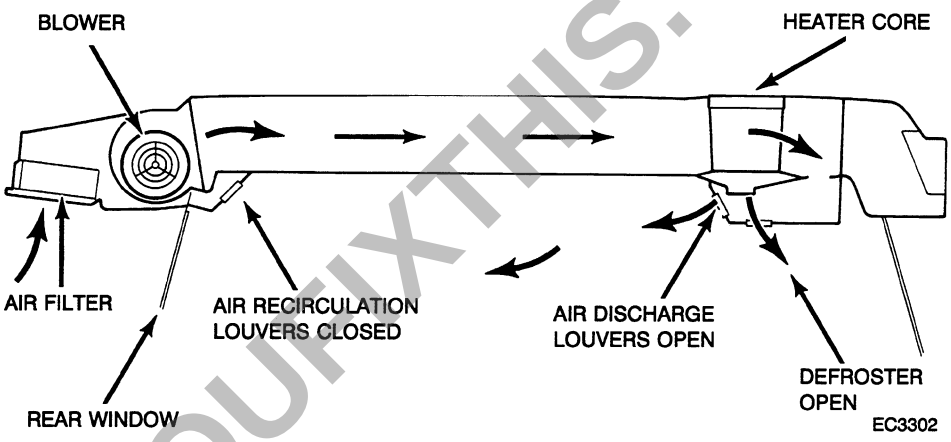
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CAB AIR FLOW ARRANGEMENTS

Shown here and on the next pages are arrangements that can be used to heat or cool the cab for different ambient temperatures.

Controlled Pressure and Air Flow without Air Conditioner



MAXIMUM INSIDE CAB PRESSURE

Pressure is controlled by the use of the three blower speeds and/or the position of the recirculation louvers. For maximum inside cab pressure, close the recirculation louvers and run the blower at PURGE (III) position. This setting is used during field operations in high wind or dust conditions. For minimum cab pressure and air flow, open the recirculation louvers and run the blower at LOW (I) position.

NOTE: *At any position of the recirculation louvers fresh air will be pulled into the cab.*

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Static Calibration Code Number

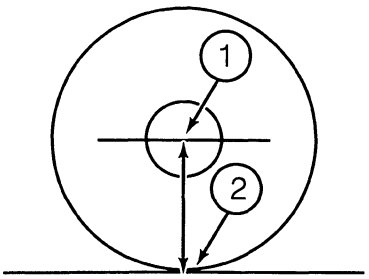
The static calibration method described can be used, if desired, to determine the ground speed calibration number. The static calibration number is based on the static loaded radius of the rear tractor tires.

NOTE: *For the most accurate ground speed information use the Dynamic Programming Method described in this manual.*

To determine the static calibration code 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.

STATIC CALIBRATION CODE NUMBERS

STATIC LOADED RADIUS		STATIC CALIBRATION CODE NUMBER	MEASURING STATIC LOADED RADIUS
INCHES	MM		
24.5	620	635	
26.5	670	588	
27.0	690	571	
27.5	695	567	
28.0	715	551	
28.5	720	547	
29.0	740	532	
29.5	745	529	
30.0	765	515	
30.5	770	512	
31.0	775	508	
31.5	795	495	
32.5	820	480	
34.0	861	457	
36.5	930	423	



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

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LUBRICATION/MAINTENANCE CHART

PAGE NO.	SERVICE POINTS	NO. OF POINTS	FREQUENCY IN HOURS				
			GREASE	DRAIN	CHECK	CLEAN	CHANGE
200	Engine Oil Level	1			10		
219	Hydraulic Oil Level	1			10		
219	Transmission Oil Level	1			10		
210	Coolant Recovery Reservoir Level	1			10		
	General Tractor Inspection (See Note 1)				10		
204	Water Trap - Primary Fuel Filter	1		50			
98	Drawbar Pivot	1				50	
195	Front Axle Pivot - Two Wheel Drive	1	50				
195	Front Axle Swivel Pins - Two Wheel Drive	2	50				
196	Front Axle Pivot - MFD Tractor	1	50				
196	Front Axle Swivel Pins - MFD Tractor	4	50				
195	Three Point Linkage Turnbuckle	4	50				
226	Cab Recirculation Filters	2				50	
228	Radiator and Coolers	3				50	
144	Tire Pressure				50		
235	Compressor Belt	1			250		
229	Fan and Alternator Belt	1			250		
247	Battery Level	2			250		
200	Engine Oil	1					250
200	Engine Oil Filter	1					250
205	Engine Fuel Filters	2		10			500

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

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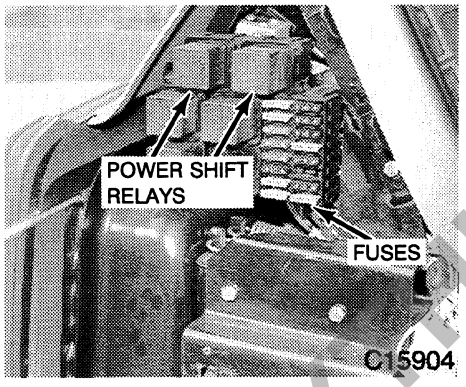
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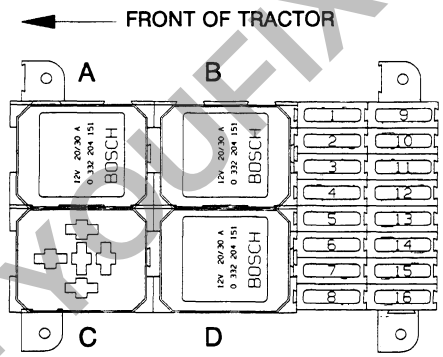
Fuses and Relays Left Side Fuse Panel

The fuses give protection to the electrcal circuits of the tractor and cab.

To service the fuses and relays remove the side panel from the front console on cab models or the small access panel on ROPS models. To replace a fuse, pull the fuse out of the clips and push a new fuse into the clips.

IMPORTANT: *Make sure the new fuse has the same ampere rating as the fuse being replaced.*





P100F2R

FUSE PANEL LAYOUT

Relays

CAB MODEL
A. Standard rear work lamp.
B. Optional front work lamps.
C. Spare.
D. Optional rear work lamps.

ROPS MODEL
A. Fender work lamps.
B. Spare.
C. Canopy work lamps.
D. Spare.

Fuses

1. Front Work Lamps (If Equipped) ..... 15 Amp
2. Rear Wiper (If Equipped) ..... 10 Amp
3. Unswitched Aux. power, Dome Lamp, Cigar lighter ..... 30 Amp
4. Rear Work Lamps (If Equipped) ..... 15 Amp
5. Direction Turn Signal Lamps ..... 15 Amp
6. Warning Lamps ..... 5 Amp
7. Spare
8. Front Wipers ..... 15 Amp
9. Tail Lamps ..... 15 Amp
10. Headlamp High Beam ..... 15 Amp
11. Headlamp Low Beam ..... 15 Amp
12. Spare
13. Instrument Cluster and Console Illumination ..... 5 Amp
14. Rear Work Lamps ..... 15 Amp
15. Spare ..... 15 Amp
16. Fuel Shut Off ..... 10 Amp

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TO THE OWNER

Read this manual before you start the engine or operate your tractor. If you need more information, see your dealer.

Your dealer can give you assistance with Case Corporation approved service parts. Your dealer has technicians with special training that know the best methods of repair and maintenance for your tractor.

Call your dealer if you need any assistance or information.

MODEL 5140 TRACTOR
With Mechanical Front Drive



NOTE: *The right and left of the tractor in this manual are the same as your right and left when sitting in the tractor seat looking forward.*

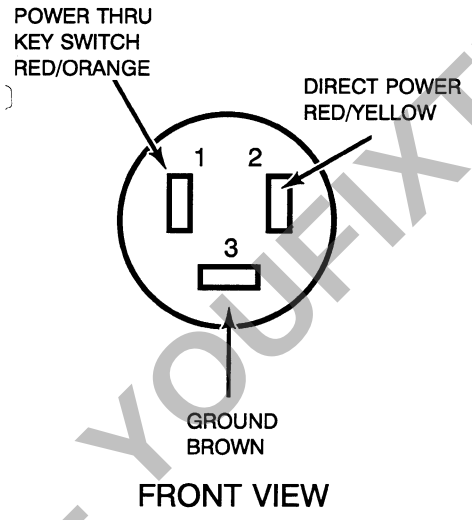
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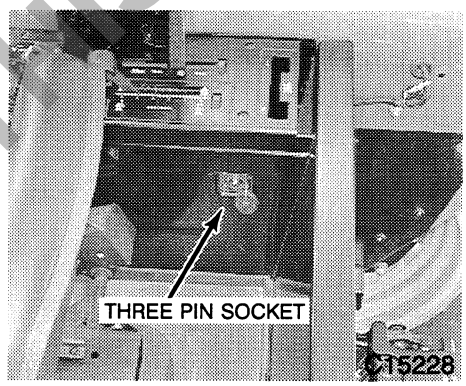
Three Pin Socket

An auxiliary power connection is provided inside the operators compartment for connecting monitors, implement controllers, C.B. radios, and other 12 volt equipment.

The three pin outlet is located on the right hand side to the rear of the seat. The outlet has a ground terminal and two 12 volt power terminals. One power terminal is through the key switch and the other is direct power.



FRONT VIEW



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