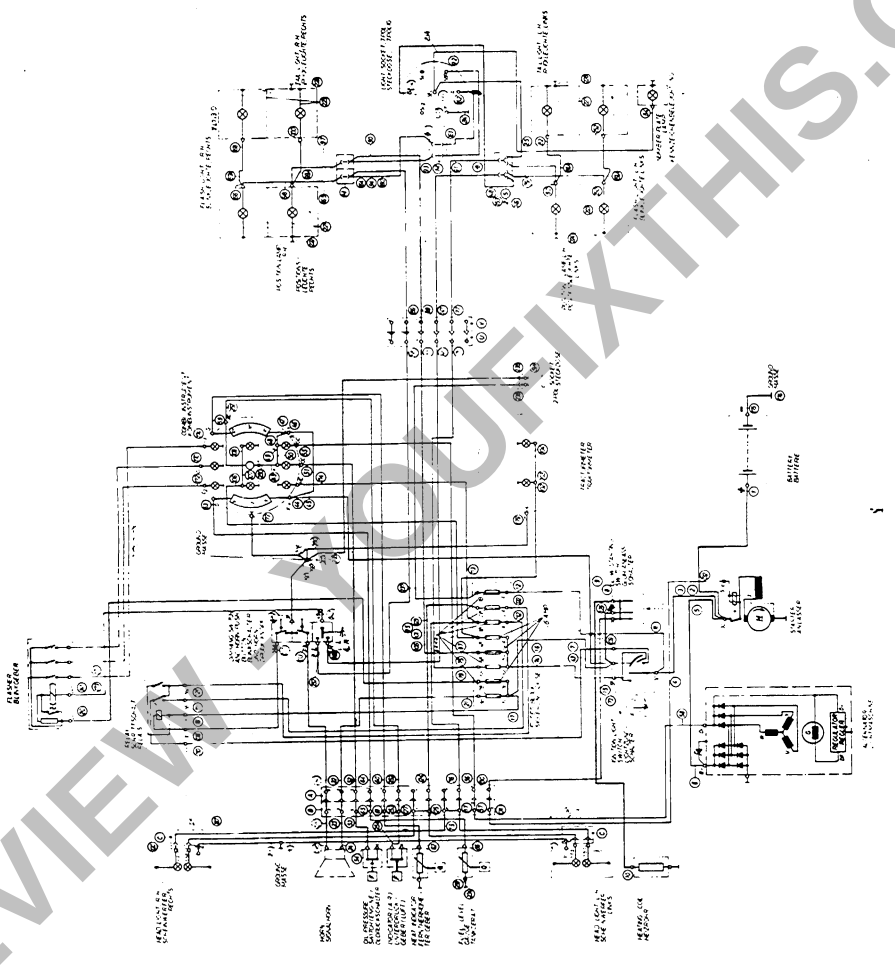
WIRING DIAGRAM For Tractors Without Warning Lights



Illust.79

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MAINTENANCE ENGINE

Important:

1.It is advisable to add kerosene before the start of the cold season.

2.Pour in the kerosene then add diesel fuel to ensure adequate mixing.

3.Use only as much kerosene as is necesary to ensure easy starting.

Do not add gasoline, ether or alcohol to diesel fuel.

Fuel Additive

For severe operating conditions, a pour point improver known as "CASE IH Desolite DW", is marketed through the Service Parts Organisation on Part No. 1089 047 R1 (1 litre). The purpose of this additive is to protect the fuel injection system and valves etc. from harmful deposits and other adverse effects of fuel combustion.

An additive concentration of 0.5% is recommended for continuous operation under severe conditions.

During the last operating hours before storage 1% of "CASE-Desolite" must be added to the fuel system as a preservative.

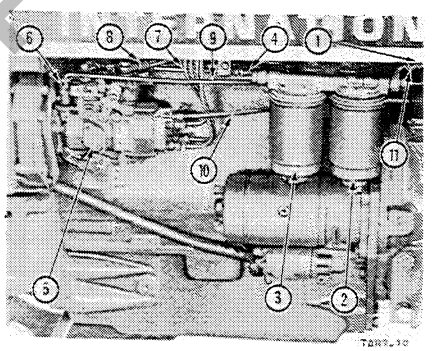
Fuel Tank

To prevent condensation in the fuel tank, fill the tank at the end of each days work.

Fuel Injection Pump

The fuel injection pump is lubricated by the diesel fuel flowing through it. It is therefore important that the fuel system is never allowed to run dry.

The injection pump is correctly set at the factory and should require no adjustment. If adjustments or repairs become necessary, consult your CASE IH or "Bosch" Dealer. Do not attempt to make adjustments or repairs to injection pumps or injectors.



Illust. 55

Fuel system

1 - Fuel tank
2 - Primary filter
3 - Secondary filter
4 - Fuel feed to injection pump
5 - Injection pump
6 - Bleed screw
7 - Injection pipes
8 - Overflow line
9 - Accelerator rod
10 - Fuel control cable (run, start and stop)
11 - Fuel shut-off valve

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TECHNICAL DATA

Special Torque Values	daNm
Front wheel bolts	16 + 2
Rear wheels	
Wheel nuts	30 + 5
Rim nuts*	25
Cylinder head bolts	14 - 15
Hydraulic pump bolts	4 - 4.5
Transmission drain and level plug	10 max.
Set screw and lock nut, front axle pivot pin	15
Clamping bolts, front axle extensions	25
Steering lever, clamping bolts	17
Clamping bolts, drag link	4.7
Steering cylinder	
Lock nut	20
Lock nut	19

* Oil nuts and washers before mounting.

SI MEASUREMENTS

A standard of measurement known as the International System of Units (SI) has been adopted for worldwide use. These units are used throughout this manual.

SI Unit		English Equivalent
mm	- millimeter	0.039 inches
cm	- centimeter	0.39 inches
cm3	- cubic centimeter	0.06 cubic inches
m3	- cubic meter	35.31 cubic feet
l	- liter	1.057 quarts
kg	- kilogram	2.205 pounds weight
kPa	- kilopascal	0.145 psi
MPa	- Megapascal	145 psi
N	- Newton	0.225 pounds force
daN	- dekanewton	2.25 pounds force
Nm	- Newton meter	0.738 foot pounds force
daNm	- dekanewton meter	7.38 foot pounds force
°C	- degrees Celsius	°Fahrenheit = 1.8 x °C + 32
kW	- Kilowatt	1.34 horsepower
1/min	- liter/minute	0.219 gallons per minute
km/h	- kilometer/hour	0.621 miles per hour
1/min		rpm

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TROUBLE SHOOTING

Note: *For repairs, refer to an authorized Case IH Dealer .*

Engine

Problem	*Probable Cause*	*Remarks*
Engine will not start.	Battery discharged. Ground connections corroded or dirty.	Clean connections, remove paint and rust.
	Insufficient pre-heating. Pre-heating coil faulty.	Clean contacts
	Governor control cable sticking, (not in starting position). Fuel shutoff valve at tank closed. Fuel filter(s) incorrectly sealed. Fuel tank empty or filter(s) blocked. Incorrect fuel grade (according to season). Water trap full of water. Injection pump timing faulty. Injectors faulty. Valves sticking. Compressions low. Incorrect viscosity oil (according to season).	
Uneven engine operation.	Fuel filter(s) blocked. Air in fuel system. Injector(s) faulty.	
Engine overheats.	Fan belt slipping. Coolant level low. Excessive load. Coolant passages in system blocked with dirt or scale. Radiator air passages blocked. Exhaust system restricted. Thermostat defective. Injection pump timing incorrect.	
Engine does not develop full power.	Fuel filter blocked. Air cleaniner blocked. Exhaust system restricted. Governor control linkage incorrectly adjusted. Valves faulty. Fuel lines blocked. Injection pump timing incorrect.	
Engine oil pressure low.	Low oil level. Oil filter blocked. Oil pressure switch faulty. Poor quality oil. Oil pump filter screen blocked. Dirt in regulating valve. Crankshaft, connecting rod(s) or camshaft bearings worn.	Incorrect readings

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MAINTENANCE GENERAL

Periodic Servicing Schedule				Inspections		
Service interval (Hours of operation)	*No. on chart*	***Point of Service***	***Service***	*First 20 Hours*	*Second 200 Hours*	*Third and every 800 Hours*
Every 10	1	Engine	Check oil level			
Every 50 or weekly	2	Primary fuel filter	Drain water	X	X	X
	3	Secondary fuel filter	Drain water	X	X	X
	4	Cooling system	Check coolant level	X	X	X
	5	Battery	Check electrolyte level	X	X	X
	6	Three point linkage lift rods, and levelling box	Grease	X	X	X
	28	Fuel tank cap ventilation	Inspect and clean			
Every 200	7	Transmission	Check oil level	X	X	X
	8	Hydraulic system	Check oil level	X	X	X
	9	Steering gear (mechanical)	Check box for leakage	X	X	X
		Fuel system	Check for leakage	X	X	X
	10	Brakes	Check adjustment	X	X	X
	11	Clutch	Check adjustment	X	X	X
		"V" belt	Check tension	X	X	X
	12	Engine**	Change oil		X	X
	13	Engine oil filter	Change cartridge		X	X
	14	Hydraulic system pressure filter	Change element	X	X	X
	15	Steering knuckles (each side)	Grease	X	X	X
	16	Pivot bearing	Grease	X	X	X
	17	Brake pedals	Grease	X	X	X
	18	Diff. lock pedal (E tractors only)	Grease	X	X	X
	19	Clutch pedal	Grease	X	X	X
	20	Clutch release bearing	Grease	X	X	X
	21	Bellcrank (E tractors only)	Grease	X	X	X
	22	Brake pedal shaft	Grease	X	X	X
	30 (Illust 40a)	Rubber protectors at ball joints	Check for leakage (if protectors are damaged, change ball joint assembly)	X	X	X
Every 400	6	Coolant filter conditioner (if equipped)	Change cartridge			X
Every 800	2	Primary fuel filter	Change element			X
	3	Secondary fuel filter	Change element			X
	4	Cooling system (without conditioner)	Clean, change coolant			X
	23	Hydraulic system	Change oil		X	X
	24	Air cleaner	Change element			X
	25	Engine breather filter	Clean			X
Every 1200 or 2 years	4	Cooling system (with conditioner)	Clean, change coolant			

** At least every six months

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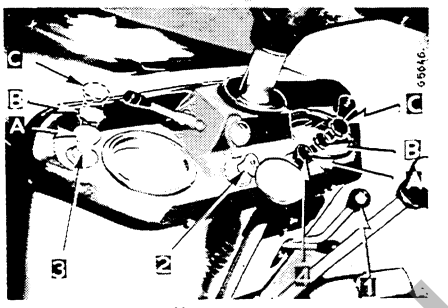
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OPERATING THE TRACTOR

Engine Break-In Chart

Period	Engine Speed Control Lever Position	Load
10 to 15 minutes	One-half maximum	None
1st Hour	Fully advanced	Maintain engine speed 100 RPM above full load governed speed.
2nd Hour through 5th Hour	Fully advanced	Full load governed speed with occasional short periods of lighter load

Starting the Engine



Illust. 14

1 - Engine speed control lever
2 - Switch key
3 - Starting and shut-off control
  A = Run position
  B = Not used (* Start position)
  C = Stop position

4 - Glowstarter switch
  A = Run position
  B = Pre-heating position
  C = Start position

Be sure speed range, gearshift and pto shifter lever are in neutral and the parking brake is applied.

Note: *If the tractor is equipped with a safety starting switch, the starting motor will not operate unless the clutch pedal is fully depressed.*

Open fuel shut-off valve.

1.Move the engine speed control lever to the high idle position (full throttle).

2.Turn switch key to position "1".

3.Push starting control (3) to position (A).

* 3.Pull out control (3) to its first stop position (B) and hold it there.

4.Depress clutch pedal then pull out glow starter switch (4) all the way (C) to engage the starting motor.

* As soon as the engine fires, release the starter button. Push starting control (3) to position (A).

Note: *If the engine does not fire within 10 seconds, release the starter button until the starting motor has come to rest, then try again.*

5.Move the engine speed control lever to approximately half way and allow the engine to warm up.

* Tractors with VA injection pump

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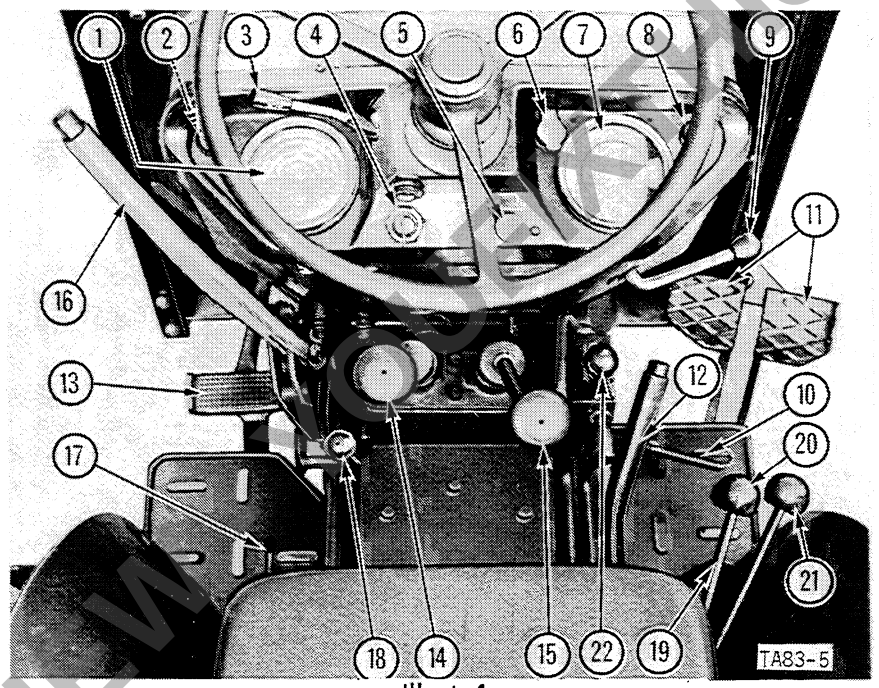
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INSTRUMENTS AND CONTROLS

Regardless of previous experience , you must be thoroughly familiar with the location and use of all instruments and controls before operating the tractor. Check all instruments, immediately after starting, and again upon reaching operating temperature, and at frequent intervals during operation to assure proper care through prompt detection and correction of problems.

If any of the instruments do not register properly, stop the engine, locate and correct the cause immediately.

Be careful! Any attempt to operate the machine without sufficient knowledge may be hazardous.



Illust. 4

1. - Tractormeter
2. - Starting- and shut-off control
3. - Horn button, directional indicators and dimmer switch
4. - Ignition and light switch
5. - Glow starter switch
6. - Plug socket
7. - Instrument cluster
8. - Hazard warning light switch
9. - Hand throttle
10. - Accelerator pedal
11. - Brake pedals
12. - Parking brake lever
13. - Clutch pedal
14. - Speed range lever
15. - Gearshift lever
16. - PTO clutch lever
17. - PTO shifter lever
18. - Speed reducer lever*
19. - Differential lock pedal
20. - Position control lever
21. - Draft control lever
22. - Auxiliary valve*

* if equipped

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ATTACHMENTS

Four Wheel Drive, E633A, E733A, E833A, Tractors only

TECHNICAL DATA

Capacities (Litres)

Front Drive Axle Differential	1,8
Planetary Drive Hubs	0,2

Standard Tyres

E633A	
Front:	7,50-16,6PR
Rear:	12,4 R28, 6PR
E733A/E 833A	
Front:	7,50-18,6PR
Rear:	13,6 R28, 6PR

Front Wheel Toe-in 0 to 2mm

Dimensions in mm.

	E633A	E733A/E 833A
Length overall	3055	3175
Width overall	1580	1580
Height	2363	2363
Wheelbase	1910	2030
Ground clearance Front	270	270
Turning radius (without brakes)	4600	4600

SPEED CHART 30 km/h VERSION
E633A Tractor

With tires 12.4 R 28												
Range	Field				Road				Reverse			
Gear	1	2	3	4	1	2	3	4	1	2	3	4
Km/h	1.5	2,5	3.9	6,5	6.0	10.3	15.8	30.0	2,1	3.5	5.4	9.0
Speed Reducer A	1.3	2.2	3.3	5.5	5.1	8.7	13.4	22.4	1.8	3.0	4.6	7 7
Engaged B	0.34	0.58	0.89	1.49	1.38	2.36	3.63	6.05	0.47	0.81	1.24	2.07

SPEED CHART 30 km/h VERSION
E733A and E833A Tractor

With tires 13.6 R 28												
Range	Field				Road				Reverse			
Gear	1	2	3	4	1	2	3	4	1	2	3	4
Km/h	1.5	2,5	3.9	6,5	6.2	10.6	16.4	30.0	2.1	3.6	5.6	9.4
Speed Reducer A	1.3	2.2	3.3	5.5	5.3	9.0	13.9	23.2	1.8	3.1	4.8	8.0
Engaged B	0.34	0.58	0.89	1.49	1.43	2.44	3.76	6.26	0.49	0.84	1.29	2.15

RECOMMENDED LUBRICANTS

Front Drive Axle IH-Transmission oil EP SAE 90 MIL-L-2105B (GL5)

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