4 - OPERATING INSTRUCTIONS

Commissioning the unit

Before operating

⚠ CAUTION

Avoid injury and/or machine damage!
Before driving the machine, make sure that you are familiar with the operation of the machine and the Multi-Function Handle (MFH). Do not use the Shuttle Mode option until you are completely familiar with the operation of the machine and the MFH.
Failure to comply could result in minor or moderate injury.

C0117A

Read this section carefully for a thorough understanding of operational requirements. Even if you operate other tractors of different make & model, you should thoroughly read this section of the manual and make sure that you are familiar with the location and function of all the controls of this tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of tractor, consult your Authorized Dealer.

See Section 7 for lubrication and maintenance requirements. Tractor specifications can be found in Section 9

Running-In Procedure

Your tractor should provide long and trusted service, if given proper care during the first **50 h** running-in period and if serviced at the recommended intervals

Avoid overloading the engine. Operating in a high gear under heavy load may cause engine overloading. Overloading can be ascertained by checking whether engine is responding to a throttle increase.

Do not operate the engine without load. This can be as harmful to the engine as overloading. Ensure that the engine is subjected to heavy as well as light loads during the running-in period.

Use the lower gears when pulling heavy loads and avoid continuous operation at constant engine speeds. Operating the tractor in a low gear with light load and high engine speed will waste fuel. You will be able to save fuel and minimize engine wear by selecting the correct gears for a particular operation.

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3 - CONTROLS AND INSTRUMENTS

Access to operator's platform

Before operating

⚠ CAUTION

Avoid injury and/or machine damage!
Before driving the machine, make sure that you are familiar with the operation of the machine and the Multi-Function Handle (MFH). Do not use the Shuttle Mode option until you are completely familiar with the operation of the machine and the MFH.
Failure to comply could result in minor or moderate injury.

C0117A

Read this section thoroughly. It details the location and operation of the various instruments, switches and controls on your tractor. Even if you operate other tractors, you should thoroughly read this section of the manual and ensure that you are familiar with the location and function of all the features of the tractor.

Do not start the engine or attempt to drive or operate the tractor until you are fully accustomed with all the controls. It is too late to learn once the tractor is moving. If in doubt about any aspect of operation of the tractor, consult your authorized dealer.

Pay particular attention to the recommendations for running-in to ensure that your tractor will give a long and dependable service for which it was designed. See **Running-In Procedure**

The feature which requires setting up and running adjustments in the field, detailed instructions will be found in chapter 6, Working Operations.

Lubrication and maintenance requirements will be found in chapter 7. Tractor specifications are listed in chapter 9.

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7 - MAINTENANCE

General information

Introduction

This section gives full details of the service procedures necessary to maintain your tractor at peak efficiency. The lubrication and maintenance chart provides a ready reference to these requirements. Each operation has been numbered for easy reference. If in doubt about any aspect of lubrication and maintenance, consult your authorized dealer.

NOTICE: *While conducting the every **50 h**, **300 h**, **600 h** and **1200 h** of services, carry out all the preceding operations i.e., the operations done in the previous servicing, along with the operations particular to that servicing.*

Safety precautions

Read and observe all safety precautions listed in “Servicing the Tractor” in the introduction section at the front of this Manual.

NOTE: *Dispose off used filters and fluids properly as per the laws of the country.*

⚠ CAUTION

Avoid injury!
Do not remove the vent caps while the engine is running.
Failure to comply could result in minor or moderate injury.

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During the first 50 hour operation

In addition to the regular maintenance operations listed, check following items every **10 h** or daily during first **50 h** of operation:

1. Check engine oil.
2. Check Transmission oil level
3. Wheel nuts for tightness.

NOTE: *Park the tractor on level ground and where applicable, extend all cylinders on implements or attachments before checking oil levels.*

The first 50 hour service

In the first **50 h** service, make sure that following additional service operations are carried out. Items are listed in the ‘First **50 h** service’ check list (See Warranty Booklet supplied along with this manual).

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8 - TROUBLESHOOTING

Fault code resolution

Maintenance - Troubleshooting

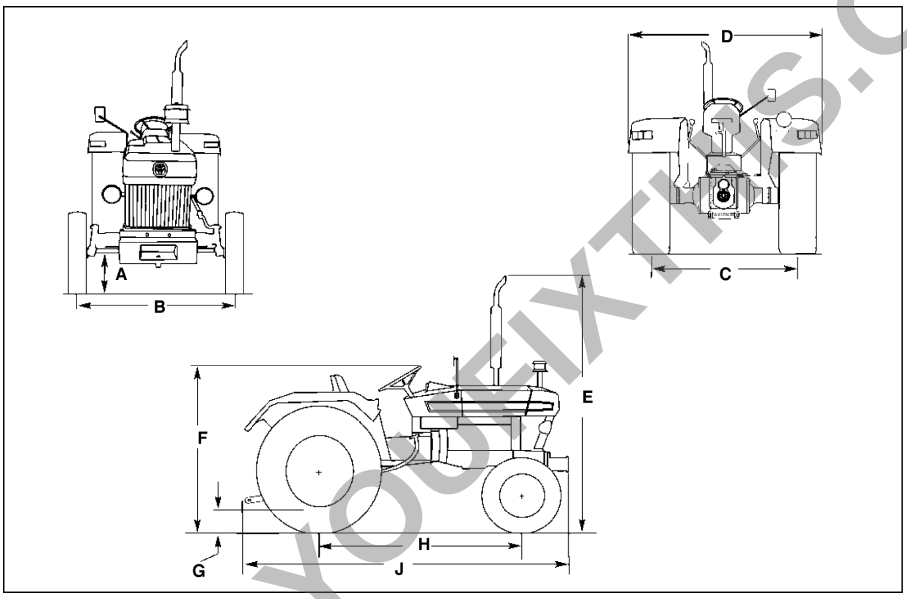
Problem	Possible Cause	Correction
The engine does not start or starts with difficulty	Incorrect starting procedure.	See starting procedure
	Tractor in gear.	Put shuttle lever in neutral.
	Fuel level low or empty.	Check fuel level & fill
	Air in fuel system.	Bleed fuel system.
	Fuel system choked	Contact your authorised dealer.
	Fuel filter clogged.	Replace filter.
	Fuel pump injector faulty.	Contact your authorised dealer.
	Fuel shut off knob is in pulled condition (Off condition)	Bring it back to normal position.
Improper engine running or stalls after start	Fuel filter clogged	Replace filter
	Poor diesel quality	Drain tank and fill with filtered diesel
	Fuel system choked.	Contact your authorised dealer
	Fuel injector faulty.	Contact your authorised dealer
Engine does not achieve maximum power	Engine overloaded.	Change to lower gear or reduce load.
	Air cleaner dirty	Carry out maintenance on air cleaner.
	Fuel filter clogged.	Replace filter.
	Engine overheating.	See engine overheating.
	Low engine operating temperature.	Check thermostat.
	Fuel injector faulty.	Contact your authorised dealer.
	Tappet clearance incorrect.	Get it adjusted by your authorised dealer.
	Throttle control lever mechanism faulty	Contact your authorised dealer.
Abnormal engine knock	Oil level low.	Top up the oil level.
	Spill cut-off timing incorrect	Contact your Authorised Dealer
	Oil pressure low.	Contact your authorised dealer
	Engine over heating	See engine overheating

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9 - SPECIFICATIONS

Frame - General specification



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

Front tire	6.00x16
Rear tire	16.9x28
A Ground clearance under front axle	**480.0 mm** (**18.9 in**)
B Front track width (standard)	**1400.0 mm** (**55.1 in**)
C Rear track width (standard)	**1470.0 mm** (**57.9 in**)
D Overall width (standard)	**1930.0 mm** (**76.0 in**)
E Height to top of exhaust	**2200.0 mm** (**86.6 in**)
F Height to top of steering wheel	**1650.0 mm** (**65.0 in**)
G. Ground clearance under rear axle	**475.0 mm** (**18.7 in**)
H Wheel base	**2055.0 mm** (**80.9 in**)
J Overall length (including front weight)	**3490.0 mm** (**137.4 in**)
Height to top of ROPS	**2460.0 mm** (**96.9 in**)
Minimum radius of turning circle (with brake)	**3205.0 mm** (**126.2 in**)
Minimum radius of turning circle (without brake)	**3500 mm** (**137.8 in**)

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6 - WORKING OPERATIONS

POWER TAKE OFF (PTO)

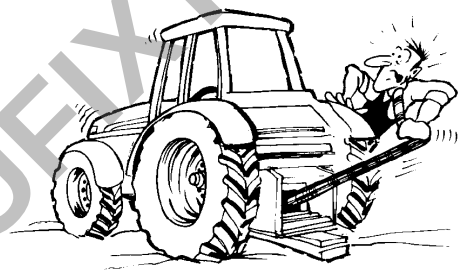
Power Take-Off (PTO) operating precautions

⚠ WARNING

Avoid injury!
Observe ALL precautions listed below when operating Power Take-Off (PTO) driven equipment.
Failure to comply could result in death or serious injury.

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Whenever operating PTO driven implement, observe the following precautions:



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- Check that you are using the correct PTO speed for the implement. Follow the operating instructions in the implement operator manual.
- Make sure that the PTO guard is installed when using PTO driven implement.
- Do not wear loose clothing when operating PTO driven implement,
- Firmly apply parking brake, place all gear shift levers in neutral and block all four wheels before operating any stationary PTO driven implement.
- Do not approach, clean or adjust PTO driven implement while the tractor engine is still running. Stop the engine, wait until the PTO & its driven implement stops rotating before getting down from the tractor or before working on the PTO, or the implement.
- With engine stopped, PTO shaft may be turned by hand so as to aid the installation or removal of the implement.



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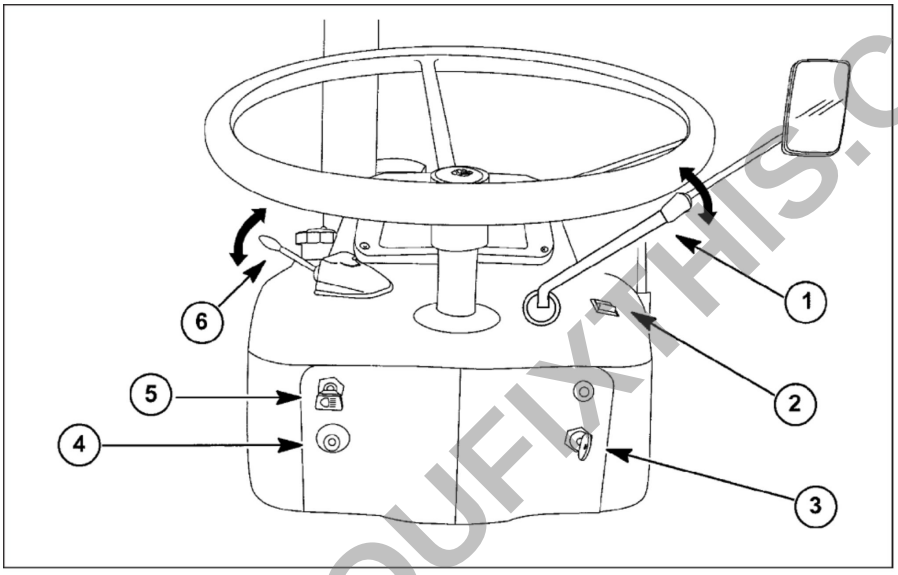
Attaching PTO driven equipment

Before attaching or detaching equipment or changing the PTO shaft :

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Hand controls and switches



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Hand throttle lever

The hand throttle lever **(1)** should be used during the field operation.
Pull the lever down to increase the engine speed and up to reduce it.

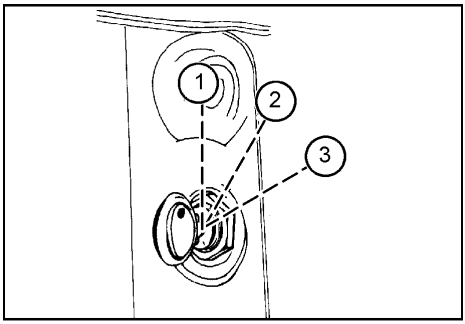
Key start switch

The key start switch **(3)** activates the electrical equipment, lights, gauges and the starting motor.

It has three position
Position **(1)** - Electrical equipment OFF
Position **(2)** - Accessories ON (Head lamp, Instrument cluster, horn and gauges)
Position **(3)** - Starter motor engaged

Hazard warning light switch

This switch **(2)** should be used during emergency parking, foggy whether to indicate warning signal to the approaching vehicles and the following vehicles. This switch can be operated with key starter switch in OFF position.



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Maintenance planning

Maintenance - Maintenance chart

MAINTENANCE REQUIREMENTS	LUBRICATE	CLEAN	CHECK	CHANGE	ADJUST	DRAIN	TOP UP	PAGE NO.
Every 10 hours or daily								
Engine oil level			■					**7-9**
Radiator coolant level			■					**7-10**
Air pre cleaner		■						**7-10**
Hydrostatic steering oil level			■					**7-11**
Water drain plug (fuel filters)						■		**7-12**
Every 50 hours or weekly								
Transmission/hydraulics oil level			■					**7-22**
Water drain plug (fuel filters)						■		**7-12**
Clutch pedal free play			■					**7-13**
Brake pedal free play			■					**7-14**
Parking brake			■					**7-14**
Wheel, nuts and bolts			■					**7-15**
Tire pressure			■					**7-15**
Fan and alternator belt tension			■					**7-15**
All greasing points		■	■					**7-16**
Every 150 hours								
Battery electrolyte level			■					**7-18**
Every 300 hours								
Fuel filter (Primary)				■				**7-19**
Fuel feed pump strainer		■						**7-19**
Hydrostatic steering oil filter		■						**7-20**
Engine oil				■				**7-21**
Engine oil filter				■				**7-22**
Transmission/hydraulics oil level			■					**7-22**
Hydraulic oil filter				■				**7-23**
Every 600 hours								
Fuel filter (Primary and secondary)				■				**7-24**
Valve tappet clearance			■					**7-24**
Transmission breather		■						**7-24**
Front wheel bearings		■	■					**7-25**
Fuel Injectors			■					**7-26**
Toe-in			■					**7-26**

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Problem	Possible Cause	Correction
	Tappet setting incorrect	Contact your authorised dealer.
Low engine operating temperature	Thermostat malfunction	Replace thermostat.
	Water temperature gauge faulty	Get it checked by your authorised dealer
Engine oil pressure warning light glows (Oil Pressure low)	Oil level low.	Top up the oil level, as required.
	Incorrect grade of oil.	Drain and refill with oil of correct grade and viscosity.
	Oil pump faulty.	Contact your authorised dealer.
Excessive oil consumption	Oil level too high.	Reduce oil level.
	Incorrect grade of oil.	Use oil of correct viscosity
	Oil leakage	Contact your authorised dealer.
Engine over heating	Radiator cap defective.	Replace cap.
	Radiator core / fins clogged.	Clean
	Engine overloads	Change to lower gear or reduce load.
	Engine oil level low.	Top up oil level.
	Coolant level low.	Top up coolant level in radiator tank; check system for leakages. In case leakage still persists, contact your authorised dealer.
	Fan/Alternator belt slipping or wornout.	Check belt tension. Replace belt, if worn.
	Thermostat defective.	Change.
	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 authorised dealer.
Excessive fuel consumption.	Air cleaner dirty or clogged.	Carry out maintenance on air cleaner.
	Engine overloaded.	Change to lower gear or reduce load.
	Tappet clearance wrong.	Contact your authorised dealer.
	Implement wrongly adjusted..	Contact your authorised dealer.
	Engine temperature too low.	Contact your authorised dealer.

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Engine - Technical Data

Make	Iveco
Type	8035.05D.938 Water cooled, four stroke, direct injection, diesel engine
BHP	**36.4 kW** (**49.5 Hp**)
Number of cylinders	3
Bore	**104 mm**
Stroke	**115 mm**
Cubic capacity	**2931 cm³**
Compression ratio	18.0:1 +/- 0.5
Firing order	1-2-3
Idle speed	**700 +/- 50 RPM**
Maximum no-load speed	**2400 +/- 50 RPM**
Rated speed	**2100 RPM**
Tappet clearance Intake, exhaust	**0.30 mm**

Engine cooling system - General specification

Type	Pressurised recirculating by-pass
Thermostat type	Wax
Starts to open at	**79 °C +/- ±2**
Fully open at	**94 °C**
Radiator pressure cap	**0.90 bar** (**13.00 psi**)

Clutch - Technical Data

Type	Dual dry
Clutch driven plate diameter	**279.4 mm** (**11.0 in**)
Clutch PTO plate diameter	**279.4 mm** (**11.0 in**)
Pedal free travel	**35 – 40 mm**

Power Take-Off (PTO) - Technical Data

Type	Independent
Engine speed for **540 RPM**	**1800 RPM**
Control	By hand lever provided on LHS of operator seat
Rotation	Clockwise

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