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JX55T
JX75T
Tractor

OPERATOR'S MANUAL

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CASE IH AGRICULTURE

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Contents

1 GENERAL INFORMATION

General information and safety 1-1
Product identification 1-2
Ecology and the Environment 1-4

2 SAFETY INFORMATION

Safety rules 2-1
Personal safety 2-1
Driving the tractor 2-1
Operating the tractor 2-2
Operating the Power Take-Off (PTO) 2-3
Servicing the tractor 2-4
Diesel fuel 2-5
Instructions for Driving on Road 2-6
International symbols 2-8
Fuel saving tips for optimum performance 2-9
Trailer hitching 2-10

3 CONTROLS AND INSTRUMENTS

Access to operator's platform

Before operating 3-1

Operator's seat

Operator seat - Adjust 3-1

Forward controls

Instrument cluster - Control identification 3-2
Hand controls and switches 3-4

Left-hand side controls

Clutch 3-5
Parking Brake 3-5
Creeper gears (where fitted) 3-5
Power Take-Off (PTO) 3-6
4WD Lever 3-6

Right-hand side controls

Foot Accelerator 3-7
Differential lock pedal 3-7
Brake pedal 3-7

Transmission

Transmission 3-8

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2 - SAFETY INFORMATION

Safety rules

A careful operator is the best operator. Most accidents can be avoided by observing certain precautions. To help prevent accidents, read and take the following precautions before driving, operating or servicing the tractor. Equipment should be operated only by those who are responsible, trained & authorized to do so.

Precautionary statements

Throughout this manual you will see text, preceded by the words NOTE, ATTENTION, CAUTION, WARNING or DANGER. Such text has the following significance

Machine Safety

NOTE: *This text stresses a correct operating technique or procedure.*

NOTICE: *This text informs the reader about something that he needs to know to prevent minor machine damage if a certain procedure is not followed*

Personal safety

⚠ CAUTION ⚠
The word CAUTION is used where a safe behavioral practice, according to operating & maintenance instructions and common safety practices will protect the operator and others from accident involvement.

⚠ WARNING ⚠
The word WARNING denotes a potential or hidden hazard which could possibly cause serious injury. It is used to warn.

⚠ DANGER ⚠
The word DANGER denotes a forbidden practice in connection with a serious hazard

Failure to follow the CAUTION, WARNING and DANGER instructions may result in serious injury to body or even death.

The tractor

Throughout this manual you will see text, preceded by the words NOTE, ATTENTION, CAUTION, WARNING or DANGER. Such text has the following significance:

1. Read this Operator's Manual carefully before using the tractor. Lack of operating knowledge can lead to accidents.
2. To prevent falls, use the hand rails and step plates while getting on and off the tractor. Keep steps and platform clear of mud and debris.
3. Replace all missing, illegible or damaged safety decals.
4. Keep safety decals free of dirt or grime.



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5. Do not permit anyone, except the operator to ride the tractor. It is unsafe for extra passengers to travel.
6. Always keep children away from the tractor and farm machinery.
7. You or any body else should not modify or alter tractor or any of its components without consulting your authorized dealer.
8. Install all guards before starting the engine or operating the tractor.
9. Tractor wheels are very heavy. Handle with care and ensure while storing that they should not topple down and cause injury to anybody.

Driving the tractor

1. Always sit in the driver's seat while starting or driving the tractor.
2. When driving on public roads, have consideration for other vehicles on the road. Keep tractor in left lane (slow moving traffic lane) so as to allow traffic to pass besides you. Do not exceed the legal speed limit set for agricultural tractors.

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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.

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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.

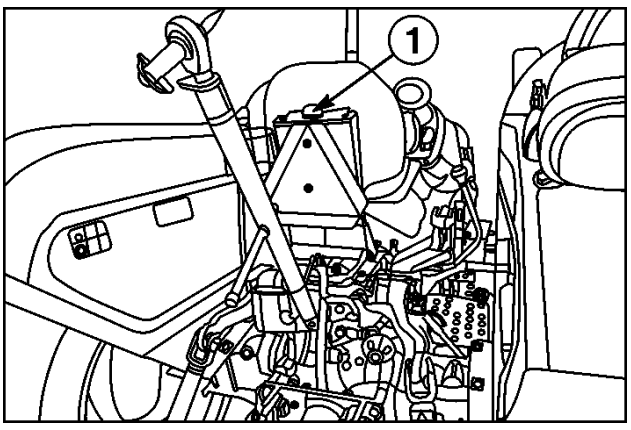
Operator's seat

Operator seat - Adjust

Before operating the tractor, it is important to adjust the seat to the most comfortable position. see the following text and illustrations for details.

Suspension/Weight adjustment 1

The suspension is adjusted by means of a knob **(1)** behind the back rest of the seat. Turn the knob clockwise to increase suspension stiffness, which will make it less soft. Turn the knob anti-clockwise and the seat suspension will become more soft. The optimum suspension setting is achieved when the indicator indicates your weight approximately, when seated.



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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

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Trailer hitching

The trailer can be hitched to the tractor with the help of the following accessories, available at your Authorised Dealer.

Swinging draw bar attachment (JX75T model only)

Swinging draw bar should be used to tow four wheeled trailers and trailed implements. Do not tow a two wheeled trailer as it may cause front end lifting thereby leading to accidents

Adjustable rear tow hook

Three different positions are attained by adjusting the height both, above and below the P.T.O., and by reversing the rear tow hook frame. The hitching heights vary from **535 - 720 mm** (JX75T model) & **505 - 690 mm** (JX55T model) When using a two wheeled trailer, it is safer to hitch below the centre line of the rear axle.

NOTE: *It is advisable to remove the swinging draw bar support when using the rear tow hook.*

RECOMMENDED IMPLEMENTS AND TRAILER LOAD

Details of matching implements and equipment along with recommended gears are given below:

Implements

Matching Implements	JX55T		JX75T	
	Type	Gears	Type	Gears
Cultivator				
Spring loaded	13 Tines	L3, L4, H1	15 / 17-19 Tines	L3, L4, H1
Rigid tine	11 Tines	L3, L4, H1	15 / 15-17 Tines	L3, L4, H1
Disc Harrow				
Trailed	16 Discs	L3, L4, H1	20 / 24 Discs	L3, L4, H1
Plough				
Disc Plough	3 Discs	L2, L4	3-4 Discs	L2, L3, L4
Mould Board Plough	1- 2 Furrow	L2, L4	2-3 Furrow	L2, L3, L4
Chisel Plough	5-7 Tines	L3, L4	7 / 7-9 Tines	L3, L4
Rotary Tiller (Rotavator)	1.8 meters	L2, L3	2.3 meters	L2, L3
Puddling				
Full cage wheels	-	L2, L3	-	L4, H1
Half cage wheels	-	L2, L3	-	L4, H1

NOTE: *Gears recommended may vary according to the soil conditions, weight of the implement etc.*

Trailer

Type	Recommended Trailer Load (in tons)	
	JX55T	JX75T
Two wheeled (Single Axle)	5	7
Four wheeled (Double Axle)	7	9

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5 - TRANSPORT OPERATIONS

Recovery transport

Towing the tractor

⚠ WARNING

Loss of control!
Only tow at safe speeds. Use caution when making corners or meeting traffic.
Failure to comply could result in death or serious injury.

W0126A

⚠ WARNING

Hazard to bystanders!
The operator must be the only person on the machine when towing. Make sure that nobody else is on the machine or within its working range.
Failure to comply could result in death or serious injury.

W0259A

⚠ WARNING

Roll-over hazard!
Attempting to free a stuck machine can involve safety hazards: the stuck machine or the towing vehicle may tip or overturn, or the tow bar may fail. Always use the proper towing equipment to free a stuck machine.
Failure to comply could result in death or serious injury.

W0327A

⚠ WARNING

Flying object!
Do not use chains, cables, or rope to pull the machine. If the chain, cable, or rope breaks or slips, it may whip with great force. Use only rigid drawbars or tow bars to pull your machine.
Failure to comply could result in death or serious injury.

W0328A

The tractor must only be towed for short distances, for example from inside a building to the outside. It must not be towed for long distances on roads with heavy traffic.

Tow the tractor from the rear, using only the drawbar, the rear tow hitch or the three-point linkage device.

Tow the tractor from the front using the tow pin in the front ballast weights or front support.

Have an operator steer and brake the tractor when necessary.

To avoid damaging the transmission or other components that turn but are not lubricated during towing, observe the following:

- position the gear and range levers in neutral;
- only tow for short distances;
- keep speed below **8 km/h** (**5.0 mph**);
- if possible, run the engine to lubricate the power steering components.

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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.
4. Front axle hub oil levels (4 wheel drive)

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

The First 50 Hours 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).

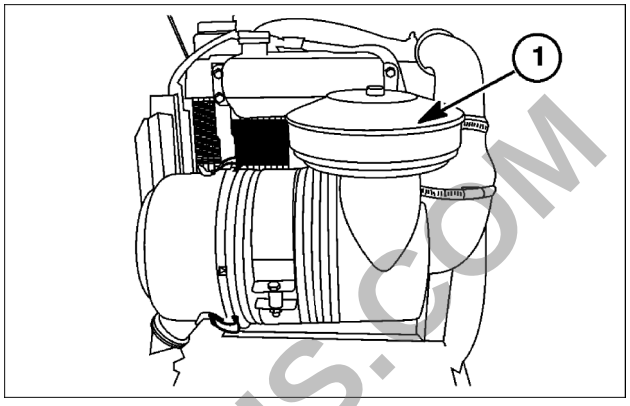
- Check and adjust fan/alternator belt tension.
- Change engine oil and filter.
- Change primary fuel filter.
- Change hydraulic oil filter.
- Check 4WD differential oil level
- Check 4WD axle hub oil level
- Check and tighten all hose connections of cooling system.
- Check and tighten all connections of air intake.
- Check and torque front end weight clamp bolts (where fitted)
- Check torque of all wheel nuts

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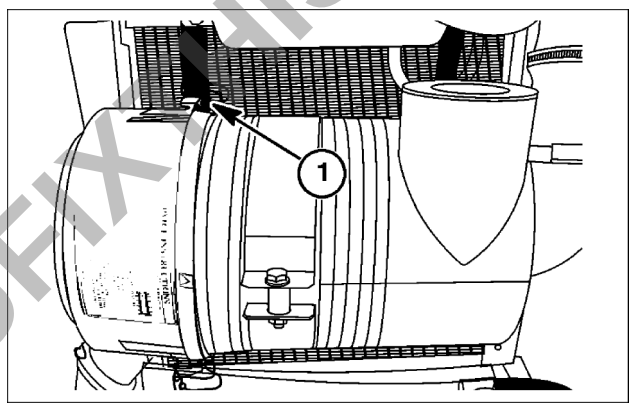
EVERY 300 HOURS

Air cleaner - Cleaning

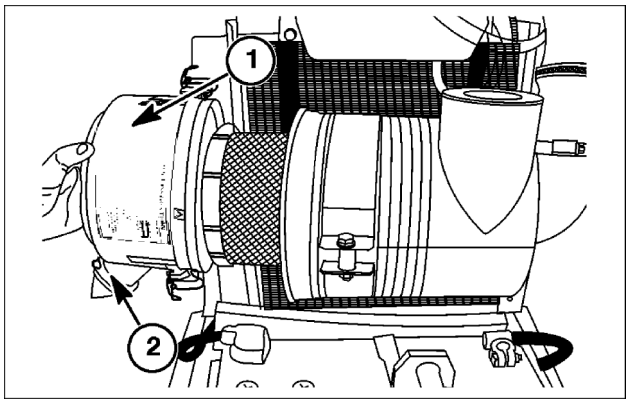
Under dusty condition, clean the outer element as per method A more often than **300 h** . Loss of engine power, excessive smoke and glowing of air cleaner clog light (Refer **3-2**), indicates the possible choking of filter. The dry air cleaner, which is located under the front hood, consists of an inner and outer paper element within a metal casing. See **1**
Unlatch the three retaining clips **(1)** See **2**.
Lift off the air cleaner assembly cover **(1)** See **3**.



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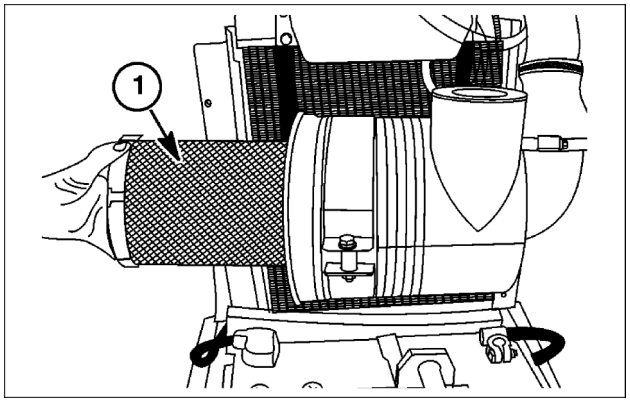


27-01 2



28-01 3

Remove the outer element **(1)**, see **4**, from the air cleaner assembly by gently twisting the end of the filter anti clockwise to disengage the seal. Then pull the filter straight out of the housing, not at an angle, ensuring the inner element **(1)** , see **5** remains in place.

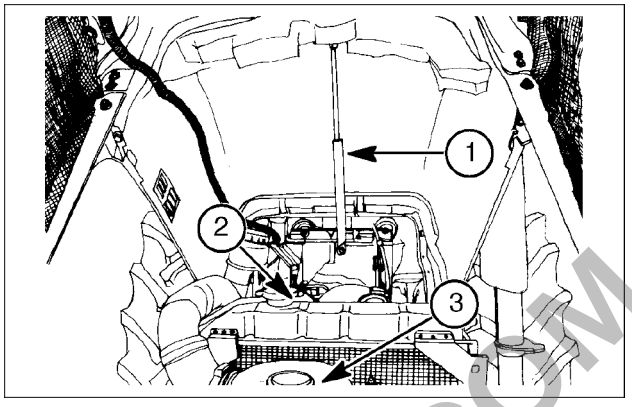


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To maintain the hood in the raised position, a gas strut **(1)** is provided underside the hood ensuring access to the radiator cap **(2)** and air cleaner **(3)**.



4-01 2

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			**7-6**
Radiator coolant level			**7-6**
Air pre cleaner			**7-7**
Hydrostatic steering oil level			**7-7**
Water drain plug (fuel filters)			**7-8**
Fuel water separator			**7-8**
Every 50 hours or weekly			
Clutch pedal free play			**7-8**
Brake pedal free play			**7-9**
Parking Brake			**7-9**
Wheel, nuts and bolts			**7-9**
Tire pressure			**7-10**
Fan / alternator belt tension			**7-10**
All greasing points			**7-10**
Battery electrolyte level			**7-13**
Front axle housing 4WD			**7-13**
Every 300 hours			
Dry air cleaner outer element or light glows			**7-14**
Fuel filter (Primary)			**7-17**
Fuel feed pump filter			**7-17**
Hydrostatic steering oil filter			**7-18**
Engine oil and filter			**7-19** & **7-20**
Transmission/ final drive/ hydraulics oil level			**7-20**
Hydraulic oil filter			**7-21**
Front axle reduction hubs 4WD			**7-21**
Front axle swivel bearings 4WD			**7-22**
Drive shaft sleeve for 4WD front axle			**7-22**
PTO clutch lever free play			**7-22**
Every 600 hours			
Fuel filter (Primary and Secondary)			**7-17**
Valve tappet clearance			**7-23**
Transmission breather			**7-23**

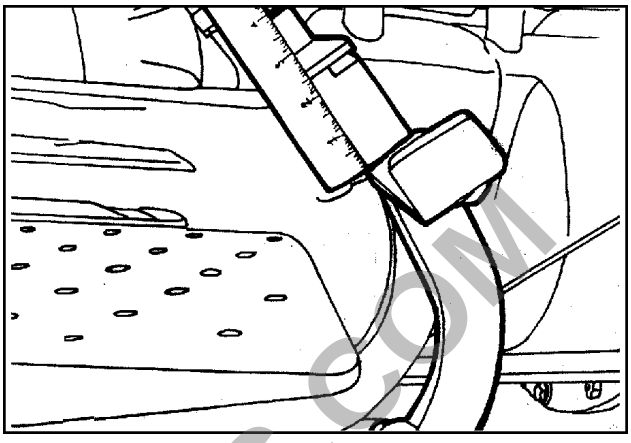
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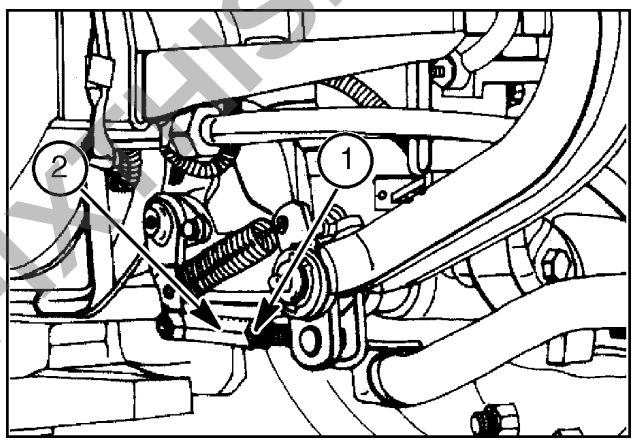
Brake pedals - Adjust

Free play at the brake pedals should be **35 - 45 mm** . With the brake pedals locked together, the tractor should stop in a straight line when the brakes are applied.
Adjustment is made to the brake pull rods beneath the tractor. Block the wheels (front and rear), unlock the brake pedals and release the parking brake lever.
With reference to **2**, loosen the locknut **(1)** on the right-hand brake. Pull rod **(2)**. Turn the adjuster nut until free play at the right brake pedal is between **35 - 45 mm**. Tighten the lock-nut.
Repeat the same procedure for the left brake pull rod.
Lock the brake pedals together. Road test to ensure that the brakes are balanced and will stop the tractor in a straight line. Any further adjustment necessary to balance the brakes should be carried out on the right brake.

NOTE: *Owners should be aware of local regulations concerning the braking systems. Regularly maintain the brakes in accordance with the local legislation. ensure your safety. If in doubt, contact your Authorised Dealer.*



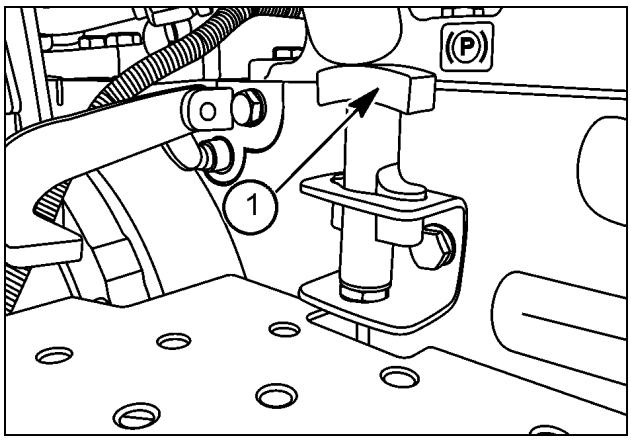
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GNIL16TR00130AA 2

Parking brake or parking lock - Check

After adjusting service brake, ensure that lever **(1)** , free travel is 2-4 clicks, when pulled upwards.



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Wheel hub - Check

Check the front and rear wheel nuts for tightness. The specified torque values are shown in the table on right side for reference.

Front disc to hub bolts (2WD)	**320 N·m**
Front disc to hub bolts (4WD)	**220 N·m**

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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
	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

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