Maintenance planning

Maintenance chart

Maintenance action	Adjust	Check	Cleaning	Tire inflating	Tighten	Bleed	Replace	Change fluid	Grease	Level make up	Page no.
Flexible Maintenance											
Clutch - Adjust	x										7-4
Brake pedals - Adjust	x										7-4
Hand brake lever - Adjust	x										7-4
Fan and drive - Adjust	x										7-5
Air conditioning - Check		x									7-6
Air conditioning - Cleaning			x								7-6
Power shuttle transmission hydraulic components - Check		x									7-7
Wheels - Tire inflating				x							7-7
Front wheels - Tighten					x						7-8
Wiper and washer system - Level make up										x	7-9
Radiator - Level make up										x	7-10
Radiator - Cleaning			x								7-11
Radiator - Cleaning			x								7-12
Front light - Check		x									7-13
WHEN THE WARNING LAMP LIGHTS											
Air cleaners and lines - Cleaning			x								7-14
Air cleaners and lines - Cleaning EXTERNAL CARTRIDGE OF DRY AIR FILTER			x								7-15
Brake fluid reservoir - Level make up										x	7-17
EVERY 10 HOURS OR EACH DAY											
Engine lubrication system - Level make up										x	7-18
EVERY 50 HOURS											
Fan and drive - Adjust	x										7-5
Hydraulic systems - Grease HYDRAULIC LIFTER CONNECTION ARMS									x		7-19
Four-Wheel Drive (4WD) system - Grease DUAL-DRIVE STEERING CYLINDER									x		7-19
Front axle system - Grease FRONT AXLE REAR TRUNNION									x		7-19
Front axle system - Grease FOUR WHEEL DRIVE FRONT AXLE									x		7-20
Wheels - Grease DYNAMIC MUDGUARD									x		7-20
Front axle system - Grease STEERING CYLINDER SINGLE-DRIVE MODEL									x		7-20
Fuel filters - Cleaning FUEL FILTER SEDIMENT BOWL			x								7-21
EVERY 100 HOURS											
Air filter - Cleaning CAB AIR FILTER			x								7-22
EVERY 300 HOURS											
Engine lubrication system - Change fluid ENGINE OIL								x			7-23
Fuel filters - Replace							x				7-23
Fuel filters - Cleaning FEED PUMP			x								7-23
Engine oil filter - Replace							x				7-24
Air cleaners and lines - Cleaning EXTERNAL CARTRIDGE OF DRY AIR FILTER			x								7-25
Transmission oil filter - Replace							x				7-26

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8 - TROUBLESHOOTING

Fault code resolution

Foreword LOCATING FAULTY AREA AND IDENTIFYING THE FAULT

This section is intended to assist you in determining the causes of faults and malfunctions in your tractor:

FAULTS – AFFECTED AREA		
Information on troubleshooting is provided in the following order:		
Engine	**Hydraulic System**	**Brakes**
Electrical System	**Hydraulic Lifter**	**Cab**

Frame - Troubleshooting ENGINE

⚠ WARNING

Avoid injury! Always do the following before lubricating, maintaining, or servicing the machine.
1. **Disengage all drives.**
2. **Engage parking brake.**
3. **Lower all attachments to the ground, or raise and engage all safety locks.**
4. **Shut off engine.**
5. **Remove key from key switch.**
6. **Switch off battery key, if installed.**
7. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W0047A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
If you do not understand a maintenance procedure, or doubt your ability to perform a maintenance procedure correctly, see your authorized dealer.
Failure to comply could result in death or serious injury.

W0157A

Problem	Possible Cause	Correction
The engine will not start or starts with difficulty	Incorrect starting procedure	See the starting procedure
	Fuel level low or empty	Check the fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not right	Use oil of right viscosity
	Fuel not suitable for ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace the filter cartridge
	Fuel injector fault	Contact your dealer
	Battery isolator activated, or faulty fuse and relay	Disconnect the battery isolator, check and if necessary change the fuse or the relay
The engine does not run properly and/or cuts out	Fuel system contaminated	Clean system
	Fuel injector fault	Contact your dealer
Engine does not develop full power	Engine overload	Change to lower gear or reduce load
	Air filter clogged	Carry out maintenance on air filter
	Incorrect fuel type	Use the right fuel
	Low engine operating temperature	Check thermostat
	Fuel injector fault	Have your dealer check the injectors

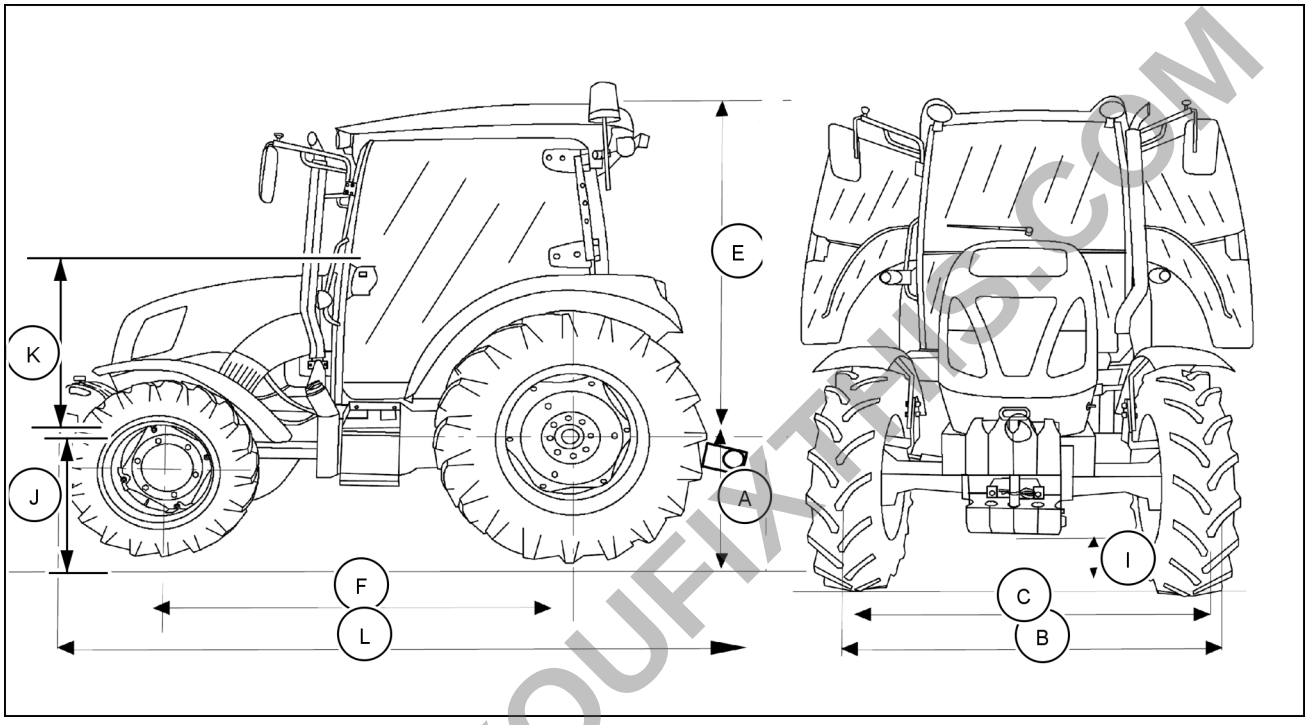
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9 - SPECIFICATIONS

General specification TECHNICAL SPECIFICATIONS

The following pages contain information on the tractor's technical specifications. For more information, contact a NEW HOLLAND authorized dealer.



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DIMENSIONS

DIMENSIONS			ALL MODELS (4WD)
A	Radius index	16.9 R 28	**675 mm**
		16.9 R 30	**700 mm**
B	Rear track width	16.9 R 28	**1527–1972 mm**
		16.9 R 30	**1408–1920 mm**
C	Front track width	12.4 R 20 (320 / 85 R20)	**1447–1877 mm**
		11.2 R 24 (280 / 85 R24)	**1307–2016 mm**
E	Cab Height	All types	**1845 mm**

F	Wheel-base	All types	**2083 mm**	
J	Front axle height	12.4 R 20 (320 / 85 R20)	**526 mm**	
		11.2 R 24 (280 / 85 R24)	**543 mm**	
K	Steering wheel height	All types	**1128 mm**	
L	Total length	All types	T4.55S and T4.65S — **3856 mm**	T4.75S — **3971 mm**

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6 - WORKING OPERATIONS

General information

Safety rules

Read this section before you use your tractor. This section contains all the information on the use and position of tractor controls. Read this section to make sure that you use your tractor safely and correctly.

Read this section even if you are familiar with similar tractors.

After you read this section, make sure that you know the position and use of controls. You will also find the technical features of the tractor in this section.

Do not start or use the tractor if you do not feel confident that you know how to use all the controls.

Errors or accidents may occur if you do not know the function of a control or the details of a technical feature.

If you are unsure about any of the functions of the tractor, please contact your NEW HOLLAND Authorized Service Center.

Take care when you work with the tractor to extend the tractor's service life, and to ensure that you work as safely as possible.

See Section 4 for more information about your tractor's safety features and service life. 4. Section contains details on the general maintenance and lubrication procedures that you must perform.

Section 8 contains information on your tractor's technical specifications.

OPERATION

ATTENTION: *Note the following before you start the engine or move the tractor:*
Make sure that protective and safety equipment is installed properly.
Use the step when you enter and exit the tractor. Do not use the steering wheel or control levers to stabilize yourself as you enter and exit the tractor.
Before you start the engine, make sure that all control levers are in neutral.
Do not leave the tractor running in closed areas for any reason.
Only use the control levers from the driver's seat.
Stop the engine before you carry out any care or maintenance procedures.
Use appropriate warning signs and markings to indicate slow moving vehicles.
Use the appropriate signal when you stop, turn, or slow down when on the road. Be sure that other road users and pedestrians are aware of your intentions.

STARTING THE ENGINE

A. Before you start the engine, read the information in the user handbook on how to start the engine, how to use the control levers, and how to stop the engine .
B. Never start the engine with the air filter removed.
C. If you have not used the tractor for a certain period and you want to start the tractor or use tractor at low temperatures, press the automatic fuel switch under the fuel feed pump about 20 times. Run the engine at idle speed for **5 – 10 s**.
D. Press the clutch to put the tractor into gear and start the engine. Position the gear lever and stage lever in the correct position.
E. Push the hand throttle lever about half way forward.
F. Move the ignition key to position **(C)** as shown and release the key when the engine starts.

STARTING AND STOPPING THE ENGINE

STARTING THE ENGINE IN LOW AIR TEMPERATURES

ATTENTION: *When the engine is cold and the air temperature is low, close the area around the radiator before you start the engine. This allows the coolant to reach its proper temperature quickly. Avoid sudden use, as the hydraulic systems are still cold and are under high pressure. Allow the engine to run at **1300 – 1500 RPM** for **5 min** so that the rear axle transmission oil can reach its normal operating temperature. Then press the throttle. Adhere to these rules when you first start the tractor.*

- If you have not used the tractor for a long time, press the feed pump 20 times before you start the engine.
- When you start the engine, the period of consecutive start attempts should not exceed **15 s**. Otherwise, the battery may go flat. However, if the engine fires but does not start, you can increase this period to **30 s**.
- Wait at least **1 min** between consecutive engine start attempts.
- To make sure that the battery does not discharge, do not attempt to start the engine more than six times.

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Forward controls

Instrument cluster - Localization overview

CONTROLLERS AND INDICATORS

The following pages contain information on the use and position of the controllers and indicators on the tractor.

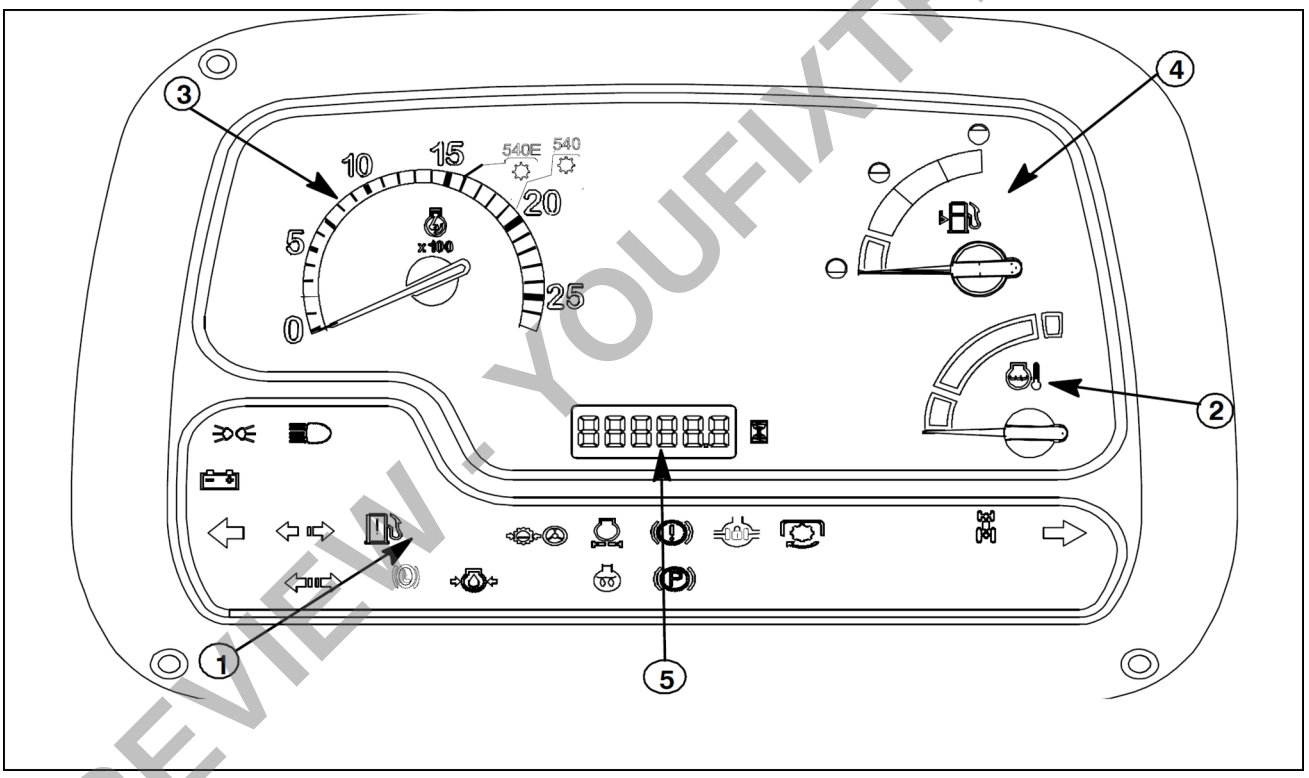
In the cab, the controls and indicators are in six main locations:

1. Dashboard and central console controllers
2. Front panel controllers
3. Right side controllers
4. Left side controllers
5. Pedals and other floor controllers
6. Cab controllers

NOTE: *This section contains general information on the position and use of controllers It does not contain detailed information. For this information, see the information in Section 2. Read this information before you use the tractor.*

ATTENTION: *Do not use the tractor before you understand the use and position of all controllers.*

ANALOG DASHBOARD



ANIL16TRO2770HA 1

1 Warning lights

2 Temperature indicator

3 Rev counter
Engine and PTO speed

4 Fuel level indicator

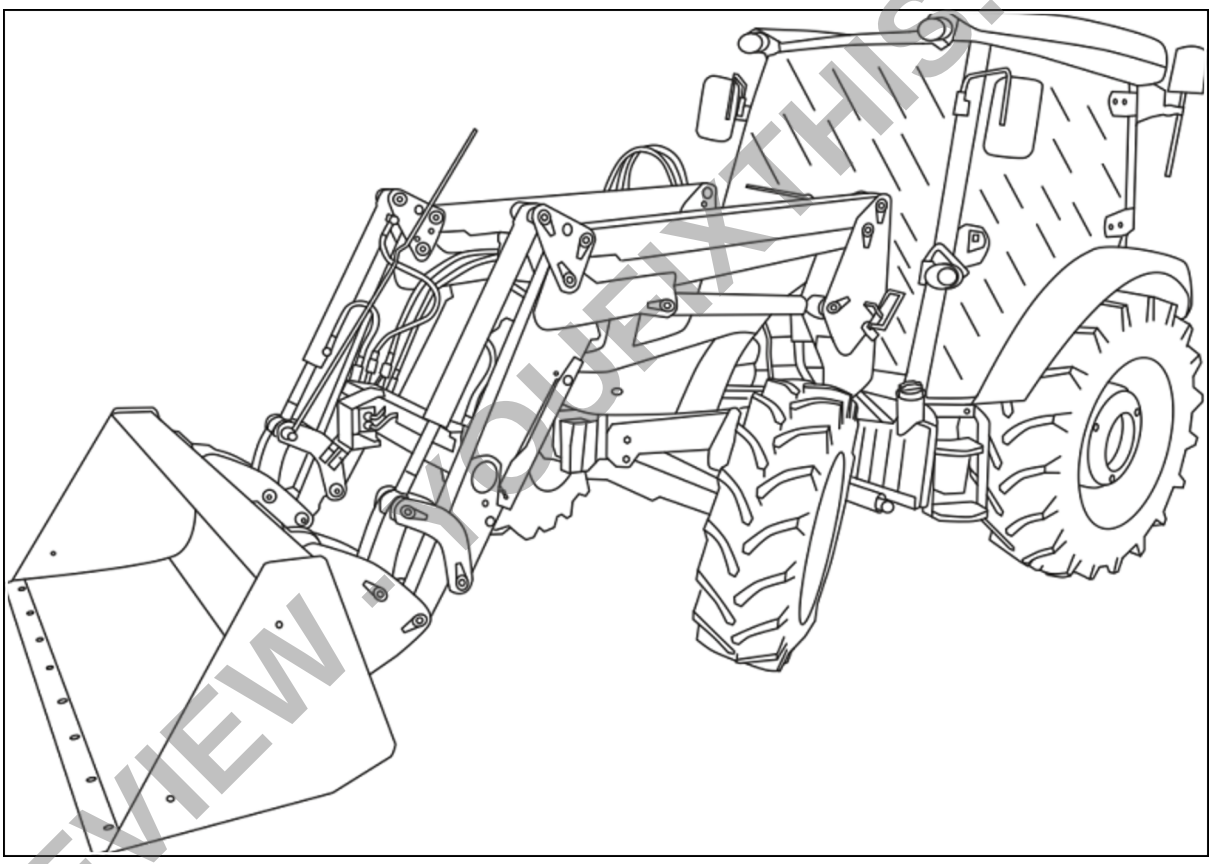
5 Working time

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Accessories - Overview FRONT LOADER (OPTIONAL)

ANIL17TRO1065AA 1



ANIL17TRO1072FA 2

GENERAL INFORMATION

This section of the Operator's Manual contains information on the use and maintenance of the front loader. Maintenance alone can guarantee efficient operation and long life.

This front loader has been designed in accordance with the power of the tractor for agricultural use. When you order replacement parts, always have product identification information and the model of your front loader on hand to give to the Authorized Service Center.

Before you get on your tractor, make sure that the front loader bucket is in the level position. Leave the bucket lowered and in the level position. Otherwise, you may cause damage to the bucket or the pistons that control the bucket.

Find these numbers on the information plate and record them.

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5 - TRANSPORT OPERATIONS

Road transport

Brakes and controls - Tow TOWING THE TRACTOR

NOTE: *Only tow the tractor short distances. For example, from inside a building to outside. To not tow over long distances or in traffic.*

NOTE: *If you need to transport your tractor, use a trailer or carrier.*

If you tow your tractor, use a secure chain. If you tow the tractor from the rear, tow from the tow bar or tow hook. Alternatively, use the three-point hitch. If you tow the tractor from the front, use the front additional weight bracket. A driver should be in the tractor to steer and brake while you tow the tractor.

You cannot adequately lubricate the transmission and other rotating parts during towing. To avoid damaging these parts, consider the following:

- Only tow the tractor short distances.
- Tow at speeds below **8 km/h**
- If possible, start the engine and steer the tractor.

ATTENTION: *Do not use a cable or rope to tow the tractor. These cables and ropes will usually cause damage. When you use a chain, double the chain up and use the last link to attach the chain to the tractor hitch hook. This will prevent the chain from falling.*

ATTENTION: *Do not tow at speeds above **8 km/h**. If the engine is not running, steering will be slow and unresponsive.*

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Accessories - Torque MINIMUM EQUIPMENT TIGHTENING TORQUES (GENERAL)

Bolt Measurement	Class	
	8,8	10,9
	Nm (lb.ft.)	Nm (lb.ft.)
M8	23 (17)	33 (24)
M8X1	25 (18)	35 (26)
M10	46 (34)	65 (48)
M10X1.25	49 (36)	69 (51)
M12	80 (59)	110 (81)
M12X1.5	84 (62)	118 (87)
M12X1.25	88 (65)	123 (91)
M14	130 (96)	180 (133)
M14X1.5	138 (102)	190 (140)
M16	190 (140)	270 (199)
M16X1.5	210 (155)	290 (214)
M18	270 (199)	380 (280)
M18X2	280 (206)	400 (295)
M18X1.5	300 (221)	420 (310)

Bolt Measurement	Class	
	8,8	10,9
	Nm (lb.ft.)	Nm (lb.ft.)
M20	380 (280)	530 (391)
M20X2	400 (295)	560 (413)
M20X1.5	420 (310)	590 (435)
M22	510 (376)	720 (531)
M22X2	540 (398)	750 (553)
M22X1.5	560 (413)	790 (582)
M24	630 (464)	890 (656)
M24X2	680 (501)	950 (700)
M27	930 (686)	1310 (966)
M27X2	995 (733)	1400 (1032)
M30	1260 (929)	1770 (1305)
M30X2	1370 (1010)	1930 (1423)
5/8-inch UNC	175 (129)	245 (180)
5/8-inch UNF	200 (147)	280 (206)
3/4-inch UNC	380 (280)	530 (391)
3/4-inch UNF	420 (310)	590 (435)

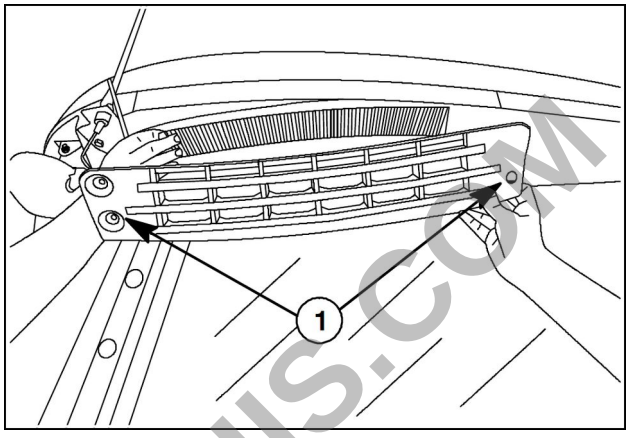
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EVERY 100 HOURS

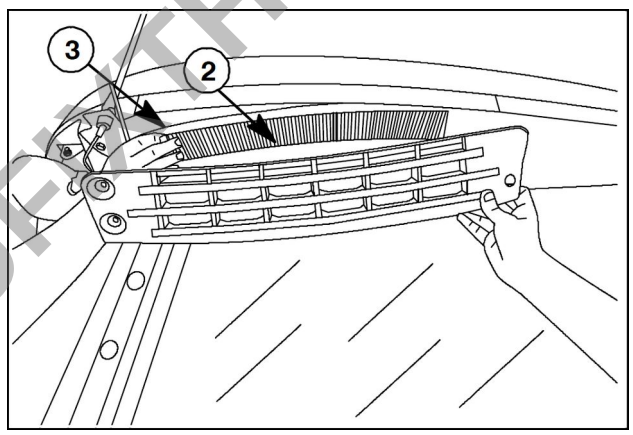
Air filter - Cleaning CAB AIR FILTER

Remove the cab air filter cover (1). Remove the filter element (2). To clean the filter element:
Lightly hit the filter element with the outer part facing the floor
Alternatively, soak the element in a non-foaming detergent for 15 minutes.



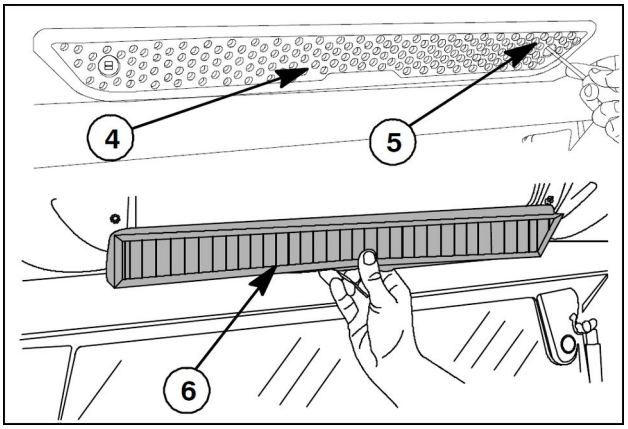
ANIL16TRO2854AA 1

Dry with pressurized air below 2.7 bar.
Do not replace the filter element before it is dry. Otherwise the air conditioner will damage the filter element.
Clean the filter housing (3) with a cloth Look at the arrows on the label. Replace the cartridge.



ANIL16TRO2855AA 2

Remove the two screws (5) from the cover (4) that holds the in-cab air filter in place. Clean the in-cabin air filter (6) as described above.



ANIL16TRO2856AA 3

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Maintenance action	Adjust	Check	Cleaning	Tire inflating	Tighten	Bleed	Replace	Change fluid	Grease	Level make up	Page no.
Oil filters - Replace HYDRAULIC LIFTER OIL FILTER							x				**7-26**
Transmission - Level make up REAR TRANSMISSION AND HYDRAULIC LIFTER OIL LEVEL										x	**7-27**
Front axle system - Grease DUAL-DRIVE FRONT AXLE CASING									x		**7-27**
Hand brake lever - Adjust	x										**7-27**
Front wheels - Level make up										x	**7-28**
Front wheels - Grease									x		**7-28**
Front axle system - Grease FRONT AXLE LINKAGE									x		**7-28**
EVERY 600 HOURS											
Valves - Adjust	x										**7-29**
EVERY 1200 HOURS OR ANNUALLY											
Air filter - Cleaning CAB AIR FILTER			x								**7-29**
Air filter - Cleaning			x								**7-31**
Fuel tank - Cleaning			x								**7-31**
Fuel injectors - Check		x									**7-32**
EVERY 1200 HOURS OR EVERY 2 YEARS											
Engine cooling system - Cleaning			x								**7-33**
GENERAL MAINTENANCE											
Fuel injection system - Bleed							x				**7-37**
Brakes and controls - Bleed							x				**7-38**
Headlight - Adjust	x										**7-39**

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Problem	Possible Cause	Correction
	Implement incorrectly set	See equipment manual
	Improper valve clearance	Check and adjust
	Idling speed too low	Contact your dealer
Abnormal engine knocking	Oil level low	Top up fluid level
	Oil pressure low	Contact your dealer
Low engine operating temperature	Thermostat malfunction	Replace thermostat
	Fan viscous coupling malfunction	Contact your Dealer
Oil pressure low	Oil level low	Add oil as required
	Oil grade or viscosity wrong	Drain and refill with oil of correct grade and viscosity
Excessive oil consumption	Oil level too high	Reduce oil level
	Oil viscosity wrong	Use oil of correct viscosity
	Oil leaking	Repair leaks
	Breather pipe filter clogged	Replace breather pipe filter
Engine overheating	Radiator core clogged	Clean radiator
	Engine overload	Change to lower gear or reduce load
	Engine oil level low	Top up fluid level
	Coolant level low	Top up fluid level in expansion tank. Check system for leaks
	Radiator cap defective	Replace cap
	Fan belt slipping or worn	Check tensioning device. If necessary, replace the belt
	Cooling system clogged	Flush cooling system
	Thermostat malfunction	Check thermostat
	Hoses leaking	Tighten hose connectors
	Temperature indicator or gauge malfunction	Contact your dealer
Excessive fuel consumption	Incorrect fuel type	Use right fuel type
	Air filter dirty or clogged	Carry out maintenance on air filter
	Engine overload	Change to lower gear or reduce load
	Improper valve clearance	Check and adjust
	Equipment wrongly adjusted	Refer to equipment manual for correct operation
	Engine temperature too low	Check thermostat
	Excessive ballast	Adjust ballast to correct weight
	Fuel injection nozzles clogged	Have your dealer service the injectors

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Accessories - Weight

OPTIONAL ADDITIONAL WEIGHTS

Weight (With Cab) (380 / 70 R20 and 380 / 70 R28)	T4.55S and T4.65S (4WD)	T4.75S (4WD)
On front axle	**1280 kg**	**1340 kg**
On rear axle	**1560 kg**	**1840 kg**
Total weight	**2840 kg**	**3300 kg**
Max. permissible weight front	**2500 kg**	**2500 kg**
Max. permissible weight rear	**3300 kg**	**3300 kg**
Total permissible weight	**4800 kg**	**4800 kg**

Front Ballast

2 X 30 : **60 kg** for all models

4 X 30 : **120 kg** for all models (optional)

Front Carrier

12 kg for all models.

Rear Ballast

For each 2 X 50: **100 kg** for all models

For each 4 X 50: **200 kg** for all models (optional)

Engine - General specification

MODEL	T4.55 S	T4.65 S	T4.75 S
ENGINE TYPE	S8000		
ENGINE MODEL	8035.25B.313T	8035.25C.313T	8035.25A.313T
INJECTION PUMP	ROTARY TYPE, BOSCH		
ASPIRATION	Turbocharged		
EMISSIONS VALUE	Tier III A		
NUMBER OF CYLINDERS	3		
CAPACITY AND STROKE	**104 mm** x **115 mm**		
TOTAL VOLUME	**2930 cm³**		
COMPRESSION RATIO	18 : 1		
MAXIMUM POWER: ECE R120	**40.4 kW @ 2300 RPM**	**47.8 kW @ 2300 RPM**	**55.1 kW @ 2300 RPM**
	55 Hp @ 2300 RPM	**65 Hp @ 2300 RPM**	**75 Hp @ 2300 RPM**
MAXIMUM TORQUE	**226 N·m @ 1400 RPM**	**261 N·m @ 1400 RPM**	**292 N·m @ 1400 RPM**
TORQUE RESERVE	**32%**	**32%**	**30%**

Air cleaners and lines - General specification

AIR FILTER	ALL MODELS
Filter dimensions	**159 – 379 mm**

Type	Dry
Cap type	Powercore

Engine cooling system - General specification COOLING SYSTEM

Active water cooling powered by centrifugal pump. Aluminum radiator.

There is a coolant fan attached to the same shaft as the water pump. The fan has 10 plastic blades. Water circulation from the engine to the radiator is thermostat-controlled.

In models fitted with turbocharger units, engine coolant cools the oil through a heat exchanger in the engine oil filter.

Water circulation from the engine to the radiator is thermostat-controlled. The starting temperature of the thermostat is **85 °C**. In other models this value is . The top temperature of the thermostat is **94 °C**. The radiator cover pressure is **0,9 bar**.

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