1 - GENERAL INFORMATION

Note to the Owner

This handbook contains information on how to calibrate and maintain your new equipment. You have purchased a reliable vehicle. However, you must maintain and use the vehicle appropriately for high performance and a long operational life. Make sure all operators read this manual carefully. Always have this manual to hand.

Your CASE IH dealership will provide instructions on the general use of your new equipment. Your seller's staff consists of factory-trained technicians. These technicians will answer any questions you have about the use of your machine.

Your CASE IH dealership will have a full range of genuine CASE IH service parts. These parts provide high-quality replacements and are designed specifically for your equipment. All replacement parts go through extensive quality control. You must provide the model and product identity number of your new equipment to your seller when you order parts. Record these numbers below. See the 'General Information' section of this handbook for information on where to find your machine's model information and product identity number.

PLEASE RECORD THE INFORMATION BELOW
Model:
Product Identity Number (PIN):



This is a safety warning symbol. This symbol warns you of potential risks of injury. It may appear with or without text. Adhere to the warnings that this symbol indicates to avoid the risk of injury or death.

⚠ WARNING

Illustrations in this manual may show protective shielding open or removed to better illustrate a particular feature or adjustment.
Replace all shields before operating the machine.
Failure to comply could result in death or serious injury.

W0012A

Notice on tampering with the engine:

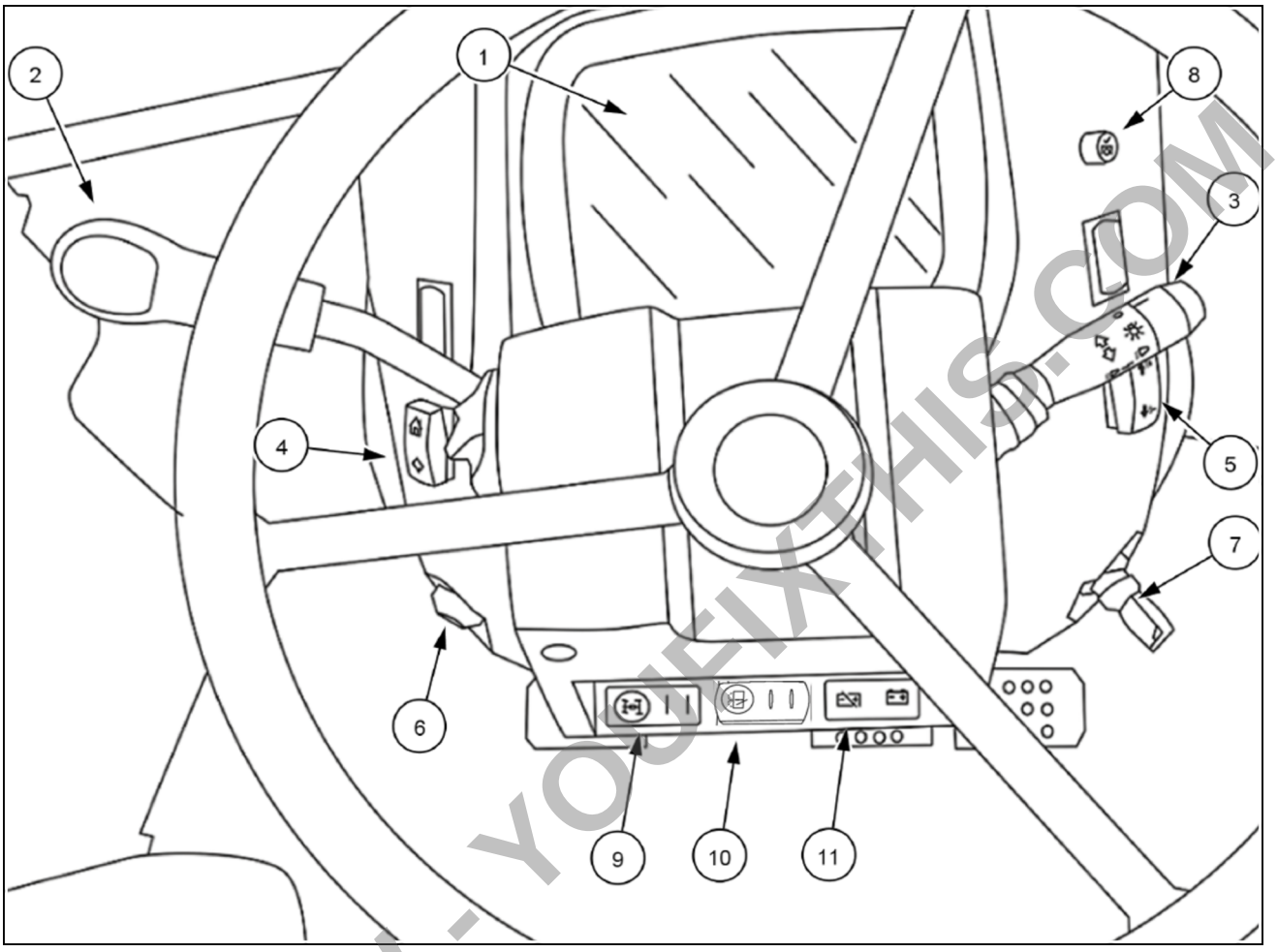
NOTICE: *Your tractor's fuel system and engine are designed in accordance with statutory emissions standards. It is strictly prohibited by law for sellers, customers, operators, or users to tamper with the engine. A failure to follow this requirement may result in statutory fines, restitution fees, invalidation of warranty, legal action, and the potential seizure of the tractor. Only authorized technicians should carry out engine servicing and/or repair!*

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Forward controls

Cab interior - Localization overview Instrument Console Controls



ANIL18TRO1062HA 1

The main control levers and switchs of series tractors which are located on the rear hood :

1. Instrument Panel
2. Power Shuttle Control Lever
3. Multi-function Control Lever
4. Home and Enter Key
5. Up and Down Key
6. Hazard Warning Light Switch
7. Ignition key
8. Power Take Off (PTO) Safety Switch
9. Wiper Button
10. Front wind washer
11. Battery Isolator

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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 tractor functions, please contact your CASE IH Dealer.

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. Read this section carefully. 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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7 - MAINTENANCE

General information

Maintenance - Consumables

EXPLANATION	QUANTITY	RECOMMENDED PRODUCT BY CASE IH
Cooling system	**9.0 L** (**2.4 US gal**)	**CASE IH AKCELA ACTIFULL™ OT EXTENDED LIFE COOLANT**
Wind washer capacity	**2.0 L** (**0.5 US gal**)	Soapy water
Fuel tank	**82.0 L** (**21.7 US gal**)	Decanted and filtered diesel fuel
Engine oil With filter Without filter	 **8.6 L** (**2.3 US gal**) **7.9 L** (**2.1 US gal**)	**CASE IH AKCELA UNITEK 10W-40** or **CASE IH AKCELA UNITEK SSL 0W-40**
Brake control circuit	**0.7 L** (**0.2 US gal**)	**CASE IH AKCELA LHM FLUID**
Front axle: Axle housing Final drive (each)	 **6.0 L** (**1.6 US gal**) **1.0 L** (**0.3 US gal**)	**CASE IH AKCELA NEXPLORE™ FLUID** or **CASE IH AKCELA HY-TRAN® ULTRACTION**
Mechanic transmission	**30.0 L** (**7.9 US gal**)	
Power Shuttle transmission	**35.0 L** (**9.2 US gal**)	
Air conditioning system coolant gas	**1.5 kg** (**3.3 lb**)	—
Front wheel hubs	—	**CASE IH AKCELA 251H EP MULTI-PURPOSE GREASE**
Grease fittings	—	

Maintenance planning

Maintenance chart

Maintenance action	Cleaning	Level make up	Check	Adjust	Tighten	Change fluid	Bleed	Grease	Replace	Tire inflating	Page no.
Flexible Maintenance											
Radiator - Cleaning	x										**7-4**
Engine cooling system - Cleaning RADIATOR, INTERCOOLER, AND AIR-CONDITIONER GAS CONDENSER	x										**7-5**
Radiator - Level make up		x									**7-6**
Mechanical Front Drive (MFD) CHECKING THE COUPLING SLEEVE OF THE FRONT AXLE DRIVE SHAFT			x								**7-7**
Front light - Check			x								**7-8**
Wiper and washer system - Level make up		x									**7-9**
Clutch - Adjust				x							**7-10**
Brake pedals - Adjust				x							**7-11**
Hand brake lever - Adjust				x							**7-12**
Front wheels - Tighten					x						**7-13**
Power shuttle transmission hydraulic components - Check			x								**7-14**
Wheels - Tire inflating										x	**7-15**
Fan and drive - Adjust				x							**7-16**

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8 - TROUBLESHOOTING

Fault code resolution

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.

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⚠ 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.

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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
	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

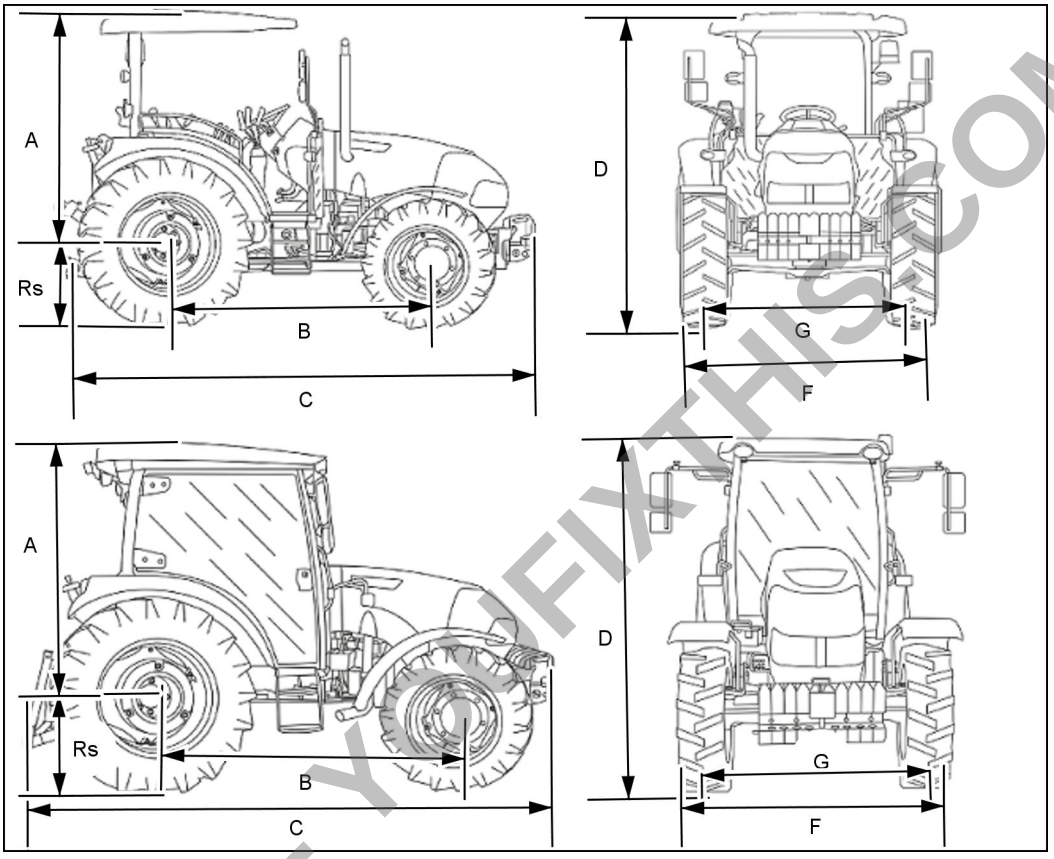
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9 - SPECIFICATIONS

General specification TECHNICAL SPECIFICATIONS

The following pages contain information on the tractor's technical specifications. For more information, contact a CASE IH Dealer.



ANIL17TRO1346FA 1

Tire pairings for FARMALL A Series 2WD models

OPTIONS	TIRE PAIRING EXAMPLES FOR 2WD MODELS	
	FRONT TIRE	REAR TIRE
OPTION 1	6.50-16	13.6R28
OPTION 2	6.50-16	380/70R28
OPTION 3	9.5L-15	16.9R28

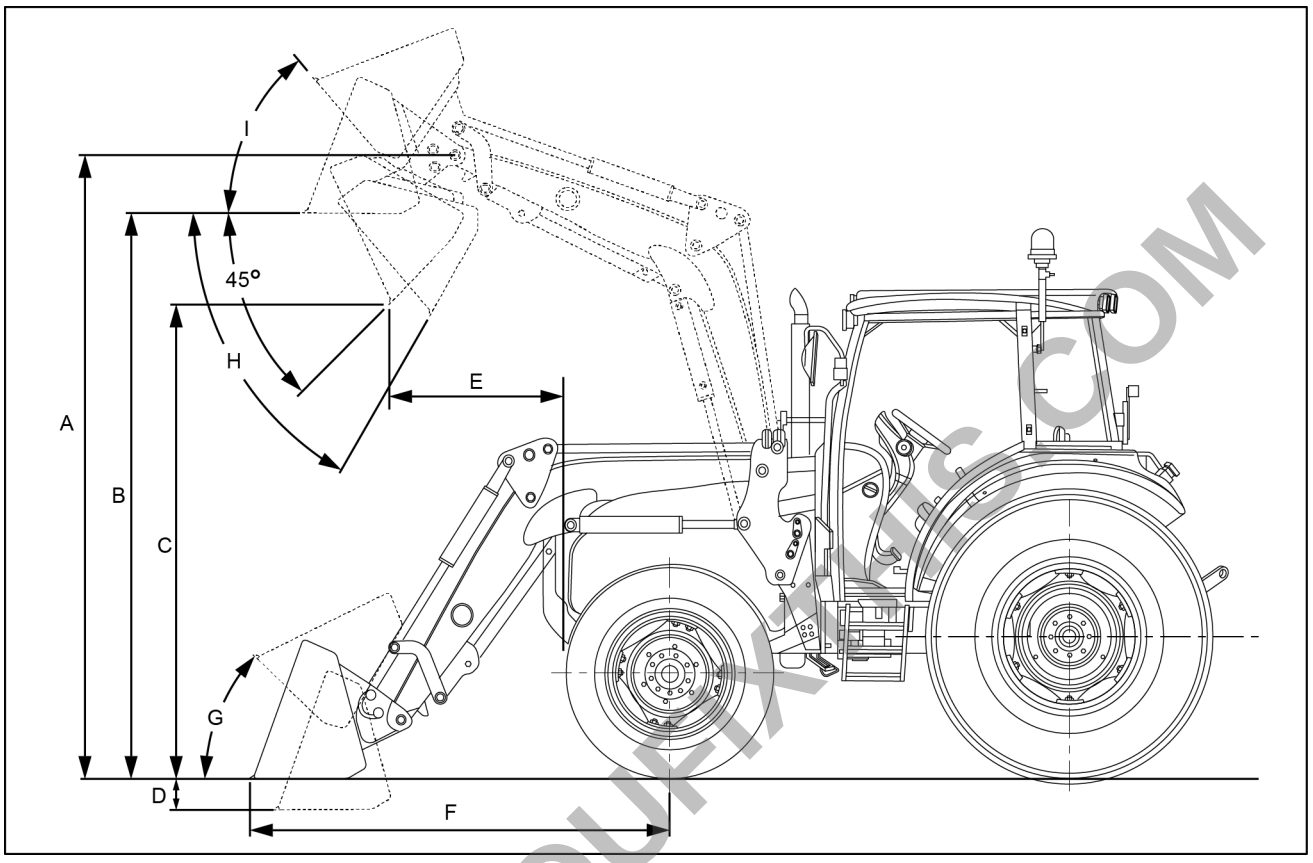
Model Measurements FARMALL A Series 2WD

DIMENSIONS	OPTION 1	OPTION 2	OPTION 3
(Rs)	**625 mm**	**625 mm**	**625 mm**
A	**1836 mm**	**1836 mm**	**1836 mm**
B	**2085 mm**	**2085 mm**	**2085 mm**
C	**3944 mm**	**3944 mm**	**3944 mm**
D	**2461 mm**	**2461 mm**	**2461 mm**
E	**1845 mm**	**1845 mm**	**1845 mm**
G (front)	**1362 – 1762 mm**	**1362 – 1762 mm**	
F (rear)	**1442 – 1955 mm**	**1442 – 1955 mm**	

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Front loader and bucket - General specification



MOIL13TR02923FA 1

NOTE: *All specifications refer to a front loader equipped with* ***72“*** *heavy duty bucket.*

Dimensions

	Model	
	L610 *	**L610 ***
	No self leveling	**Mechanical self leveling**
Tires & Angles Measured		
Front tires	11.2 R 24 (R1W)	12.4 R 20
Loader radius	**514 mm**	**475 mm**
Weights & Hydraulic Capability		
Loader Weight (Without buckets) (measured with 3rd func and accumulator)	**480 kg**	**480 kg**
72“ bucket weight	**191 kg**	**191 kg**
Hydraulic capability (Excluding Steering)	19 cc/rev	19 cc/rev
Main Dimensions		
A — Max lift height at pivot pins	**3350 mm**	**3310 mm**
B— Maximum Lift Height with Level bucket (mm)	**3080 mm**	**3040 mm**
C— Dumping distance at **45°**	**2510 mm**	**2470 mm**
C — Dumping distance at dump angle	**2490 mm**	**2380 mm**
D— Digging depth	**115 mm**	**155 mm**

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10 - ACCESSORIES

Accessories - Overview Front Loader-Personal Safety

The following information can reduce the risk of the machine overturning during normal operation. To ballast the tractor, follow the procedure described below:

1. Place a mass (weight) corresponding to the loading capacity of the loader in a point **800 mm** (**31.5 in**) in front of the bucket pivot.
2. Raise loader until bucket pivot is level with loader arm pivot (bucket in farthest forward position).
3. Apply rear wheel ballast (with a ballast, ballast box and/or liquid ballast) until a minimum of **30%** of the total weight is on the rear axle. Tractor must be on level ground while measuring axle load. Total weight includes ballasted tractor, loader bucket and payload.

When using the loader for dedicated applications, the operator may determine the correct ballast, based on the maximum load to be transported.
Tractors/loaders with high center gravity or unusual configuration may require wider minimum tread setting to achieve the same level of stability.

NOTICE: *Do not exceed the permissible load capacity for the size of tire fitted to your tractor. For further information, refer to this manual.*

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6 WORKING OPERATIONS

General information

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Power Take-Off (PTO) - Operating SERVO-ASSISTED PTO USE (OPTIONAL) 6-20
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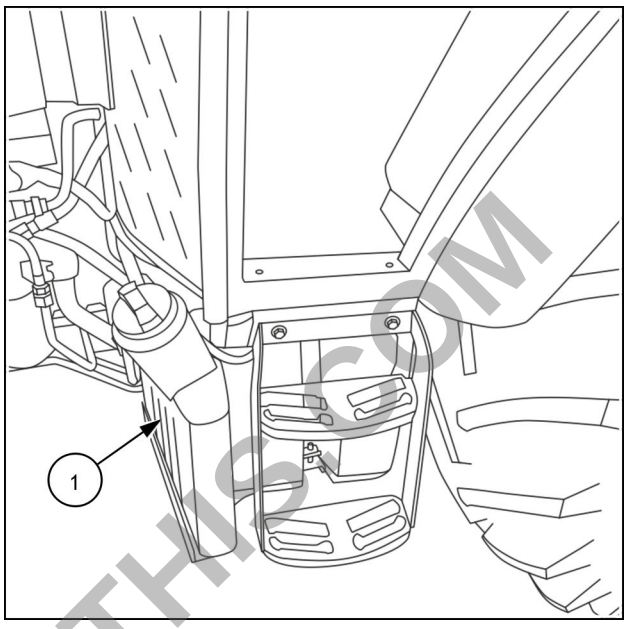
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Fuel tanks - Control identification

FUEL TANK

The fuel tank **(1)** is on the left-hand side and has a lock.



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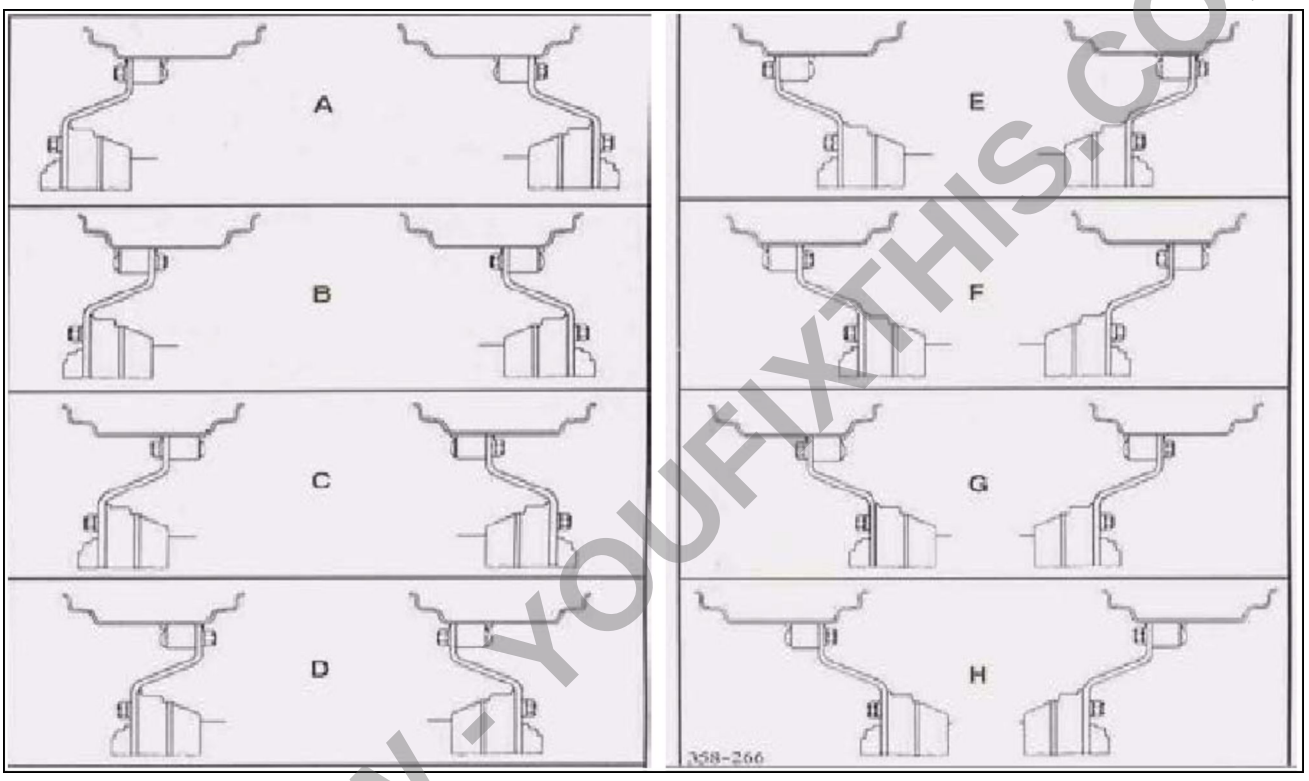
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Wheels - Crop setting WIDTH SETTINGS FOR REAR TIRE TRACK

To obtain different track widths:

- Attach the internal or external surfaces of the wheel rim to the drive shaft
- Attach to the internal or external sides of the rim tabs of the wheel rim
- Reverse the wheel rims and attach them.

ATTENTION: *When setting track width, make sure that the grip surface patterns of the tire or the arrow mark on the side of the tire point in a forward rotational direction. Also make sure that the left-hand and right-hand width measurements of the wheels are symmetrical to the centerline of the tractor.*



ANIL16TRO2877HA 1

Model	Radius Index	Tire Measurements	Wheel Track Width							
			A	B	C	D	E	F	G	H
All Models	625	380/70R28	–	–	1442 mm	1555 mm	1586 mm	1698 mm	1844 mm	1955 mm
	650	14.9R28 (380/85R28)	–	–	1442 mm	1555 mm	1586 mm	1698 mm	1844 mm	1955 mm
	675	14.9R30 (380/85R30)	–	–	1408 mm	1522 mm	1622 mm	1735 mm	1808 mm	1920 mm
	625	13 6 28	–	–	1442 mm	1555 mm	1586 mm	1698 mm	1844 mm	1955 mm
	650	14.9-28	–	–	1442 mm	1555 mm	1586 mm	1698 mm	1844 mm	1955 mm
	675	16 9R28	–	–	–	1527 mm	1614 mm	1726 mm	1816 mm	1927 mm
	675	14.9-30	–	–	1408 mm	1522 mm	1622 mm	1735 mm	1808 mm	1920 mm

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Fuse and relay locations

Battery - General specification

Battery

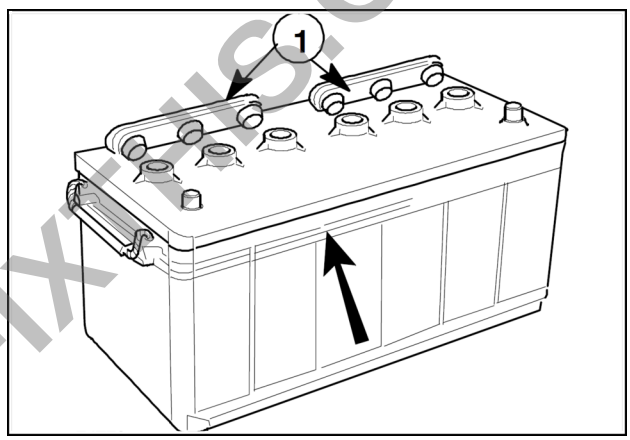
Your tractor has a long-life battery.

Always keep the top surface of the battery clean and dry. Check electrolyte levels regularly. Only refill the battery with distilled water (1).

ATTENTION: *Do not refill the battery with SULPHURIC ACID.*

Check the battery's charge with a digital voltmeter. Compare the reading with the table below to see your battery's charge level:

Voltage (V)	Charge level (%)
12.66	100
12.45	75
12.30	50
12.00	25



ANIL17TRO0015AA 1

If your voltage level is around 12.30 V, charge your battery as soon as possible. When you charge the battery, charge at a current value of 1/10 of the battery's capacity.

If you need to change your battery, follow these steps:

1. First disconnect the negative (-) battery terminal. Then disconnect the positive (+) battery terminal.
2. Before you connect the new battery, make sure that the battery terminals are clean. Do not over-tighten the bolts that hold the battery in place.
3. First, connect the new battery's positive (+) battery terminal. Then connect the new battery's negative (-) battery terminal.

NOTE: *If your battery's electrolyte level is often inadequate, or tends to empty quickly, ask your CASE IH Dealer to check your tractor's electrical system.*

ATTENTION: *Make sure that you disconnect the cables before you charge the battery.*

Recommendations on starting the engine with an empty battery or no battery:

To prevent damage to the alternator or regulator, follow these steps:

When the tractor's battery is drained, you can start the tractor with jumper cables. When you connect the cables, make sure that the jumper cable terminals match the battery terminals (positive (+) to positive (+), negative (-) to negative (-)). Connect the positive terminal first. Then connect the negative terminal.

Start the engine. Leave the engine running at idle speed. Then switch on all electrical devices (lights, etc.). This will help prevent possible overload changes damaging the alternator. Then remove the jumper cables. Remove the negative (-) cable first. Then remove the positive cable (+).

If you need to operate your tractor with a completely flat battery, or with no battery, follow these steps:

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