ORIGINAL INSTRUCTIONS

OPERATOR'S MANUAL

Workmaster™ 55
Workmaster™ 65
Workmaster™ 75

Tractor

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NEW HOLLAND AGRICULTURE

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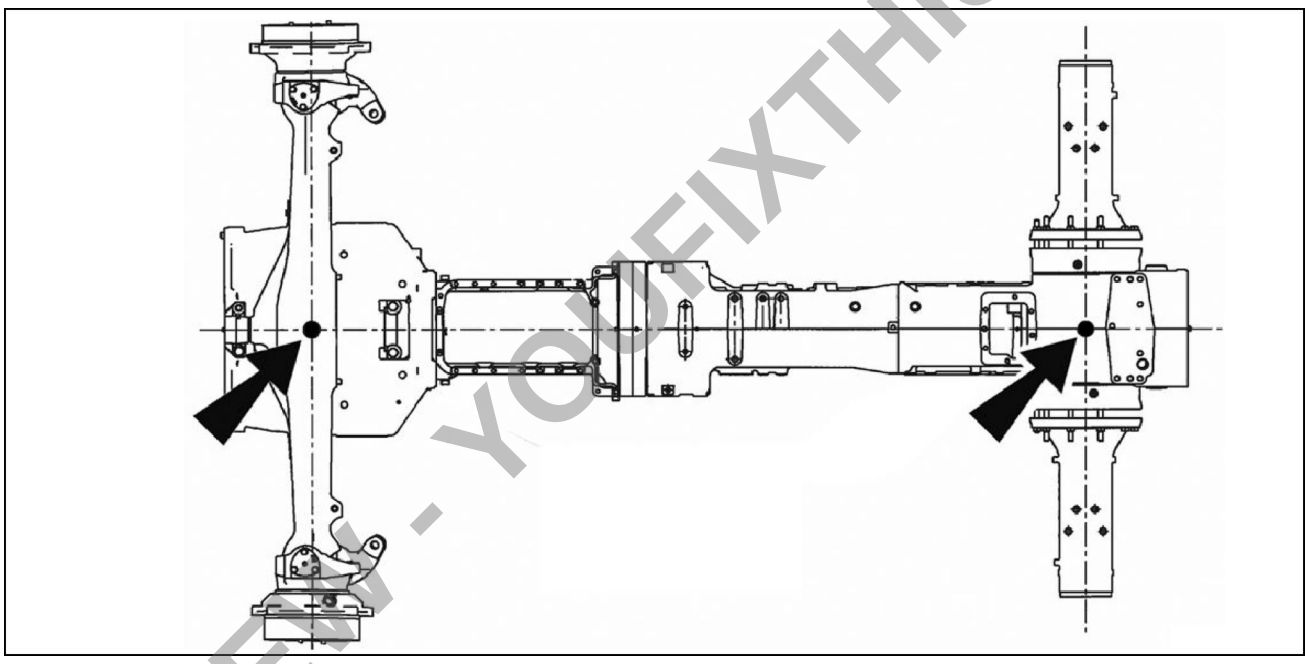
2 - SAFETY INFORMATION

Safety rules TRACTOR JACK POINTS

ATTENTION: *Equipment malfunction may cause an accident or injury! Only carry loads that your lifting equipment has the capacity to carry. Always check the lifting equipment for damaged or missing parts. Make sure that no one is under the load when lifting.*
Failure to follow these warnings may result in death or serious injury.

ATTENTION: *The jack may slip or fall. The machine or parts may fall or slip.*
DO NOT work under a vehicle that is supported only by a jack. Park the machine on flat ground. Secure wheels with wheel blocks. Support the machine with safety supports.
Failure to follow these warnings may result in death or serious injury.

ATTENTION: *The machine may move unexpectedly. If you support any wheel of an MFD machine with a support bracket, NEVER start the engine or try to turn the wheel. Turning the wheel can cause the machine to fall off the carrier. Instead, support all wheels so that all wheels are separate from the ground.*
Failure to follow these warnings may result in death or serious injury.



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Only use the points shown to raise the tractor.

ONLY lift the front or rear. NEVER raise both the front and rear.

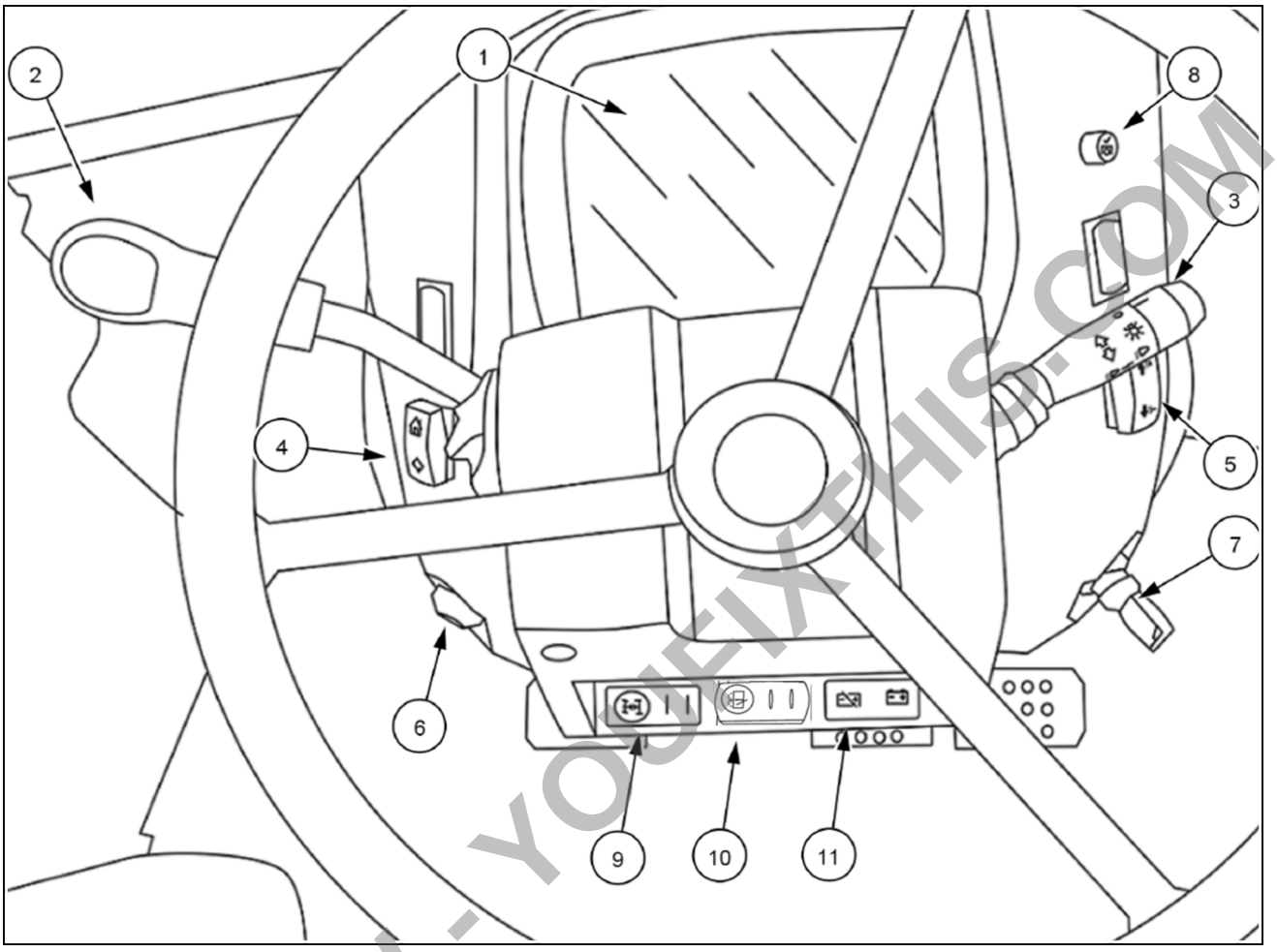
ALWAYS put a chock in front of the wheels on the axle that is not raised.

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Forward controls

Cab interior - Localization overview Instrument Console Controls



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The main control levers and switchs of Workmaster 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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7 - MAINTENANCE

General information

Maintenance - Consumables

EXPLANATION	QUANTITY	RECOMMENDED PRODUCT BY NEW HOLLAND
Cooling system	**9.0 L** (**2.4 US gal**)	**NEW HOLLAND AMBRA 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**)	**NEW HOLLAND AMBRA UNITEK 10W-40** or **NEW HOLLAND AMBRA UNITEK SSL 0W-40**
Brake control circuit	**0.7 L** (**0.2 US gal**)	**NEW HOLLAND AMBRA BRAKE LHM**
Front axle: Axle housing Final drive (each)	**6.0 L** (**1.6 US gal**) **1.0 L** (**0.3 US gal**)	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL** or **NEW HOLLAND AMBRA MASTERTRAN® 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	—	**NEW HOLLAND AMBRA GR-9 MULTIPURPOSE GREASE**
Grease fittings	—	

Maintenance planning

Maintenance chart

Maintenance action	Cleaning	Level make up	Check	Adjust	Tighten	Bleed	Change fluid	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**
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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.

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
	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

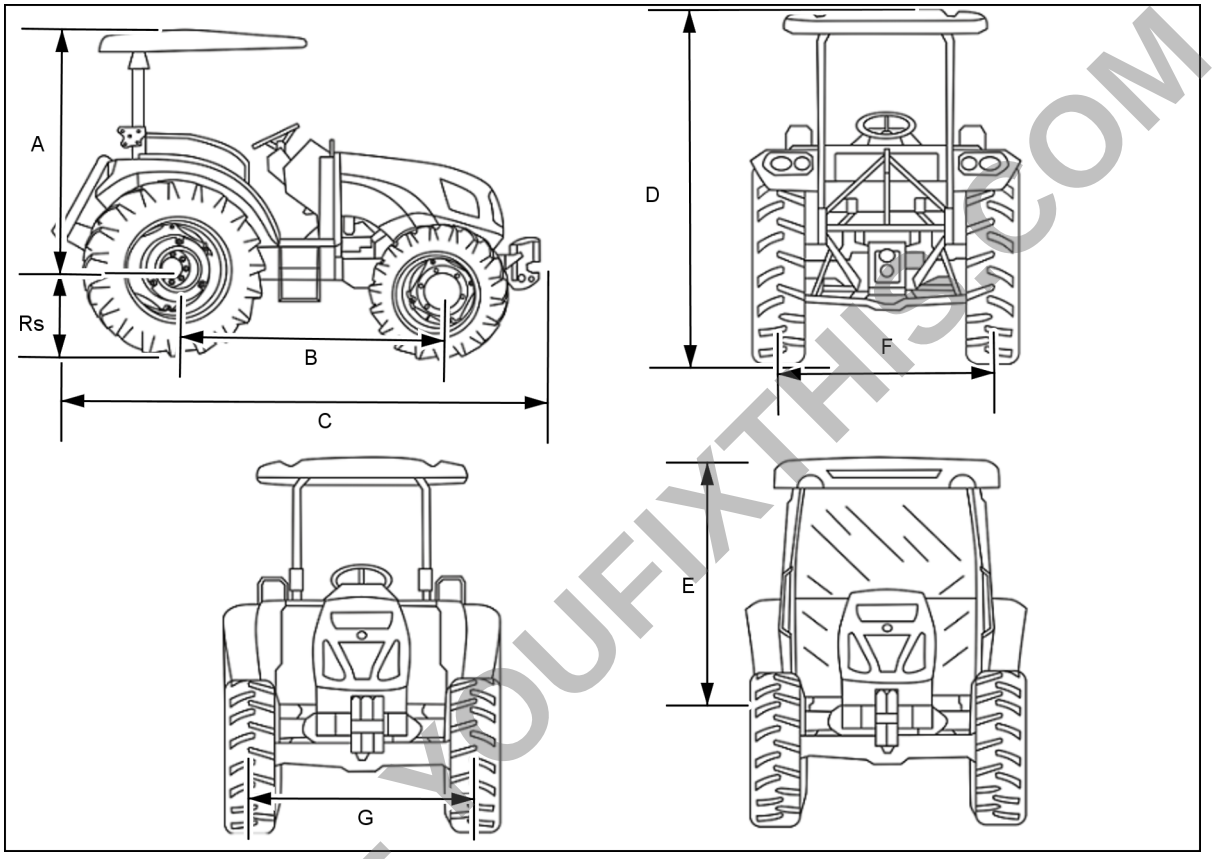
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9 - SPECIFICATIONS

General specification TECHNICAL SPECIFICATIONS

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



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Tire pairings for Workmaster Series 2WDmodels

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

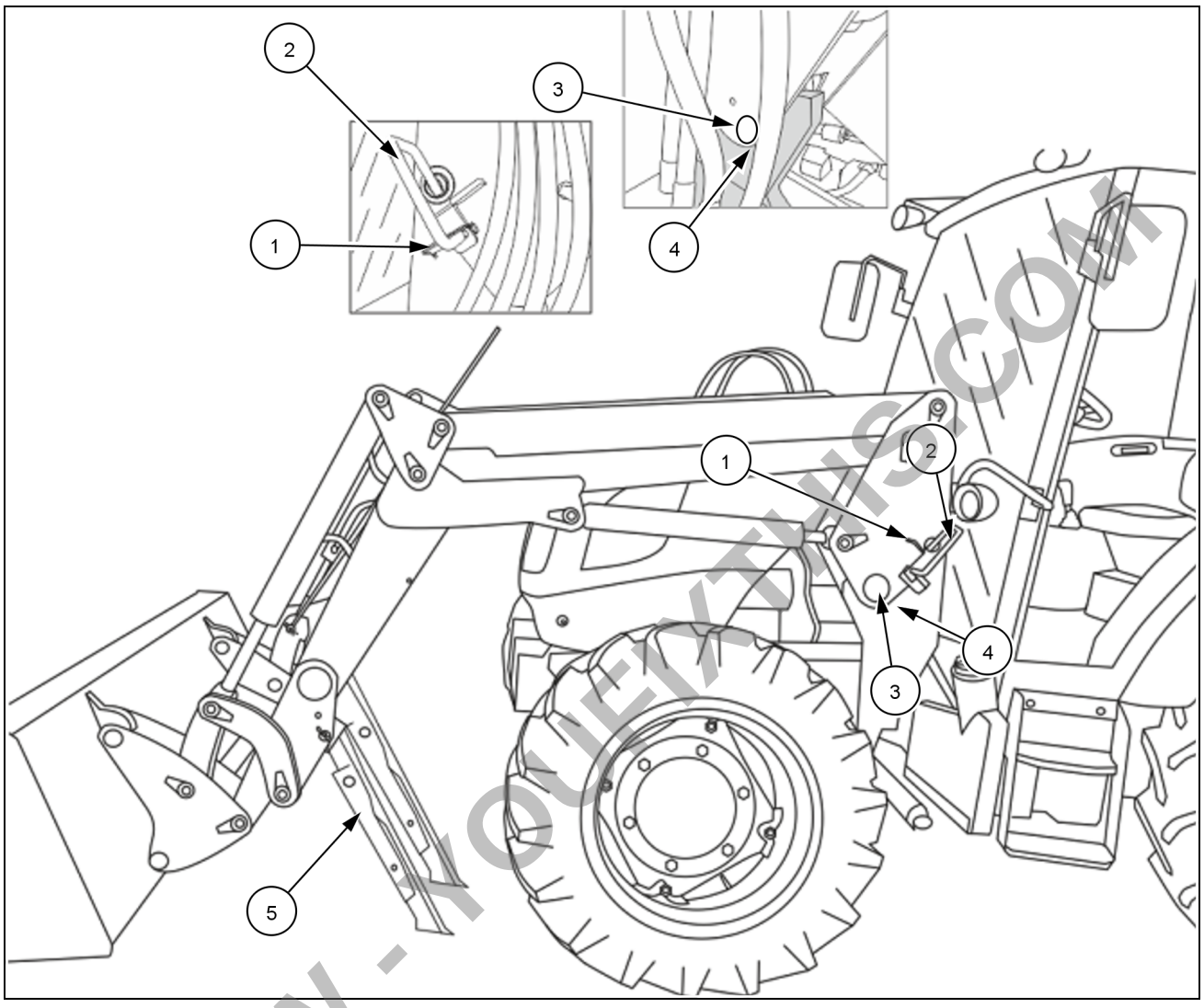
Model Measurements for Workmaster Series 2WD

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	**3915 mm 3944 mm**	**3915 mm 3944 mm**	**3915 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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Accessories - Install BUCKET CONNECTION



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BUCKET CONNECTION

See below for the procedure to attach the front loader to the tractor.

1. Position the bucket chassis hoses appropriately to avoid damage during installation.
2. To connect the hydraulic hoses to the quick connection bushings, move the tractor to the front loader chassis slowly and carefully.
3. Apply the handbrake. Stop the engine.
4. Discharge pressure from the hydraulic system.
5. Clean the matching parts.
6. Connect the front loader hydraulic hoses to the specific quick connection bushings. Make sure that you connect male bushings to female bushings of the same color.
7. Remove the front loader safety pin **(1)** and remove the rod **(2)** from the hole. Move the tractor forward slowly to position the fixed rod **(3)** of the front loader above the anchorage channel **(4)** on the tractor bracket.
8. Lower the front loader to insert the fixed rod **(3)** into the channel **(4)**.
9. Move the control level forward (lower) slowly. This causes the fixing pin **(2)** hole of the front loader bucket to move backwards.
10. Lower the front loader hole until it is flush with the hole on the tractor bracket. Replace the fixing pin **(2)** that you removed previously. Remember to insert the safety fork pin **(1)** into the hole on the handle of the fixing pin.
11. After you attach the front loader on both sides, retract the loader's mechanical support feet (please supply the parts) **(5)**.
12. Lift the front loader’s arm. Fully lower the bucket to remove air from the hydraulic circuit.

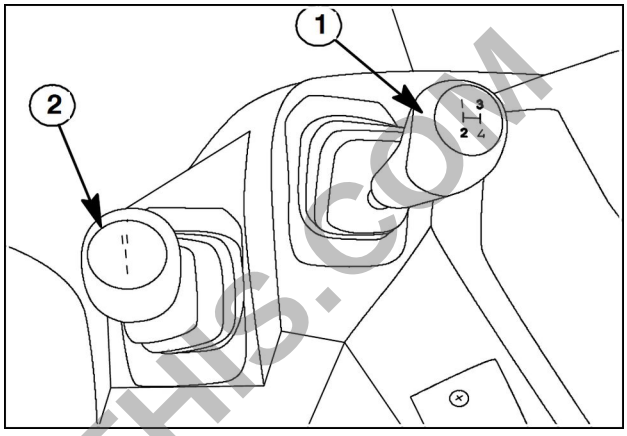
ATTENTION: *If the bucket is not attached, do not try to attach the front loader to the tractor. This can damage the equipment or cause injury.*

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Transmission - General specification TRANSMISSION SYSTEM (8 FORWARD + 8 REVERSE 30 km/h)

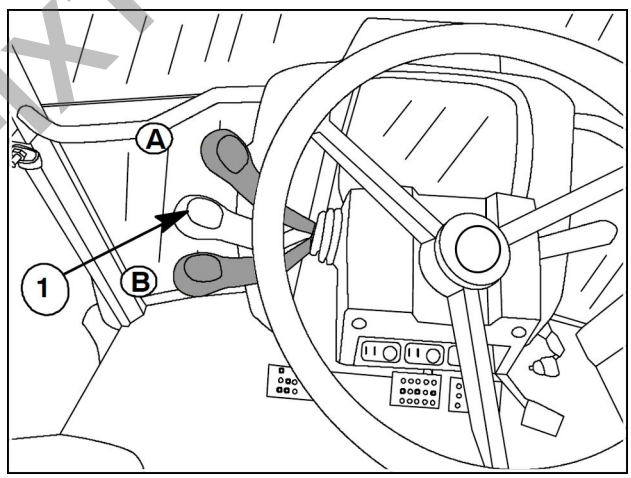
ATTENTION: *Move the gear lever to neutral before you start the engine. If any equipment is attached to the tractor, remove the equipment before you stop the engine.*

To control this gearbox, select the appropriate gear ratio with the gear lever (1) shown in the figure. There is no need to stop the tractor when you use the gear lever to select a gear speed. Push the clutch pedal to make a gear speed selection (1, 2, 3, 4).
The stage control lever (2) shown in the figure selects two different forward speed (heavy-serial) stages. When you use the stage control lever, stop the tractor, press the clutch pedal, and select the desired stage.
I = Heavy
II = Serial



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You can select the appropriate gear speed (1/2/3/4 in the figure) while you move forward in all Workmaster models. Stop the tractor before you select a speed stage (I or II). Then use the control lever to make the desired selection. To go into reverse, slow down the tractor and bring the tractor to a stop. Press the clutch pedal and move the stem lever (1) in the figure to position B.
For heavy forward speeds, move the stage control lever backward (I). For fast forward speeds, move the stage control lever forward (II).



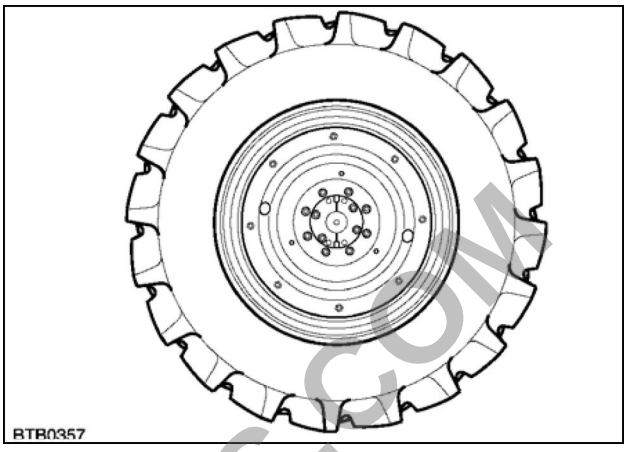
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Front wheels - Tighten

Use a torque wrench to check the tightness of the front and rear wheel bolts.
See below for the defined torque values.
Torque values:
2WD front wheels:
Front wheel nut **115 N·m** Nm (**11,7 kg/m**)
4WD front wheels:
Wheel hub bolts **245 N·m** Nm **25 kg/m**
Wheel rim bolts **280 N·m** Nm **28,5 kg/m**
Rear wheels:
Wheel hub bolts **280 N·m** Nm **28,5 kg/m**
Wheel rim bolts **314 N·m** Nm **32 kg/m**



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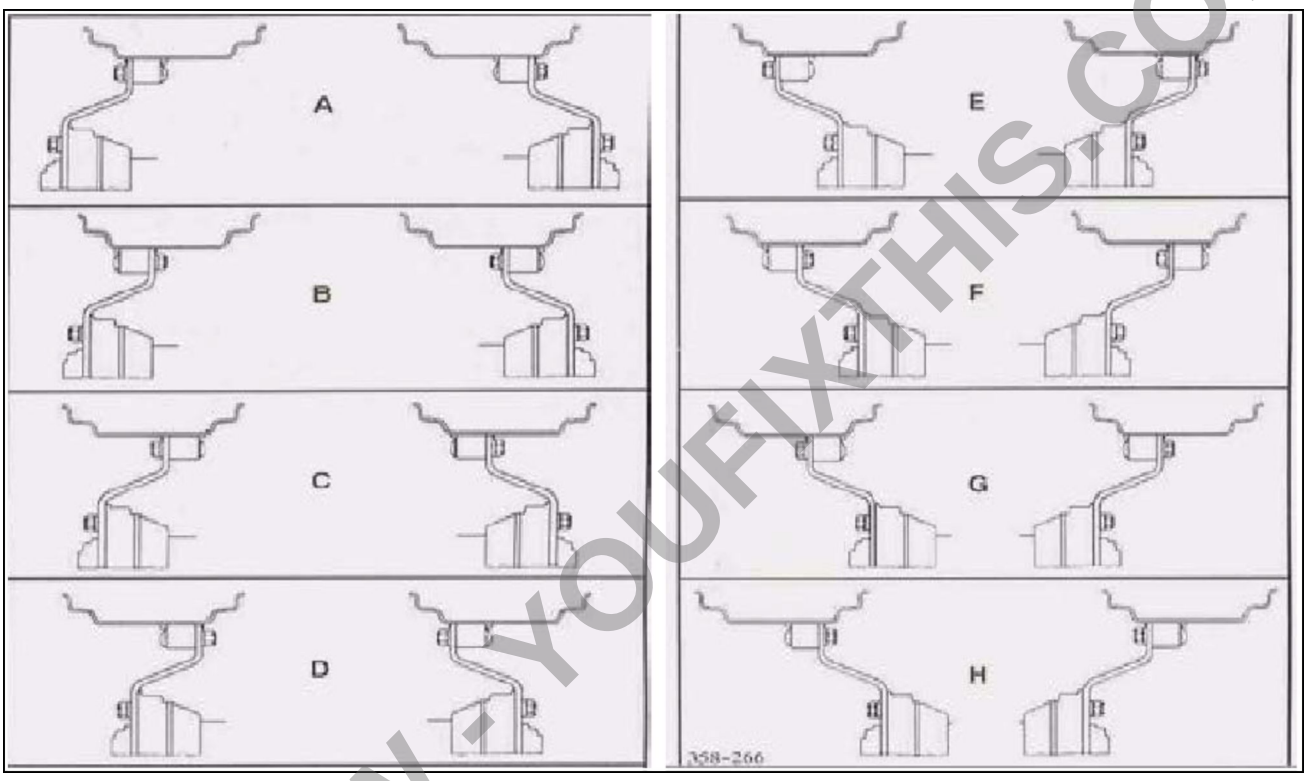
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Wheels - Crop setting WIDTH SETTINGS FOR REAR TIRE TRACK

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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