ORIGINAL INSTRUCTIONS

FARMALL® 110A
FARMALL® 120A
FARMALL® 125A
FARMALL® 140A
Tier 3
Tractor

OPERATOR'S MANUAL

Part number 48042568
2nd edition English
August 2016
Replaces part number 48020165

CASE IH AGRICULTURE

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Contents

1 GENERAL INFORMATION

Note to the owner 1-1
Note to the owner 1-2
Intended use 1-3
Electro-Magnetic Compatibility (EMC) 1-4
Product identification 1-5
Operator's manual storage on the machine 1-7
Machine orientation 1-8
Machine components 1-9

2 SAFETY INFORMATION

Safety rules and signal word definitions 2-1
Safety rules 2-2
Ecology and the environment 2-12
Safety features 2-13
Safety signs 2-16
Instructional signs 2-29

3 CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Proper entry and exit 3-1

OPERATOR'S SEAT

Operator seat adjustments 3-3
Seat belt operation 3-7

FORWARD CONTROLS

Instrument panel 3-8
Front console 3-9
Foot pedals 3-11

LEFT-HAND SIDE CONTROLS

Power Take-Off (PTO) 3-13
Parking brake 3-15
Door and window operation 3-16
Storage 3-16

RIGHT-HAND SIDE CONTROLS

Transmission controls 3-17
Identify hydraulic remote control valves 3-19
Hydraulic controls - Tractors equipped with Sohipren remote control valves 3-21
Remote control valve control lever - Control identification - Tractors equipped with Sohipren remote control valves 3-23

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2 - SAFETY INFORMATION

Safety rules and signal word definitions

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual and on machine safety signs, you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

⚠ DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury. The color associated with DANGER is RED.

⚠ WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury. The color associated with WARNING is ORANGE.

⚠ CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury. The color associated with CAUTION is YELLOW.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine damage or property damage. The color associated with Notice is BLUE.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine damage or property damage. The word Notice is used to address practices not related to personal safety.

Information

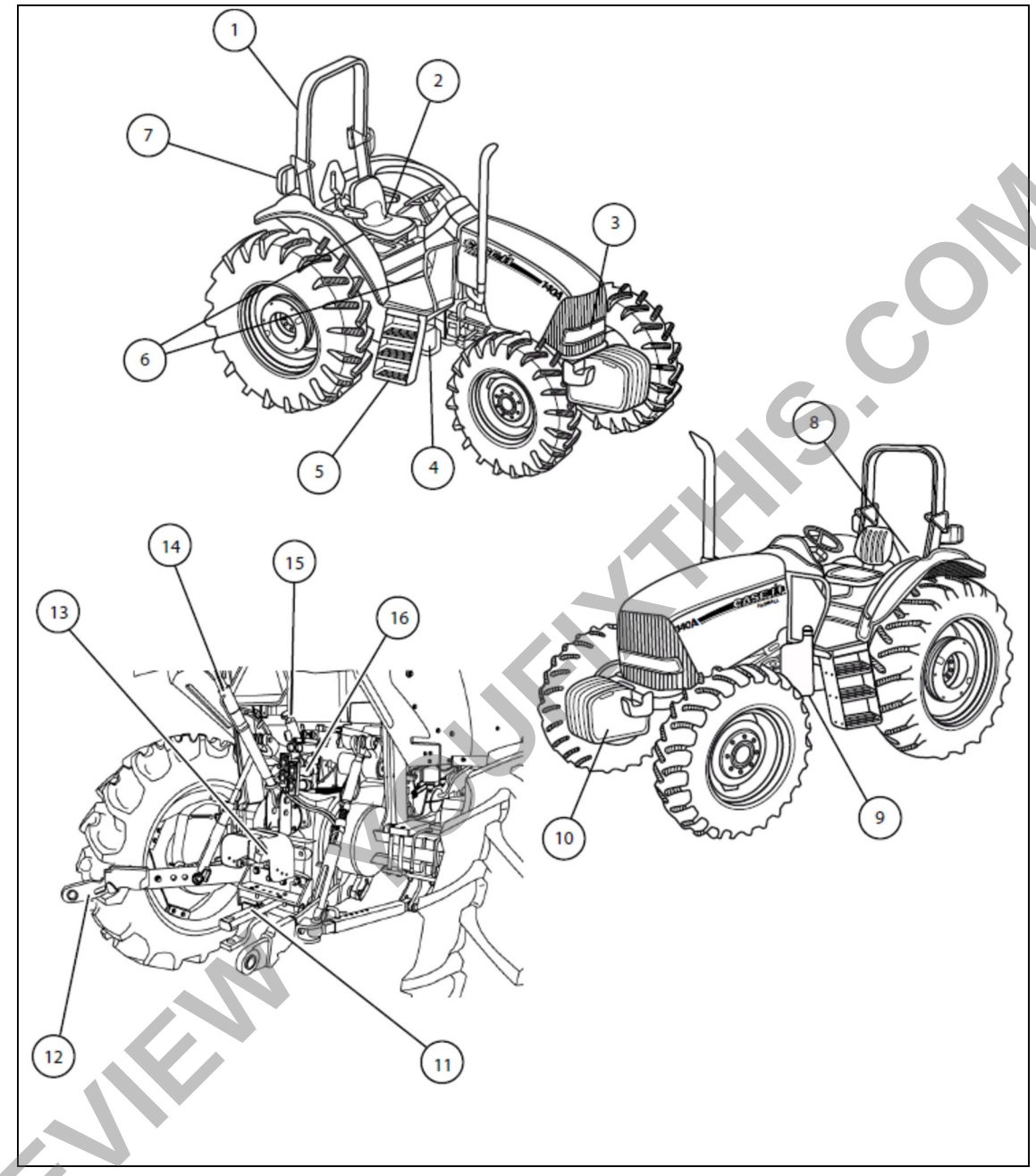
NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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Machine components



NHIL12TR00029AA 1

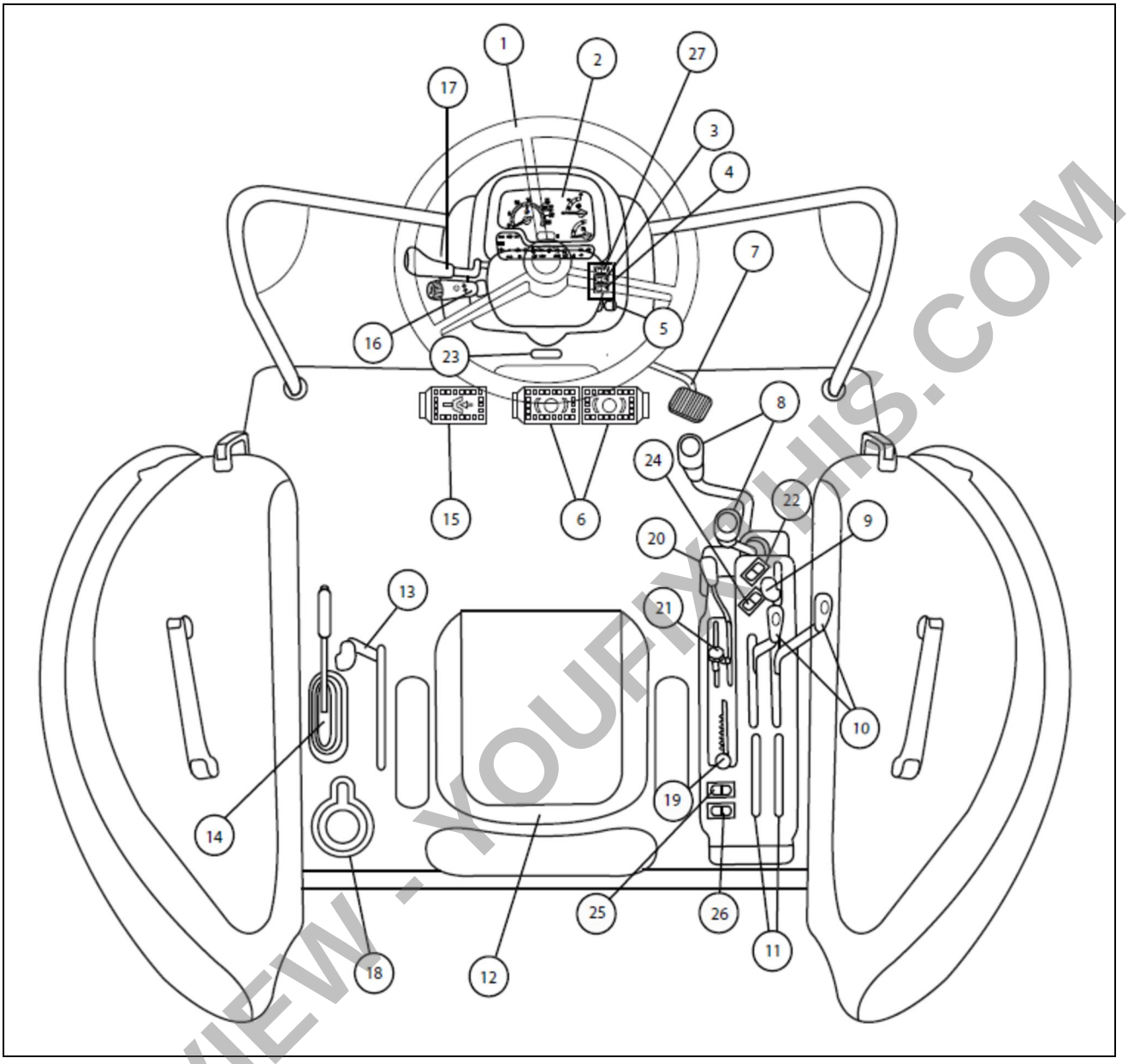
Component identification - machine without cab

(1) Folding ROPS
(2) User platform
(3) Tractor headlights
(4) Battery
(5) Steps (both sides of machine)
(6) Hand holds (both sides of machine)
(7) Rear tractor lights
(8) Tool box
(9) Diesel fuel tank
(10) Front counter weight (optional)
(11) Drawbar
(12) Lower link (fixed or telescopic)
(13) PTO with guard
(14) Upper link
(15) Hydraulic fill tube
(16) Remote control valves

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NOTE: *For viewing purposes, the operator's seat armrests are not shown.*



NHIL12TR00030AA 2

User control identification - machine without cab

(1) Steering wheel
(2) Instrument panel
(3) Hazard signal switch
(4) Four wheel drive switch
(5) Ignition key switch
(6) Brake pedals with lock
(7) Foot throttle
(8) Transmission controls
(9) Hand throttle
(10) Remote control valve levers
(11) Remote control valve lever (optional)
(12) Operator's seat
(13) Power Take-Off (PTO) control
(14) Parking brake
(15) Clutch pedal
(16) Multi-function lever
(17) Shuttle lever
(18) Cup holder
(19) System selector
(20) Adjustable lock
(21) Lift control lever
(22) Differential lock switch
(23) Steering column tilt
(24) Hi-Lo switch (optional)
(25) Creeper switch (optional)
(26) Beacon switch
(27) Work lamp

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DANGER

- **Start engine only from operator's seat. If safety switch is bypassed, engine can start with transmission in gear.**
- **DO NOT connect or short across terminals on starter solenoid.**
- **Attach booster cables as shown on battery decal.**
- **Starting in gear causing runaway can result in serious injury.**

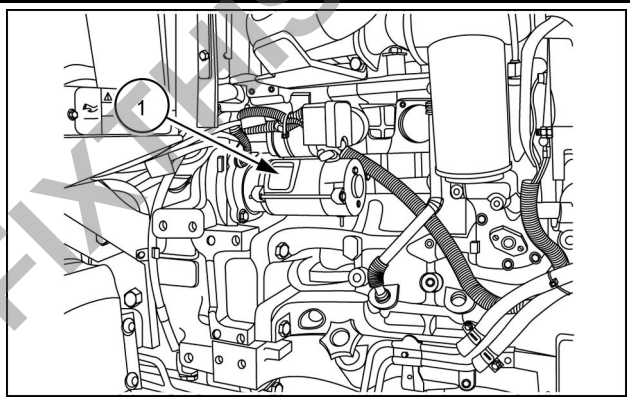
Failure to comply will result in death or serious injury.

Quantity: 1
English: 82985062
Spanish: 82985085



82985062 5

(1) Located on the located on the starter motor.



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WARNING

Keep hands and clothing away from rotating fan belts.

Contact with moving parts may cause loss of fingers or a hand.

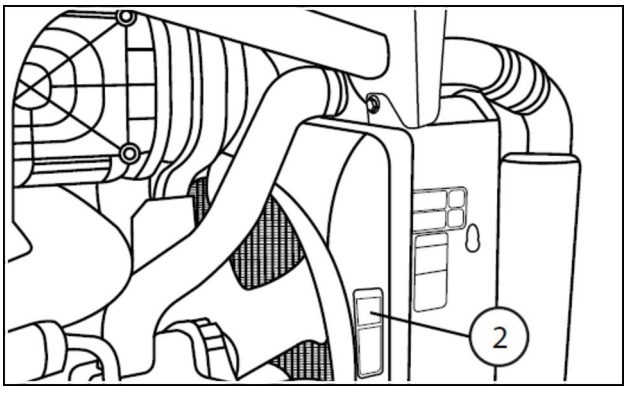
Failure to comply could result in death or serious injury.

Quantity: 2
English: 86532907
Spanish: 82985335



86532907 7

(2*) Located on the left-hand and right-hand sides of the radiator.



NHIL12TR00052AA 8

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4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Run in period of a new machine

Your tractor will provide long and dependable service, as long as the unit is serviced and maintained at the recommended intervals.

Avoid overloading the engine. Operating in too high of a gear under a heavy load may cause excessive engine overloading. The overloading occurs when the engine does not respond to a throttle increase.

Do not operate without engine load. This can be as harmful to the engine as overloading. Vary the type of operation performed so that the engine is subjected to heavy as well as light loads during the running-in period.

Use lower gears when pulling heavy loads and avoid working during a long time at constant engine speeds. Operating the machine in too low of a gear with a very light load and at a high engine speed will waste fuel You will save fuel and reduce engine wear by selecting the correct gear for each particular job.

Check the instruments and indicator lights regularly and keep the radiator and oil reservoirs filled to the recommended levels.

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7 - MAINTENANCE

GENERAL INFORMATION

Maintenance and service schedule

⚠ DANGER

Improper operation or service of this machine can result in an accident.
Do not operate this machine or perform any lubrication, maintenance, or repair on it until you have read and understood the operation, lubrication, maintenance, and repair information.
Failure to comply will result in death or serious injury.

D0010A

⚠ WARNING

Maintenance hazard!
Always perform all service procedures punctually at the intervals stated in this manual. This ensures optimum performance levels and maximum safety during machine operation.
Failure to comply could result in death or serious injury.

W0132A

⚠ WARNING

Improper operation or service of this machine can result in an accident.
Before working on any component(s) of the electrical circuit, put the starter switch key in the off (shut down) position. When disconnecting batteries, always disconnect the negative (-) cable first. When reconnecting batteries, always connect the negative (-) cable last.
Failure to comply could result in death or serious injury.

W0264A

⚠ WARNING

Avoid injury!
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. **Wait for all machine movement to stop.**

Failure to comply could result in death or serious injury.

W1197A

NOTICE: *While any company can perform necessary maintenance or repairs on your equipment, CASE IH strongly recommends that you use only authorized CASE IH dealers and products that meet given specifications. Improperly or incorrectly performed maintenance and repair voids the equipment warranty and may affect service intervals.*

This section details the necessary requirements to keep your machine working at its maximum efficiency. A lubrication and maintenance chart summarizes the requirements. If you have questions regarding any lubrication or service issue, contact your CASE IH Dealer.

Flexibility of service intervals

The intervals described in the lubrication and service charts are conditions that should be met under normal working conditions. Adjust the intervals according to the environmental working conditions. Shorten the intervals in adverse working conditions (rain, mud, sand, and dust).

Preventing system contamination

In order to avoid contamination when changing the oil, filters, etc., always clean the area surrounding the component to be serviced. Before attaching cylinders to the remote control, make sure the oil inside them is clean, not contam-

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Torque specifications

NOTE: *In the metric tables, nominal sizes M4 through M8 hardware torque specifications are shown as a Newton meters (pound-inches) numerical value.*
Nominal sizes M10 through M24 hardware torque specifications are shown as a Newton meters (pound-feet) numerical value.

Metric hex head (non-flange) hardware

Plain (PLN) – an unplated hardware finish with residual manufacturing oils
Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	Class (CL) 8.8 bolt and Class (CL) 8 nut	Class (CL) 10.9 bolt and Class (CL) 10 nut	Locknut CL 8 w/CL 8.8 bolt	Locknut CL 10 w/CL 10.9 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
M4	3.5 (31)	5.0 (44)	1.4 (13)	2.8 (25)
M5	7.0 (62)	10 (88)	2.9 (26)	5.5 (49)
M6	11.8 (104)	17 (150)	4.9 (43)	9.4 (83)
M8	28.8 (255)	41.3 (366)	11.9 (105)	23 (204)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
M10	57 (42)	82 (60)	24 (17)	45 (33)
M12	100 (74)	143 (105)	41 (30)	79 (38)
M14	159 (117)	227 (168)	66 (48)	125 (92)
M16	248 (183)	354 (261)	102 (75)	195 (144)
M18	352 (260)	487 (359)	145 (107)	268 (198)
M20	500 (369)	690 (509)	206 (152)	380 (280)
M24	865 (638)	1195 (882)	357 (263)	657 (485)

Metric flange head hardware

Plain (PLN) – an unplated hardware finish with residual manufacturing oils
Zinc-dichromate (ZND) – a yellow colored chemical plating formula yellow applied to the hardware

Nominal size	Class (CL) 8.8 bolt and Class (CL) 8 nut	Class (CL) 10.9 bolt and Class (CL) 10 nut	Flange locknut CL 8 w/CL 8.8 bolt	Flange locknut CL 10 w/CL 10.9 bolt
	PLN and ZND	PLN and ZND	ZND	ZND
	N·m (lb in)	N·m (lb in)	N·m (lb in)	N·m (lb in)
M4	3.8 (34)	5.5 (49)	4.2 (37)	6.1 (54)
M5	7.7 (68)	11 (97)	8.5 (75)	12 (106)
M6	13 (115)	18.7 (166)	14.3 (127)	20.6 (182)
M8	31.7 (281)	45.5 (403)	35 (310)	50 (443)
	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)	N·m (lb ft)
M10	63 (47)	90 (66)	69 (51)	99 (73)
M12	110 (81)	157 (116)	121 (89)	173 (128)
M14	175 (129)	250 (184)	193 (142)	275 (202)
M16	272 (201)	389 (287)	299 (221)	428 (316)
M18	387 (286)	535 (395)	426 (315)	589 (435)
M20	550 (406)	759 (560)	605 (447)	835 (616)
M24	951 (702)	1315 (970)	1046 (772)	1447 (1067)

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Fluid capacities and lubricant specifications

Fluid capacities

Location	Farmall 110A, Farmall 120A	Farmall 125A, Farmall 1240A
Fuel tank capacity	**150 l** (**39.6 US gal**)	**235 l** (**62.1 US gal**)
Cooling system capacity		
ROPS	**20.0 L** (**5.3 US gal**)	**23.5 L** (**6.2 US gal**)
Cab	**22.0 L** (**5.8 US gal**)	**24.5 L** (**6.5 US gal**)
Engine oil capacity (including filter)	**11 l** (**2.9 US gal**)	**14 l** (**3.7 US gal**)
Transmission / hydraulic reservoir oil capacity (mechanical shuttle transmission)	**59 l** (**15.6 US gal**)	
Transmission / hydraulic reservoir oil capacity (Power Shuttle transmission)	**62 l** (**16.4 US gal**)	
Front axle (4WD) oil capacity (The indicated volume is for the axle only.)	**5.5 l** (**1.5 US gal**)	**10 l** (**2.6 US gal**)
Front drive hub oil capacity (4WD) (The indicated volume is for one hub only.)	**1.0 l** (**0.3 US gal**)	**1.5 l** (**0.4 US gal**)
Brake fluid capacity	**1 - 1.5 l** (**2.1 - 3.2 US pt**)	

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MAINTENANCE CHART

Maintenance chart

Maintenance action	Grease	Tire inflating	Drain fluid	Level make up	Cleaning	Change fluid	Tighten	Adjust	Replace	Page no.
Warning light on										
Service air filter when warning light illuminates	x									7-20
Every 10 hours or daily										
Engine oil level		x								7-22
Radiator, oil cooler, and condenser	x									7-23
Fuel filter water separator			x							7-26
Every 50 hours										
Tire pressure				x						7-27
Front hubs					x					7-29
Four-Wheel Drive (4WD) front axle front pivot					x					7-29
Four-Wheel Drive (4WD) front axle rear pivot					x					7-29
Four-Wheel Drive (4WD) steering cylinders					x					7-30
External shift linkage					x					7-30
Right-hand and left-hand lifter rods					x					7-31
Clutch linkage					x					7-31
Front axle sleeve bearings - Four-Wheel Drive (4WD)					x					7-32
External air filter	x									7-33
Every 300 hours										
Engine oil and filter						x				7-34
Front axle oil - Four-Wheel Drive (4WD)		x								7-36
Front hub oil - Four-Wheel Drive (4WD)		x								7-37
Roll Over Protective Structure (ROPS)							x			7-38
Cab frame hardware							x			7-39
Transmission filter						x				7-40
Parking brake - Adjust								x		7-41
Every 600 hours										
Engine air filter - Outer element									x	7-46
Fuel filter water separator									x	7-47
Every 1200 hours or annually										
Transmission oil						x				7-48
Front axle oil - Four-Wheel Drive (4WD)									x	7-50
Front hub oil - Four-Wheel Drive (4WD)									x	7-51
Every 1200 hours or two years										
Engine air filter - Inner element									x	7-52
External air filter									x	7-53
Every 3600 hours or four years										
Engine cooling system			x							7-54
As required										
Windshield washer fluid level									x	7-56
Headlights - adjust									x	7-57
Headlight bulb replacement									x	7-58
Work light bulb replacement									x	7-59
Rear light bulb replacement									x	7-60
Rocker switch light bulbs									x	7-61
Steering stops								x		7-62
Steering toe in								x		7-63

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STARTING THE UNIT

Starting the engine

⚠ WARNING

Explosion hazard!
DO NOT use ether starting fluid. Serious engine damage, explosion, death, or serious personal injury could occur.
Failure to comply could result in death or serious injury.

W0148A

NOTICE: *You must push inward on the key prior to turning the key. Failure to do this will damage the key.*

NOTICE: *Never push or tow the machine to start the engine. Use an auxiliary battery and appropriate wiring.*

NOTE: *The neutral safety switch prevents starter motor operation unless the shift lever is in neutral.*

The grid heater, which is effective at temperatures down to **-18 °C** (**0 °F**), is comprised of a heater element installed in the intake manifold.

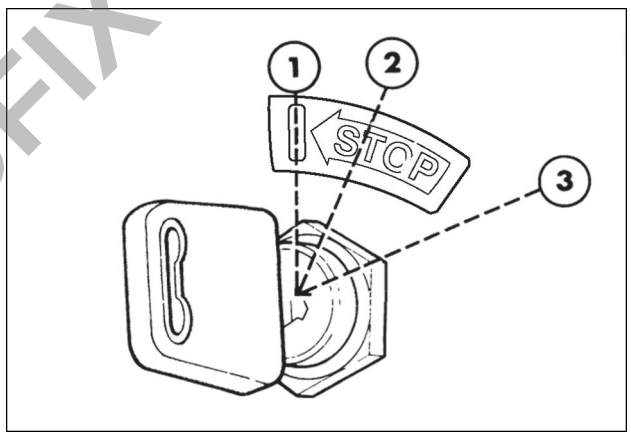
For starting the engine at temperatures lower than **-18 °C** (**0 °F**), there is an engine block heater available as an accessory. This system is efficient at temperatures down to **-29 °C** (**-20 °F**) when used together with the grid heater.

The ignition key has three positions:

Position 1 – Off line (fuel shut off)

Position 2 – Accessories activated including grid heater

Position 3 – Engine start



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8 - TROUBLESHOOTING

SYMPTOM(S)

Engine

Problem	Possible Cause	Correction
Engine will not start or is difficult to start	Incorrect starting procedure	See starting procedure
	Fuel level low or empty	Check fuel level
	Air in fuel system	Bleed fuel system
	Engine oil viscosity not correct	Use oil of right viscosity
	Fuel not suitable for present ambient temperature	Use correct type of fuel for temperature conditions
	Fuel system contaminated	Clean system
	Fuel filter clogged	Replace filter element
	Fuel injector fault	Contact your dealer
The engine does not run properly and/or cuts out	Fuel system contaminated	Clean system
	Fuel injector fault	Contact your dealer
Engine does not reach maximum power	Engine overload	Change to lower gear or reduce load
	Air filter clogged	Clean or replace air filter
	Incorrect fuel type	Use correct fuel type
	Low engine operating temperature	Check thermostat
	Fuel injector fault	Have a dealer check the injectors
	Implement incorrectly set	See equipment manual
	Incorrect valve clearance	Check and adjust
	Idling speed too low	Contact your dealer
Abnormal engine knocking	Oil level low	Top off oil level as needed
	Oil pressure low	Contact your dealer
Low engine operating temperature	Faulty thermostat	Replace thermostat
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	Isolate leak and repair as required
	Breather pipe filter clogged	Replace breather pipe filter
Engine overheating	Radiator core clogged	Clean radiator core
	Engine overload	Change to lower gear or reduce load
	Engine oil level low	Top off oil level as required
	Coolant level low	Top off fluid level in expansion tank; check system for leaks
	Radiator cap defective	Replace cap
	Fan belt slipping or worn	Check tensioning device or replace belt if worn
	Cooling system clogged	Flush cooling system
	Faulty thermostat	Check and replace thermostat as required
	Hoses leaking	Tighten hose connectors
	Temperature indicator or gauge malfunction	Contact your dealer
Excessive fuel consumption	Wrong fuel type	Use correct fuel type
	Air filter dirty or clogged	Carry out maintenance on air filter
	Engine overload	Change to lower gear or reduce load
	Valve clearance wrong	Check and adjust as required

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9 - SPECIFICATIONS

General dimensions

Dimensions 2WD (ROPS)	Farmall 110A	Farmall 120A	Farmall 125A	Farmall 140A
Wheelbase	**2570 mm** (**101 in**)	**2570 mm** (**101 in**)	**2670 mm** (**105.1 in**)	**2670 mm** (**105.1 in**)
Steering wheel height	**2043 mm** (**80.4 in**)	**2043 mm** (**80.4 in**)	**2043 mm** (**80.4 in**)	**2043 mm** (**80.4 in**)
Hood height	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)
Exhaust height	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)
ROPS height	**2783 mm** (**109.6 in**)	**2828 mm** (**111.3 in**)	**2828 mm** (**111.3 in**)	**2828 mm** (**111.3 in**)
Overall length	**3768 mm** (**148.3 in**)	**3768 mm** (**148.3 in**)	**3868 mm** (**152 in**)	**3868 mm** (**152 in**)
Width with tires at **1625 mm** (**64 in**) tread spacing	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)
Minimum ground clearance				
Front axle ground clearance	**535 mm** (**21.1 in**)	**535 mm** (**21.1 in**)	**595 mm** (**23.4 in**)	**595 mm** (**23.4 in**)
Rear axle ground clearance	**505 mm** (**19.9 in**)	**550 mm** (**21.7 in**)	**550 mm** (**21.7 in**)	**550 mm** (**21.7 in**)
Drawbar ground clearance	**370 mm** (**14.6 in**)	**418 mm** (**16.5 in**)	**418 mm** (**16.5 in**)	**418 mm** (**16.5 in**)
Front tire size	10.00 - 16	10.00 - 16	10.00 - 16	10.00 - 16
Rear tire size	18.4 - 34	18.4 - 38	18.4 - 38	18.4 - 38

Dimensions 2WD (Cab)	Farmall 110A	Farmall 120A	Farmall 125A	Farmall 140A
Wheelbase	**2570 mm** (**101.2 in**)	**2570 mm** (**101.2 in**)	**2670 mm** (**105.1 in**)	**2670 mm** (**105.1 in**)
Hood height	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)	**1863 mm** (**73.3 in**)
Exhaust height	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)	**2856 mm** (**112.4 in**)
Cab height	**2869 mm** (**113.0 in**)	**2914 mm** (**114.7 in**)	**2914 mm** (**114.7 in**)	**2914 mm** (**114.7 in**)
Overall length	**3768 mm** (**148.3 in**)	**3768 mm** (**148.3 in**)	**3868 mm** (**152.3 in**)	**3868 mm** (**152.3 in**)
Width with tires at **1778 mm** (**70 in**) tread spacing	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)	**2112 mm** (**83.1 in**)
Minimum ground clearance				
Front axle ground clearance	**535 mm** (**21.1 in**)	**535 mm** (**21.1 in**)	**595 mm** (**23.4 in**)	**595 mm** (**23.4 in**)
Rear axle ground clearance	**505 mm** (**19.9 in**)	**550 mm** (**21.7 in**)	**550 mm** (**21.7 in**)	**550 mm** (**21.7 in**)
Drawbar ground clearance	**370 mm** (**14.6 in**)	**418 mm** (**16.5 in**)	**418 mm** (**16.5 in**)	**418 mm** (**16.5 in**)
Front tire size	10.00 - 16	10.00 - 16	10.00 - 16	10.00 - 16
Rear tire size	18.4 - 34	18.4 - 38	18.4 - 38	18.4 - 38

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Operating single-acting hydraulic cylinders - Tractors equipped with Bosch remote control valves 4-41
Operating double-acting hydraulic cylinders - Tractors equipped with Sohipren remote control valves 4-42
Operating double-acting hydraulic cylinders - Tractors equipped with Bosch remote control valves 4-43
Operating continuous flow hydraulic equipment - Tractors equipped with Bosch remote control valves 4-44
Adjusting the drawbar 4-46
Hitch operation 4-49
Power Take-Off (PTO) operation 4-54

STARTING THE UNIT
Starting the engine 4-61
Engine starting aids 4-64

STOPPING THE UNIT
Driving and stopping the tractor 4-66
Hydraulic trailer brakes 4-68

MOVING THE UNIT
Steering control 4-69

5 TRANSPORT OPERATIONS
ROAD TRANSPORT
Basic instructions 5-1

RECOVERY TRANSPORT
Towing the tractor 5-2

6 WORKING OPERATIONS
GENERAL INFORMATION
Alternator protection 6-1

7 MAINTENANCE
GENERAL INFORMATION
Maintenance and service schedule 7-1
Torque specifications 7-3
Standard torque data for hydraulic tubes and fittings 7-8
Biodiesel fuel 7-10
Fluid capacities and lubricant specifications 7-11
Organic Acid Technology (OAT) coolant 7-14
Opening the hood 7-16
Fueling the machine 7-17

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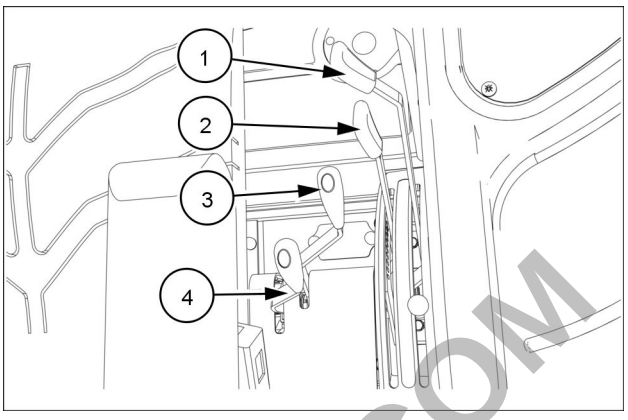
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The following hydraulic controls are located on the right-hand side of the operator's seat. Each control lever is color coded. These colors match the set of hydraulic control valves located on the rear of the tractor.

- **(1)** – Remote control valve lever (green).
  Used to operate external hydraulic cylinders, motors etc.
- **(2)** – Remote control valve lever (blue).
  Used to operate external hydraulic cylinders, motors etc.
- **(3)** – Deluxe remote control valve levers (ginger) (optional).
  Used to operate external hydraulic cylinders, motors etc.
- **(4)** – Deluxe remote control valve lever (black) (optional).
  Used to operate external hydraulic cylinders, motors etc.

NOTE: *Lever movements: central position for neutral (closed), partially upward to lower the implement, fully upward for the float feature, and down to raise the implement.*

NOTE: *You can install up to four additional remote control valves.*



NHVM16TR00299FA 4

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Attaching a Power Take-Off (PTO)-driven implement

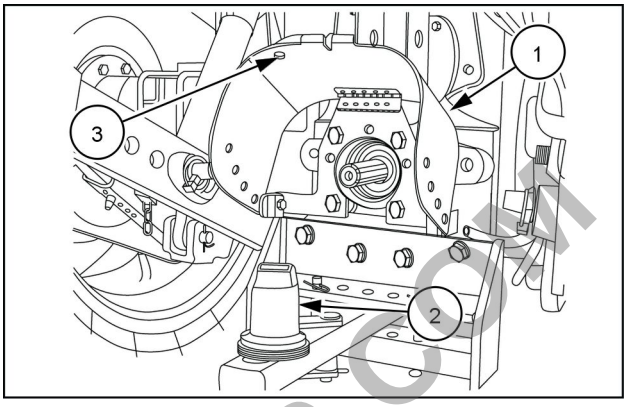
NOTICE: *Implements must also be secured to the tractor drawbar or three-point linkage, otherwise damage may occur to the PTO shaft or implement.*

NOTICE: *The operator must understand the PTO-driven implement operator's manual before operating the tractor and the attached implement.*

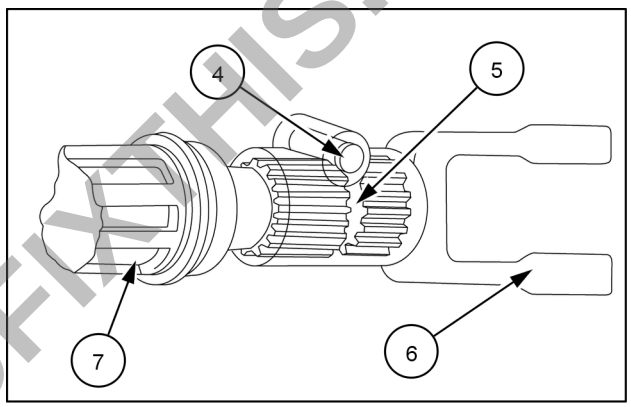
1. Raise the PTO guard **(1)**, remove the PTO cap **(2)**, and place it in the toolbox.
2. Align and attach the PTO-driven implement.
3. Make sure the implement drive shaft coupler **(6)**, lock pin, or detent ball **(4)** is inserted in the recessed area **(5)** of the PTO spline shaft **(7)**. If the coupler does not have a locking device, you must make arrangements on securing the coupler to the shaft before operating the implement and tractor.
4. Lower the PTO guard.

   NOTE: *The PTO guard is designed in a way that it may also provide support to the PTO shield of the implement. To use this feature, attach the implement support device to the PTO guard hole **(3)**.*

   NOTICE: *After attaching a mounted implement, carefully raise and lower the implement using the POSITION control, and check for looseness or slipping linkage in the PTO shaft.*



NHIL14TR00227AA 6



NHIL14TR00204AA 7

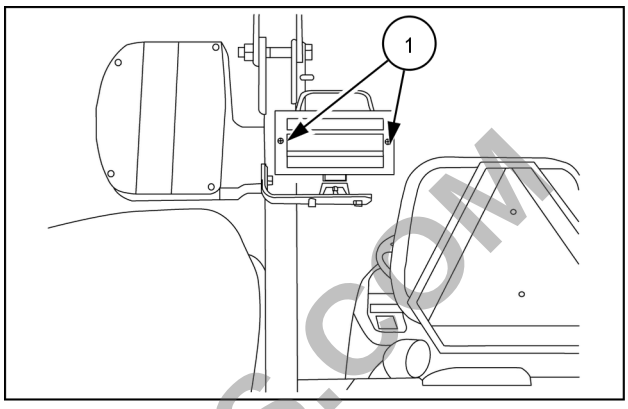
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Work light bulb replacement

Work light bulb replacement (machines without cab)

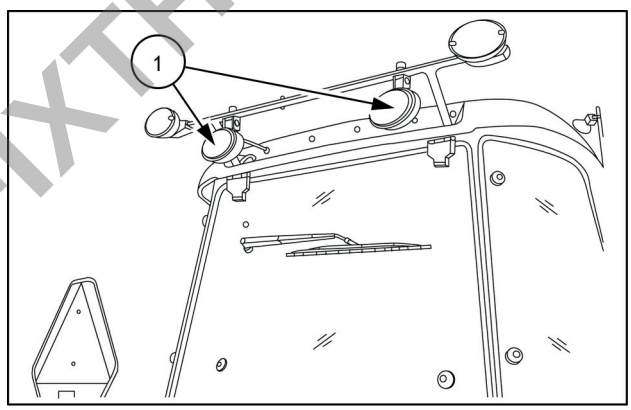
1. Remove the two screws **(1)** and remove the work light assembly from the housing.
2. Remove the light bulb from the back of the assembly.
3. Insert a new light bulb.
4. Place the work light bulb assembly into the housing and secure it in place with both screws **(1)**.



NHIL14TR00213AA 1

Work light replacement (machines with cab)

1. From the back of the work light housing **(1)**, turn the wiring harness counter-clockwise.
2. Pull the assembly out of the work light housing.
3. Replace the light bulb on the wiring harness.
4. Insert the assembly into the work light housing and turn the assembly clockwise until secure.



NHIL14TR00230AA 2

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