ORIGINAL INSTRUCTIONS - *according to Directive 2006/42/EC, Annex I 1.7.4.1*

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LUXXUM™ 100
LUXXUM™ 110
LUXXUM™ 120
STAGE IV
Tractor

OPERATOR'S MANUAL

Part number 48108626
2nd edition English
March 2017
Replaces part number 47700714

CASE IH AGRICULTURE

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2 - SAFETY INFORMATION

Safety precautions

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 machine. Equipment should be operated only by those who are responsible and instructed to do so.

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 , 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 which, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

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

Machine safety

NOTICE: *Notice indicates a situation which, if not avoided, could result in machine or property damage.*

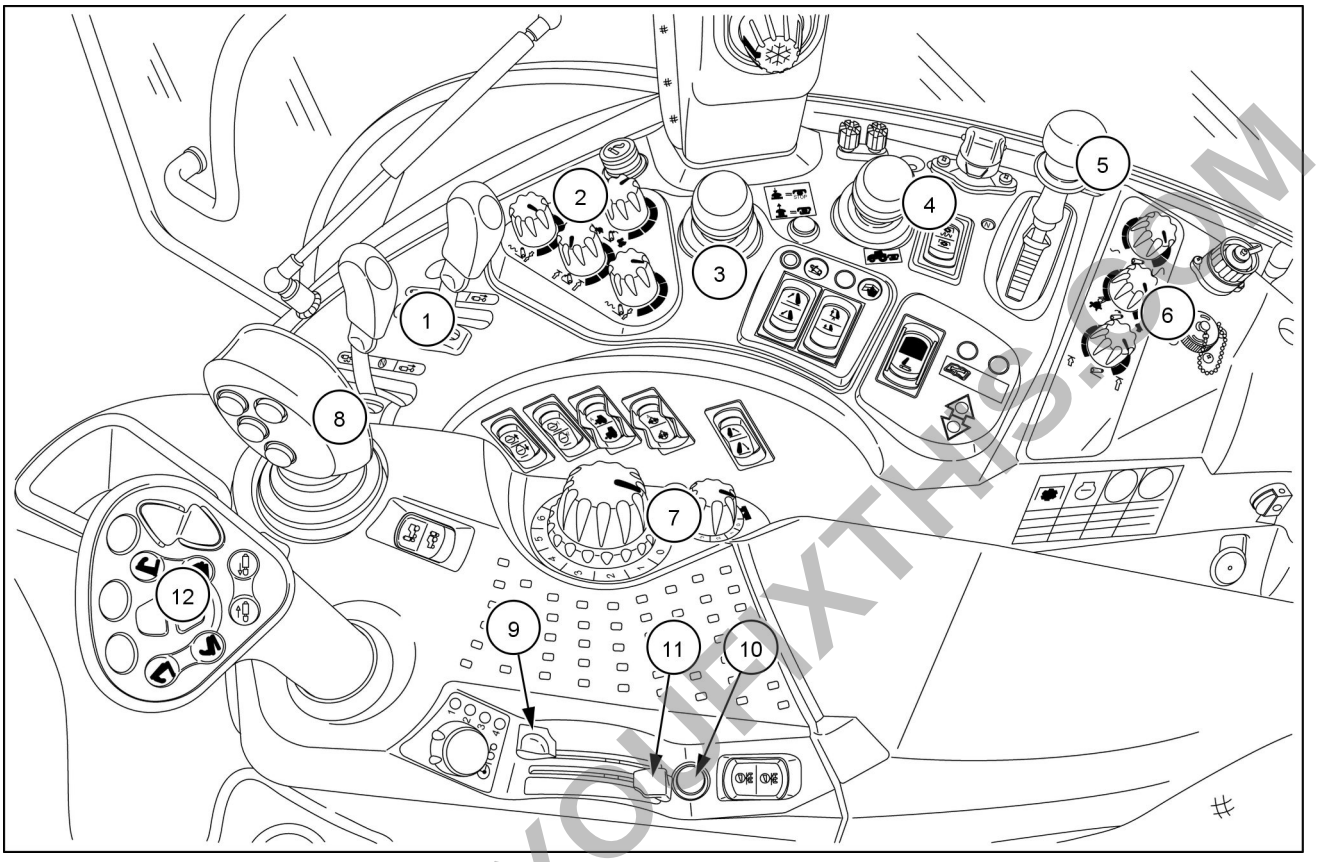
Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

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RIGHT-HAND SIDE CONTROLS

Controls overview



SVIL16TR01760FA 1

- Hydraulic remote valves — control levers **(1)** (see page **6-68** and the following)
- Electronic Front Hitch (EFH) — controls **(2)** (where fitted) (see page **6-61** and the following)
- Front Power Take–Off (PTO) — control knob **(3)** (where fitted) (see page **6-39** and the following)
- Rear Power Take–Off (PTO) — control knob **(4)** (see page **6-26** and the following)
- PTO speed 540/1000 lever **(5)** (see page **6-26** and the following)
- Electronic Draft Controls (EDC) **(6)** and **(7)** (see page **6-41** and the following)
- Electro hydraulic remote valves — controls **(8)** (see page **6-77** and the following)
- Automatic Power Shift (APS) controls **(9)** and **(10)** (see page **6-18** and the following)
- Hand throttle **(11)** (see page **3-17**)
- Multicontroller **(12)** (see page **3-26** and the following)

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6 - WORKING OPERATIONS

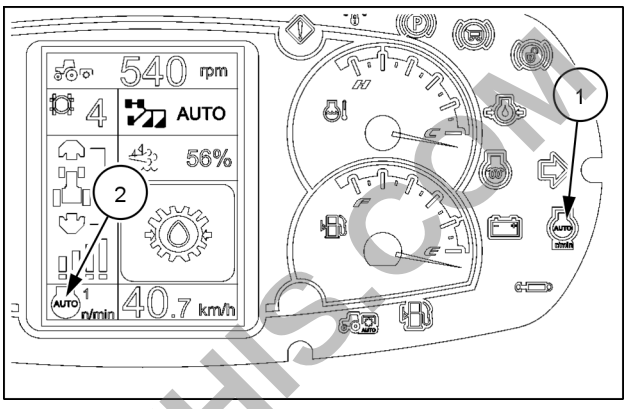
GENERAL INFORMATION

Constant engine speed

With Constant Engine Speed (CES), the operator may pre- set one or two fixed engine speeds appropriate to the work in hand. CES will maintain a fixed engine speed, it cannot be used to provide a constant ground speed (cruise control).

With CES activated the indicator light **(1)** on the Instrument cluster, will illuminate when the system is in operation and the DMD shows the selected CES program 1 or 2 **(2)**.

When activated, CES constantly monitors engine load and speed for any change. If engine load increases and the r.p.m. starts to drop, CES will electronically adjust the engine speed control unit to compensate, thereby maintaining a constant engine r.p.m.



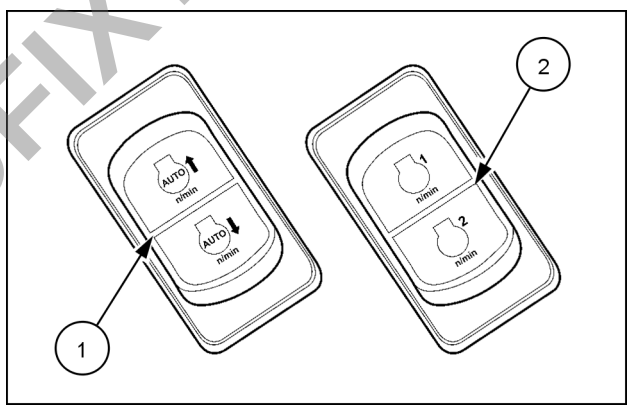
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Setting CES

Two switches control the CES function

- Increase/decrease engine speed **(1)**
- Program setting **(2)**

To create CES program 1 start the engine and set the r.p.m. to the desired level using the engine speed control or drive pedal. Depress/hold switch **(2)** on the top for **2 s** and the light in the instrument cluster will begin to flash. This indicates that the current engine speed is stored.



SVIL16TR01482AB 2

After **2 s** the light will stop flashing and will remain on. The DMD in the instrument cluster shows the selected CES program 1 or 2. CES is now active and operating at the current engine speed.

NOTE: *If the CES program switch is released whilst the light is flashing, CES will reset to the default speed of* ***850 RPM*** *or the previously program engine speed. Depress the CES program switch again to restart the procedure.*

To store a second CES program, repeat the above process by depressing switch **(2)** on the bottom.

A program can be deactivated at any time by depressing the appropriate switch **(1)** on the top or on the bottom.

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5 - TRANSPORT OPERATIONS

PREPARING FOR ROAD TRANSPORT

Carrying the tractor on a transporter

Transport the tractor with all four wheels on a flat bed trailer or truck. Securely chain the tractor to the transporter.

NOTICE: *Do not chain around the four wheel drive shaft, steering cylinders, front wheel drive axle or other components that could be damaged by contacting the chain or by heavy loading.*

Use the drawbar or drawbar hanger for a rear tie down point.

NOTICE: *Cover the silencer outlet so that the wind does not spin the turbocharger and damage the bearings. Turbocharger turbine freewheeling (turning without engine running) must be avoided since lubrication will not be provided to the turbocharger bearings.*

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MAINTENANCE CHART

Maintenance chart

Maintenance action	Replace	Drain fluid	Check	Change fluid	Cleaning	Charging	Adjust	Bleed	Grease	Page no.
WHEN THE WARNING LIGHT IS ON										
Change the engine air cleaner outer element	x									7-16
Drain the fuel system water separator		x								7-18
Check the brake fluid level			x							7-19
Change the DEF/AdBlue® fluid				x						7-19
EVERY 10 HOURS OR DAILY										
Check the engine coolant level			x							7-20
Check the engine oil level			x							7-21
Check the remote control valve drain bottles			x							7-22
Check windscreen washer reservoir			x							7-23
Drain air reservoir on air operated trailer brake		x								7-23
FIRST 50 HOURS										
Service operations			x							7-24
EVERY 50 HOURS										
Clean the cooler section					x					7-25
All grease fittings							x			7-26
Check the front and the rear wheel nuts			x							7-29
Check the tire pressures and the tire condition			x							7-30
Clean the cab air filter					x					7-31
EVERY 100 HOURS										
Inspect the poly V-belt			x							7-32
Inspect the compressor drive belt			x							7-32
Check the air-operated trailer brake anti-freeze fluid level			x							7-33
EVERY 300 HOURS										
Check the battery fluid level			x							7-34
Adjust the hand brake							x			7-36
Change the engine oil and the filter with biodiesel (>B7) usage	x									7-37
Change the fuel filter element with biodiesel (>B7) usage	x									7-37
Check the air-operated trailer brake system			x							7-37
Check the 4WD front axle differential oil level and the hubs oil level			x							7-38
Check the front PTO gearbox oil level			x							7-38
EVERY 600 HOURS										
Change engine oil and filter	x									7-40
Change the fuel filter element	x									7-41
Change the engine air cleaner outer element	x									7-43
Check the transmission oil level and the rear axle oil level			x							7-45
Check the hydraulic oil level			x							7-47
Check the air intake connections			x							7-48
Clean the DEF/AdBlue® pre-filter					x					7-49
EVERY 1200 HOURS OR ANNUALLY										
Check the air-conditioning system			x							7-50
Change the cab air filters	x									7-50
Check the trailer hitch for correct function and wear			x							7-51
EVERY 1200 HOURS OR EVERY 2 YEARS										

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EVERY 50 HOURS

Clean the cooler section

⚠ WARNING

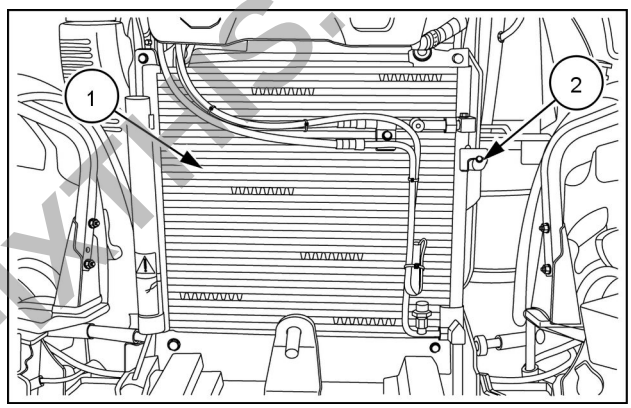
Flying debris!
Wear eye protection and protective clothing during the cleaning process. Clear the area of bystanders.
Failure to comply could result in death or serious injury.

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Check all cores for chaff accumulation or blockage. If any is noted, clean as follows:

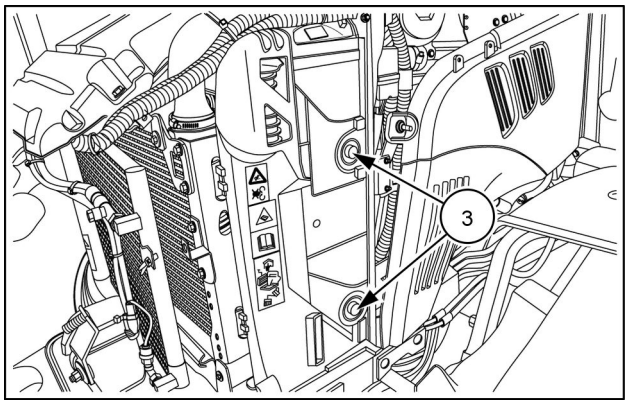
For cleaning, use compressed air or a pressure washer not exceeding **7 bar** (**102 psi**).

1. The air condition condenser **(1)** is located in front of the engine intercooler. To gain access to the rear of the condenser first release the fastener **(2)** by spinning anti-clockwise, then swing the condenser outwards.



SVIL15TR03083AA 1

2. To gain access to the rear of the intercooler, remove the screws **(3)** of the covers on both sides.

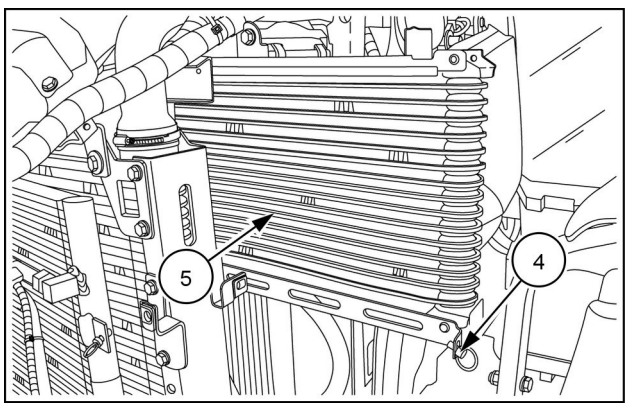


SVIL15TR03084AA 2

3. To gain access to the transmission oil cooler release the spring clip **(4)** and pull out the transmission oil cooler **(5)**.

4. Direct the air or water through each core from the back to the front. Clean the radiator first, then the transmission oil cooler, the intercooler and finally the air condition condenser. Carefully straighten any bent fins.

NOTE: *If the cores are blocked with any oily substances, apply a detergent solution and remove it with a pressure washer.*



SVIL15TR03085AA 3

5. Re-install all before removed parts again.

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SYMPTOM(S)

Engine

Problem	Possible Cause	Correction
Engine will not start or is difficult to start	Incorrect starting procedure.	Review starting procedure.
	Low or no fuel.	Check fuel level.
	Air in fuel lines.	Bleed fuel system.
	Low ambient temperature.	Use cold starting aid.
	Contaminated fuel system.	Clean and bleed fuel system.
	Clogged fuel filter(s).	Replace fuel filter element(s)
	Malfunctioning fuel pump or injectors.	See your authorised dealer.
	Malfunctioning fuel solenoid or solenoid relay.	See your authorised dealer.
	Incorrect engine oil viscosity.	Use correct viscosity oil.
	Incorrect fuel for operating temperature.	Use correct type fuel for temperature conditions.
	Slow starter speed.	See slow starter speed in Electrical.
Engine runs roughly and/ or stalls	Clogged fuel filter(s)	Replace fuel filter element(s).
	Contaminated fuel system.	Clean and bleed fuel system.
	Fuel solenoid incorrectly adjusted.	See your authorised dealer.
	Fuel cap vent blocked.	Wash cap in clean fuel oil.
Engine lacks power	Engine overloaded.	Shift to lower gear, reduce draft load or ballast carried.
	Air cleaner restricted.	Service air cleaner.
	Low engine operating temperature.	Check thermostats.
	Engine overheats.	See Engine overheats.
	Clogged fuel filter(s).	Replace fuel filter element(s).
	Incorrect fuel.	Use correct type fuel.
	Malfunctioning fuel injectors.	See your authoriszed dealer.
	Malfunctioning fuel injection pump.	See your authorized dealer.
	Leaking air intake boost pipes or exhaust manifold.	Check and rectify or see your authorized dealer.
	Turbocharger malfunctioning.	See your authorized dealer.
	Implement incorrectly adjusted.	See implement Operator's Manual.
Engine knocks	Fuel injection pump timing.	See your authorised dealer.
	Low engine oil level.	Add oil, as required.
	Low engine oil pressure.	See your authorised dealer.
	Low engine operating temperature.	Check thermostats.
	Engine overheats.	See Engine overheats.
Engine overheats.	Low engine oil level.	Add oil, as required.
	Low engine coolant level.	Fill coolant recovery tank. Check cooling system for leaks.
	Defective thermostat(s).	Check thermostat(s).
	Dirty/ blocked radiator core.	Clean.
	Excessive engine overload.	Shift to lower gear, reduce draft load or ballast carried.
	Faulty radiator pressure cap.	Replace cap.
	Cooling system blocked.	Flush cooling system.
	Loose or worn fan belt.	Check tension, adjust or replace belt if worn.
	Leaking hose or connection.	Tighten connection and/ or replace hose.
	Malfunctioning temperature gauge or sender.	See your authorised dealer.
	Malfunctioning vistronic fan.	See your authorised dealer.
Low engine oil pressure	Low oil level.	Add oil, as required.
	Wrong oil grade or viscosity.	Drain and refill with oil of the correct specification.

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ALARM(S)

Fault codes and symbols

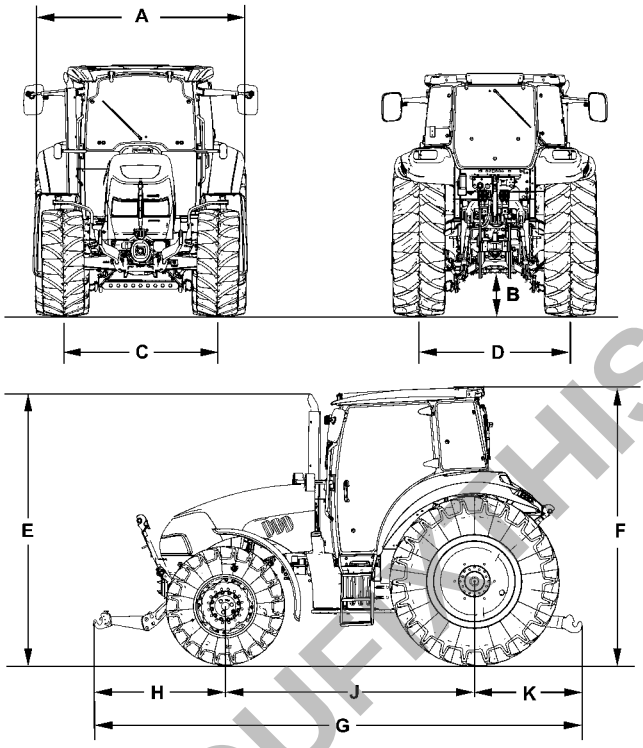
Dot Matrix Display (DMD)	Light	Fault code	Area of fault	Action
	-	1---	Rear hitch	The system fault symbols relate to an operational fault in one or more of the tractors main components, either electrical, mechanical or hydraulic. The appearance of a fault symbol may be accompanied by a four digit fault code. Consult your authorized dealer.
	-	2---	Transmission	
	-	3---	Engine	
	-	4---	Rear electronic remote valves	
 F	-	45--	Front electronic remote valves	
	-	5---	Rear PTO system	
	-	6---	Four wheel drive	
	-	7---	Rear differential lock	
	-	8---	Front PTO system	
	-	9---	Front hitch	
	-	12--	Hand brake assistant	
	-	13--	Universal Control Module (UCM)	

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9 - SPECIFICATIONS

General dimensions



SS13A229 1

NOTE: *The following dimensions are based on standard tractors fitted with tire size as shown. Allowance must be made for tires of larger or smaller dimensions:*

The following dimensions are approximately and based on tractor with tire sizes:

Front: 480/65 R24
Rear: 540/65 R38

A. Width across rear fenders	
Standard fenders	**2100 mm** (**82.7 in**)
Extended fenders	**2250 mm** (**88.6 in**)
B. Ground clearance below front axle (standard and suspended)	**450 mm** (**17.7 in**)
Ground clearance below rear axle	**450 mm** (**17.7 in**)
Ground clearance middle	**355 mm** (**14 in**)
Ground clearance below swinging drawbars	**350 mm** (**13.8 in**)
Ground clearance tow hooks, K80 ball or piton	**390 mm** (**15.4 in**)
Ground clearance automatic pickup hitch (push back)	**325 mm** (**12.8 in**)
Ground clearance automatic pickup hitch (drop down)	**355 mm** (**14 in**)
C. Front track setting (with adjustable rims)	**1446 – 2153 mm** (**56.9 – 85 in**)
Front track setting (with fixed rims)	**1750 – 1850 mm** (**68.9 – 72.8 in**)

NOTE: *The fitment of dual wheels to the front axle is not recommended.*

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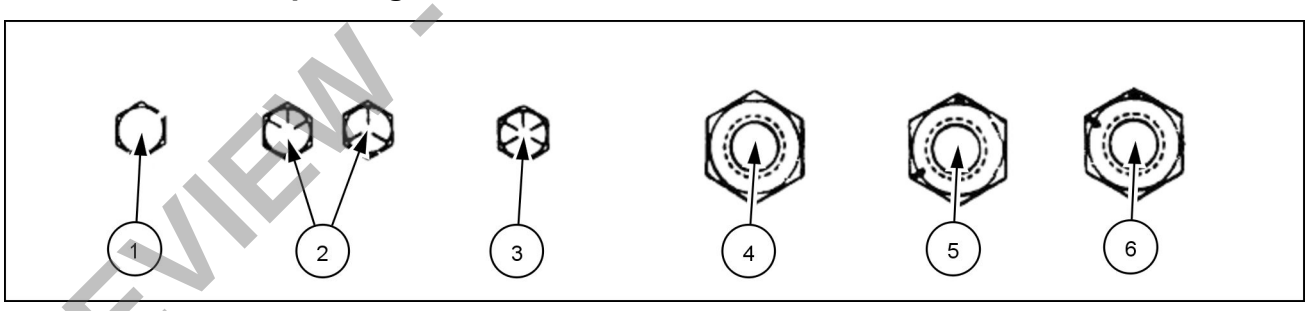
Minimum hardware tightening torques

INCH NON-FLANGED HARDWARE AND LOCKNUTS

NOMINAL SIZE	SAE GRADE 5 BOLT and NUT		SAE GRADE 8 BOLT and NUT		LOCKNUT GrB W/ Gr5 BOLT	LOCKNUT GrC W/ Gr8 BOLT
	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD	UNPLATED or PLATED SILVER	PLATED W/ZnCr GOLD		
1/4	**9.7 Nm (85.9 lb in)**	**13 Nm (115.1 lb in)**	**14 Nm (123.9 lb in)**	**18 Nm (159.3 lb in)**	**6.9 Nm (61.1 lb in)**	**9.8 Nm (86.7 lb in)**
5/16	**20 Nm (177.0 lb in)**	**26 Nm (230.1 lb in)**	**28 Nm (247.8 lb in)**	**37 Nm (327.5 lb in)**	**14 Nm (123.9 lb in)**	**20 Nm (177.0 lb in)**
3/8	**35 Nm (26 lb ft)**	**46 Nm (34 lb ft)**	**50 Nm (37 lb ft)**	**65 Nm (48 lb ft)**	**26 Nm (19 lb ft)**	**35 Nm (26 lb ft)**
7/16	**57 Nm (42 lb ft)**	**73 Nm (54 lb ft)**	**80 Nm (59 lb ft)**	**104 Nm (77 lb ft)**	**41 Nm (30 lb ft)**	**57 Nm (42 lb ft)**
1/2	**87 Nm (64 lb ft)**	**113 Nm (83 lb ft)**	**123 Nm (91 lb ft)**	**159 Nm (117 lb ft)**	**61 Nm (45 lb ft)**	**88 Nm (65 lb ft)**
9/16	**125 Nm (92 lb ft)**	**163 Nm (120 lb ft)**	**176 Nm (130 lb ft)**	**229 Nm (169 lb ft)**	**88 Nm (65 lb ft)**	**125 Nm (92 lb ft)**
5/8	**174 Nm (128 lb ft)**	**224 Nm (165 lb ft)**	**244 Nm (180 lb ft)**	**316 Nm (233 lb ft)**	**122 Nm (90 lb ft)**	**172 Nm (127 lb ft)**
3/4	**306 Nm (226 lb ft)**	**397 Nm (293 lb ft)**	**432 Nm (319 lb ft)**	**560 Nm (413 lb ft)**	**217 Nm (160 lb ft)**	**305 Nm (225 lb ft)**
7/8	**495 Nm (365 lb ft)**	**641 Nm (473 lb ft)**	**698 Nm (515 lb ft)**	**904 Nm (667 lb ft)**	**350 Nm (258 lb ft)**	**494 Nm (364 lb ft)**
1	**742 Nm (547 lb ft)**	**960 Nm (708 lb ft)**	**1048 Nm (773 lb ft)**	**1356 Nm (1000 lb ft)**	**523 Nm (386 lb ft)**	**739 Nm (545 lb ft)**

IDENTIFICATION

Inch Bolts and free-spinning nuts



20083682 1

Grade Marking Examples

SAE Grade Identification			
1	Grade 2 - No Marks	4	Grade 2 Nut - No Marks
2	Grade 5 - Three Marks	5	Grade 5 Nut - Marks **120°** Apart
3	Grade 8 - Five Marks	6	Grade 8 Nut - Marks **60°** Apart

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STARTING THE UNIT

Starting the engine

⚠ WARNING

Hazard to bystanders!
Make sure the area surrounding the machine is clear of all persons before starting the engine.
Failure to comply could result in death or serious injury.

W0090A

Before starting the engine, always carry out the following procedure:

- Sit in the driver's seat.
- Ensure the parking brake is firmly applied.
- Ensure that the PTO knob is in the 'off' position.
- Place all remote control valve levers in neutral.
- Turn the three–point hitch Position Control to the fully lowered position
- Depress and hold the clutch pedal.

NOTICE: *The high operating speed of the turbo charger makes it essential that adequate lubrication is assured when the engine is started. Therefore, idle the engine at **1000 RPM** for approximately one minute before driving the tractor.*

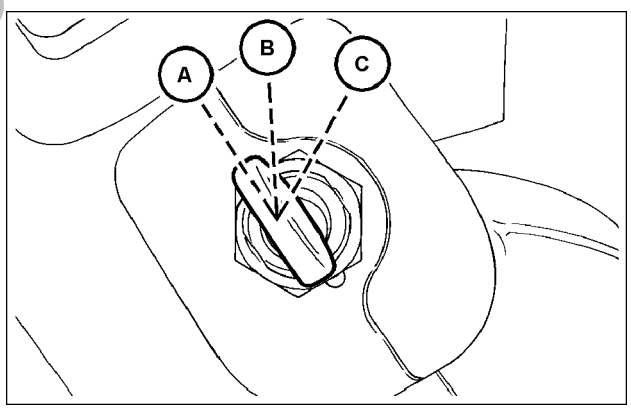
Starting in cold weather (with a cold engine)

- Turn the ignition key clockwise to position **(B)**. An indicator light **(1)**, figure **2** on the instrument panel will illuminate to show the glow plug has been activated.
- When the light extinguishes, turn the key fully clockwise to position **(C)**. Crank the engine until it starts but do not operate the starting motor for more than **15 s**.

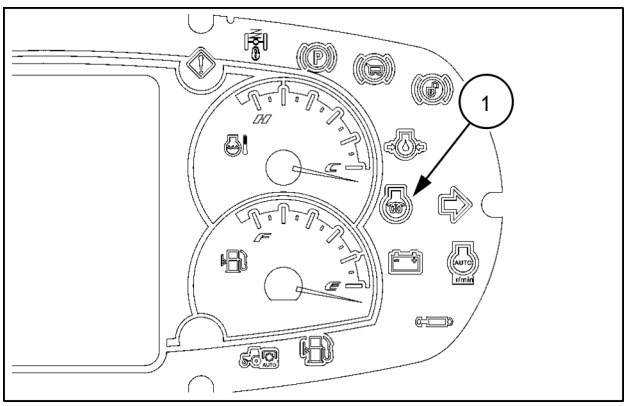
NOTE: *If cranking is not carried out within **15 s** of the light extinguishing, turn the ignition key to the 'off' position, pause for approximately **2 min** and restart the sequence.*

NOTE: *To avoid excessively running down the battery, do not make more than 6 attempts to start the engine. Contact your authorized dealer.*

- If the engine fails to start, repeat the foregoing procedure. If the engine still fails to start, allow the battery to recover for **4 – 5 min** then repeat the procedure.
- When the engine starts, return the throttle to the idle position and check that all warning lights extinguish and gauge readings are normal.



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THREE-POINT HITCH

Attaching three-point hitch equipment

NOTE: *Before attaching equipment to the three- point hitch, read the following text carefully.*

NOTE: *Before attaching equipment, adjust lift rods and select the correct top link hole for the implement and work to be carried out.*

Ensure that the telescopic stabilizers or sway blocks are installed and correctly adjusted. Remove the swinging drawbar, if close–mounted equipment is being attached.

NOTICE: *Always select position control by setting the draft loading wheel to position 10 when attaching equipment, transporting equipment, when no equipment is attached or at any time when not operating in draft control.*

NOTE: *See also 'External hitch controls ' on page* ***6-51*** *for more details.*

Most equipment can be attached to your tractor as follows:

1. Position the tractor so that the lower link hitch points are level with and slightly ahead of the implement hitch pins.

⚠ WARNING

Unexpected machine movement!
Engage the parking brake and put all levers in neutral before leaving the machine to make the connections.
Failure to comply could result in death or serious injury.

W0425A

2. Attach the implement to the lower links, as described in 'Quick Hitch' on page **6-96**.

NOTE: *It is essential to have the engine running to operate the external fender- mounted switches when making lower link connections. When making other connections, stop the engine.*

3. With the engine stopped and parking brake engaged, adjust the top link until the implement mast pin can be inserted through the mast and top link. Ensure sufficient thread remains in the adjuster tube to prevent the threaded ends from pulling out under load.
4. Connect remote equipment, where applicable.
5. After attaching implement and before actual operation check that:

- No interference occurs with tractor components.
- The top link does not contact the PTO guard with the implement at its lowest position.

NOTICE: *Before operating PTO driven equipment, check to make sure that the PTO drive line will not over- extend so as to become disengaged, bottom out or be at an excessive angle. Ensure that the drive line shield does not contact the PTO guard or drawbar. See 'Attaching PTO-Driven Equipment' on page* ***6-24****.*

NOTICE: *When attaching mounted or semi- mounted equipment to the three–point hitch or when attaching trailed equipment to the drawbar or hitch, ensure that there is adequate clearance between the implement and the tractor. Semi- mounted or trailed equipment may interfere with the tractor rear tires. If necessary, adjust steering stops or stabilizers.*

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Electronic Draft Control (EDC) operation 6-46

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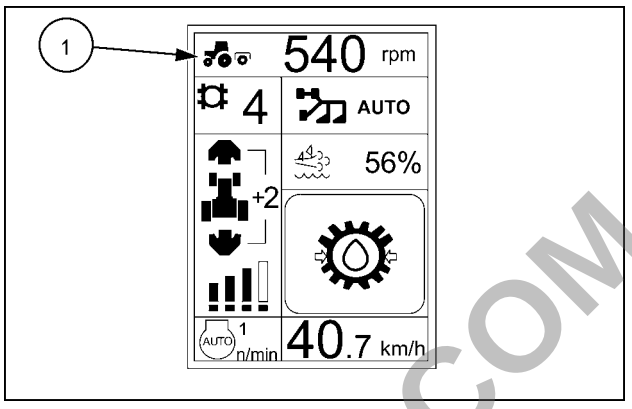
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Displays

Dot Matrix Display (DMD)

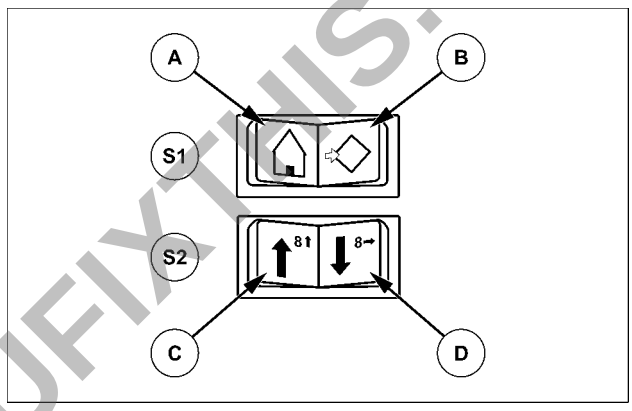
The DMD provides the operator with a range of information:

(1) Rear PTO speed
Front PTO speed
Rear hitch position
Tractor hours working
Electronic front hitch position
Electronic front hitch pressure
Rear wheel slip (with radar option only)



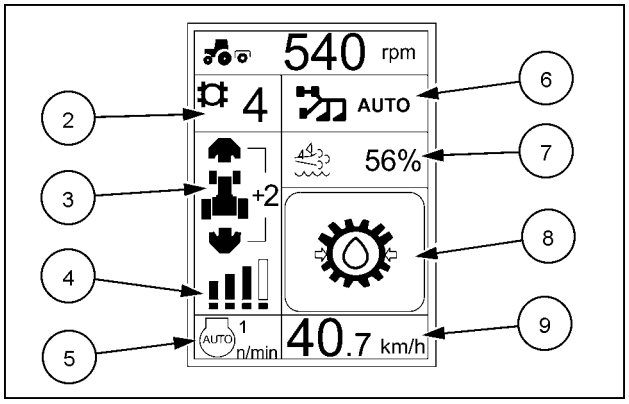
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Press the switch **(S1)** on the symbol **(B)** to scroll and select the appropriate screen.



SS12N139 2

(2) Selected synchro gear
(3) Tractor direction
(4) Selected powershift gears
(5) Constant Engine Speed (CES)
(6) Auto function
(7) **DIESEL EXHAUST FLUID (DEF)/ADBLUE®** level
(8) Performance monitor
(9) Tractor speed



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With couplers connected to electronic front or rear remote valves

With the joystick, it is possible to release pressure at the couplers in the following way. Place the valve in float so both raise and lower couplers can be easily disconnected.

Valve F1 or R3: With the engine running, move the joystick forward into float position.

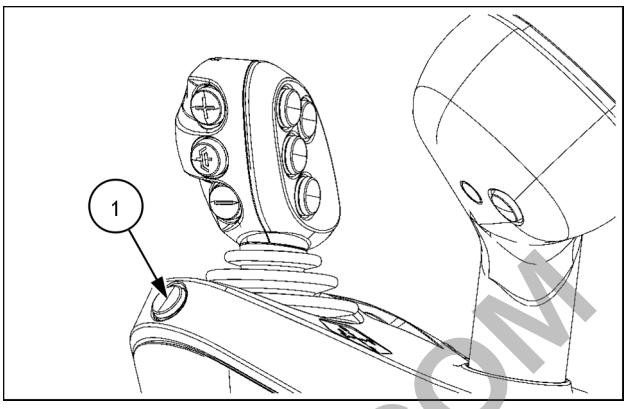
Switch off the engine and disconnect the hydraulic hoses to remote valve number 1.

Valve F2 or R4: With the engine running, depress and hold the switch **(1)**, move the joystick fully to the lower position **(L)** and then back to neutral **(N)**.

Switch off the engine and disconnect the hydraulic hoses to remote valve number 2.

To disconnect a hose from the remote coupler, grip the hose a short distance from the coupler and push forward into the remote valves coupling, then quickly pull on the hose to release the coupler.

To re-enable joystick operation, start the engine and move the joystick to the raise position and back to neutral. The joystick will now function normally.



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FIRST 50 HOURS

Service operations

At the first 50-hour service, ensure that the service operations are carried out by your authorized dealer. The items are listed in the 'First 50-Hour Service' checklist, see on page **11-3**.

- Check the engine oil level
- Check the engine coolant fluid
- Check the transmission and the rear axle oil level
- Check the hydraulics oil level
- Clean the front Power Take-Off (PTO) breather (where fitted)
- Check the front Power Take-Off (PTO) oil level (where fitted)
- Check the 4WD differential oil level
- Check the 4WD axle hub oil level
- Check and adjust the parking brake
- Check all engine air intake connections
- Check the torque of exhaust manifold bolts
- Check the poly V-belt
- Check the compressor drive belt(s) tension (air condition and/or air operated trailer brakes – where fitted)
- Tighten all cooling system hose connections
- Check torque of safety cab or frame mounting bolts
- Check torque of front end weight clamp bolts (where fitted)

Both 50 Hour Service sheets should be signed by yourself and your dealer and one copy retained by the dealer for their records (Dealer’s copy).

NOTICE: *Items listed in the first 50-hour check are important. If not performed, early component failure and reduced tractor life may result.*

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