MAINTENANCE CHART

Maintenance chart

Maintenance action	Replace	Drain fluid	Check	Cleaning	Grease	Charging	Bleed	Change fluid	Adjust	Page no.
WHEN THE WARNING LIGHT IS ON										
Change the engine air cleaner outer element	x									**7-17**
Drain the fuel system water separator		x								**7-18**
Check the brake fluid level			x							**7-19**
EVERY 10 HOURS OR EACH DAY										
Check the engine coolant level			x							**7-20**
Check the engine oil level			x							**7-21**
Check the remote control valve drain bottles			x							**7-21**
Check windscreen washer reservoir			x							**7-22**
Drain air reservoir on air operated trailer brake		x								**7-22**
FIRST 50 HOURS										
Service operations			x							**7-23**
EVERY 50 HOURS										
Clean the cab air filter				x						**7-24**
Clean the cooler section				x						**7-26**
All grease fittings					x					**7-27**
Check the front and the rear wheel nuts			x							**7-32**
Check the tire pressures and the tire condition			x							**7-32**
EVERY 100 HOURS										
Inspect the poly V-belt			x							**7-33**
Inspect the compressor drive belt			x							**7-33**
EVERY 300 HOURS										
Check the battery fluid level			x							**7-35**
Adjust the hand brake						x				**7-37**
Check the transmission oil level, the rear axle oil level and the hydraulic oil level			x							**7-38**
Check the 4WD front axle differential oil level and the hubs oil level			x							**7-39**
Check the front PTO gearbox oil level			x							**7-39**
EVERY 600 HOURS										
Change engine oil and filter	x									**7-40**
Change the first stage fuel filter and the fuel filter element	x									**7-42**
Change the engine air cleaner outer element	x									**7-43**
Change the hydraulic charge pump oil filter and the transmission oil filter	x									**7-44**
Check the engine air intake connections			x							**7-45**
Check the transmission oil cooler pipe couplings			x							**7-46**
Clean the DEF/AdBlue in-line filter				x						**7-46**
EVERY 1200 HOURS OR ANNUALLY										
Change the cab air filters	x									**7-47**
Change the hydraulic suction pump oil filter	x									**7-48**
Change the 4WD differential oil							x			**7-49**
Change the 4WD planetary hub oil							x			**7-50**
Change the front PTO gearbox oil							x			**7-50**
Grease the rear axle shaft bearing					x					**7-51**
EVERY 1200 HOURS OR EVERY 2 YEARS										

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4 - OPERATING INSTRUCTIONS

COMMISSIONING THE UNIT

Refueling the tractor

⚠ WARNING

Fire hazard!
When handling diesel fuel, observe the following precautions:
1. Do not smoke.
2. Never fill the tank when the engine is running.
3. Wipe up spilled fuel immediately.
Failure to comply could result in death or serious injury.

W0099A

⚠ WARNING

Fire hazard!
Do not add gasoline, alcohol, or blended fuels to diesel fuel, except as recommended in this manual. Fuel combinations may increase fire and explosion hazards.
Failure to comply could result in death or serious injury.

W0401A

NOTE: *Additionally, dieselhol is not approved due to possible inadequate lubrication of the fuel injection system.*

Maintenance requirements

The operator must maintain appropriate DEF/AdBlue® levels at all times. No additional maintenance is required.

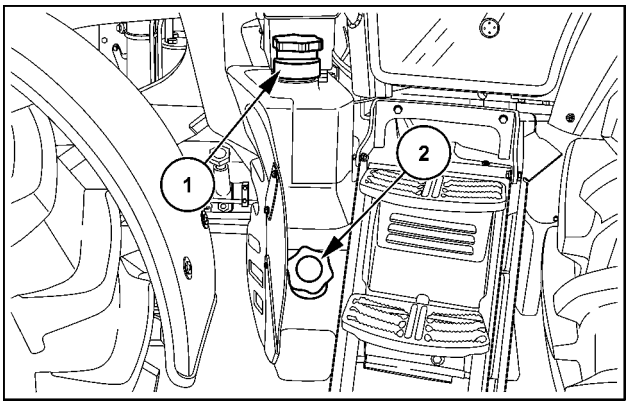
NOTE: *See your NEW HOLLAND dealer for replacement components and cleaning agents.*

See pages **7-12** and **7-13** for lubrication oil quality, maximum lubrication oil consumption ratings, and page **7-2** for fuel requirements. Your Selective Catalytic Reduction (SCR) system is compatible with up to **20 %** bio-diesel fuel.

with Diesel

When handling diesel fuel, observe the following:

- Fill the tank at the end of each day to reduce overnight condensation.
- Clean the area around the fuel cap **(1)** to prevent dirt from entering tank and contaminating the fuel.
- Never take the cap off or refuel with the engine running. Remove the cap and place in a clean area during refuelling. The cap is attached to the fuel tank by a chain to prevent loss.
- Keep control of the fuel nozzle while filling the fuel tank.
- Don't fill the tank to capacity. Allow room for expansion. If the original fuel tank cap is lost, replace it with a genuine original equipment cap and tighten securely.
- After filling the tank, replace and tighten the fuel cap.
- Wipe up spilled fuel immediately.



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3 - CONTROLS AND INSTRUMENTS

ACCESS TO OPERATOR'S PLATFORM

Introduction

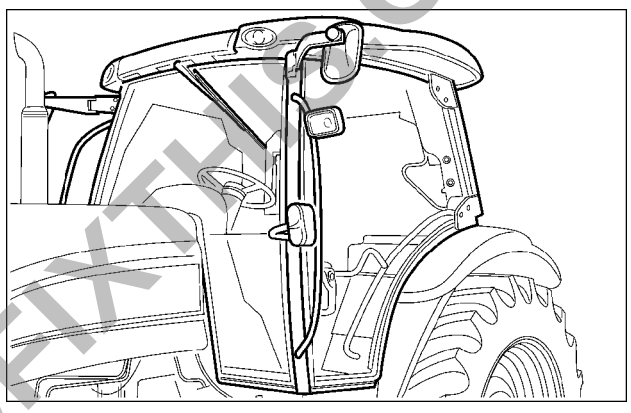
⚠ WARNING

Fall hazard!
Jumping on or off the machine could cause an injury. Always face the machine, use the handrails and steps, and get on or off slowly. Maintain a three-point contact to avoid falling: both hands on the handrails and one foot on the step, or one hand on the handrail and both feet on the steps.
Failure to comply could result in death or serious injury.

W0141A

The cab has been designed for operator protection, comfort and convenience. Inside, the frame, roof, and floor are insulated to reduce noise to a minimum.

A wide opening door on the left-hand side permits entry to the cab aided by convenient grab handles and footsteps with anti-slip treads. The door and rear window are fitted with gas struts to hold them in the fully open position. Additionally, the rear window may be retained in the partially open position for increased ventilation during operation.



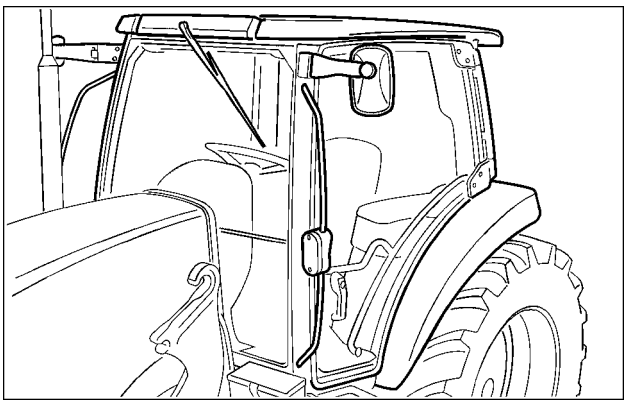
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The cab features include a fresh air heater/defroster with recirculation, air conditioning, sun visor, tinted glass, interior light, auxiliary power socket, storage facilities, interior/exterior rear view mirrors and a choice of comfortable seats.

Options include automatic climate control, high visibility roof panel, radio, rear windscreen wash/wipe and electrically operated external rear view mirrors.

Low profile cab

When fitted with optional low roof, the overall cab height is considerably reduced allowing operation in areas of restricted height. The standard specification with low roof includes fixed high visibility roof panel, air conditioning and a pre-wired disposition for the optional radio.



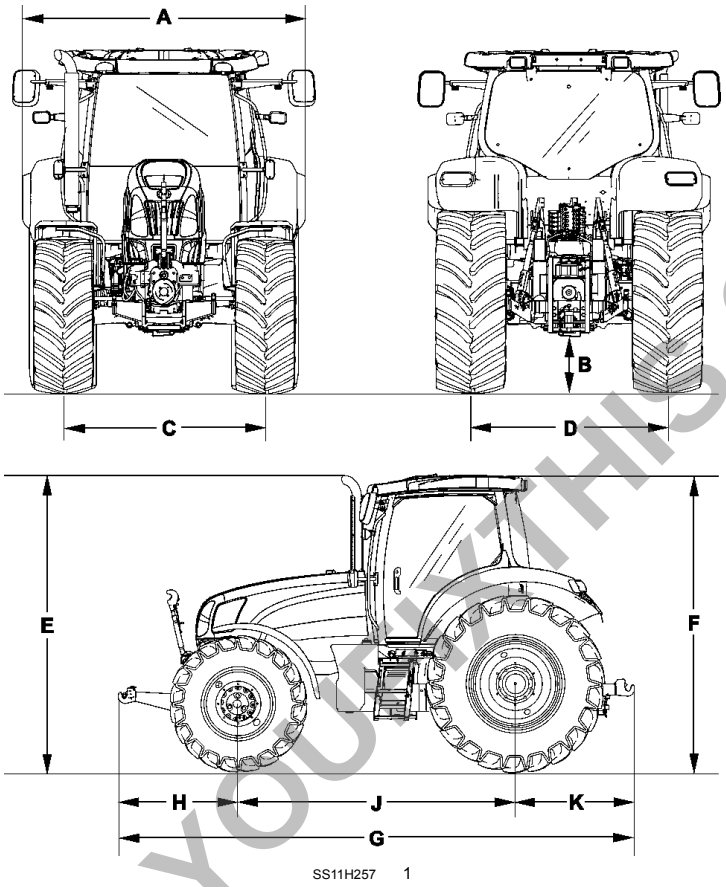
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9 - SPECIFICATIONS

General dimensions



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:*

		T6.140, T6.150, T6.160
		4WD (Standard and Suspension Axles)
The following dimensions are based on tractors with tire sizes:	Front	14.9 R28
	Rear	18.4 R38
A. Width across rear fenders		
Narrow fenders		**2170 mm** (**85.4 in**)
Wide fenders		**2350 mm** (**92.5 in**)
Wide fenders extensions		**2685 mm** (**105.7 in**)
B. Ground clearance below front axle		**521 mm** (**20.5 in**)
Ground clearance below rear axle		**502 mm** (**19.8 in**)
Ground clearance below **SuperSteer™** axle		**517 mm** (**20.4 in**)
Ground clearance below swinging drawbars		**453 mm** (**17.8 in**)
Ground clearance tow hooks/ K80 ball/piton		**453 mm** (**17.8 in**)
Ground clearance automatic pickup hitch		**377 mm** (**14.8 in**)
Ground clearance below drivline		**514 mm** (**20.2 in**)
Ground clearance below fuel tank with shield		**478 mm** (**18.8 in**)
Ground clearance below fuel tank without shield		**490 mm** (**19.3 in**)

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Maintenance action	Grease	Cleaning	Check	Drain fluid	Replace	Adjust	Change fluid	Bleed	Charging	Page no.
Change the engine air cleaner inner element	x									**7-52**
Check the valve tappet clearance			x							**7-53**
Change the DEF/AdBlue in-line filter	x									**7-53**
Change the air brake drier reservoir	x									**7-54**
Change the poly V-belts	x									**7-55**
Change the transmission oil, the rear axle oil and the hydraulic oil						x				**7-57**
EVERY 1800 HOURS OR EVERY 2 YEARS										
Change the engine breather filter	x									**7-58**
EVERY 3600 HOURS OR EVERY 2 YEARS										
Change the DEF/AdBlue main filter	x									**7-59**
EVERY 3600 HOURS OR EVERY 4 YEARS										
Change the engine coolant fluid - OAT type coolant						x				**7-60**
EVERY 36 MONTHS										
Check the air-conditioning system	x									**7-64**
GENERAL MAINTENANCE										
Cleaning the tractor				x						**7-65**
Check first stage fuel filter and water trap			x							**7-67**
Bleeding the fuel system							x			**7-68**
Hydraulic system hoses			x							**7-69**
Check the brake pedal latching/unlatching						x				**7-69**
Adjust the automatic pickup hitch						x				**7-70**
Adjust the automatic pickup hitch						x				**7-71**
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Battery removal and installation	x									**7-83**

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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.

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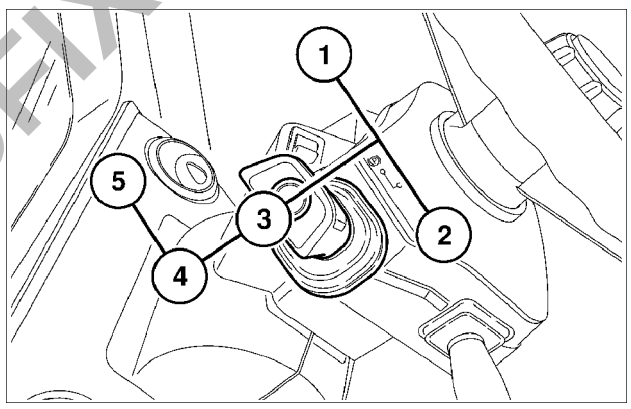
Before starting the engine, always carry out the following procedure:

- Sit in the driver's seat.
- Ensure the parking brake is firmly applied.
- Ensure the travel lever is in the idle position.
- Ensure the shuttle lever is in the downward **(4)** or park position **(5)**.

NOTE: *When starting the tractor it is important not to depress or operate controls other than the ignition key or clutch pedal.*

- Ensure that the PTO knob is in the 'off' position.
- Place all remote control valve levers in neutral.
- Depress and hold the clutch pedal.

NOTICE: *The high operating speed of the turbocharger makes it essential that adequate lubrication is assured when the engine is started. Therefore, idle the engine at **1000 RPM** for approximately **1 min** before driving the tractor.*

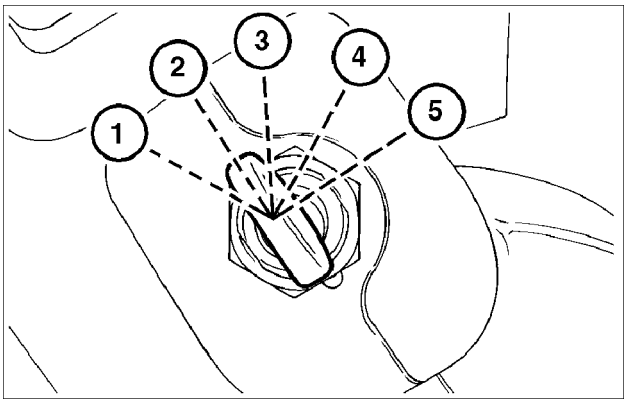


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Starting in cold weather (with a cold engine)

- Turn the ignition key clockwise to position **(4)**. An indicator light **(1)** Figure **3**, on the instrument panel will illuminate for **10 - 15 s** to show the grid heater has been activated.
- When the light extinguishes, turn the ignition key fully clockwise to position **(5)**. 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.*



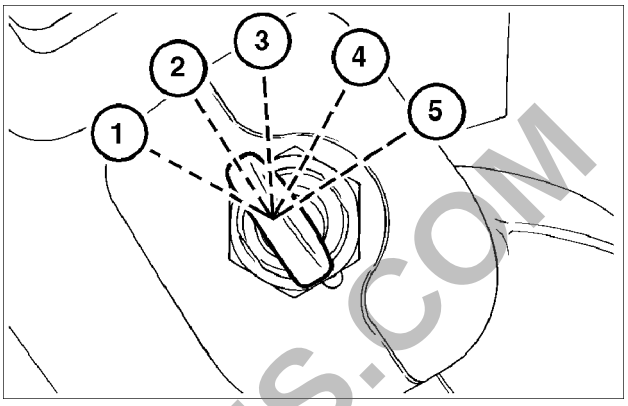
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FORWARD CONTROLS

Ignition key

The key- start switch is a five- position switch and activates the grid heater cold start device, accessories and the starting motor.



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The key- start switch positions are as follows:

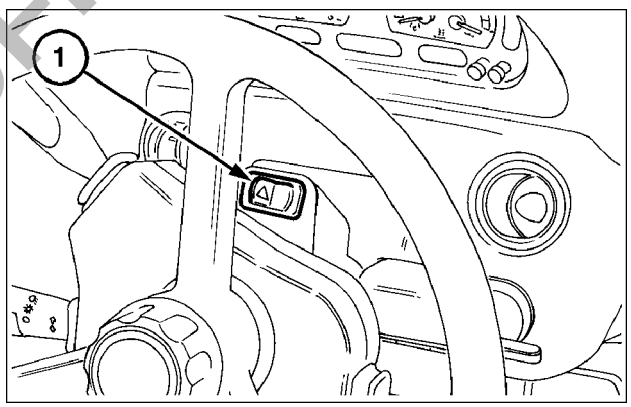
Position 1	Not used
Position 2	OFF
Position 3	Accessories ON
Position 4	Warning lights, instruments and Grid Heater ON
Position 5	Grid heater ON, Starter motor engaged

NOTICE: *Never push or tow the tractor to start the engine. Use an auxiliary battery and jump leads.*

NOTE: *Neutral start switches prevent operation of the starting motor unless the shuttle lever is in the neutral* ***(N)*** *position.*

Hazard light switch

Press the left- hand side of the switch **(1)** to operate all the turn signals simultaneously. The switch will flash with the turn signals and also the indicator lights in the instrument cluster.



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Engine

	T6.140, T6.150, T6.160		
Engine power (unboosted) at rated speed, (ECE R120)	**81 kW** (**110 Hp**)	**89 kW** (**121 Hp**)	**96 kW** (**131 Hp**)
Engine power (boosted) at rated speed, (ECE R120)	**96 kW** (**131 Hp**)	**103 kW** (**140 Hp**)	**110 kW** (**150 Hp**)
Valves per cylinder	4 valves		
Aspiration	Turbocharged and intercooled		
Bore	**104 mm** (**4.1 in**)		
Stroke	**132 mm** (**5.2 in**)		
Displacement	**4485 cm³** (**274 in³**)		
Compression ratio	17.5 : 1		
Firing order	1.3.4.2		
Rated engine speed	**2100 RPM**		
except in PTO dyno test mode or to reach full speed in gears 16 and 17	**2200 RPM**		
Low Idle Speed	**650 - 850 RPM**		
High Idle Speed	**2350 RPM**		
Valve tappet clearance (cold)			
- ntake	**0.25 mm** (**0.010 in**)		
- Exhaust	**0.51 mm** (**0.020 in**)		

Fuel system

	T6.140, T6.150, T6.160
Type	Electronically controlled, high pressure common rail
Fuel Injection Pump	Bosch CR-CP3 SL
Diesel Fuel	EN590 standards The usage of Diesel Fuel with Sulfur Content > **10 mg/kg** is NOT recommended.
Biodiesel Fuel	Approved for **20 %** Bio- Diesel fuels conforming to EN590 or EN14214 standards
DEF/ AdBlue®	DEF/ AdBlue® to standard ISO22241

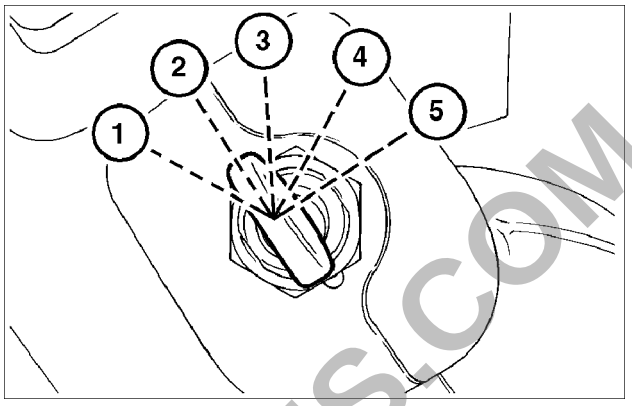
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STOPPING THE UNIT

Stopping the engine

NOTICE: *Before stopping, idle the engine at* ***1000 RPM*** *for approximately* ***1 min****. This will allow the turbo- charger and manifold to cool and prevent possible distortion of components.*



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To stop the engine, carry out the following procedure:

- Sit in the driver's seat.
- Close the throttle.
- Ensure that the parking brake is firmly applied.
- Ensure the PTO is disengaged.
- Place the remote control valve levers in the neutral position.
- Lower three-point hitch mounted equipment to the ground.
- Place the shuttle lever in the park brake position.
- Turn the ignition key to the OFF position **(2)**.

Automatic engine shut down

Before attempting to start an engine that has automatically shutdown, trace and rectify the fault that caused the engine to be stopped.

Automatic engine shutdown is operated through the Engine Control Unit (ECU). In the unlikely event that one or more of the following conditions occurs then the engine will be shut down after **30 s**.

- A critical error is detected within the engine control system.
- The generated engine horsepower attempts to exceed the specified design limit.

Should either of the above occur and the engine shuts down, consult your authorised dealer before attempting further operations with the tractor.

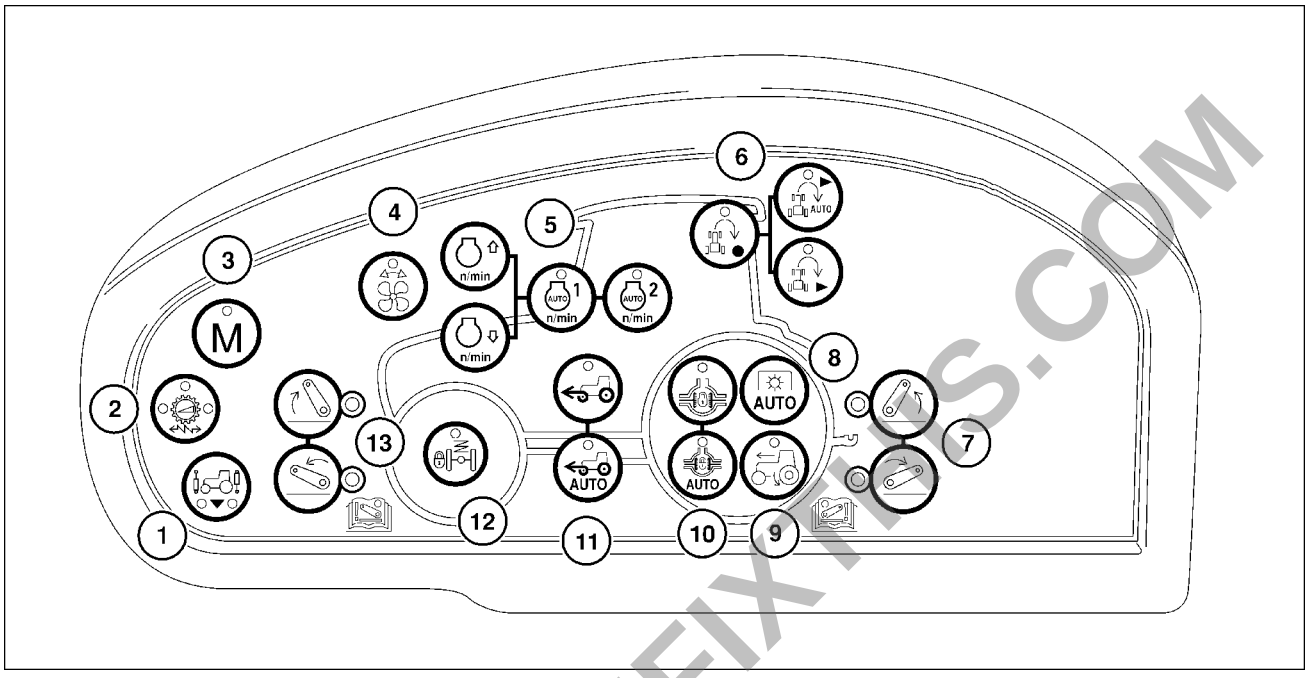
NOTE: *Automatic engine shutdown function is permanently activated and cannot be switched off.*

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RIGHT-HAND SIDE CONTROLS

Integrated control panel



SS10K056 1

Your tractor is equipped with a number of electronic control switches located on the right- hand side of the cab. Depending on the options fitted to your tractor, some of these switches may have more than one function. A full explanation of individual switch operation can be found in the relevant pages of this manual.

The grouping of the switches on the ICP in your tractor may appear different to those shown in some illustrations in Operator's Manual. However, their operation will be identical to that described.

1. Front/ rear joystick control selector
2. Auto Command acceleration rate control
3. Auto Command manual operation
4. Reversible engine fan control
5. Engine Speed Management settings
6. HTS Record/ Auto/ Manual select
7. Rear 3- point hitch EDC operation
8. Rear Auto PTO control
9. Wheel slip engagement
10. Rear axle differential lock, Auto/ Manual engagement
11. 4WD Auto or Manual engagement
12. Front axle suspension lock
13. Front 3- point hitch operation

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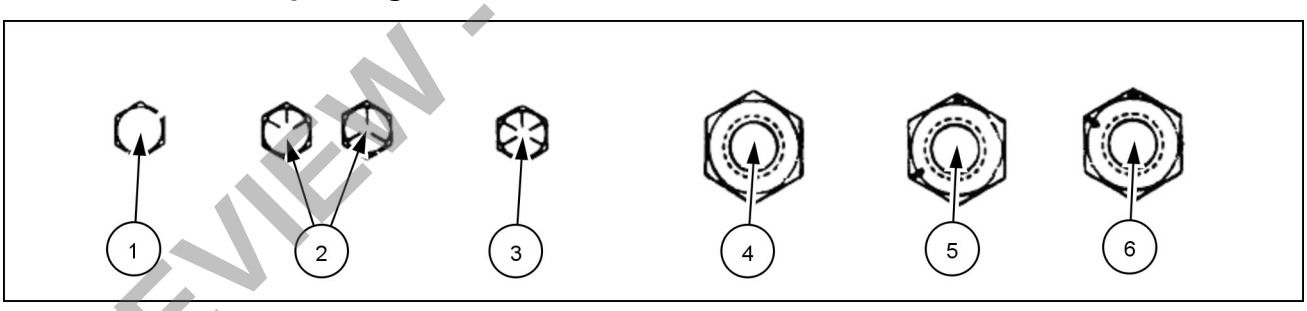
Minimum hardware tightening torques

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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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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1 - GENERAL INFORMATION

Metric and imperial units abbreviations

Typical applications	Metric unit		Imperial unit	
	Name	Symbol	Name	Symbol
Area (Land area)				
	hectare	ha	acre	ac
	square meter	m²	square foot	ft²
			square inch	in²
	square millimeter	mm²	square inch	in²
Electricity				
	ampere	A	ampere	A
	volt	V	volt	V
	microfarad	µF	microfarad	µF
	ohm	Ω	ohm	Ω
Force				
	kilonewton	kN	pound	lb
	newton	N	pound	lb
Force per length				
	newton per meter	N/m	pound per foot	lb/ft
			pound per inch	lb/in
Frequency				
	megahertz	MHz	megahertz	MHz
	kilohertz	kHz	kilohertz	kHz
	hertz	Hz	hertz	Hz
Frequency − Rotational				
	revolution per minute	r/min	revolution per minute	r/min [a]
		rpm		rpm
Length				
	kilometer	km	mile	mi
	meter	m	foot	ft
	centimeter	cm	inch	in
	millimeter	mm	inch	in
	micrometer	µm		
Mass				
	kilogram	kg	pound	lb
	gram	g	ounce	oz
	milligram	mg		
Mass per mass				
	milligram per kilogram	mg/ kg	parts per million	ppm
Power				
	kilowatt	kW	horsepower	Hp
	watt	W	Btu per hour	Btu/hr
			Btu per minute	Btu/min
Pressure or stress (Force per area)				
	kilopascal	kPa	pound per square inch	psi
			inch of mercury	inHg
	pascal	Pa	inch of water	inH2O
	megapascal	MPa	pound per square inch	psi
	millibar	mbar		
	bar	bar		

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Fire extinguisher

⚠ DANGER

Fire hazard!
Always have a fire extinguisher on or near the machine. Keep the fire extinguisher in good condition through routine maintenance and service according to the manufacturer's instructions.
Failure to comply will result in death or serious injury.

D0006A

Only operate your tractor when an approved fire extinguisher is installed.
The fire extinguisher designed location is identified on your tractor with the decal shown in the accompanying image.



SS10D343 1

Never alter its position.
Ensure to replace it or have it checked or refilled after every usage.
The fire extinguisher is intended to help the operator extinguish small fires only. It is not intended for use on a fire that is out of control, such as a fire that has reached the ceiling or the operator. Do not attempt to extinguish a fire that is too far advanced.

To check if the extinguisher is still under pressure, proceed as follows:

1. Unscrew the pressure gauge from the valve
2. The needle will go from the green area to '0' in the red area.
3. Rescrew the pressure gauge on the valve. The needle will go from '0' in the red field to the green field.

- Operate the extinguisher form a safe distance.

- Pull the Pin at the top of the extinguisher.

- Aim at the base of the fire, not the flames.

- Squeeze the lever slowly. This will release the extinguishing agent; If the handle is released, the discharge will stop.

- Sweep from side to side. Using a sweeping motion, move the fire extinguisher back and forth until the fire is completely out.

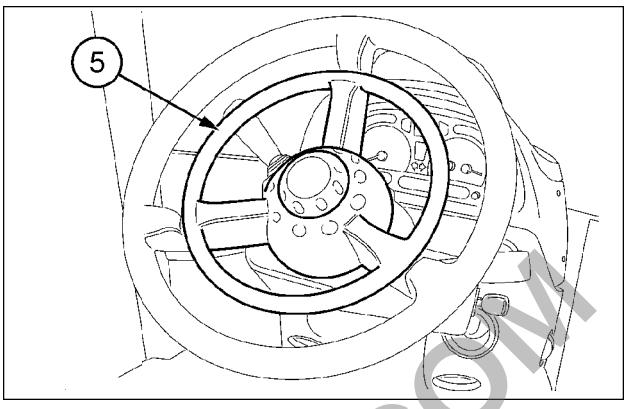
- Check for re- ignition of fire.

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Fast Steer ™ operation

To operate Fast Steer ™, depress and hold the centre ring **(5)** on the steering wheel, to disengage, release the ring. With the centre ring depressed, a yellow indicator light **(2)** Figure **4** will illuminate on the instrument panel. It will extinguish when the centre ring is released.



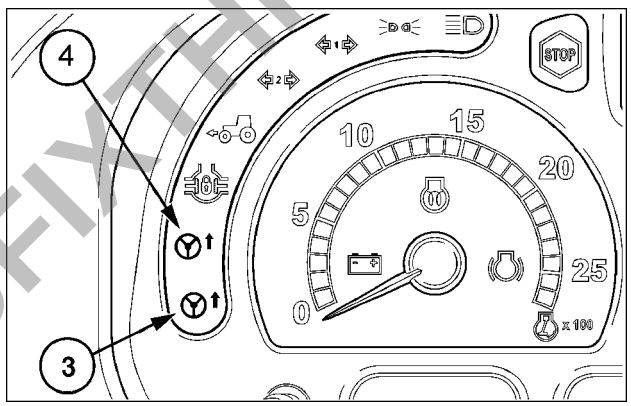
BRI3929B 3

Fast Steer ™ can only be operated if all the following conditions are met. Attempting to use the Fast Steer ™ function without meeting these conditions, will cause the yellow indicator light to flash.

1. The isolator switch is ON and the green warning light is illuminated.
2. The speed of the tractor is below **10 km/h** (**6.2 mph**).
3. The transmission oil temperature is above **5 °C** (**41 °F**).

NOTE: *Where the transmission oil temperature is low and Fast Steer ™ is to be used, it is recommended to turn the steering wheel twice, from full lock to full lock, before operating with Fast Steer ™.*

NOTE: *If tractor speed exceeds **10 km/h** (**6.2 mph**) with Fast Steer ™ in operation, it will be disengage and the green indicator light will flash.*



BRI3942B 4

Fast Steer ™ will be disabled if a fault occurs. Should the system become disabled, an audible warning will sound and an error code will appear in the instrument panel display. If the fault is of a critical nature, the 'STOP' warning lamp will also flash on the instrument panel, consult your authorized dealer.

To reactivate Fast Steer ™, depress the isolator switch to turn the system 'OFF', correct the fault, then depress the switch again to reenergize the system.

NOTICE: *To promote safe operation of Fast Steer ™, it is advised that the operator become familiar with the system before operating in the field.*

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Service

Display	Panel light	Warning light	Alarm	Cause	Action
	-	 flashing **4 s**/ continuous	-	Maintenance/ Service "Heavy"	HEAVY maintenance schedule due in 'xx' hours*.
	-	-	-	Maintenance/ Service "Light"	LIGHT maintenance schedule due in 'xx' hours*.

Lighting System

Display	Panel light	Warning light	Alarm	Cause	Action
-		-	continuous	Turn indicators not cancelled.	Cancel indicators.
-		-	continuous	Side light ON at key OFF.	Turn parking lights OFF.

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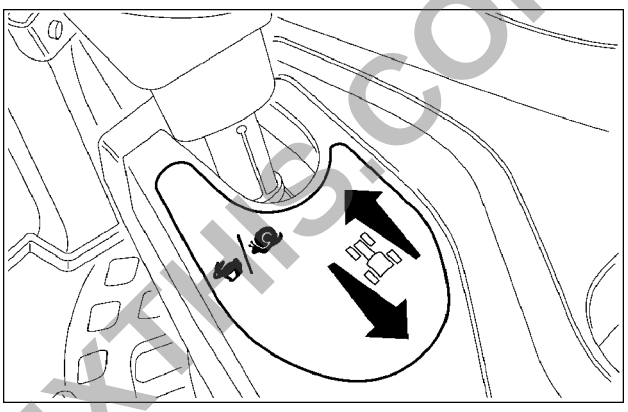
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Transmission controls

Travel lever

The Auto Command travel lever has two main functions. It is used to adjust the forward and reverse tractor speed and also acts as a shuttle control. Lever movement is momentary, it will automatically return to the rest position when released. If moved to the full extent of its travel in the forward or reverse direction the tractor will accelerate to the target speed.

Move the lever forward against spring pressure to engage forward drive, move rearwards to engage reverse drive.



BRL6115A 1

Operation of the travel lever is progressive, the further the lever is moved before it is allowed to return to the rest position, the higher the tractor speed will be.

If the lever is moved a short distance from the rest position the tractor will accelerate to the equivalent speed for that position, further movement of the lever beyond the first position will provide a faster speed.

To decelerate the tractor move the travel lever in the opposite direction to which the tractor is travelling. By moving the lever a short distance within the gate, the tractor will decelerate slowly. When the desired tractor speed is reached allow the lever to return to the rest position and the tractor will maintain that speed.

For rapid deceleration move the lever the full extent of travel and hold in that position, the tractor will decelerate quickly. For maximum deceleration also apply the tractor footbrakes. When the desired speed has been reached, allow the lever to return to the rest position. When moving the lever to the maximum deceleration position, front axle drive will be engaged to enhance the deceleration process.

To bring the tractor to a complete stop, continue to hold the lever in the maximum deceleration position until the tractor comes to a halt then return the lever to the rest position. To engage drive again, move the travel lever from the rest position to the desired direction of travel.

If tractor speed is being controlled by the foot pedal, it is possible to transfer control to the travel lever in the following way. Maintain pressure on the foot pedal and move the travel lever in the direction of travel until the tractor is felt to respond to the lever movement. Hold the lever in that position and release the foot pedal.

Allow the travel lever to return to the rest position and the tractor will maintain the current speed.

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Remote valve 3:
Depress and hold the switch **(1)** and move the joystick forwards or backwards to operate raise, neutral, lower and float.

Rear remote valve 4:
Depress and hold the switch **(1)** and move the joystick left or right to operate raise, neutral and lower.

NOTE: *The yellow and green switches can be used to operate diverter valves fitted to an implement which is connected to the front hitch if correctly wired to do so.*

NOTE: *The joystick should not be used for hydraulic motor operation.*

Move the joystick rearwards **(R)** to raise the implement. When the front hitch reaches the position set by the height limit control the hitch will stop.

Pushing the joystick forward to the 'lower' position **(L)** will cause the implement to lower to the ground at a controlled rate of descent.

Further forward movement of the joystick will select 'float' **(F)** which will allow the implement to lower under its own weight.

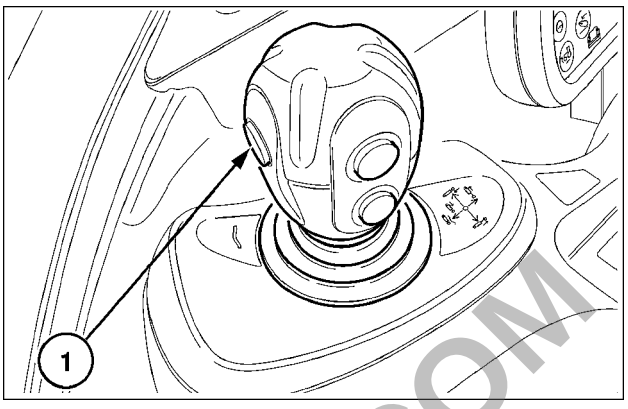
Float can also used to let the hitch lift cylinder extend or retract freely allowing front mounted equipment to follow ground contours.

NOTE: *Always use the 'float' position to lower a single-acting cylinder. The 'lower' position is for double-acting cylinders only.*

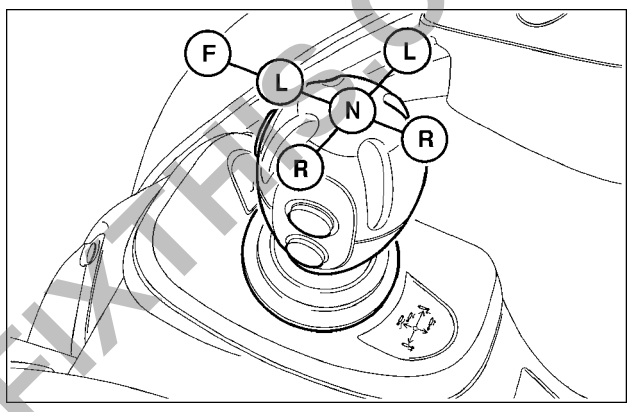
NOTE: *With the joystick operating the rear electronic remote valves, the float position for valves 2 and 4 (lateral movement of the joystick) is not available.*

The joystick may also be moved laterally, **(R)** and **(L)** to provide oil flow for equipment connected to the optional front couplers.

By moving the joystick diagonally, two cylinders may be operated simultaneously.



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BRL6119C 11

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Depending on tractor specification, the lower link will have two or three holes for attachment of the lift rods.

Attaching the lift rod in the rear hole **(3)** results in:

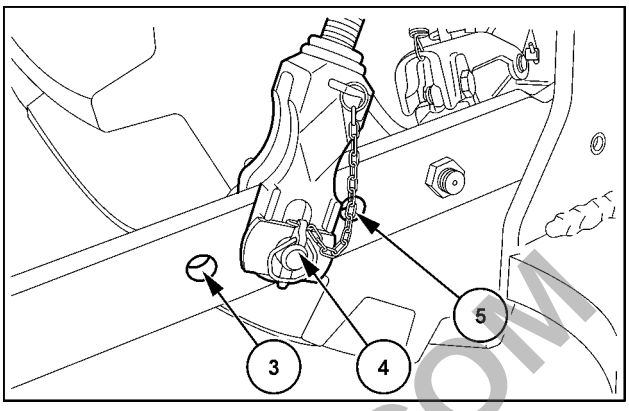
- maximum lift capacity
- maximum lift height
- reduced implement penetration

Attaching the lift rod in the front hole **(5)** results in:

- maximum implement penetration
- reduced lift capacity
- reduced lift height

Where fitted, the middle hole **(4)** offers a compromise between the optimum lift capacity, lift height and penetration.

NOTICE: *When attaching mounted or semi-mounted equipment to the three-point linkage or when coupling trailed equipment to the drawbar or automatic pickup hitch, ensure that there is adequate clearance between the implement and the cab or rear window in any open position.*



SS13F221 3

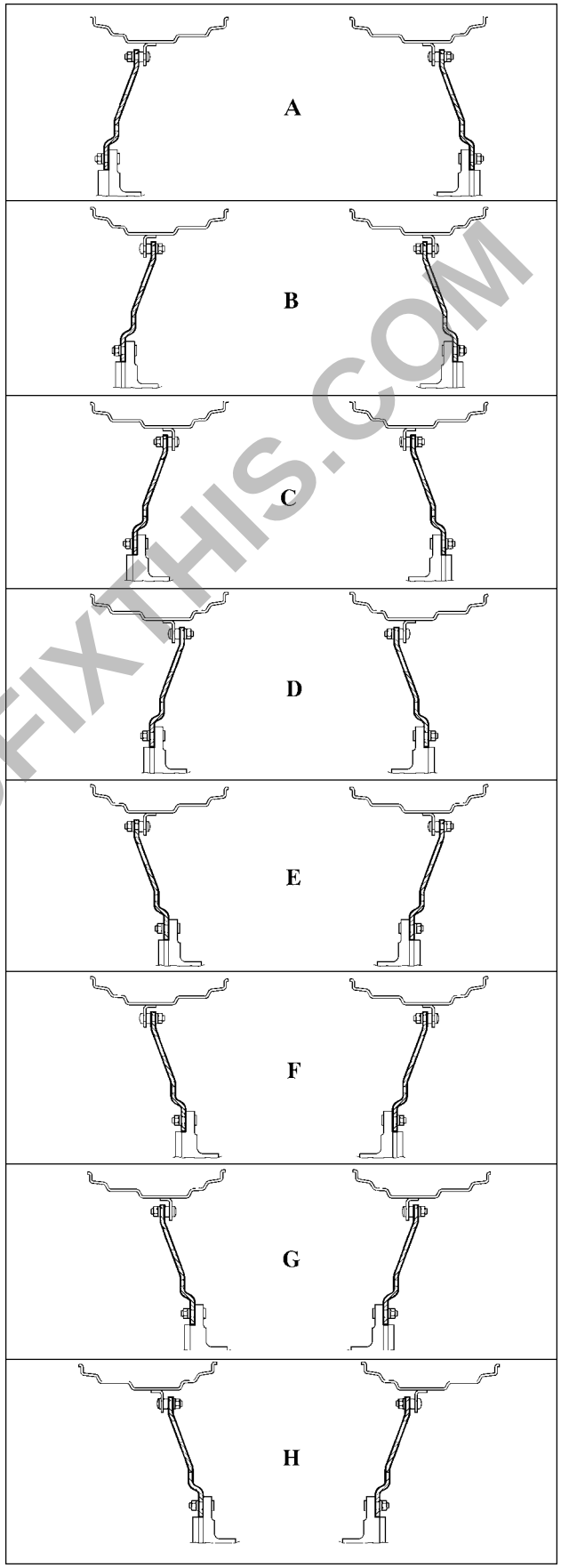
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Wheel track adjustment

with 98 in Bar axle and adjustable wheels

Wheel setting	Disc types 1 and 2 on page 6-176
A	**1470 - 2220 mm (57.87 - 87.40 in)**
B	**1570 - 2320 mm (61.81 - 91.34 in)**
C	**1674 - 2424 mm (65.91 - 95.43 in)**
D	**1774 - 2524 mm (69.84 - 99.37 in)**
E	**1870 - 2620 mm (73.62 - 103.15 in)**
F	**1970 - 2720 mm (77.56 - 107.09 in)**
G	**2074 - 2824 mm (81.65 - 111.18 in)**
H	**2174 - 2924 mm (85.59 - 115.12 in)**



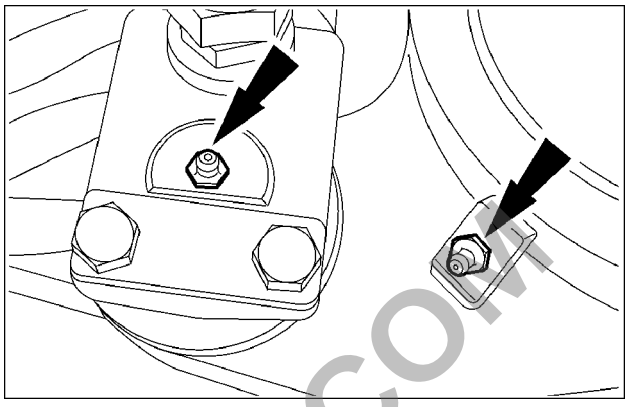
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Trunnion pin (suspended 4WD axle)

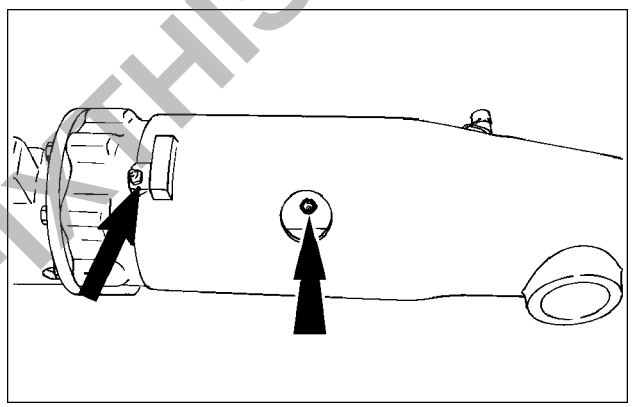
Apply a grease gun to the lubrication fittings as shown.



BAIL09MAX019AVA 7

Driveshaft universal joint (suspended axles)

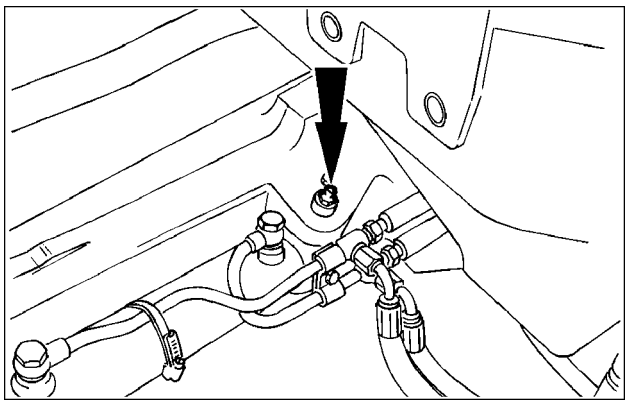
Apply a grease gun to the lubrication fittings as shown.



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Steering cylinders (all 4WD axles)

Apply a grease gun to the lubrication fittings as shown.



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No.	Amps	Circuit	No.	Amps	Circuit
12	**10 A**	Rear windscreen wiper + Front and rear windscreen washer	48	**5 A**	SCR system
13	**15 A**	Stop lights	49	-	Not used
14	**15 A**	Head light switch + flasher unit	50	**15 A**	Reversible fan
15	**20 A**	Stop light switch + pedal latch	51	**25 A**	Supply less Electronic Park Brake (EPB) relay
16	**15 A**	Supply trailer park brake relay	52	**10 A**	Instrument cluster supply ignition
17	**25 A**	IGN + to accessory sockets	53	**15 A**	Transmission control supply ignition
18	**15 A**	Blower motor, seat, armrest adjust	54	**10 A**	Rear PTO
19	**15 A**	Heated mirrors	55	**10 A**	Supply ignition for **FastSteer™** system, A/C pressure switch, Auto guidance, rear hitch switch, EHR external fender switch
20	**10 A**	Radar socket + Integrated Control Unit (ICU) + radar	56	**15 A**	Supply for front PTO armrest unit and EHRs
21	**15 A**	Water in fuel sensor + brake fluid level switch	57	-	Not used
22	**15 A**	Side lights right-hand	58	-	Not used
23	**15 A**	Side lights left-hand + licence plate light	59	-	Not used
24	**10 A**	Illumination ADIC, cigar lighter, VT, heated mirror switch, hydraulic master switch	60	**10 A**	Timer relay battery isolator
25	**15 A**	Dip beam head lights, Follow Me Home	61	**5 A**	Universal controller (UCM)
26	**15 A**	Main beam head lights	62	-	Not used
27	**30 A**	Front work lights (hood)	63	**10 A**	Universal controller (UCM)
28	**20 A**	Work light roof rear	64	**20 A**	Universal controller (UCM)
29	**30 A**	Work light roof front + grabrail	65	**7.5 A**	Universal controller (UCM)
30	**15 A**	Work lights C-pillar	66	**10 A**	Universal controller (UCM)
31	**15 A**	Beacon ECU	67	**10 A**	Universal controller (UCM)
32	**15 A**	Flasher unit	68	**10 A**	Universal controller (UCM)
33	**10 A**	Diagnostic connector 1	69	**10 A**	Universal controller (UCM)
34	**10 A**	Instrument cluster + hand brake switch	70	**5 A**	Universal controller (UCM)
35	**10 A**	Electronic controller (potential 30)	91	**10 A**	Non isolator Keep Alive Memory (KAM)
36	**15 A**		92	**10 A**	Battery isolator control

NOTE: *Fuse numbers 91 and 92 are used as a link and are identified on the chart as fuses L1 and L2. Only one fuse will be fitted depending on tractor specification.*

Relay descriptions

No.	Function	No.	Function
K1	Front windscreen wiper module	K2	Rear windscreen wiper module
K3	Ignition relay	K4	Side lights and lighting
K5	Starter	K6	Blower motor
K7	Dip beam headlights	K8	Stop lights
K9	Main beam headlights	K10	Hydraulic trailer brake power supply
K11	Supply trailer park brake	K12	Pneumatic trailer brake power supply
K14	Follow Me Home	K15	Work light hood
K16	Work light C-pillar	K17	Power supply ignition ECUs
K18	Electrical battery isolator	K19	A/C clutch
K20	Power supply EHRs	K21	Battery isolator **4 min** timer
K22	Heated mirror timer		

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