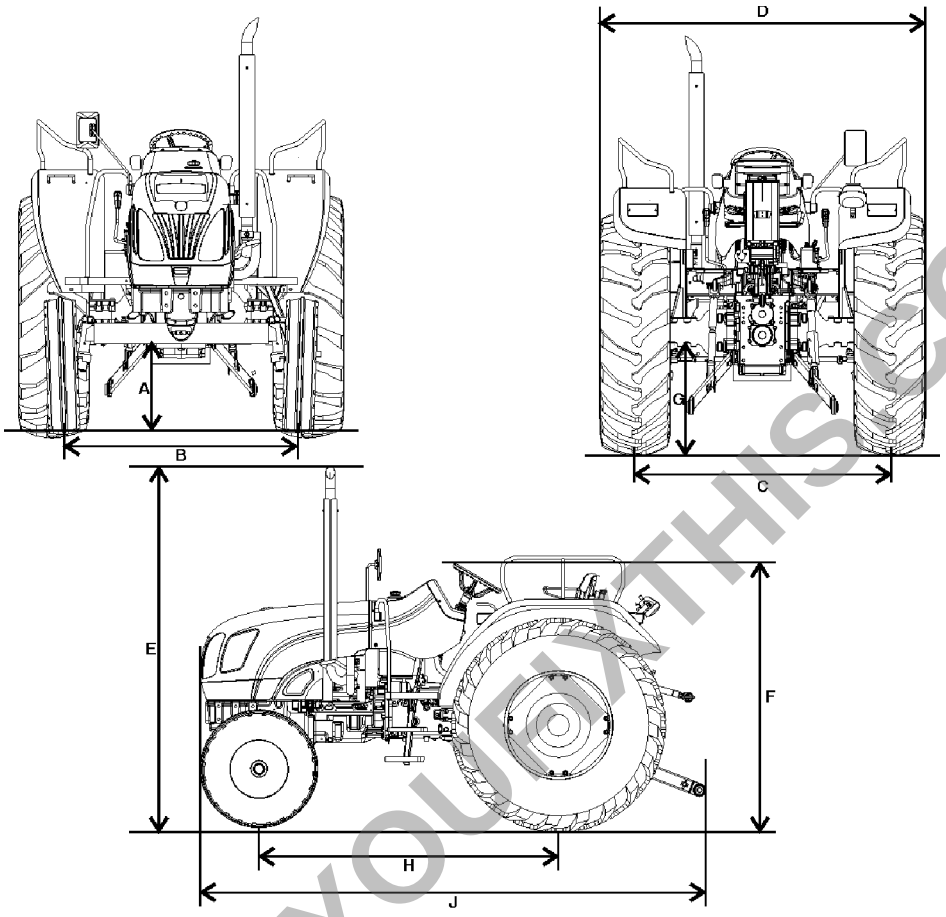
LUBRICATION AND MAINTENANCE SCHEDULE

Hours Operated	Operation No.	Maintenance Requirements	CHECK	CLEAN	LUBRICATE	CHANGE	ADJUST	DRAIN	TOPUP	PAGE NO.
Every 10 hours or daily	1	• Engine oil level	X	.	.	.	.	.	X	4-7
	2	• Radiator coolant level	X	.	.	.	.	.	X	4-7
	3	• Air precleaner	X	X	.	.	.	.		4-8
	4	• Water drain plug (fuel filters)	.	.	.	.	.	X	.	4-9
Every 50 hours or weekly	5	• Air precleaner	.	X	.	.	.	.	.	4-10
	6	• Clutch pedal free play	X	.	.	.	X			4-10
	7	• Brake pedal free play	X	.	.	.	X			4-11
	8	• Wheel, nuts and bolts	X	.	.	.	X			4-12
	9	• Tyre pressure	X	.	.	.	X			4-12
	10	• Fan / alternator belt tension	X	.		.	X			4-12
	11	• All greasing points	.	X	X					4-13
	12	• Battery electrolyte level	X	.	.	.	.	.	X	4-15
	13	• Front axle housing 4WD	X	.	.	.	.	.	X	4-15
Every 300 hours	14	• Dry air cleaner outer element or light glows	.	X	.	.				4-16
	15	• Fuel filter (Primary)	.	.	.	X				4-18
	16	• Fuel feed pump filter	.	X	.	.				4-19
	17	• Engine oil and filter	.	.	.	X				4-20
	18	• Common oil level (Transmission / Hydraulics / Steering)	X	.	.		.	.	X	4-21
	19	• Hydraulic oil filter	.	.	.	X				4-22
	20	• Front axle reduction hubs 4WD	.	X	.		.			4-22
	21	• Front axle swivel bearings 4WD	.	X	X		.			4-22
	22	• Drive shaft sleeve for 4WD front axle	.	X	.					4-23
	23	• Pto clutch lever free play	X				X			4-23
Every 600 hours	24	• Fuel filter (Primary and Secondary)	.	.	.	X				4-24
	25	• Valve tappet clearance	X	.	.	.	X			4-24
	26	• Transmission breather	.	X						4-24
	27	• Front wheel bearings	.	X	X					4-25
	28	• Fuel Injectors	X	.	.	.				4-26
	29	• Toe-in	X	.	.	.	X			4-26
Every 1200 hours or 12 months, whichever occurs earlier	30	• Common oil level (Transmission / Hydraulics / Steering)	.	.	.	X				4-27
	31	• Radiator and coolant	.	.	.	X				4-28
	32	• Front axle housing oil, 4WD	.	.	.	X				4-29
	33	• Front axle final drive hubs oil, 4WD	.	.	.	X				4-30
	34	• Brake oil (If applicable)	.	.	.	X				4-30
	35	• Clean the fuel tank	.	X	.					4-30
General Maintenance	36	• Bleeding the fuel system	.	.	.	.	X			4-31
	37	• Engine idle speed	X	.	.	.	X			4-31
	38	• Head light and worklamp adjustment		.	.	.	X			4-32
	39	• Bulb replacement, if required	X	.	.	X				4-33
	40	• Fuse replacement, if required	.	.	.	X				4-33

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GENERAL DIMENSIONS



NOTE: *The following dimensions are based on* ***standard*** *tractors fitted with tyre sizes as shown. Allowance must be given for tyres of larger or smaller dimensions.*

			TT4.55 (2WD)	TT4.65 (2WD)	TT4.75 (2WD)
The following dimensions are based on tractors with tyre sizes shown :		Front	7.50x16	7.50x16	7.50x16
		Rear	16.9x28	16.9x30	18.4x30
A	Ground clearance under differential housing	mm	504	504	504
		in	19.8	19.8	19.8
B	Front track width (Std.)	mm	1410	1410	1410
		in	55.5	55.5	55.5
C	Rear track width (Std.)	mm	1536	1536	1620
		in	60.4	60.4	63.7
D	Overall width (Std.)	mm	1965	1965	2041
		in	77.3	77.3	80.3
E	Height to top of Exhaust	mm	2435	2464	2487
		in	95.8	97	97.9

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STARTING THE ENGINE

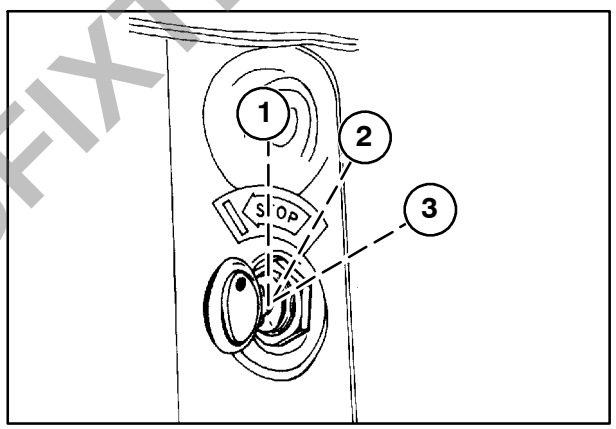
Before starting engine, always carry out following procedure:

- Get into the tractor from left hand side only.
- Sit on the operator seat.
- Ensure that shuttle lever is in neutral.
- Ensure that PTO is disengaged.
- Press the clutch pedal.

IMPORTANT: *Never push or tow the tractor to start engine. Doing so may overstress the drive train.*

NOTE: *Neutral start switch prevents operation of the starting motor unless the shuttle lever is in the neutral position.*

Figure 2



2

A three-position ignition switch is provided. Positions of ignition switch are as follows :

Position 1	Electrical equipment Off
Position 2	Accessories on (Head lamp, Instrument cluster, horn and gauges.)
Position 3	Starter motor engaged

Starting in warm weather or when the engine is hot

- Ensure shuttle lever and both gear levers are in neutral, press clutch and turn the ignition switch fully clockwise to position (3) to operate the starting motor. Crank the engine and do not operate the starter motor for more than 10 seconds. When engine starts, allow the key to return to position (2).
- Return the hand throttle lever to the idle position. Check that all warning lights are off and gauge readings are normal.

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INSTRUMENT PANEL, GAUGES, AND WARNING LIGHTS

The instrument panel (Fig. 3) comprises of three gauges and eight coloured indicators, which provide operating information or give warning about system malfunction.

The indications on instrument cluster are illuminated when Ignition switch is turned on to position -2 fig (2) on page 3-5

Please refer Figure 3 and the following text. For more information on gauges & indications :-

Tachometer (1)

Tachometer indicates engine revolutions per minute (RPM). Each division on the scale represents 100 RPM, therefore with the needle indicating '20' the engine is running at '2000' RPM.

PTO symbol on the tachometer scale indicates the PTO RPM with respect to the engine RPM.

A. Economy PTO (1715 ERPM)

B. Normal PTO (2198 ERPM)

C. 1000 RPM PTO (2381 ERPM)

Right Turn Indicator (2)

The blinking GREEN light indicates the direction of turning to right hand side. The light will flash in unison with tractor right hand turn signal.

Water Temperature Gauge (3)

Water temperature gauge indicates the temperature of the engine coolant. If the needle enters the right-hand (red) section of the gauge while the engine is running bring the engine to idle RPM and run for some time before switching off the engine to investigate the cause.

NOTE : *When engine is switched off, the gauge needle will assume an initial position.*

Digital Hour Meter (4)

Reading of the digital Hour Meter indicates the hours the tractors has run.

Engine oil pressure (5)

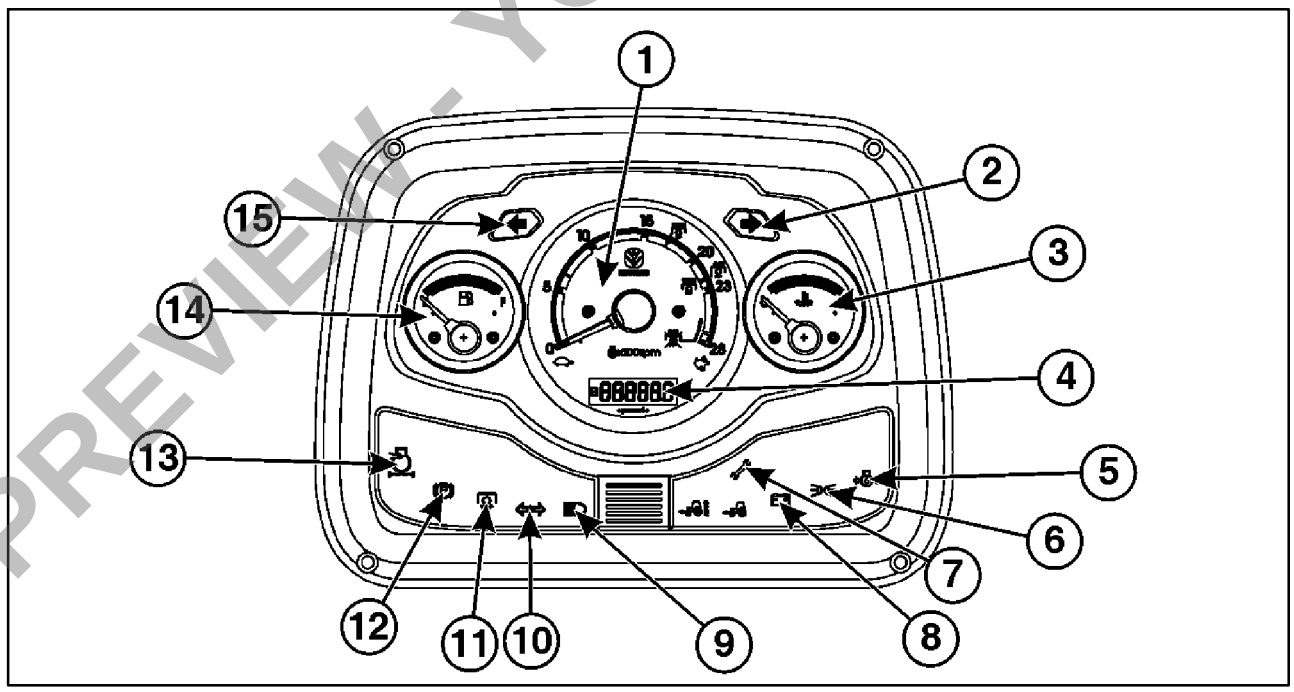
Steady light indicates low engine oil pressure. Stop the engine and investigate the cause. See Maintenance (Section-4).

Position Lights (6)

With the ignition switch in 'ON' position a GREEN light indicates that the position lights are illuminated.

Service Reminder (7)

An illumination of spanner shape on instrument cluster indicates that your tractor is due for service. You should take your tractor to the nearby authorised dealer for the sechduled service.

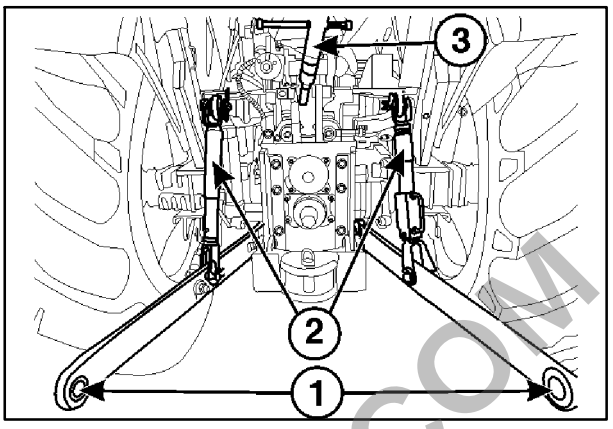


3

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THREE POINT LINKAGE



16

Figure 16

NOTE: *Before attaching equipment read the following text carefully.*

IMPORTANT: *Ensure that stabilizers / check-chains are adjusted to suit the implement.*
Remove the swinging drawbar, if close mounted equipment is being attached.

Description

Three point linkage enables semimounted and fully mounted implements to be connected to the tractor and be controlled by the tractor hydraulic system. The linkage consists of two lower links (1) connected to the rear axle housing. Rear end of the lower links is connected to the lower hitch pins on the implement.

Lower links are raised and lowered by means of lift rods (2) connected to the lift arms. Right hand lift rod is adjustable so as to ease the attachment of implements and to level the implement after attaching.

Top link (3) is connected to a bracket on the hydraulic lift housing. Rear of the top link should be connected to the upper hitch pin of the implement. Top link is also adjustable to aid implement setting.

⚠ WARNING ⚠

Always use Position control lever while attaching, detaching or transporting equipment.

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ENGINE

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine fails or difficult to start	• Incorrect starting procedure.	• See starting procedure
	• Tractor in gear.	• Put shuttle lever in neutral.
	• Fuel level low or empty.	• Check fuel level & fill
	• Air in fuel system.	• Bleed fuel system.
	• Fuel system choked.	• Contact your authorised dealer.
	• Fuel filter clogged.	• Replace filter.
	• Fuel pump injector faulty.	• Contact your authorised dealer.
Improper engine runing or stalls after start	• Fuel filter clogged	• Replace filter
	• Poor diesel quality	• Drain tank and fill with filtered diesel
	• Fuel system choked.	• Contact your authorised dealer
	• Fuel injector faulty.	• Contact your authorised dealer
Engine does not achieving maximum power	• Engine overloaded.	• Change to lower gear or reduce load.
	• Air cleaner dirty.	• Carry out maintenance on air cleaner.
	• Fuel filter clogged.	• Replace filter.
	• Engine overheating.	• See engine overheating.
	• Low engine operating temperature.	• Check thermostat.
	• Fuel injector faulty.	• Contact your authorised dealer.
	• Tappet clearance incorrect.	• Get it adjusted by your authorised dealer.
	• Throttle control lever mechanism faulty	• Contact your authorised dealer.
	• Turbo charger not function	• Contact your authorised dealer.

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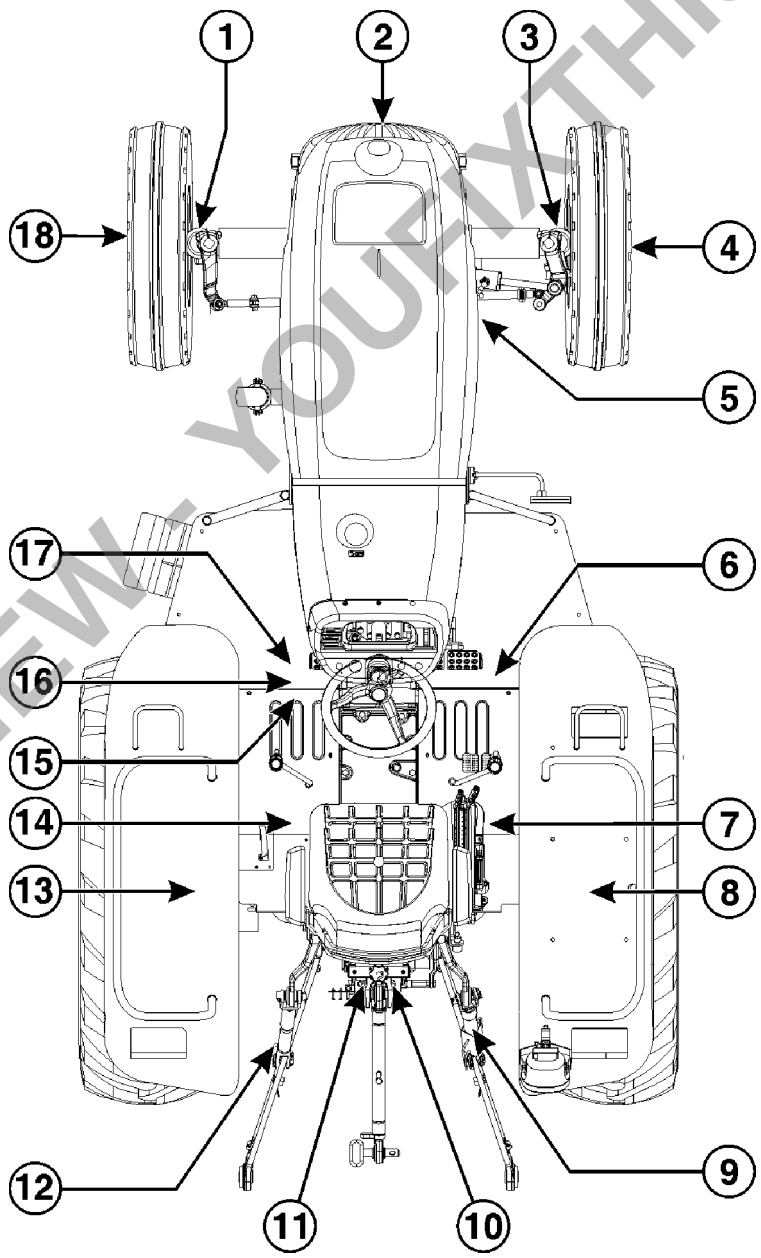
OPERATION 11

Apply grease with the help of a grease gun to the lubrication fittings. Use only genuine tractor grease (Recommended)

NOTE: *Grease daily when operating in adverse conditions, but do not over grease, as it can cause damage to seals.*

Grease Fittings - 2WD

1. Front axle spindle LH
2. Front axle pivot pin
3. Front axle spindle RH
4. Front axle hub RH
5. Steering cylinder pin
6. Brake pivot 1-RH
7. Brake pivot 2-RH
8. Rear axle RH
9. Lift link RH
10. Hydraulic rocker
11. Hydraulic rocker pivot pin
12. Lift link LH
13. Rear axle LH
14. Brake pivot 2-LH
15. Brake pivot 1-LH
16. PTO clutch pivot
17. Clutch shaft
18. Front axle hub LH



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ENGINE		TT4.55	TT4.65	TT4.75
Make		IVECO		
Model		S8000		
Type		Water cooled, four stroke, direct injection, Turbo charged, diesel engine		
Max. PTO Power	Kw	36.6	42.5	48.5
Number of cylinders		3		
Bore	mm	104		
Stroke	mm	115		
Cubic capacity	cm^3	2931		
Compression ratio		18:1		
Firing order		1-2-3		
High Idle speed	RPM	2525±75		
Low Idle speed	RPM	650±50		
Rated speed	RPM	2300		
Tappet clearance				
Intake, Exhaust (Cold)	mm	0.30		
Intake, Exhaust (Hot)	mm	0.30		

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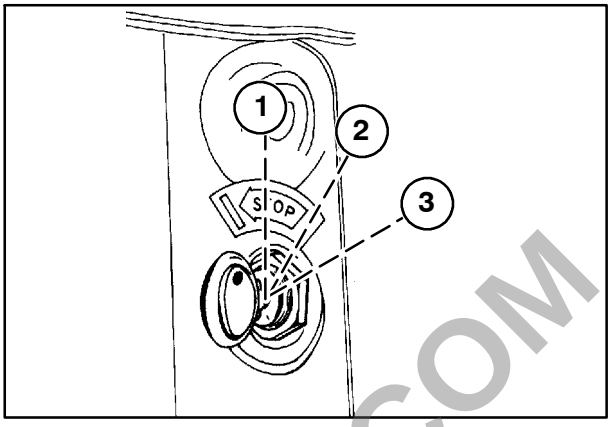
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STOPPING THE ENGINE

Figure 3

To stop engine, carry out following procedure:

- Remain on the operator seat.
- Bring the hand throttle lever to the idle position and run engine at idle RPM for about a minute.
- Ensure that all three levers are in neutral and that the PTO lever is in the disengaged position.
- Apply the parking brake.
- Move the hydraulic levers fully forward to lower all hydraulic equipment to the ground.
- Bring the key start switch to position 1.



3

⚠ WARNING ⚠

Check the area under implement to ensure that no injury or damage will be caused when implement is lowered.

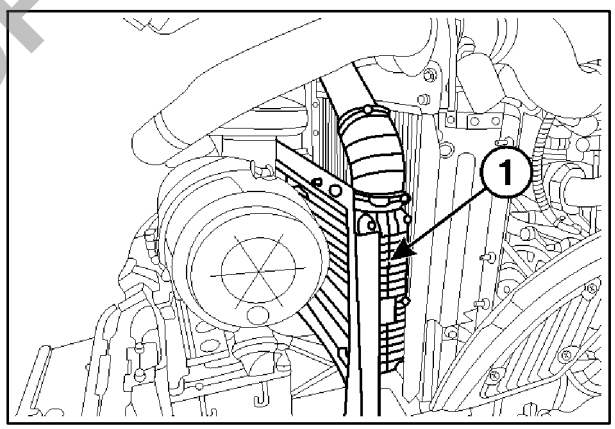
AFTER COOLER

Figure 4

Function of an after cooler is to keep intake air temperatures as low as possible and controls NOx. After cooling enables an engine to meet emissions regulations with better fuel economy and lower installed costs.

Ensure that there are no leakages from the inlet and outlet hoses of the after cooler as that can lead to serious engine damage.

Keep the after cooler fins clean and check them periodically(based on type of operation)for cleanliness. Also check that gap between after cooler and radiator is maintained and avoid accumulation of any dirt/particles in between these two.



4

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HAND CONTROL AND SWITCHES

Figure 4

Hand Throttle Lever (1)

Hand throttle lever should be used during the field operation.Push the lever up to increase the engine speed and down to reduce it.

Horn Button (2)

Press the horn button for warning arrival.

Head Light Switch Positions (3)

Head light switch consists of four positions (Refer Fig. A).

Ignition Switch (4)

The ignition switch activates electrical equipment, lights, gauges and starting motor.

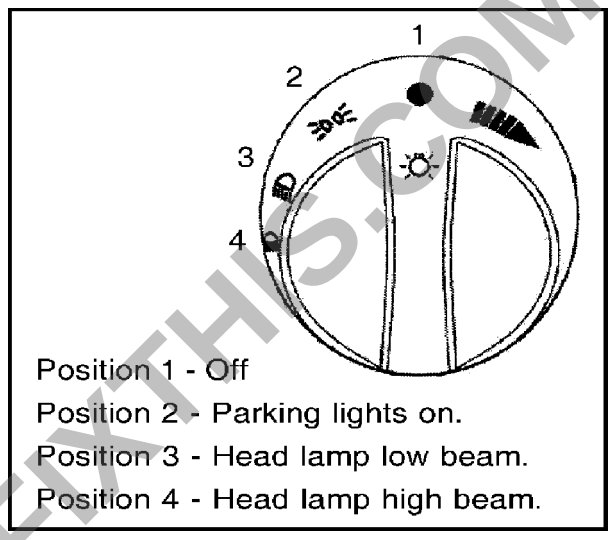
Mobile Charger Socket (5)

Socket 12V/10 Amp. is given to connect mobile charger.

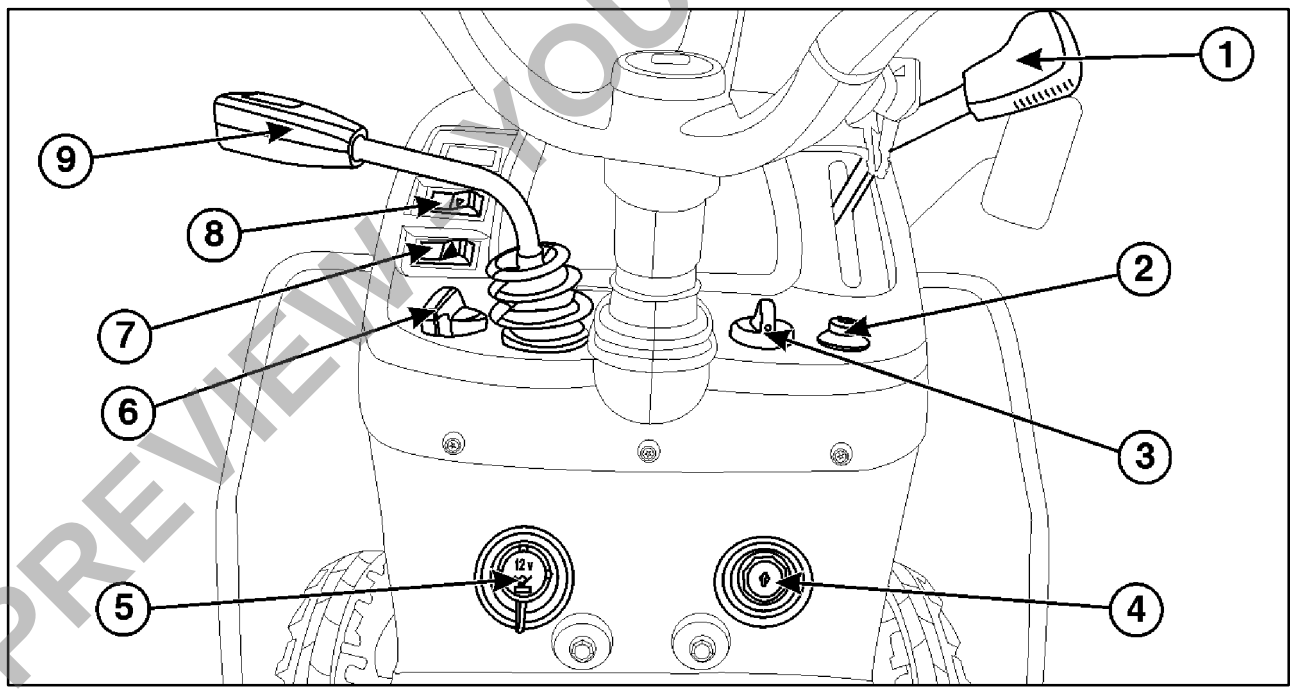
Turn Signal Indicator Switch (6)

Turn indicator switch indicates turn signals and should be moved on to right to operate right turn indicator light and left to operate the left turn indicator light.

NOTE : *The turn signal will operate only when the ignition switch is turned on*



A



4

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TOWING ATTACHMENTS

⚠ WARNING ⚠

- *Towing hitch should be selected according to type of trailer or implement to be towed and in accordance with local regulations.*
- *Tractor drivability and safety depend to a great extent on correct adjustment of towing hitch. Avoid towing excessively heavy loads or trailers.*
- *After starting, release clutch slowly to prevent sudden jerks on trailer or implement.*
- *If trailer brakes are fitted, brake trailer first and then the tractor.*

Swinging Drawbar (If fitted)

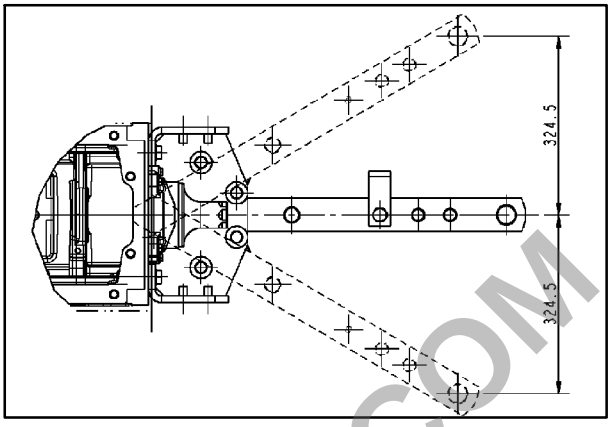
Figure 27, 28 & 29

Use swinging drawbar to tow agricultural implements and four wheeled trailers, but do not tow two wheeled trailers.

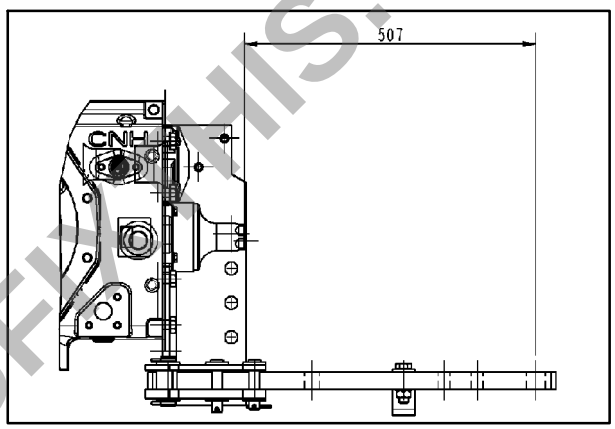
Swinging drawbar length can be adjusted by inserting pin in holes as shown in Figure 27.

Swing may be adjusted by means of pins

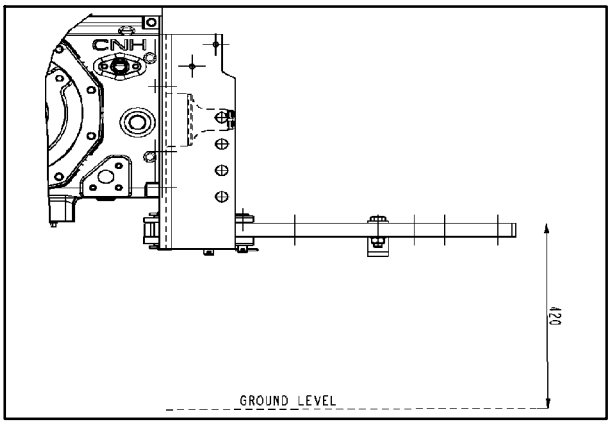
Drawbar clevis positions with respect to the PTO shaft are shown in Figure 28. Adjust draw bar height by selecting appropriate locations of the support frame or by reversing the drawbar clevis.



27



28



29

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HYDRAULIC SYSTEM

PROBLEM	POSSIBLE CAUSE	SOLUTION
The hydraulic system is not working properly.	• Oil level low. • Hydraulic filter clogged. • Hydraulic system faulty. • Hydraulic lift pump not functioning properly.	• Top up the oil. • Replace hydraulic filter. • Contact your authorised dealer. • Contact your authorised dealer.
Auxillary control does not work	• Hoses not connected correctly • System overload • Incorrect couplings	• Connect hoses correctly • Reduce load or use a suitable cylinder. • Correct couplings

HYDRAULIC LIFT AND THREE-POINT LINKAGE

PROBLEM	POSSIBLE CAUSE	SOLUTION
The linkage does not raise when the control lever is actuated	• Linkage not connected properly. • Low pressure setting. • Linkage over loaded	• Contact your authorised dealer • Contact your authorised dealer • Contact your authorised dealer
Linkage does not lift fully	• Incorrect setting of hydraulic lift arms • Internal adjustments.	• Contact your authorised dealer • Contact your authorised dealer
The linkage lowers slowly	• Linkage rusty or bushing jammed. • Lowering speed control incorrectly set.	• Clean joints of linkage / lubricate bushes • Contact your authorised dealer
The hydraulic lift operates slowly in draft control.	• Combined draft/position control incorrectly set. • Lowering speed too slow. • Implement not working properly	• Adjust combined draft / position control. • Contact your authorised dealer • Adjust implement settings.
The hydraulic lift operates too fast in draft control.	• Combined draft/position control incorrectly set.	• Contact your authorised dealer

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