MF 1531 Tractor
Operator's Manual
1857 712 M1

Operator's Manual



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FIG. 6: A fire extinguisher and first aid box should be carried with the tractor or be kept readily available at all times. Consult your Dealer.

Note where fire extinguishers and first-aid or emergency equipment are kept and get to know where to get help in a hurry. Make sure you know how to use this equipment.

Clear the area before operation.

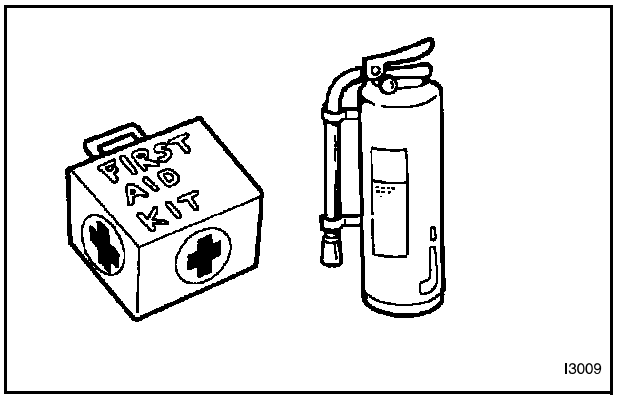


FIG. 6

FIG. 7: DO NOT carry passengers

DO NOT permit others to ride on the tractor or on any implement or attachment connected to, or installed on tractor.



FIG. 7

FIG. 8: Beware of bystanders, particularly children. Always look around to make sure that everyone is clear before starting the engine or moving the tractor. This is particularly important with higher noise levels as you may not hear people shouting.

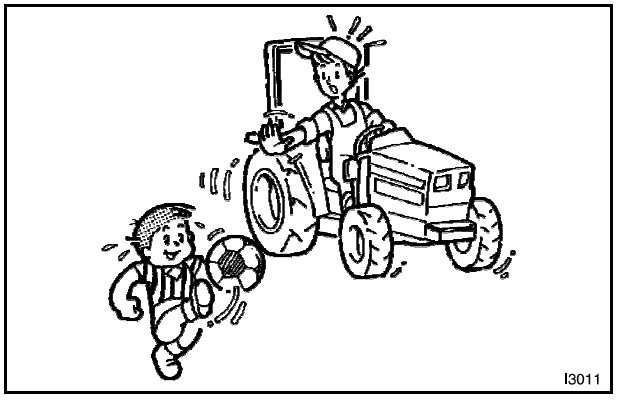


FIG. 8

FIG. 9: When dismounting and/or leaving the operator's seat FOR ANY REASON, always:

1. Disengage PTO drive.
2. Lower implements, attachments to ground.
3. Shut off engine.
4. Apply parking brake securely.
5. Select transmission lever(s) to neutral.
6. Remove the key.

Do not attempt to service machine, clear obstructions or unplug blockages with the engine running. Always shut off engine and allow all motion to cease.

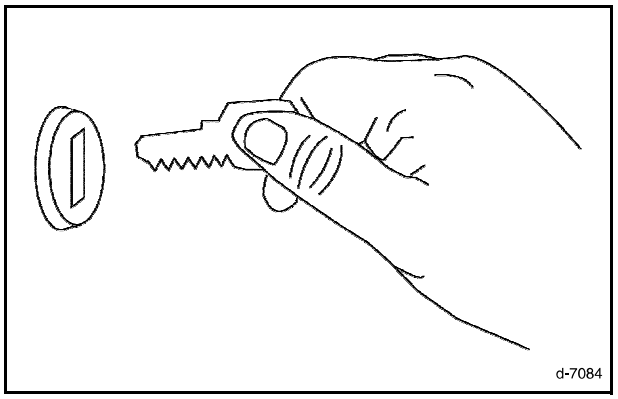


FIG. 9

FIG. 34: DANGER High pressure steam and hot water.

Never remove the radiator cap during or just after operation. The water in the radiator is very hot and highly pressurised, which can cause burns.

Order part number 3905712M1.

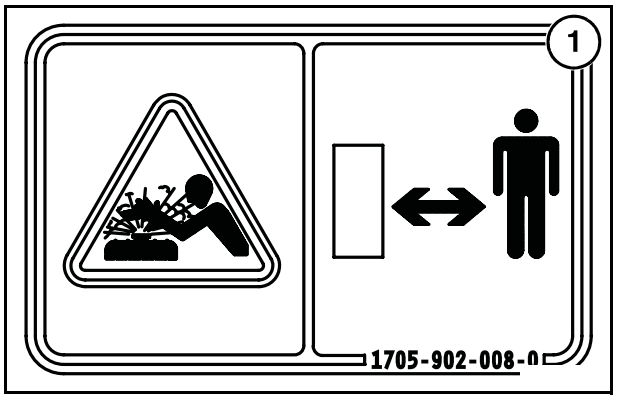


FIG. 34

FIG. 35: WARNING Risk of explosion

Ether or other starting fluid should never be used to start engines equipped with glow plugs.

Order part number 3905705M1.

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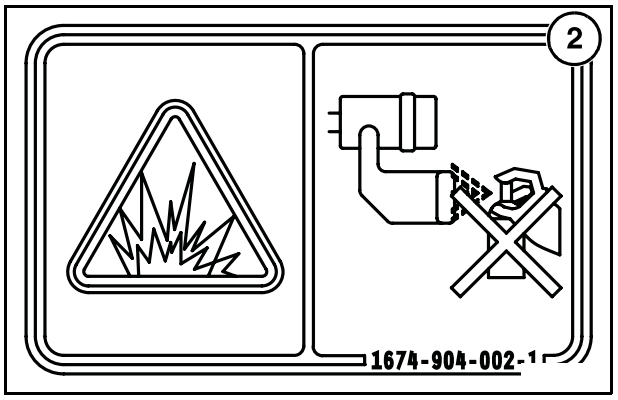


FIG. 35

FIG. 36: Battery Label - Do not charge or use booster cables or adjust post connections without proper instruction and training.

Order part number 3905714M1.

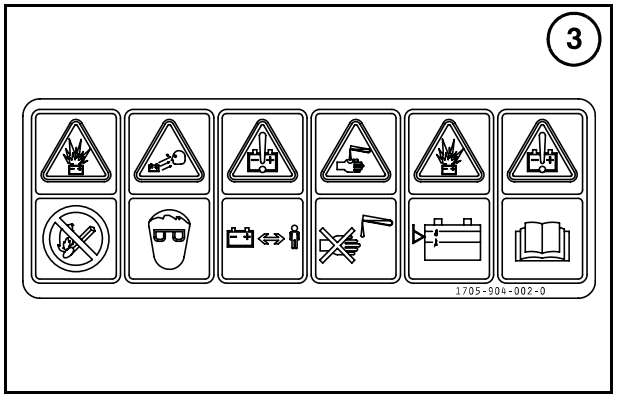


FIG. 36

FIG. 37: WARNING - Risk of Electric Shock. When disconnecting the battery, remove the negative terminal first. When fitting the battery, connect the positive terminal first.

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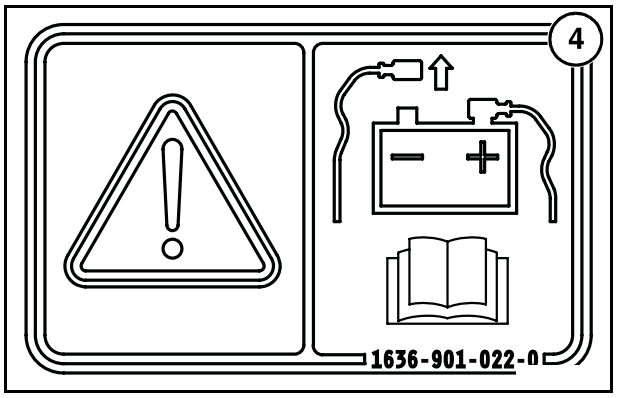


FIG. 37

Indicator Light Strip

FIG. 57: Indicator light strip contains several indicator lights to monitor certain functions. Currently used positions are as follows:

(1) Battery Charge - Illuminates when main switch is turned ON and will go out after engine starts, to indicate battery is being charged.

(2) Engine Oil Pressure - Illuminates if engine oil pressure is low. If the light comes on while engine is running, shut off engine immediately and investigate cause.

(3) Main (High) Beam - Illuminates when head lamps in front grill are selected to high beam position by light switch.

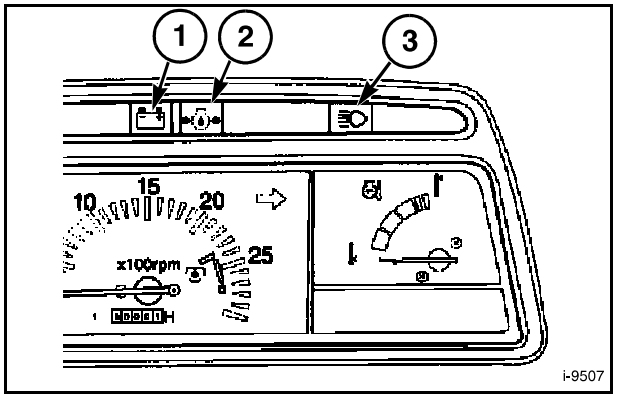


FIG. 57

Coolant Temperature Gauge

FIG. 58: The gauge indicates engine coolant temperature when main switch is selected to ON.

(1) Cold (blue area on gauge) - Indicates temperature too cool for severe work. Allow to warm (needle in mid position) before applying heavy load.

(2) Hot - Indicates over-heating (red area on gauge). Reduce engine speed to idle, allow to run at no load several minutes, shut off engine and investigate cause. Refer to the Troubleshooting section.

CAUTION: Do not service hot engine. Allow to completely cool before servicing or removing radiator cap.

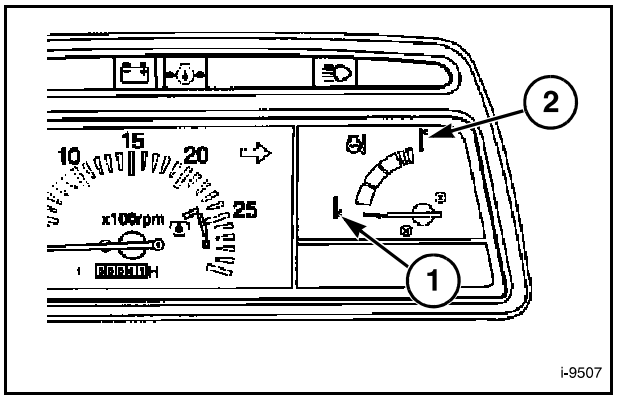


FIG. 58

Tachometer

FIG. 59: The tachometer (1) indicates engine speed in crankshaft revolutions per minute (rpm). An index is also provided to show rear PTO speed of 540 at approximately 2300 engine rpm.

Normally the rear PTO speed should be between 540 and 600 rpm. PTO should not be operated at speeds above 600 rpm, which may result in a breakdown of the tractor or implement.

The PTO overspeed range is indicated on the tachometer by a red line.

Hourmeter

The engine hourmeter (2) in the centre of the tachometer gauge indicates engine and tractor use to assist in maintenance intervals. The extreme right digit indicates 1/10 hour increments.

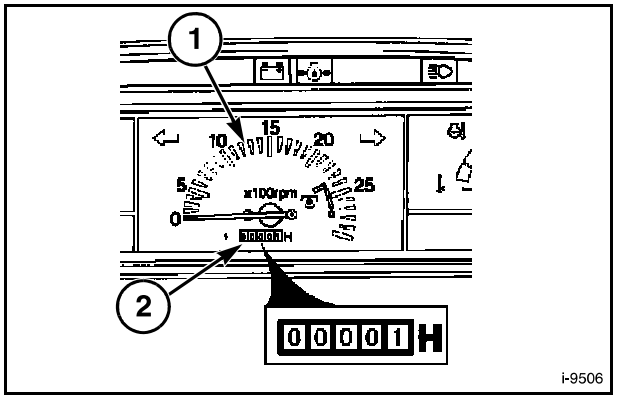


FIG. 59

FIG. 73:

(1) Hydrostatic control lever
(2) O position
(3) Forward hydrostatic control pedal
(4) Throttle lever
(5) Brake pedal
(6) Parking brake
(7) Range Shift Lever

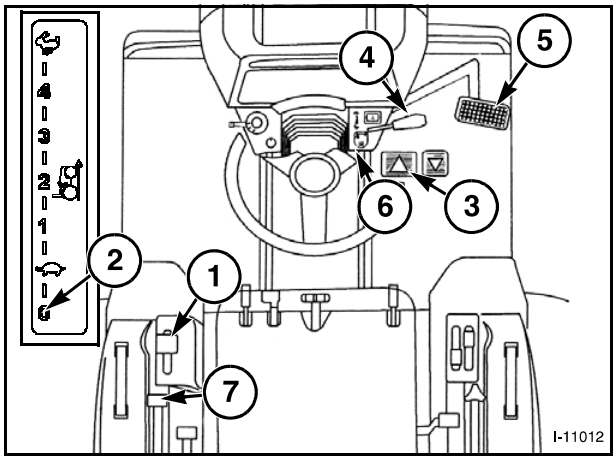


FIG. 73

Ground Speed Chart

		1531			
	Range	kph	mph	kph	mph
	tyre	Turf		Ag	
Forward					
Hydrostatic		5.22	3.25	5.47	3.40
		11.25	6.99	11.78	7.32
		20.93	13.01	21.92	13.62
Reverse					
Hydrostatic		3.66	2.27	3.83	2.38
		7.87	4.89	8.24	5.12
		14.65	9.11	15.34	9.53

NOTE: Ground speed indicated at 2600 engine rpm with 12.5/80-18 agricultural type rear tyres, 36 x 13.5-15 turf and 12.5/80-18 R-4 tyres.

PARKING THE TRACTOR

FIG. 74: Always park tractor on level area whenever possible. If hillside parking is necessary, securely block both rear wheels as shown.

CAUTION: Before leaving the tractor unattended, make sure the brakes are locked, rear mounted implement is lowered to the ground, and the key is removed from the ignition switch.

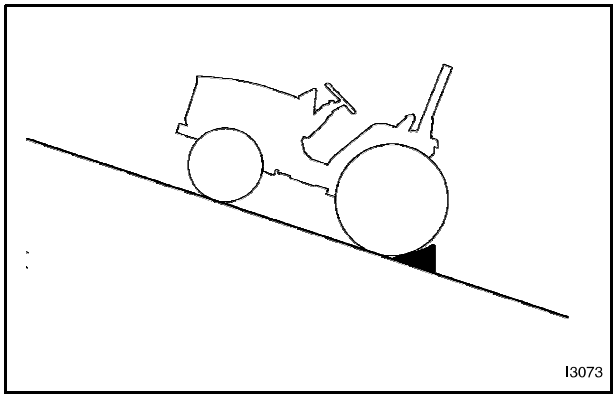


FIG. 74

FIG. 95: Certain implements require minimal side-play.

(1) Stabilizer

The stabilizer at each lower link should be evenly adjusted to reduce side-play to a desirable level. Do not remove all side-play as lower link damage may result.

NOTE: The amount of side-play (stabilizer looseness) is dependent upon implement and type of operation. Normally 50 mm (2 in) of total side movement is desired, 25 mm (1 in) to each side of tractor centreline.

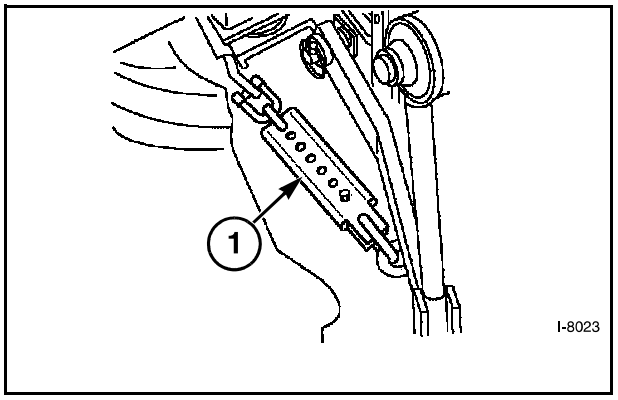


FIG. 95

Detaching Implements

CAUTION: Always use position control to attach or detach implements to provide precise control of hitch.

Select a level area to detach and store the implement. Lower implement to the ground by moving position control lever to DOWN. If necessary, adjust leveling crank on the right lift link to level implement on the ground.

Shut off engine, securely lock brakes and remove key from tractor.

Disconnect implement PTO drive shaft (as applicable). Detach top link from implement and place in storage position on tractor by engaging spring on top link in slot in rear centre panel.

NOTE: Lengthening or shortening of top link may be required to permit disconnecting of implement.

FIG. 96: Disconnect the lower links from the implements pins. Make sure the lower links are connected together with the spring (1) to prevent tyre interference.

Take position in the operator's seat. Start engine and drive tractor clear of implement.

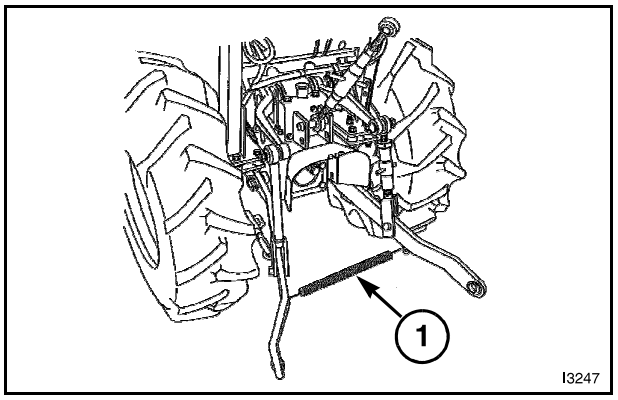


FIG. 96

Change Oil

FIG. 112: Remove drain plug (1) along with the second drain plug below the mid PTO gearbox (if equipped), and the final drive plugs (2) on each axle. Completely drain oil from system.

IMPORTANT: Completely lower three-point hitch prior to draining transmission oil.

When completely drained, replace and tighten all drain plugs. Service hydraulic and hydrostatic filters as required. Then refill with oil as outlined above. Air bleed the system.

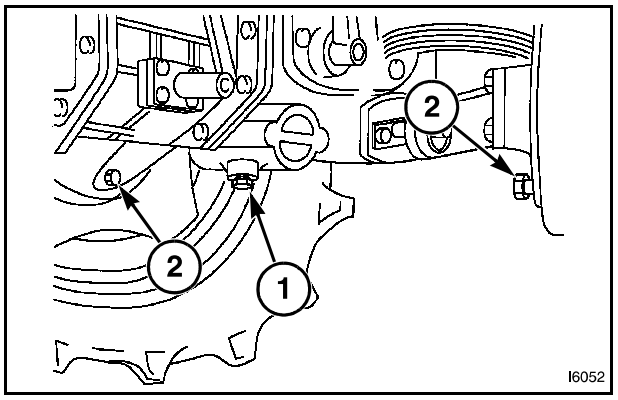


FIG. 112

Change or Replace Oil Filter

FIG. 113: With the oil drained, unscrew the transmission filter (1) from adapter. A filter wrench may be needed.

Clean the adapter and lubricate the seat on the new filter. Install until the filter gasket contacts the adapter and tighten an additional 2/3 turn by hand. Do not use a filter wrench to tighten.

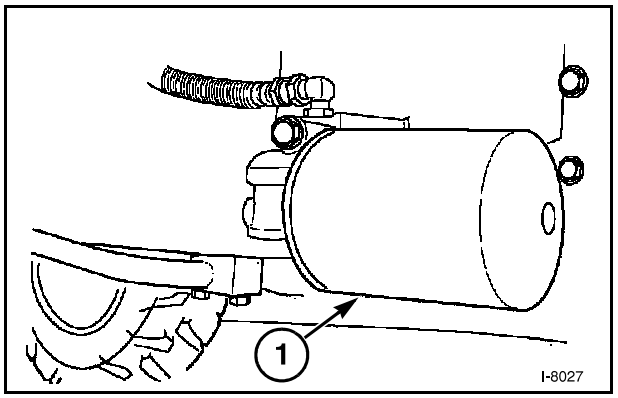


FIG. 113

FIG. 131: General layout and location of electrical system components and fuses:

(A) Main fuse box - Located on right side of the steering post.

Ref	Amp	Function
1	3A	PTO
2	5A	Fuel Pump
3	10A	Alternator and Monitor
4	15A	Work Light*
5	15A	Spare Power Supply
6	5A	Engine Stop Relay
7	15A	Head Light
8	15A	Turn/Warning Lights
*Work light (rear) is an accessory.		

(B, C) Slow blow fuses - In-line fuses protect relevant circuit by melting when sustained heavy electrical load or short circuit is encountered, and feature a delayed action to prevent the current disruption when brief surges are encountered.

One 40A slow-blow fuse (B) for the alternator circuit is green. The fuse is located on the right-hand side of the engine.

One 40A slow-blow fuse (C) for the main circuit is green. The fuse is located on the right-hand side of the engine.

NOTE: Failure of fuse (C) is usually caused from incorrect polarity (such as reversed cables when using a booster battery). Failed fuse will not allow battery to be charged during normal operation.

IMPORTANT: Fuses are of specific amperage capacity for the circuit in which they are located. Do not replace fuses with unauthorized parts.

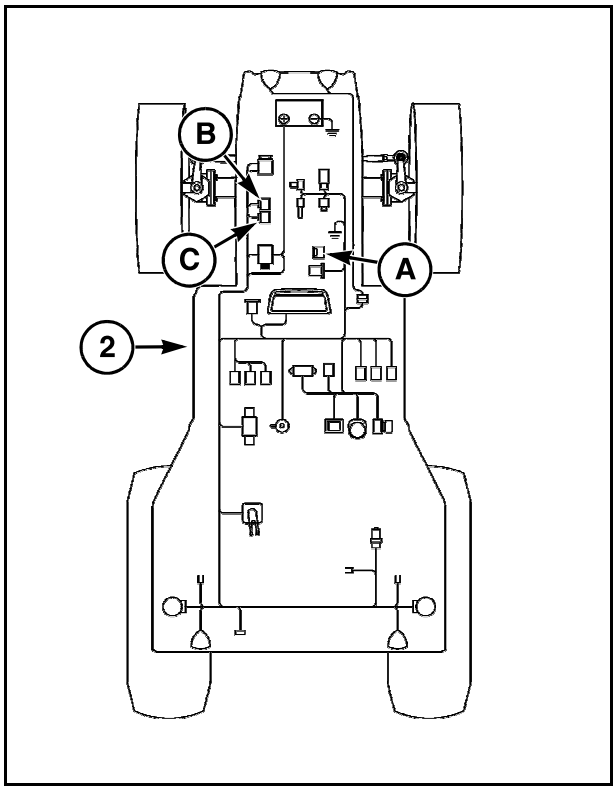


FIG. 131

WIRING DIAGRAMS

FIG. 132: Wiring legend for the schematics on the following pages.

(1) Wire size
(2) Wire colour code
(3) Ground

Wire Colour Code	Wire Colour	Wire Colour Code	Wire Colour
W	White	YR	Yellow/Red
B	Black	WR	White/Red
R	Red	WB	White/Black
Y	Yellow	WY	White/Yellow
G	Green	WL	White/Blue

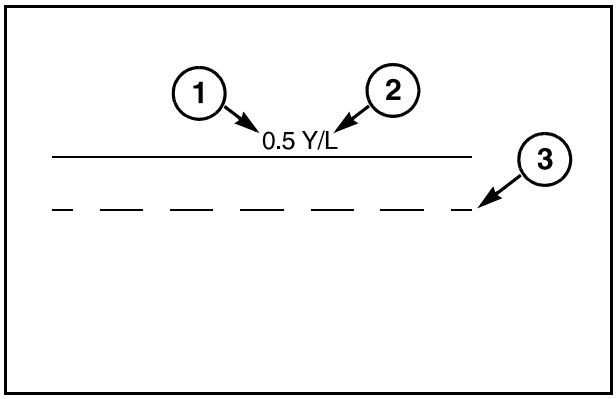


FIG. 132

ENGINE (CONT'D)

Problem	Possible Cause	Remedy
Irregular engine running	Air in fuel system	Air-bleed fuel system.
	Clogged fuel filter	Clean filter.
	Clogged fuel injectors	Consult your Dealer.
	Fuel line is leaking air	Retighten clamps, replace defective pipes.
	Fuel injection pump timing	Consult your Dealer.
	Defective engine	Consult your Dealer.
When decelerated, engine stops	Incorrect low idle setting	Consult your Dealer.
	Malfunctioning fuel injection pump	Consult your Dealer.
	Improper valve clearance	Consult your Dealer.
	Defective fuel injectors	Consult your Dealer.
Engine over-speeds	Defective governor	Consult your Dealer.
	Incorrect high speed setting	Consult your Dealer.
	Engine oil is getting into combustion chambers	Consult your Dealer.
Engine stops unexpectedly during operation	Insufficient fuel supply	Top up fuel and air-bleed fuel system.
	Defective fuel injectors	Consult your Dealer.
	Defective fuel injection pump	Consult your Dealer.
	Engine seizure due to low or poor oil	Consult your Dealer.
	Electric fuel pump not operating	Replace fuse.

GENERAL DIMENSIONS

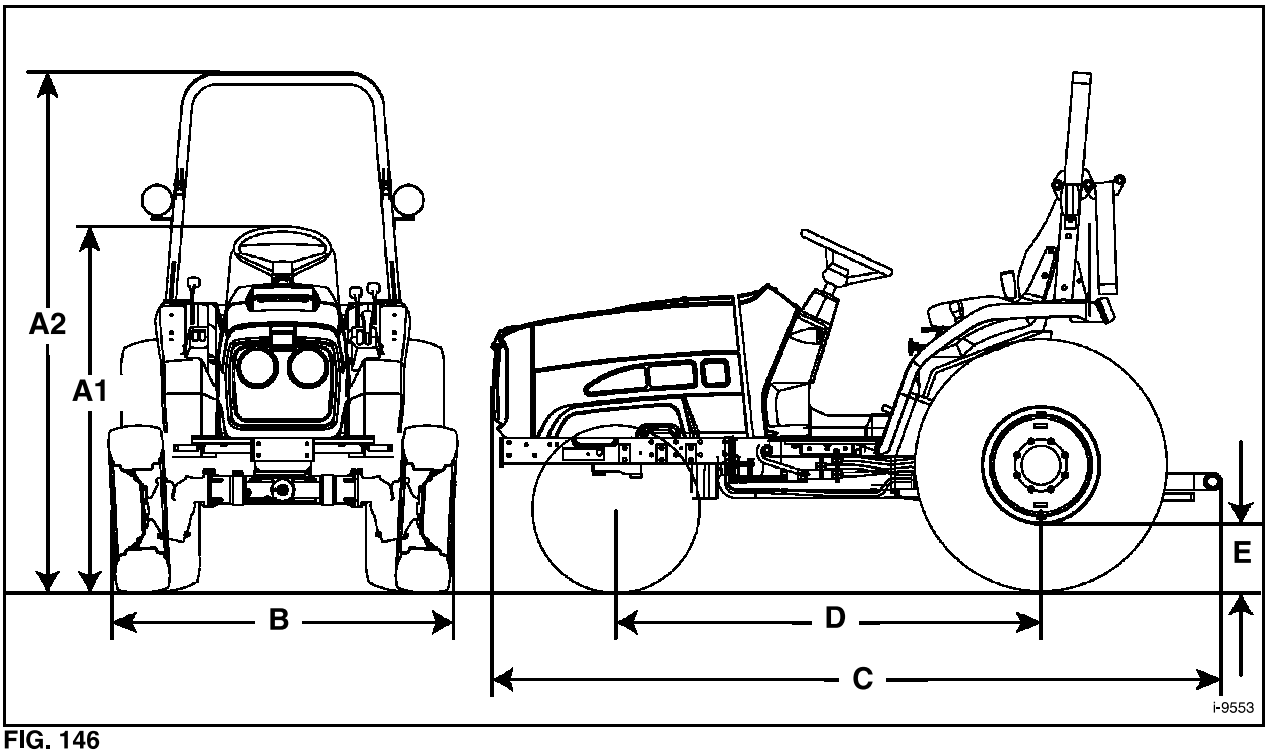


FIG. 146

General Dimensions 1531		AG	Turf	R-4
		Front - 25x8.50-14 Rear - 12.50/80-18	Front - 24x8.50-14 Rear - 36x13.50-15	Front - 25x8.50-14 Rear - 12.50/80-18
A1	Height to Steering Wheel	1400 mm (55.1 in)	1395 mm (54.9 in)	1400 mm (55.1 in)
A2	Overall Height to ROPS	2050 mm (80.7 in)	1995 mm (78.5 in)	2050 mm (80.7 in)
B	Overall Width	1360 mm (53.5 in) width of wheel	1360 mm (53.5 in) width of front wheel	1680 mm (66.1 in) width of wheel
C	Overall Length	2855 mm (112.4 in)	2855 mm (112.4 in)	2855 mm (112.4 in)
D	Wheelbase	1665 mm (65.6 in)	1665 mm (65.6 in)	1665 mm (65.6 in)
E	Minimum Ground Clearance	255 mm (10.0 in)	200 mm (7.9 in)	255 mm (10.0 in)
-	Turning Radius (w/o brake)	5600 mm (220.5 in)	5600 mm (220.5 in)	5600 mm (220.5 in)
-	Weight	1100 kg (2423 lb)	1040 kg (2291 lb)	1100 kg (2423 lb)

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