YANMAR

OPERATOR'S MANUAL

DIESEL TRACTOR

EF393T

en Original instructions

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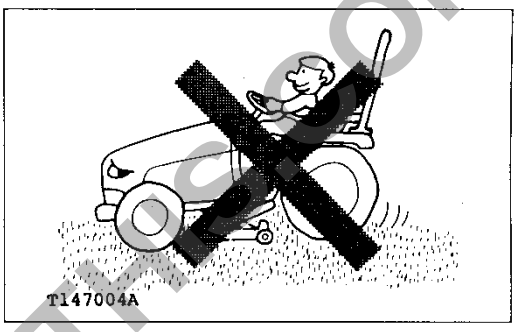
SAFETY INSTRUCTIONS

DANGER

Read these instructions carefully.
Important instructions are given for the safe operation and servicing of the tractor.
Failure to follow these instructions is likely to result in an accident involving death or serious injury.

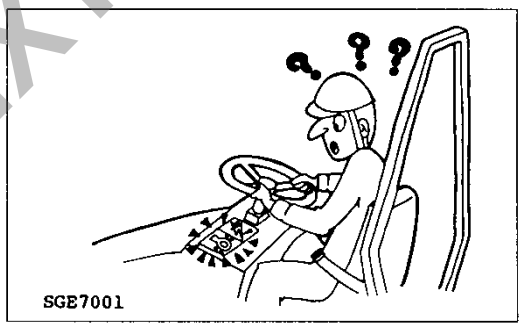
STUDY THE TRACTOR AND IMPLEMENTS

Do not permit anyone unfamiliar with the tractor or the operations of its implements to use the machine.
The operator's manual should be considered a permanent part of the tractor and should remain with the tractor.



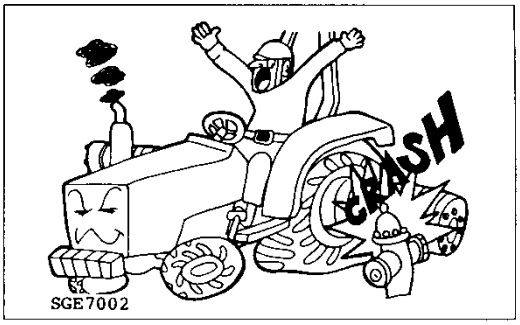
Know the positions and functions of all controls and the meaning of any identification symbols on your controls, gauges, and indicators before attempting to operate the tractor.

Know how to stop the engine in an emergency.



Make sure you understand the capabilities, operating characteristics and limitations of the tractor and implement, such as maximum ballast weight, hydraulic lifting capacity, speed, turning radius, operating clearances etc.

Do not add extra ballast weight to compensate for a load that is too heavy.

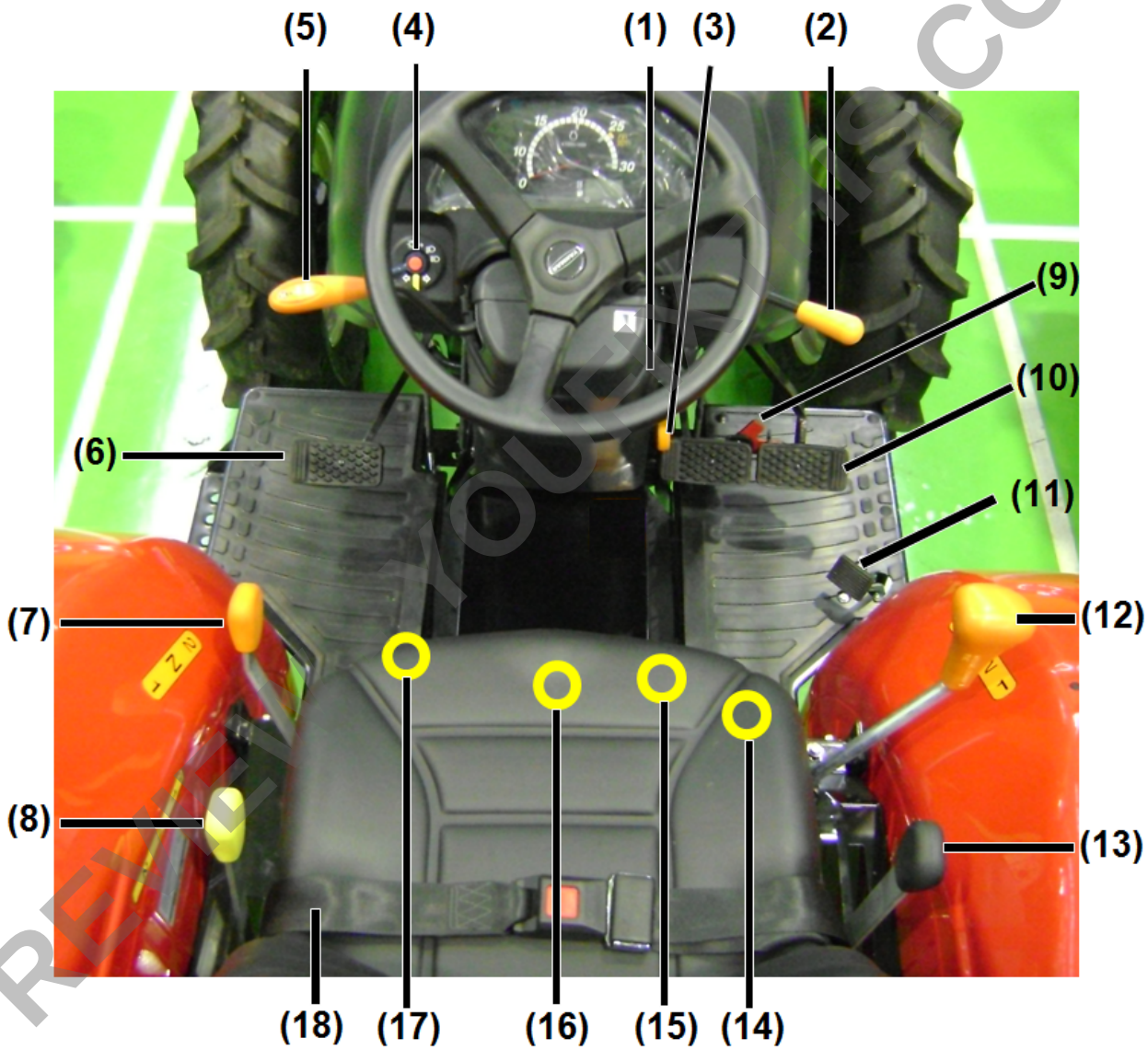


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PARTS NAMES

(1) Main switch
(2) Accelerator lever
(3) Parking brake lever
(4) Combination switch
Head light, turn signal, horn
(5) Reverser lever
(6) Clutch pedal
(7) Range gear shift lever
(8) PTO gear shift lever
(9) Brake pedal connector
(10) Brake pedal
(11) Foot accelerator pedal
(12) Main gear shift lever
(13) Position control lever
(14) Differential gear lock pedal
(15) Seat adjust lever
(16) Stop & slow return valve
(17) Front wheel drive lever
(18) Seat belt

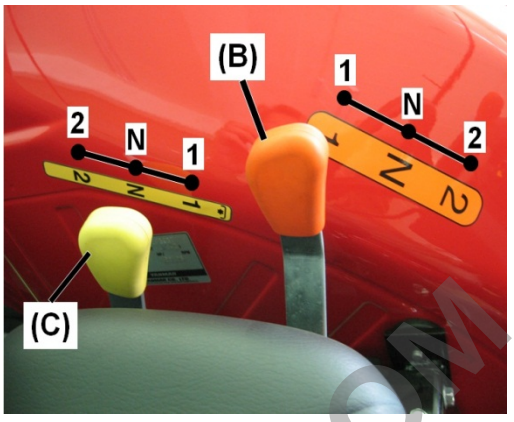


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PTO shift lever

The transmission has 2 PTO speeds. To change the speed, depress the clutch pedal fully.

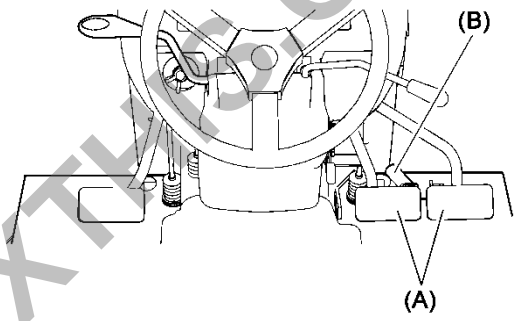


(C) PTO shift lever
PTO speed at engine 2,800 rpm
1 584 rpm
2 836 rpm

CAUTION
Strictly maintain the PTO speed as specified by the implement. Otherwise, the implement or transmission can be damaged and may cause an injury.

Brake pedal

Tractor has brake pedals for right and left turn independently and they can be applied separately. For a sharp turn in the field, depress the brake in which direction you want to turn. For driving on a road, be sure to connect both pedals with the connector.



To avoid unnecessary wear of brake discs, do not rest foot on the brake pedal during operation.

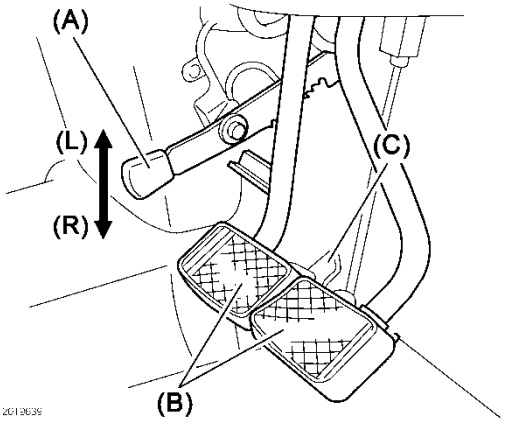
(A) Brake pedals
(B) Brake pedal connector

WARNING
Be sure to connect the both brake pedals with the connector when driving on a road. Tractor may turn over by one-sided braking in high speed.

Parking brake lever

To apply parking brake;
Connect brake pedals, depress brake pedals and raise parking brake lever.

To release parking brake;
Depress brake pedals slightly and down parking brake lever.



(A) Parking brake lever
(B) Brake pedals
(C) Brake connector
(L) Apply parking brake
(R) Release parking brake

CAUTION
Be sure to connect the both brake pedals with the connector when applying parking brake. If not, only left tire is locked and it may not brake tractor sufficiently.

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PERIODICAL SERVICE

WARNING

1) Stop the engine before servicing.
2) Service tractor on a flat and leveled place, free from normal traffic and bystanders.
3) Fix the tractor wheels not to move.

CAUTION

Check periodically fuel lines and power steering hoses for damages, wearing and loose connections. If there is damage, wearing or loose, be sure to see your dealer. Otherwise an accident or injury can result.

Periodic inspection and maintenance in off-season will ensure the preferable conditions of your tractor. To keep your tractor working in good conditions, ask your service dealer for a regular inspection.

It is recommended to replace fuel pipes, rubber hoses, and electrical wires every two years at least.

1. Check intervals

O: Replace x: Checks required

CHECK ITEMS	50 h	100h	150h	200h	250h	300h	350h	400h	450h	500h	550h	600h
Engine lubrication oil	O	O		O		O		O		O		O
Transmission oil	O	x	x	x	x	O	x	x	x	x	x	O
Front axle oil	O	x	x	x	x	O	x	x	x	x	x	O
Engine oil element	O					O						O
Radiator interior	Clean the interior of radiator when replacing cooling water											
Water separator element	Clean	Clean	Clean	Clean	Clean	Clean	Clean	Clean	Clean	Clean	Clean	Clean
Fuel filter						O						O
Cooling water (Replace)	Check before every work (Replacing every year)											
Transmission oil filter	O					O						O
Air cleaner element	x	x	x	x	x	O	x	x	x	x	x	O
Clean dust net	x	x	x	x	x	x	x	x	x	x	x	x
Clean cooling fan, radiator	x	x	x	x	x	x	x	x	x	x	x	x
Battery liquid level	Check before every work											
Battery liquid gravity		x		x		x		x		x		x
Fuel piping, connections	x	x	x	x	x	x	x	x	x	x	x	x
Rubber hoses (Power steering)	x	x	x	x	x	x	x	x	x	x	x	x
Radiator hoses	Replace hoses every two years											
Hydraulic rubber hoses	Replace hoses every two years											
Fuel pipe, electric wires	Replace pipes and wires every two years											
Electric wiring, connections	x	x	x	x	x	x	x	x	x	x	x	x
Grease-up	x	x	x	x	x	x	x	x	x	x	x	x
Fastening of steering wheel fix nut		x		x		x		x		x		x
Important nuts and bolts	x	x		x		x		x		x		x
Cooling fan belt	x	x		x		x		x		x		x
Engine breather pipe	x	x	x	x	x	x	x	x	x	x	x	x
Engine crank case												x
Clearance of exhaust valve												x
Fuel injection valve												x
Alternator, start motor	x	x				x				x		
Hydraulic system	x	x				x				x		
Fixing bolts of tires	x	x		x		x		x		x		x

Check at the first 50 operating hours or after first one-year operation.

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TROUBLESHOOTING

If abnormal operations are found, stop the engine and found a problem by referring to the following table.

1. Engine

PROBLEM		CAUSE	REMEDY
Engine hard to start or not start	Starter motor runs.	No fuel or improper fuel	Fill fuel. Drain wrong fuel and fill proper fuel.
		Water, dirt, or air in fuel system	Drain, flush & bleed fuel system.
		Clogged fuel filter	Clean or replace fuel filter.
		Fuel shut-off valve closed	Open fuel shut-off valve.
		Accelerator lever not pulled	Pull throttle lever.
		Engine oil too heavy	Use oil of proper viscosity.
	Starter motor doesn't run.	Reverser lever is not set to "N".	Set the lever to neutral.
		PTO shift lever is not set to "N".	Set the lever to neutral.
		Low voltage	Charge battery.
		Slow blow fuse blown	Replace slow blow fuse.
Engine runs irregularly or stalls frequently		Vent in fuel tank cap clogged	Clean cap in solvent and blow dry.
		Fuel filter clogged	Clean or replace fuel filter.
		Water, dirt, or air in fuel system	Drain, flush & bleed fuel system.
		Dirty or faulty injection nozzles	See your YANMAR dealer.
		Improper type of fuel	Use proper fuel.
		Engine solenoid linkage out of adjustment	See your YANMAR dealer.
		Insufficient oil	Add oil
Engine knocks		Engine overheating	See "Engine overheats".
		Idle speed too slow	Check idle speed.
		Improper type of fuel	Use proper fuel.
Lack of engine power		Engine overloaded	Reduce load or shift to lower gear.
		Air cleaner element clogged	Clean air cleaner element.
		Clogged fuel filter	Clean or replace fuel filter.
		Improper type of fuel	Use proper fuel.
		Engine overheating	See "Engine overheats".
		Improper ballast	Adjust ballast to load.
		Hydraulic stop valve closed	Open stop valve.
		Improper implement mounted	Check required horsepower for implement.

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SPECIFICATIONS

Model				EF393T
Engine	Make			Yanmar
	Model			3TNV88
	Type			Direct injection, Water cooled, diesel
	Output	SAE Gross	(ps)	39.0
	Rated RPM		(rpm)	2800
	No. of cylinders			3
	Displacement		(cc)	1,642 cc
	Fuel tank		(lit.)	38
Dimension	Overall length		(mm)	2940
	Overall width		(mm)	1430
	Overall height (steering wheel)		(mm)	1950 (1400)
	Tread	Front	(mm)	1065
		Rear	(mm)	1120
	Wheelbase		(mm)	1650
	Ground clearance		(mm)	320
Weight			(kg)	1090
Tire size		Front		8 - 16
		Rear		12.4 - 24
Steering				Hydrostatic power steering
Brake				Wet multi-disc type
Clutch				Dry single
Transmission	No. of shifting gears			8 forward and 8 reverse (constant mesh)
	Reverser			Synchro-mesh
	Travel speed	Forward	(km/hr)	1.90 – 21.1
		Reverse	(km/hr)	1.84 – 21.9
Turning radius	(with brake)		(m)	2.4
PTO	Gear 1			584 rpm (at engine speed: 2800rpm)
	Gear 2			836 rpm (at engine speed: 2800rpm)
Hydraulic system	Type			Position control
	Hitch			3-point hitch
	Category			Category 1
	Max. lifting capacity (at lower link end)		(kg)	925
	Hydraulic pump capacity		(lit./min)	20.2

Note:
All technical data, measurement and weight are approximate, and the manufacturer has the right to make alteration without prior notice.

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