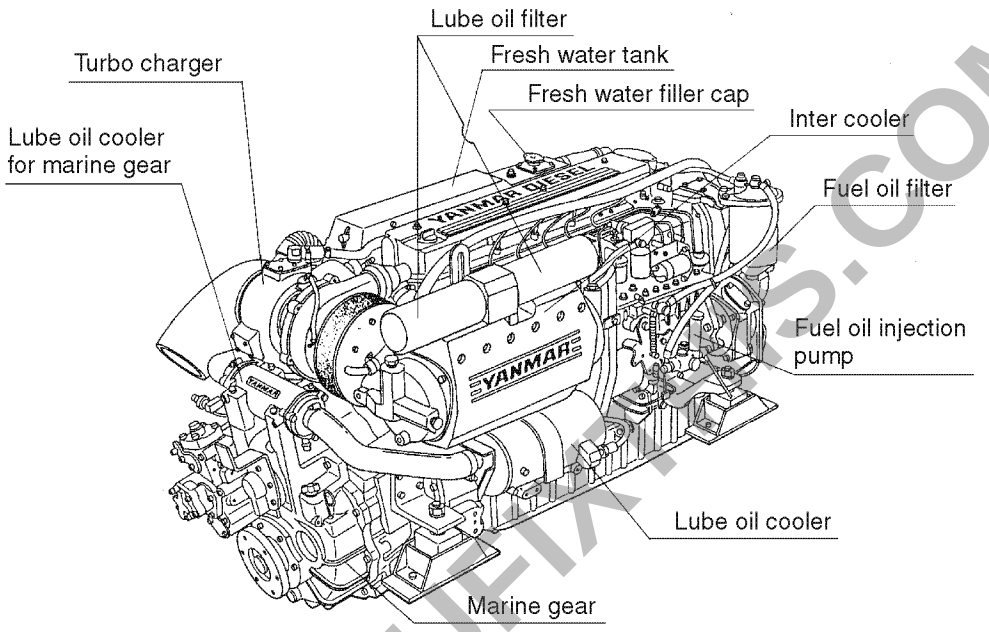


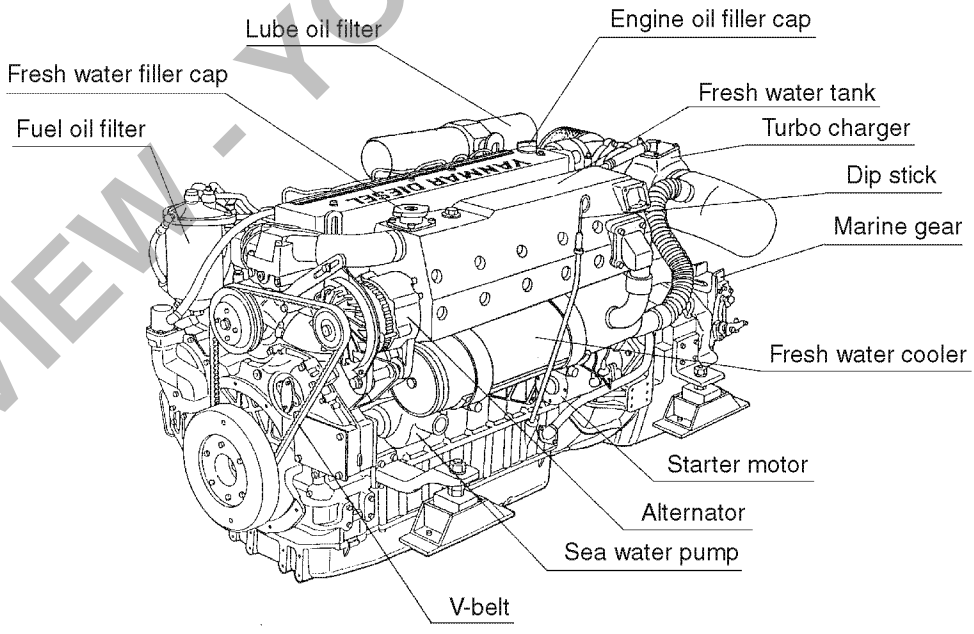
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2.3 NAMES OF PARTS

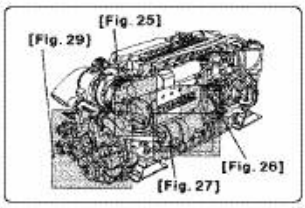




〈Note〉 This illustration shows Yanmar marine gear (Model : KMH6A) when it has been attached.

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Be sure to close the kingston cock before removing the plug to replace the anticorrosive zinc.





<Note>

[Fig 29] shows the position of the Yanmar marine gear (Model KMH6A).

For detailed information on marine gears other than Yanmar ones, refer to the Marine Gear Operation Manual.

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5. Troubleshooting

Trouble	Probable Cause	Measure	Reference
●Alarm buzzer sounds and alarm lamps go on during operation	**[NOTICE]** **Shift to low speed operation immediately, check which lamp has come on and stop the engine for inspection. If no abnormality is identified and there is no problem with operation, return to port at your lowest speed and request repairs.**		
○Eng. L.O. Press. Warning Lamp goes on.	Engine L.O. insufficient; L.O. filter clogged.	L.O. level check, resupply, replace Replace L.O. filter Replace Eng. L.O.	3.2.2 4.3.1(1) 4.3.1(1)
○Marine gear lube oil pressure warning light goes on. (if having)	Insufficient marine gear lube oil	Check the oil level and supply.	3.2.3
○C.W. Temp.(Fresh Water) Warning Lamp goes on.	Fresh water cooler water level low. Cooling seawater discharge insufficient Contamination inside the cooling system.	Check C.W. level resupply System clogged; air has entered the system Ask for repairs.	3.2.4(1)
○Fuel Oil Warning Lamp goes on. (if having)	F.O. tank fuel level low.	Refill.	3.2.1
●Warning Devices are Faulty. When Switch is Turned ON:	**[NOTICE]** **Do not run the engine with alarm devices still unrepaired. Trouble will progress and a serious problems may result.**		
○Alarm buzzer does not sound ○Warning lamps do not go on -Eng. L.O. Press, Exhaut.	Circuit broken or buzzer defective.	Ask for repairs.	2.5
	(Note) Other warning lamps do not go on when the switch is turned on. They only go on when there is an abnormality.		
○Charge lamp does not go on.	Circuit broken or lamp burnt out.	Ask for repairs.	
When the Key Returned to ON from START after Engine Starting:			
○Buzzer keeps on sounding	Short-circuit (if lamp goes out)	Ask for repairs.	
○One of the warning lamps does not go out.	Sensor switches faulty	Ask for repairs.	

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4.2 Periodic Inspection

Daily and periodic inspection are important to keep the engine in its best condition.
The following is a summary of inspection and servicing items by inspection interval.
Periodic inspection intervals should vary depending on the uses, loads, fuels and lube oils used and handling conditions, and are hard to establish definitively. The following should be treated only as a general standard.

[NOTICE]

Schedule your own periodic inspection plan according to the operational conditions of your engine and inspect every item. Neglect of periodic inspection may lead to engine troubles and shorten the life of the engine. Inspection and servicing at 2000 hours of operation and thereafter require special knowledge and techniques. Consult your dealer or distributor or the Yanmar subsidiary in your region.

Preiodical Inspection and Maintenance.

● : Consult nearest dealer
○ : Check ◎ : Replace

Item	Description	Schedule						
		Daily	Every 50 service hrs.	Every 250 service hrs. (or 1 yr.)	Every 500 service hrs. (or 2 yrs.)	Every 1000 service hrs. (or 4 yrs.)	Every 2000 service hrs.	Page
Fuel	Check of fuel level	○						20
	Draining of tank		○					37
	Drain of filter and water separator		○					37 39
	Replacement of filter element			◎				41
Engine lube oil	Check oil level in oil pan, add if necessary	○						21
	Replacement of filter element		◎ (1st time)	◎				36
	Cleaning of lube oil cooler						●	44
	Change of lube oil — Engine side		◎ (1st time)	◎				36
Cooling water (seawater side)	Check of cooling water discharge	○						29
	Check and replacement of impeller					○	●	43
	Cleaning of seawater system (including fresh water and lube oil cooler)					○	●	44
	Replacement of anti-corrosive zinc			◎				42
Cooling water (fresh water side)	Check and supply of fresh water level	○						26
	Replacement of fresh water			◎				43
	Cleaning of fresh water system (including heat exchanger tank)						●	44

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(7) Checking the Alarm Devices

When operating the starter switch, check that the alarm devices work normally.

(See 2. 5. 1 (3).)

(8) Preparing Fuel, Lube Oil and Cooling Fresh Water in Reserve

Prepare sufficient fuel for the day's operation. Always store lube oil and cooling fresh water in reserve (for at least one refill) onboard, to be ready for emergencies.

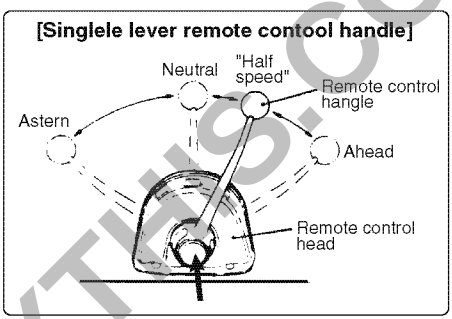
3.3.2 How to Start the Engine

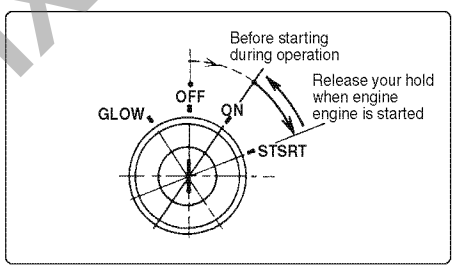
(1) Start the engine according to the following procedures:

1) Open the Kingston cock (optional).
2) Open the fuel tank cock (local supply).
3) Pull the→knob of remote control handle and tilt the lever slightly to "Ahead".
4) Turn the battery switch on.
5) Insert the key into the starter switch and turn the key to ON: when the alarm buzzer sounds and the alarm lamps come on the alarm devices are normal.

(See 2. 5. 1 (3).)

6) Turn the key to START to start the engine. Release the key when the engine has started. The key returns automatically to ON. The alarm buzzer should stop and the alarm lamps go out.





(2) Re-starting after Starting Failure

Before turning the starter switch key again, be sure to confirm that the engine has stopped completely. If the engine is re-started while the engine still has not stopped, the pinion gear of the starter motor will be damaged.

[NOTICE]

Do not hold the starter switch on for more than 15 seconds at a time. If the engine does not start first time, wait for about 15 seconds before trying again. After the engine has started, do not turn the key OFF position. (It should return to ON.)

Alarm device will not work when the key is OFF.

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2.5 Control Equipment

The control equipment consists of the control panel and remote control handle, which are connected by the wires and cables to the control levers for remote control operation.

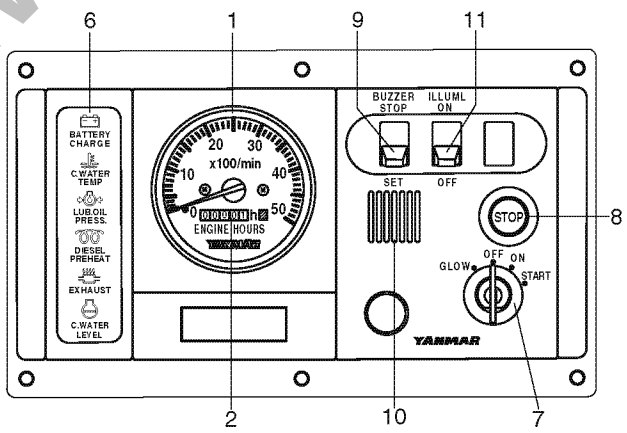
2.5.1 Control Panel (Optional)

The control panel has the following gauges and alarm devices (optional accessories):

No.	Model		New B-type	New C-type	New D-type
7	Switch unit	Key switch (Starter switch)	●	●	●
8		Engine stop switch	●	●	●
10		Alarm buzzer	●	●	●
9		Alarm buzzer stop switch	●	●	●
11		Illumination switch for meters	●	●	●
6	Alarm lamp unit	Battery not charging	●	●	●
		C.W. high temperature	●	●	●
		L.O. low pressure (engine)	●	●	●
		C.W level	●	●	●
		Exhaust	●	●	●
		Boost	—	●	●
1	Tachometer unit	Tachometer with hour meter	●	●	●
4	Sub meter unit	LO. pressure meter	—	●	●
3		C.W. temperature meter	—	●	●
5		Boost meter (Turbo)	—	—	●
12	Clock unit	Quartz clock	● (optional)	● (optional)	●

● Avalable, — Not avalable

● **New B-type**



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1. FOR SAFE OPERATION

Following the precautions described in this manual will enable you to use this engine with complete satisfaction. Failure to observe any of the rules and precautions, however, may result in injury, burns, fires, and engine damage. Read this manual carefully and be sure you fully understand it before beginning operation.

1.1 Warning Symbols

These are the warning signs which are used in this manual and on the products. Pay special attention to them.

⚠ DANGER

DANGER- Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING

WARNING- Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠ CAUTION

CAUTION- Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

- The descriptions captioned by **[NOTICE]** are for the particularly important cautions for handling. If you ignore them, the performance of your machine may deteriorate leading to trouble.

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