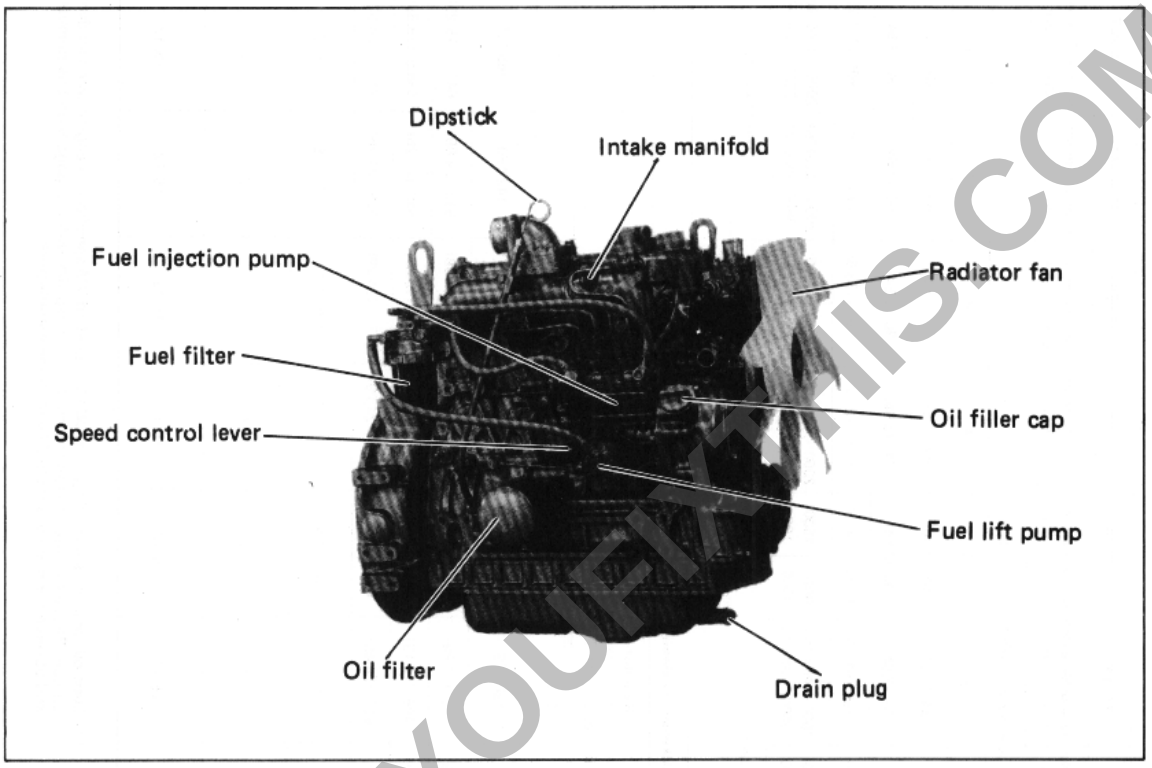
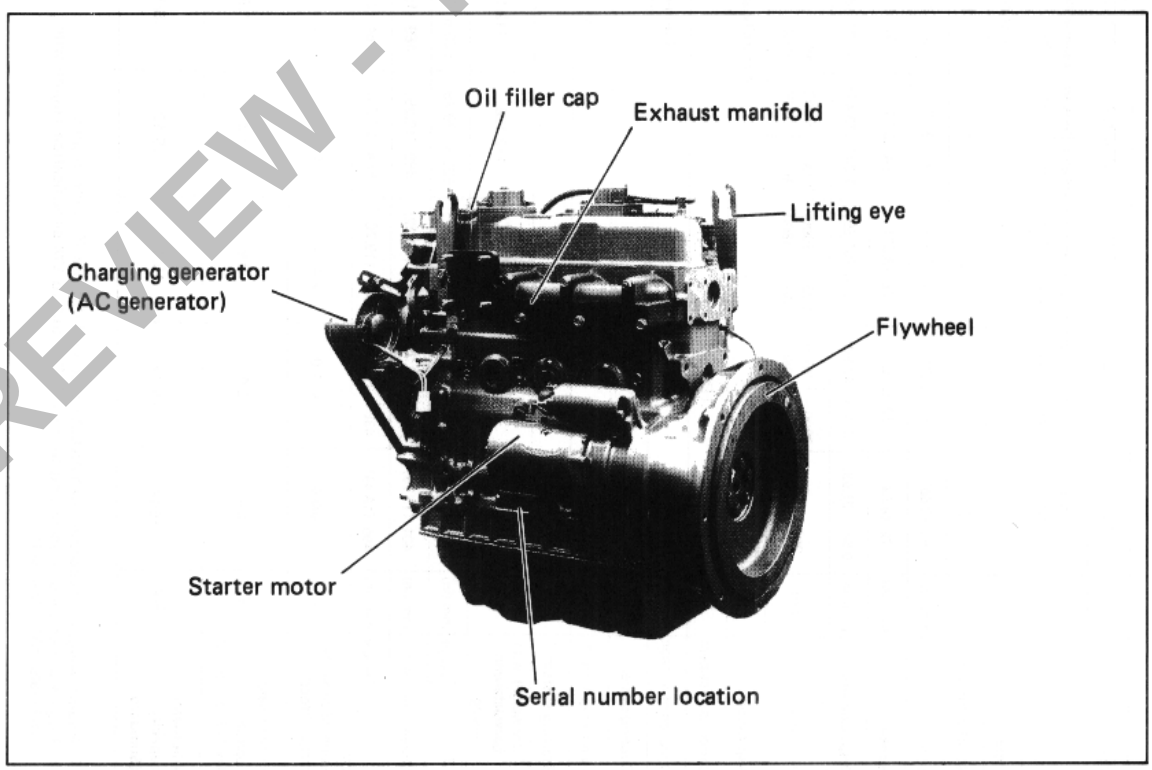
1. Name of parts

1-1. Names of parts (TNE series)





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FRANÇAIS

MOTEUR DIESEL SERIE TNE

MODE D' EMPLOI

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7-1. Check and adjustment of fuel oil system

(1) Fuel level check and resupply

Resupply clean fuel to the fuel tank.

Interval	Daily

(2) Draining of the fuel tank

To remove the element, remove the retaining ring of the fuel filter.
Clean the element with light oil, and blow compressed air (2–3 kg/cm²) through the element to remove dust.



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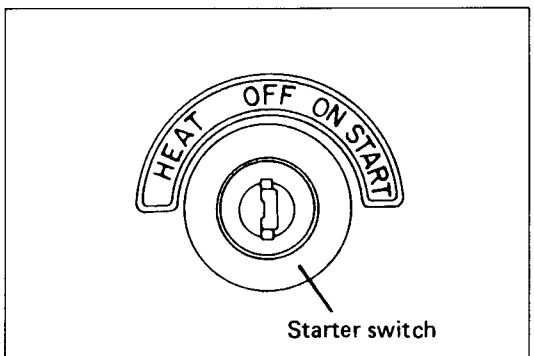
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(4) Turn the speed control lever to "START/Run".

(5) Turn the starter switch key to "START". The engine should start.



Yanmar standard starter key switch

Once the engine is started, release the key. The key automatically returns to "ON". (Do not turn off the battery switch even after the engine is started). At "ON", the gauges on the instrument panel start operating.

⚠ CAUTION:

Protecting the battery

Do not run the starter motor for more than 15 seconds at a time. If the engine can't be started, wait for about 30 second before using the starter again.

Engine re-starting

Be sure to check that the flywheel has come to a standstill before turning the starter switch to "START".

- **The starter motor or flywheel gear may be damaged if the starter switch is operated with the flywheel still moving.**
- **Engines with a safety relay in the circuit can't be re-started unless the starter switch has been turned off once the starter motor was run.**

Cold weather starting

- **Turn the starter key counterclockwise to the "Heat" (or Glow) position and hold it in that position for about 15 seconds, (about 8 sec. for the engine with a quick-glow device).**
- **Then, return the starter key to "START" to start the engine.**

6-2. Cautions after engine starting

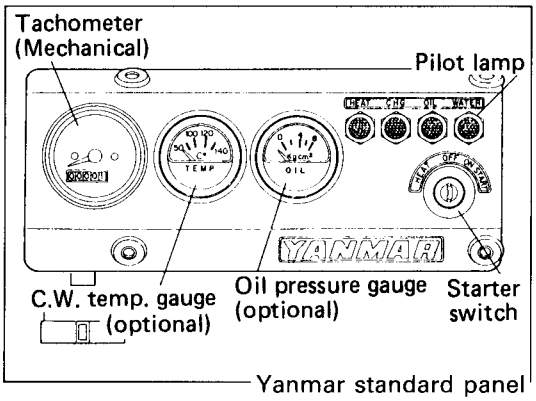
Once the engine is started, observe the following instructions. (Keep the machine disconnected.)

(1) Warm-up the engine for more than 5 minutes.

⚠ CAUTION:

- **The lube oil will not spread all the way to the main bearing and other moving parts for some time after starting. To protect these parts from wear, the engine must be idled for about 5 minutes at low speed.**
- **For breaking-in, idle the engine at low speed for 15 – 20 minutes.**

(2) Raise the engine speed above 800rpm, and check that the low oil pressure alarm lamp and the charge lamp go out.



Yanmar standard panel

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CONTENTS

1. Names of parts 1
2. Specifications 2
3. Basic rules that must be kept for engine handling 3
4. Fuel oil, lube oil and cooling water 5
5. Breaking-in operation 7
6. Operating your engine 9
7. Periodic checks and maintenance 13
8. Long-term storage 18
9. Troubleshooting 19

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TIPS ON SAFETY

⚠ WARNING:

1. PREVENTING FIRES

Never add fuel to the fuel tank while the engine is running. Wipe away all fuel spills with a clean cloth. Keep gasoline, kerosene, matches, other explosives and inflammables away from the engine, since the temperature around the exhaust muffler is very high during operation.

- To prevent fire hazards and to provide adequate ventilation, keep the engine at least 3 ft (1 m) away from the building and other equipment during operation.

2. PREVENTING EXHAUST GAS INHALATION

- Exhaust gas contains poisonous carbon monoxide.
- Never use the engine in poorly ventilated locations such as indoors or inside tunnels. If indoor operation is unavoidable, provide proper ventilation

3. PREVENTING BURNS

- Never touch the muffler, muffler cover or engine body while the engine is running or hot.

4. OTHER SAFETY TIPS

- Know how to stop the engine quickly and understand operation of all the controls. Never permit anyone to operate the engine without proper instructions.
- Always wear a suitable clothings when operating the engine.
- Do not operate under the influence of alcohol.
- Keep children and pets away from the engine when it is in operation.
- Keep away from rotating parts while the engine is running.
- When the engine is coupled with a machine, be sure to provide suitable covers for the belt, coupling and other dangerous parts.
- Work according to the rules and regulations of work area. When working with others, be sure to maintain good communication with everyone else.
- Use correct tools and equipment.

5 WHEN CHARGING THE BATTERY

- Battery electrolyte contains sulphuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and get prompt medical attention, especially if your eyes are affected.
- Batteries generate hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near a battery, especially during charging.
- Charge the battery in a fully ventilated place.

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Model	Unit	2TNE68	3TNE68		3TNE74		3TNE78A		3TNE82A		3TNE84		3TNE88		4TNE84		4TNE88		3TNE84T		4TNE84T	
		Industrial Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use	Industrial Use	Generator Use
Type		Vertical 4-cycle water cooled diesel engine																				
No. of cylinders		2	3		3		3		3		3		3		4		4		3		4	
Bore	mm (in)	68 (2.68)	68 (2.68)		74 (2.91)		78 (3.07)		82 (3.23)		84 (3.31)		88 (3.46)		84 (3.31)		88 (3.46)		84 (3.31)		84 (3.31)	

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ENGLISH

TNE-SERIES DIESEL ENGINE

OPERATION MANUAL

FRANÇAIS

MOTEUR DIESEL SERIE TNE

MODE D' EMPLOI

DEUTSCH

DIESELMOTOR DER SERIE TNE

BEDIENUNGSANLEITUNG

ESPAÑOL

MOTOR DIESEL SERIE TNE

MANUAL DE OPERACION

ITALIANO

MOTORE DIESEL SERIE TNE

MANUALE DI ISTRUZIONI

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8. Mise au dépôt pour une longue période de temps

(1) Ranger le moteur dans un emplacement bien ventilé loin de la poussière et de l'humidité.

(2) Suivre soigneusement ces instructions lorsque l'on range le moteur pour une longue période de temps (3 mois ou davantage):

1) Eliminer la boue, l'huile, etc., de la surface du moteur.

2) Changer l'huile du moteur.
Changer le filtre d'huile de lubrification.

3) Faire marcher le moteur une fois par mois lorsque cela est possible. Sinon suivre ces instructions à partir du début de la mise au dépôt, et par la suite tous les 6 mois.

- Enlever les soupapes d'injection de combustible des cylindres. Fournir à chaque chambre de combustion environ 2 cm^3 d'huile propre pour moteur en utilisant une boîte d'huile. Fixer et serrer les soupapes d'injection.
- Tourner le levier de l'accélérateur sur la position d'arrêt "STOP".
- Tourner la clef du démarreur. Actionner le moteur pendant 10 secondes de telle manière que les parois de cylindre puissent être huilées uniformément.

4) Laisser l'eau de refroidissement avec l'anti-gel dans cet état, à condition que l'anti-gel ne soit pas trop vieux.

5) Appliquer une mince couche d'huile propre sur n'importe quelle surface à découvert du moteur.

6) Recouvrir le silencieux d'échappement, le filtre à air, etc. avec une feuille de plastique pour empêcher l'air humide de pénétrer dans le moteur. Protéger soigneusement le système électrique contre l'humidité de la même manière.

7) Enlever les batteries du moteur et les charger complètement avant de les ranger. En outre charger les batteries chaque mois au cours du dépôt, car celles-ci se déchargent naturellement (auto-décharge).

⚠ PRECAUTION:

- **Ne pas fournir plus de 2 cm^3 d'huile à chaque cylindre, sinon l'intérieur du moteur risque d'être endommagé.**

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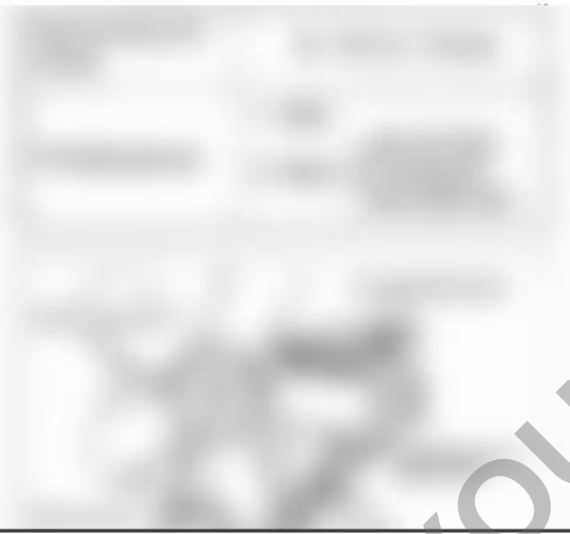
(1) Die Einstellschraube lösen und die Lichtmaschine zur Erhöhung der Riemenspannung nach außen versetzen, zur Verringerung der Spannung nach innen versetzen.

(2) Vorsicht, damit kein Öl auf den Keilriemen gelangt. Ein mit Öl verschmutzter Keilriemen rutscht durch.

1) Den Motor außen von Schmutz, Öl usw. reinigen.

2) Das Motoröl wechseln.
Das Schmierölfilter wechseln.

3) Den Motor möglichst einmal monatlich laufen lassen. Ist dies nicht möglich, die folgenden Hinweise bei ‚Beginn der Einlagerung und alle nachfolgenden sechs Monate



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⚠ PRECAUCION:

- **Si se usa el motor en lugares con mucho polvo, limiar el elemento cada 50 horas.**
- **No golpear el elemento contra objectos sólidos para remover el polvo. El elemento puede deformarse y dañarse, y el polvo podría entrar a través de las grietas.**

7-6. Chequeo del equipo eléctrico

Chequeo de las lámparas pilotos

Verificar si las lámparas piloto funcionan correctamente. Si hay alguna anormalidad, parar inmediatamente el funcionamiento del motor y ponerse en contacto con el distribuidor Yanmar más cercano.

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