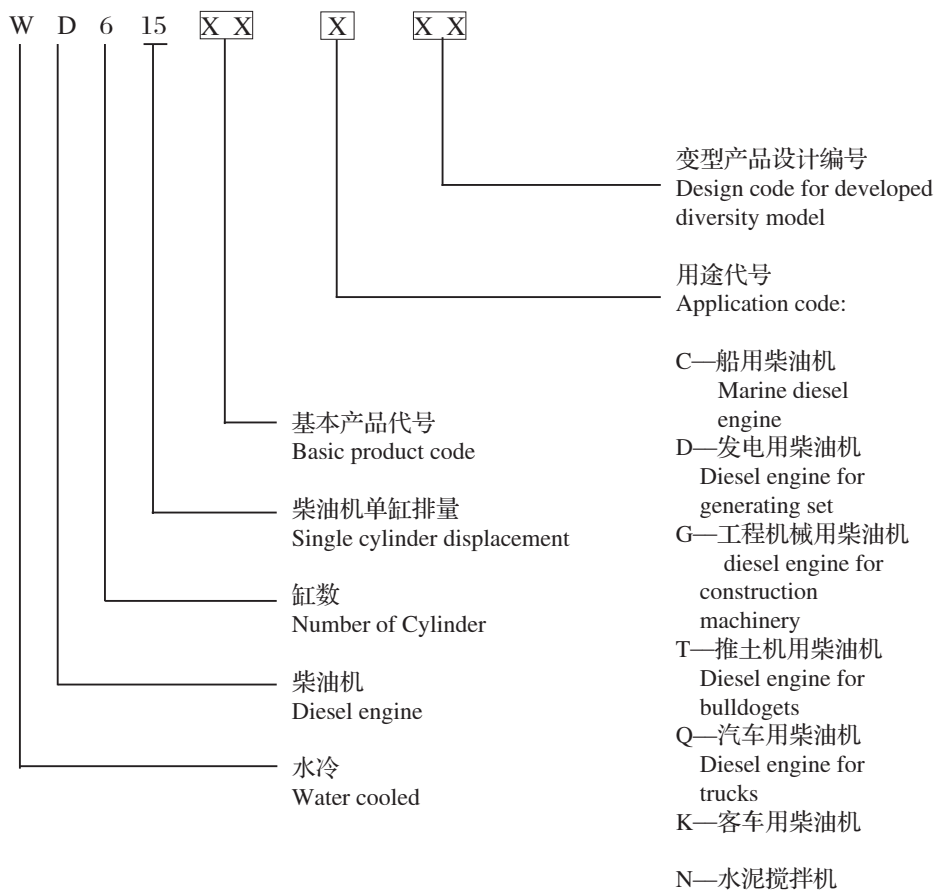


1. 柴油机使用说明

Usage Instructions

1.1 WD615系列客车柴油机代号的含义

The signification of the code of WD615 Series Diesel Engines



1.2 新柴油机使用须知

Operating notice for new diesel engine

- 汽车用柴油机，在汽车使用的最初2000km（约60h）内应限制柴油机转速不超过标定转速的80%。

For vehicle engines, the engine's rotating speed should be limited within 80% of its rated speed during its initial 2000km running (approximately 60h).

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2.2.2 保养项目

Maintenance Items

保养项目 Items	更换 Replacement	调整 Adjustment	检查 Inspection
第1次检查 The 1 st inspection	机油 Oil 机油滤清器 Oil filter	气门间隙 Valve clearance	紧固管路管夹 Tighten pipe clamps 紧固三角皮带 Tighten V-belts
例行检查 Periodical inspection	机油 Oil 机油滤清器 Oil filter		紧固三角皮带 Tighten V-belts
1级保养 WD1	机油 Oil 机油滤清器 Oil filter 燃油滤清器 Fuel filter	气门间隙 Valve clearance	空气滤清器 Air filter 进气系统 Air intake system 紧固管路管夹 Tighten pipe clamps 紧固三角皮带 Tighten V-behs
2级保养 WD2	机油 Oil 机油滤清器 Oil filter 燃油滤清器 Fuel filter	气门间隙 Valve clearance	空气滤清器 Air filter 进气系统 Air intake system 紧固管路管夹 Tighten pipe clamps 紧固三角皮带 Tighten V-belts

更换机油和机油滤清器，以清除悬浮在机油中的杂质。

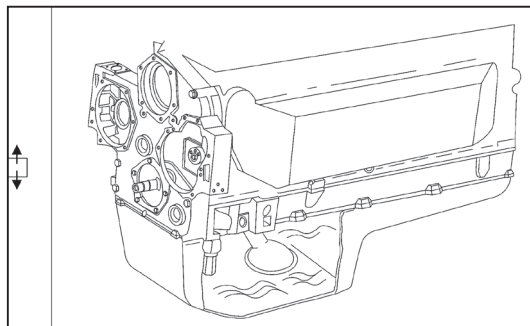
Replace the oil and oil filter to clean the impurities containing in oil.

注意：应在机油是热的时候放油

Note: The oil should be drained off when it is hot.

32mm 开口扳手

Tool: 32mm open-ended wrench

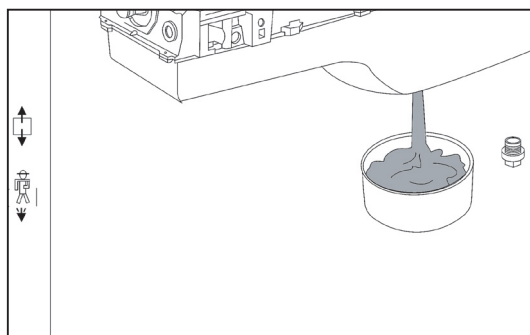


拆下放油螺塞，准备收集 20L 机油。

Remove the drain plug, prepare a container to collect 20L of oil.

注意：热机油会伤人

Note: Hot oil can injure people.



13mm 套筒扳手

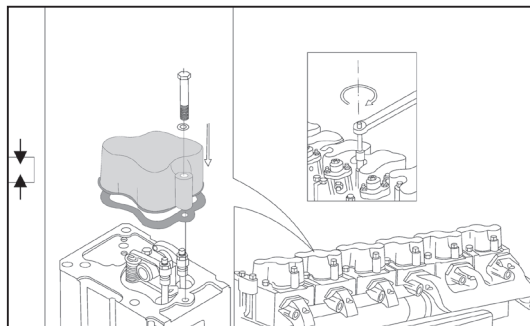
Tool:13mm sleeve wrench

安装气缸盖罩垫片和气缸盖罩。

Install the gasket and cylinder head cover

螺栓拧紧力矩 $23\text{N} \cdot \text{m}$ (推荐数值)。

The tightening torque of bolt is $23\text{N} \cdot \text{m}$ (recommended)

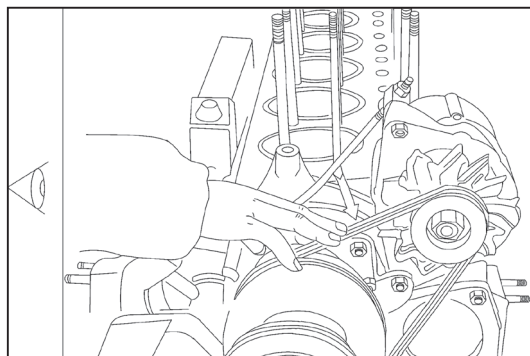


检查三角皮带涨紧力

Check the tension of V-belts

在三角皮带的最大跨距上测量其挠度：一般要求在强有力的大拇指压力下，皮带挠度不大于10mm。

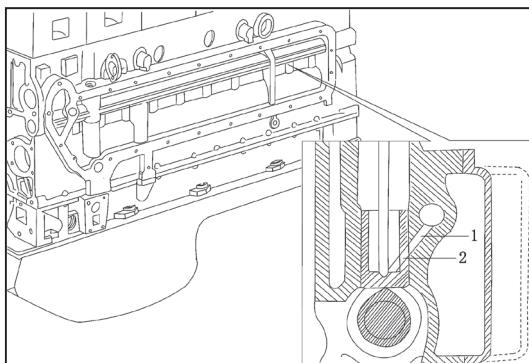
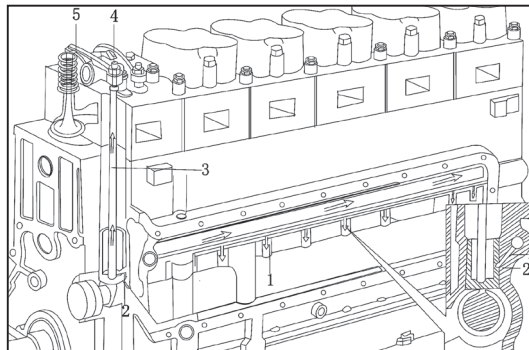
Measure the flexibility of the V-belt at the middle of its biggest span, generally the requirement result should be less than 10mm under strong press by your thumb.



摇臂机构的润滑

Lubricating for rocker arm system

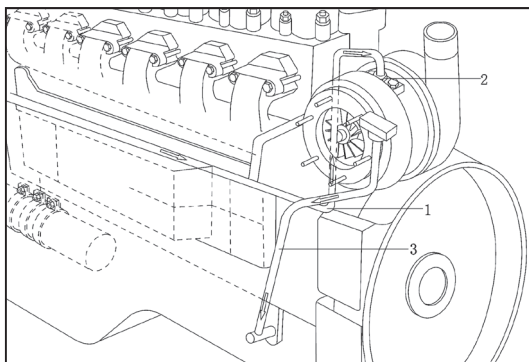
1. 主油道斜油孔来油
Oil flowing from the oil branch passage
2. 挺柱油孔
Tappet oil hole
3. 挺杆油孔
Push rod oil hole
4. 摇臂螺钉油孔
Oil hole of rocker arm bolt
5. 摇臂油孔
Oil hole of rocker arm



增压器的润滑

Lubricating turbocharger

1. 主油道来油
Oil from the main oil passage
2. 增压器进油口
Oil inlet of turbocharger
3. 增压器回油口
The oil outlet of turbocharger



7. 机油泵惰轮轴螺栓:

Bolt / Oil Pump Idler

Gear Shaft

M10 16mm套筒扳手

Total nos. : 1 piece M10 bolt

Tool: 16mm sleeve wrench

一次拧紧到 $60^{+5} \text{N} \cdot \text{m}$

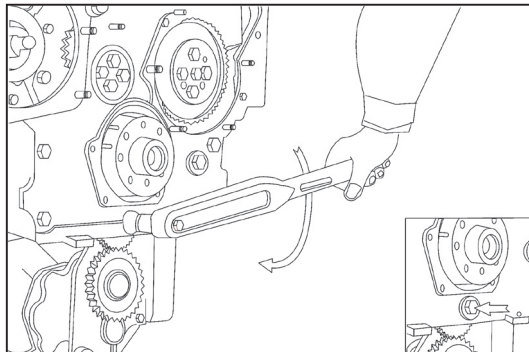
Tighten the bolt with a torque of

$60^{+5} \text{N} \cdot \text{m}$.

拧入前螺纹部位涂乐泰密封胶242。

Coat the thread with LOCTITE 242

THREADLOCKER before tightening.



8. 摇臂座螺栓:

Bolt / Rocker-Arm Support

12根M12

Total nos. : 12 pcs M12 bolts

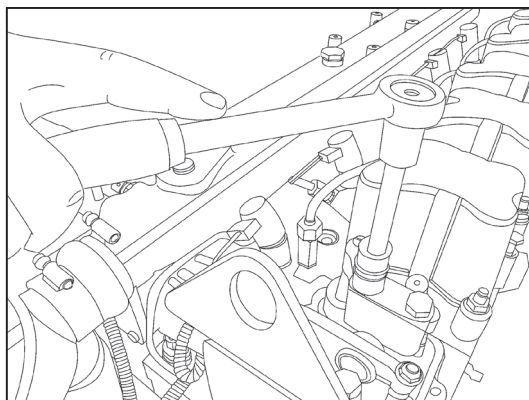
18mm套筒扳手

Tool: 18mm sleeve wrench

一次拧紧到 $100 \text{N} \cdot \text{m}$

Tighten these bolts with a torque of

$100 \text{N} \cdot \text{m}$.



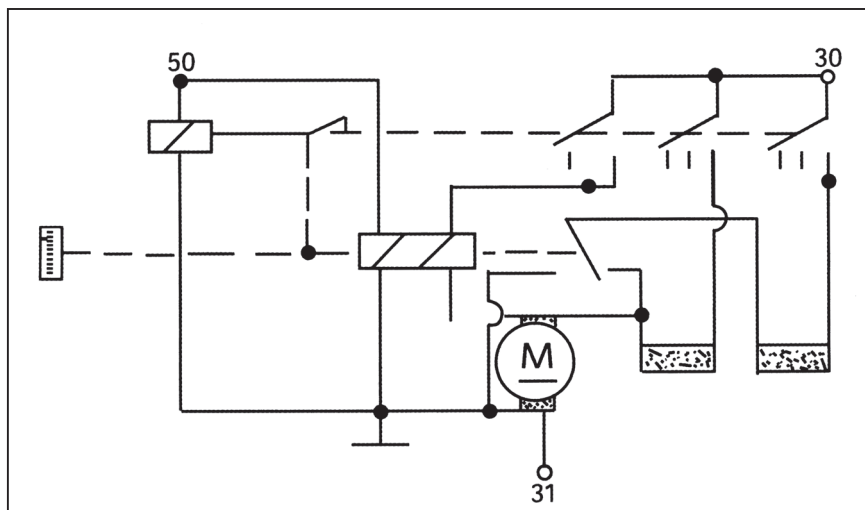
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机油压力感应塞:

Induction plug of oil pressure

工作温度 $-25\sim 100^{\circ}\text{C}$

Operating Temperature: $-25\sim 100^{\circ}\text{C}$

测量范围 $0\sim 500\text{kPa}$

Measurement Range: $0\sim 500\text{kPa}$

报警压力 $45\sim 75\text{kPa}$

Alarm Pressure: $45\sim 75\text{kPa}$

额定电压 $6\sim 24\text{V}$

Rated Voltage: $6\sim 24\text{V}$

水温表传感器

Sensor of water temperature meter

工作温度 $-25\sim 120^{\circ}\text{C}$

Operating Temperature: $-25\sim 120^{\circ}\text{C}$

额定电压 $6\sim 24\text{V}$

Rated Voltage: $6\sim 24\text{V}$

蓄电池

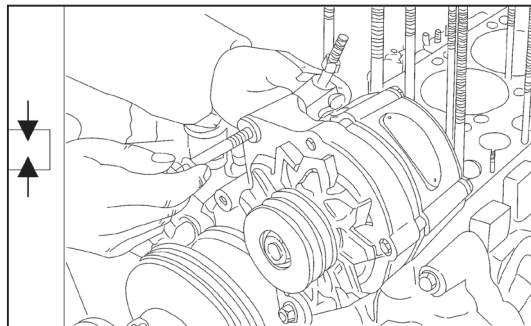
Battery

$2\times 12\text{V } 135\text{Ah}$ 可选用 165Ah 或 195Ah

$2\times 12\text{V } 135\text{Ah}$ or 165Ah or 195Ah

装上发电机

Install generator.

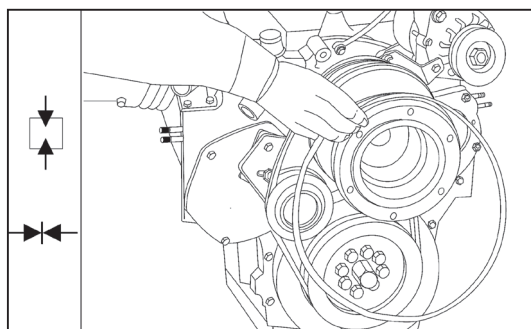


16mm开口扳手，铁棒

Tool: 16mm open-ended
wrench and pontil

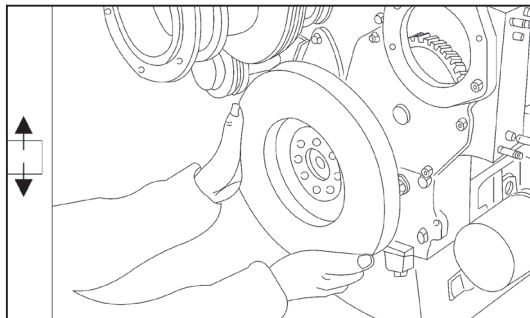
安装三角皮带，调好涨
紧度拧紧涨紧轮上M10六角
锁紧螺母。

Install the V-belt and
adjust the tensity, tighten M10
hexagon lock nuts of tightening
pulley.



拆下皮带轮和减振器，减振器和曲轴为过渡配合，必要时可以轻击减震器。

Remove the pulley and damper, the damper and crankshaft is transition fit, the damper can be knocked slightly if it is necessary for removing.

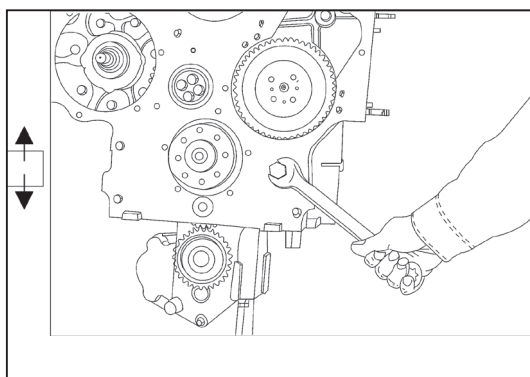


22mm 开口扳手

Tool: 22mm open-ended wrench

拆下齿轮室处六角螺塞。

Remove the hex head plug screws of gear case.

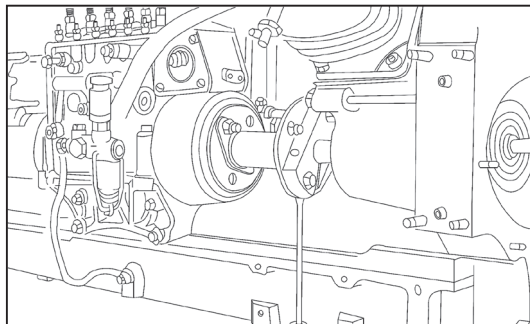


6# 螺丝刀 0.5kg

Tool: 6# screwdriver 0.5 kg

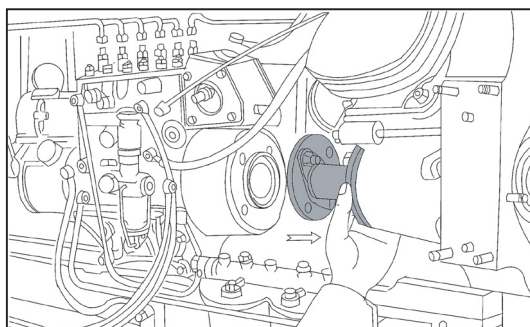
撑开联轴器与驱动轴连接角度调节板上的缺口。

Open the gap on the angle regulating plate connecting the coupler and the driving shaft.



后推联轴器。

Push shaft coupling backward.

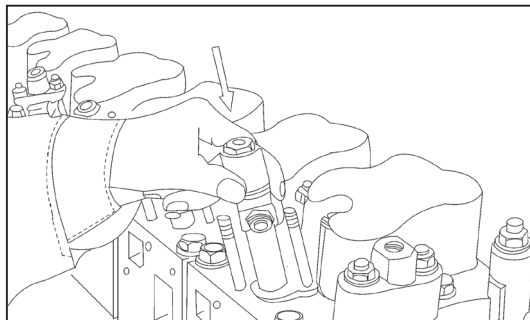


将新的喷油器装入喷油器座孔。

Install new injector into the seat hole.

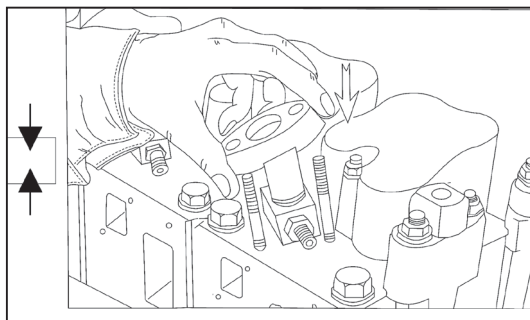
注意：装好喷油器后胶圈不得有压挤现象。

Note: It is not allowed to appear any mark of pressing rubber cushion after mounting injector.



安装喷油器固定板。

Install the mounting plate of injector.



9.5 排气冒黑烟

Black smoke exhaust

1.进气堵管或排气背压高 Air intake isn't free or exhaust back pressure is too high	清理之 Clean
2.燃油质量差 Poor quality of fuel	清洗及更换 Clean and renew
3.配气或供油定时不对 Incorrect timing of valve gear or fuel supply	按规定调整 Adjust according to requirements
4.喷油嘴雾化不良 Poor atomizing	检查, 修复或更换 Check, repair or replace injector
5.喷油泵油量过多 Excessive injection quantity	检查并调整(由专业厂进行) Check and adjust (by manufacturer)
6.增压系统压力不足 Insufficient pressure in supercharging system	检查排除管路和连接处漏 Check and block up the leakage of pipeline and connector
7.增压器工作失常 Faults in turbocharger	检查更换总成 Check and replace
8.中冷器损坏, 漏气 Intercooler damaged or leaked	更换或修补 Replace or repair
9.冒烟限制器起作用点不对 Incorrect working point of smoke-limiter	重新调整(由专业厂进行) Readjust (by manufacturer)

9.18 发电机充电过多

Generator over-charged

1. 蓄电池内部短路 Shorted in battery	修复或更换 Repair or replace
2. 调节器电压过高 Voltage of regulator is too high	修复并调整 Repair and regulate
3. 调节器搭铁不良 Bad contact in regulator	修复 Repair
4. 调节器触头失灵, 污染, 电压线圈或电阻接线断开 Faults in regulator contact, voltage coil or resistance connecting wire broken	修复或更换 Repair or replace

9.19 发电机有不正常声音

Abnormal sound in generator

1. 发电机安装不当 Incorrect mounting for generator	修复 Repair
2. 轴承损坏 Bearing damaged	更换轴承 Replace
3. 转动部分已触及固定部分 Moving parts bumping to fixed parts	修复或更换 Repair or replace
4. 整流器短路 Rectifier shorted	更换 Replace
5. 定子线圈短路 Stator coil shorted	修复或更换 Repair or replace

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