PARTS & SERVICE NEWS

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Page 1 of 6

SUBJECT: INTRODUCTION OF IMPROVEMENT IN ACCELERATION TIME AT

HIGH ALTITUDES (above 1524m (5000 ft))

PURPOSE: To introduce the improvement of acceleration time at high altitudes

APPLICATION: WA450-5L Wheel Loader Serial Number A36001 to A36155, Engine S/N up to

WA450AD-5 Wheel Loader, Engine S/N up to 311562 WA470-5 Wheel Loader, Engine S/N up to 311662 WA470HH-5 Wheel Loader, Engine S/N up to 311507 WA480-5 Wheel Loader, Engine S/N up to 311574

WA480-5L Wheel Loader Serial Number A37001 to A37045, Engine S/N up to

WA480AD-5 Wheel Loader, Engine S/N up to 3 115/5 WA480HH-5 Wheel Loader, Engine S/N up to 317626

FAILURE CODE: A010NG

The acceleration performances of the engines on the above Wheel Loaders at **DESCRIPTION:**

> high altitudes have been improved. The efore, they are affected by this **Parts** & Service News. Applicable for wheel Loaders working at high altitudes up to a

maximum of 2300m. (75/0 A)

MACHINE PREPARATION

- Park the machine on a flat level surface; ower the work equipment to the ground. Shut off the engine and cycle the controls o emove any residual hydraulic pressure from the work equipment circuits. Turn the parking back witch on and block the tires.
- Remove the key from the ignition switch until the repairs are complete. Place a tag on the steering 2. controls advising: "This machine is being repaired. It should not be started or moved for any reason until the tag is removed by the person doing the repairs."



WARNING! Observe all safety and precautionary standards as dictated by the environment and work conditions under which the equipment will be inspected, reworked and repaired. consult the "Shop Manual" and "Operator's and Maintenance Manual" and your "Komatsu district service manager" with any/all questions regarding safety.

Remark

These instructions are intended to supplement the service data contained in the appropriate "Shop Manual". Always refer to that manual for Removal, Installation, Disassembly and Reassembly instructions when not contained in this document.



PARTS LIST

No.	Part No.	Part Name	Purpose of part	Qty	Remarks	
1	6156-81-8150 (6156-81-8110)	Turbo Ass'y (Turbo Ass'y)	Replacement	1 (1)	A/R change (0.9 ← 1.25)	
2	6156-11-5480	Plate		1		
3	6138-13-4250	Gasket		1		
4	01252-61035	Bolt		6	•	
5	6212-15-5831	Gasket		1	Consumable part when replacing	
6	6221-51-8160	Gasket		1	Consumable part then replacing	
7	6151-51-8721	Gasket		1	Consumable part when replacing	
8	6150-11-5751	Gasket		1	Consumable part when replacing	
9	7872-20-5127	Disc			Controller rewrite disc for the	
10	421-06-32410	Wiring Connector		1	For WA450-5/WA470-5	
11	421-06-32420	Wiring Connector		Q	For WA480-5	

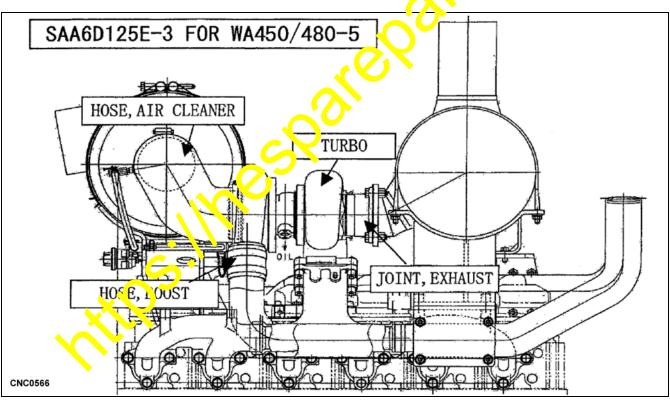
WA450 and WA483 Parts Matrix

	WA450-5L A36000 to A36155 261 Hp	7A450-5L 2C156 and UP 261 Hp	WA480-5L A37000 to A37045 271 Hp	WA480-5L A37046 and UP 271 Hp
Controller	7872-20-510	7872-20-5105	7872-20-5104	7872-20-5105
Turbo	6156 81 8110	6156-81-8150	6156-81-8110	6156-81-8150
Wiring Harness Connector (CN-L90)	421-\\6-32321	421-06-32410	421-06-32330	421-06-32420
Monitor panel SW	2	2	3	3

CONTENTS

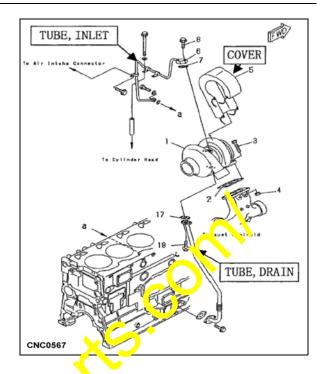
- ★ Turbocharger (A/R $0.9 \leftarrow$ A/R 1.25)
- **★** Engine Controller
- ★ Connector (Wire harness for the vehicle body)
- ★ Changing the engine nameplate
 - 1. In order to intake a sufficient amount of air at the high altitude, the turbocharger is changed.
 - 2. The engine controller is changed in conjunction with the turbocharger update.
 - 3. In order to select the correct program, which improved the acceleration at the high altitude, the connector is changed.
 - 4. The turbocharger and the engine controller are changed. For this reason, the carrier nameplate contents are changed.

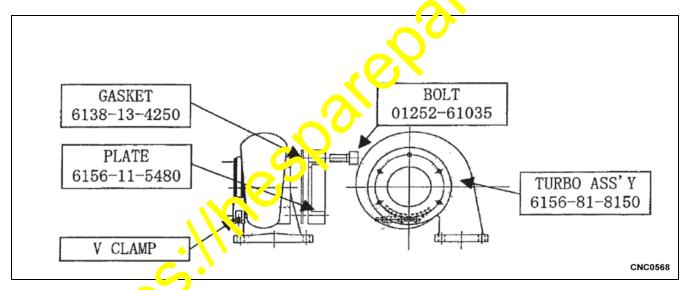
REPLACEMENT PROCEDURES FOR THE TURBOCHAPGER



★ Disassembly

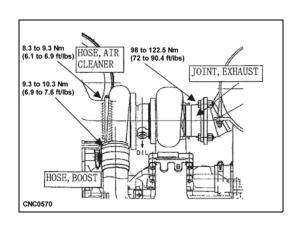
- Remove the cover
- Remove the bolts that hold the oil supply and drain tubes in place
- Remove the air filter ducting and turbocharger ducting including the exhaust joint
- Loosen the turbocharger installation bolts and remove the turbocharger



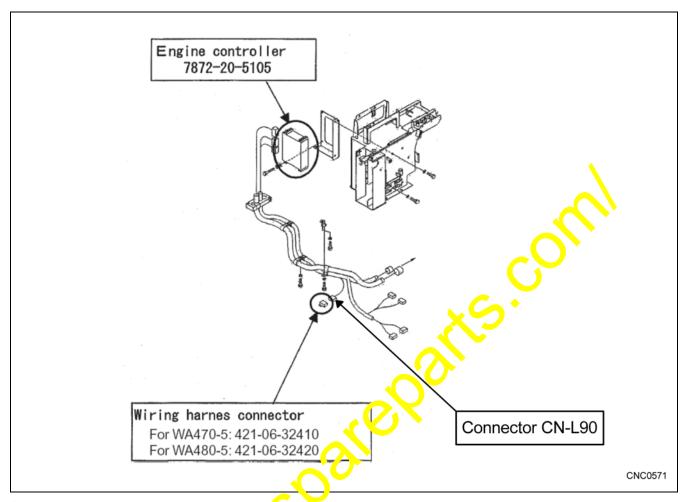


★ Assembly

- Before conjecting ducts inspect turbocharger inlet and outlet for any debris.
- Connect the exhaust joint to the muffler and tighten the bolts
- Connect the air filter ducting and tighten the clamps
- Connect the turbocharger outlet duct and tighten the clamps
- Install cover



INSTALLING AND PROGRAMING THE ENGINE CONTROLLER



★ Disassembly and Assembly

- The engine controller is installed to the bottom surface of the right side counsel beside the operators seat
- Remove the cover at the right side of the counsel
- Remove the engine controller
- Update controller vith the rewrite disc
- Install updated controller
- Install the cover on he side of the conical

★ Changing the Connector

- The connector is installed on the vehicle harness. (see illustration above)
- Remove the connector
- Install the new connector (CN-L90)

RELABLING THE ENGINE NAME PLATE

After the turbocharger and the engine controller are changed, the engine nameplate must also be changed. Delete the old code in "Engine Code" on the engine nameplate and write in the new code.

