SERVICE MANUAL

E485C

Hino Diesel Engine

Supplement to Service Manual 84557350A

Print no. 84561180A
1st Edition
English 12/11

NEW HOLLAND CONSTRUCTION

MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement | Publ... Order the manual at mid-west-tech.com >

ENGINE

(HINO DIESEL ENGINE P11C-VC)

CONTENTS



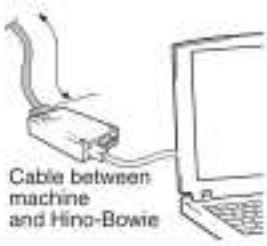
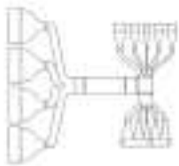
Group 1	General	W5-1
Group 2	Standard Value	W5-2
Group 3	Parts to be prepared	W5-3
Group 4	Engine mounting/dismounting	W5-4
Group 5	Fuel System	W5-5
Group 6	Emission Control	W5-6
Group 7	Electrical	W5-7
Group 8	Intake	W5-8
Group 9	Engine Mechanical	W5-9
Group 10	Exhaust	W5-10
Group 11	Cooling	W5-11
Group 12	Lubrication	W5-12
Group 13	Starting and Charging	W5-13
Group 14	Turbocharger	W5-14
Group 15	Failure Diagnosis for each Engine Status	W5-15
Group 16	Engine Diagnosis Code	W5-16

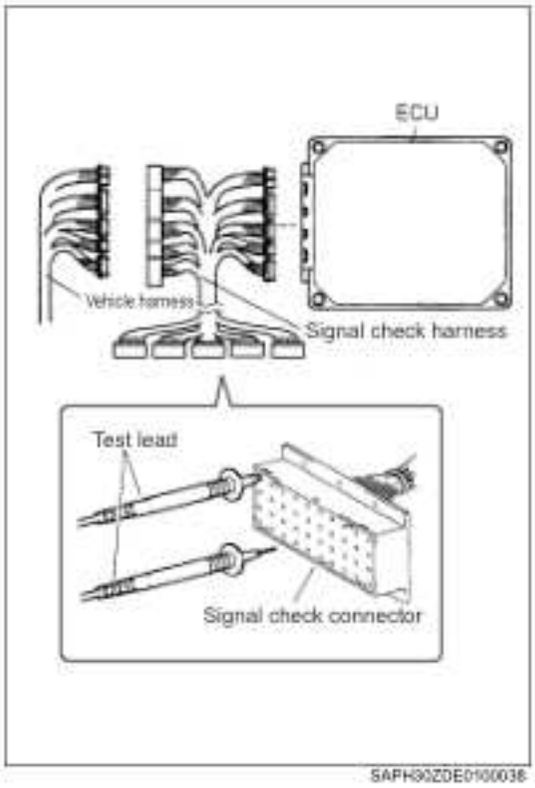
MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >

1 GENERAL

Warning....1-2
How to read this manual....1-3
Precautions for work....1-7
Tightening of engine bolts and nuts....1-11
Tightening of flare nuts and hoses....1-13
Taper thread sealant for piping....1-14
Assembly of joints and gaskets for piping....1-15
Handling of liquid gasket....1-17
Failure diagnosis table for each problem....1-18
Failure diagnosis procedures....1-19
Failure diagnosis using Hino DX....1-21
Connection method of Hino DX....1-24
Engine number....1-25

MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >

Part name	Part No.	External shape	General description and function
Cable between machine and Hino-Bowie	S0904-21220 (09042-1220)		Cable for machine side diagnosis connector.
Signal check harness	09843-E9020		Interrupting installation between vehicle harness and ECU allows inspection with a tester rod while the power is supplied.



SAPH30ZDE0100038

3. Connection of signal check harness

(1) To prevent damage to the ECU connector and to improve accessibility, connect the signal check harness and put a testing rod on the signal check connector of the signal check harness for meaurement.

a. Disconnect the connector from the ECU.

⚠ **CAUTION** • **Do not break the locking tab of the connector.**

b. Connect the signal check harness to the machine harness and the ECU.

MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >

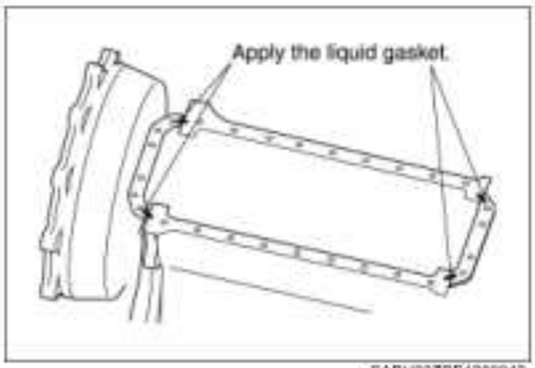
Replacement

JP300011207040O4

1. Removal of the oil pan

(1) Remove bolts and remove the oil pan.

⚠ CAUTION • **If the gasket is sticking, remove it using a scraper, etc.**



SAPH90ZDE1200042

2. Installation of the oil pan

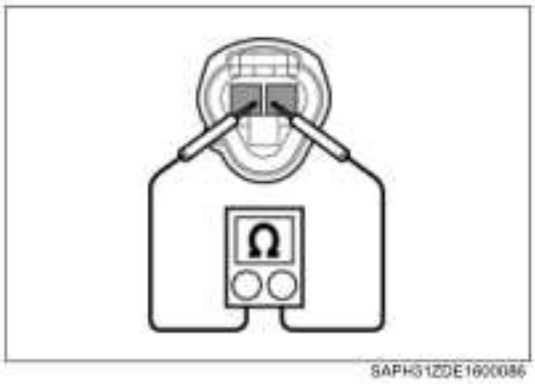
(1) Apply a small amount of liquid gasket [Threebond TB1211 (white)] to the step of the joint surface between the timing gear case and the cylinder block and between the flywheel housing and the cylinder block.

(2) Replace the gasket with a new one and install the oil pan.
Tightening torque :
31 N·m {310 kgf·cm, 23 lbf·ft} (M8)
44 N·m {450 kgf·cm, 32 lbf·ft} (M10)

⚠ CAUTION • **Wipe off oil on the oil pan and cylinder block before installation.**

MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >

2	CHECK THE RESISTANCE BETWEEN TERMINALS



SAPHS1ZDE1600086

1. Set the starter switch to "LOCK" and connect the signal check harness.
2. Disconnect the connector of EGR coolant temperature sensor. on the ECU side.

NOTICE • **Measure the resistance under any of the following conditions.**

Coolant Temperature	Resistance
20°C {68°C}	2.45 kΩ
40°C {104°C}	1.15 kΩ
60°C {140°C}	584 Ω
80°C {176°C}	318 Ω

NG → Malfunction of EGR coolant temperature sensor

OK

Harness disconnection (open)
Malfunction of the connector

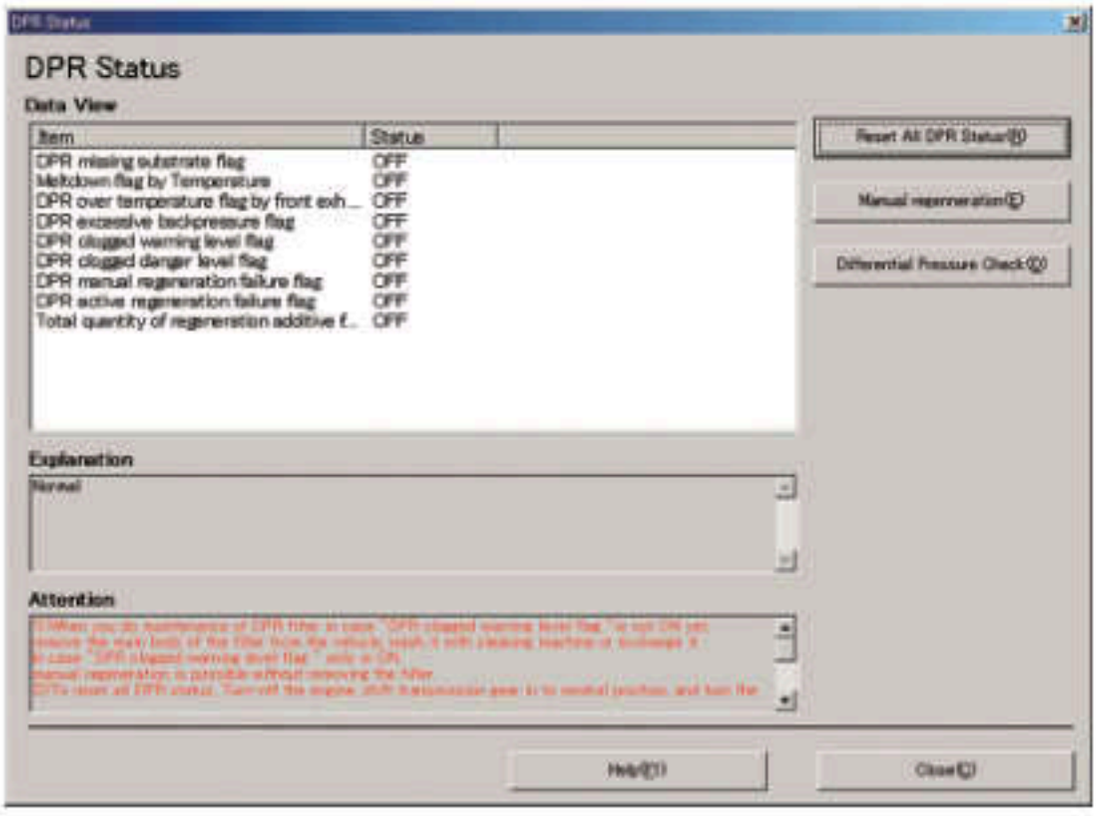
MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >

Example of the Hino DX check screen

1. DPR Reset Confirmation.

(1) Monitoring/ Check/ Forced regeneration of DPR status can be performed.

DPR Reset Confirmation window



SAPH30ZDE1000011

MidWestTech | New Holland E485C Hino Diesel Engine Service Manual Supplement |... Order the manual at mid-west-tech.com >