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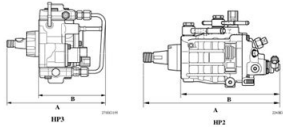
so many fake sites. this is the first one which worked! Many thanks

ENGINE - 1KD-FTV AND 2KD-FTV ENGINES EG-137

Supply Pump

1) General

This supply pump (HP) type has been made shorter than the HP type that is used on other models. This has been accomplished through the adoption of an opposing plunger configuration and by reducing the number of plungers from 4 to 2, resulting in a compact and lightweight supply pump.



* Specifications *

Model	New HPlan	Other Model
Type	HP3 (Outer Cam)	HP2 (Inner Cam)
A Length mm (in.)	199.0 (7.87)	252.0 (9.92)
B Length mm (in.)	129.0 (5.08)	182.1 (7.17)
Suction Control Valve	1	2
Plunger	± 0.5 ± 2	± 0.0 ± 4
Weight g (lb)	3,800 (8.36)	6,040 (13.32)

Service Tip

The engine ECU learns and memorizes the pump discharge volume variances associated with the individual differences in the supply pump. Therefore, make sure to perform the operation described below after replacing the supply pump. For details, see the HPlan Repair Manual.
* Connect an intelligent tester to the DLC2 connector and use the tester to reset the learned value. Alternatively, connect the SST (99843-10040) between the TC and CG terminals of the DLC2 connector, and leave the ignition switch ON for approximately 2 minutes to reset the learned value.
* After resetting, start the engine, allow it to idle* for approximately 1 minute, and turn the ignition switch OFF to enable the engine to memorize the learned value.
*: The engine coolant temperature should be 60°C (140°F) or more, and the fuel temperature should be 20°C (68°F) or more.

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