

# RC8 & RC8A Engine Board Compatibility

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## DNWA Release

### Engine Board 5 and CFast (30G)

#### Engine Board 5

In September 2020, engine 4 board (standard specification) which was the unit for CPU inside the RC8A controller has been changed to engine 5 board (standard specification).

In addition, CFast (4G) flash memory card with the OS saved has also been changed to CFast (30G).

Engine 5 board (standard specification) has an forward compatibility with engine 4 board (standard specification) and can replace the engine 4 board (standard specification) when its damaged.

Note that when replacing engine 4 board (standard specification) with engine 5 board (standard specification), CFast (4G) must also be replaced with CFast (30G).

Engine 4 board (standard specification) cannot replace engine 5 board (standard specification) when engine 5 board (standard specification) is damaged.

Engine 4 board will continue to be used for RC8A controller (high spec specification).

#### Engine 4 Board and Engine 5 Board

##### | Exterior

Fig. 1-1 and 1-2 show the exterior of the engine 4 board (standard specification) and engine 5 board (standard specification).

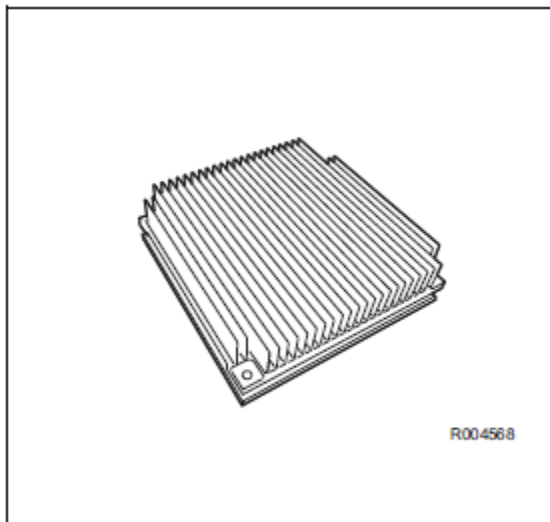


Fig.1-1: Exterior of engine 4 board (standard specification)

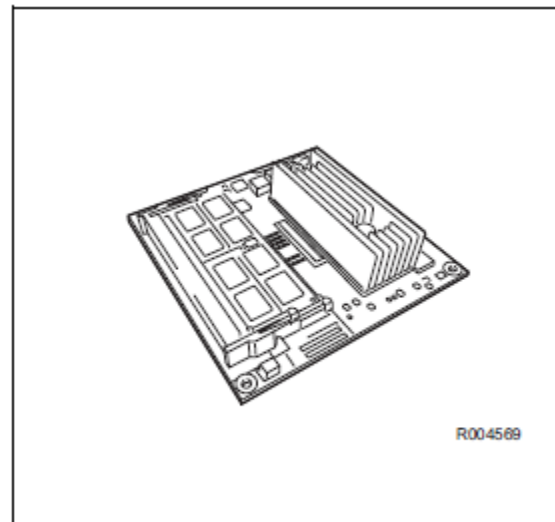


Fig.1-2: Exterior of engine 5 board (standard specification)

## Engine board 4:

Part number: 410010-6220

Status – Discontinued & no stock (Denso suppliers no longer make parts of this board / no components)

Description – Square board covered by large square heat sink. 95mm x 90mm x 28mm.

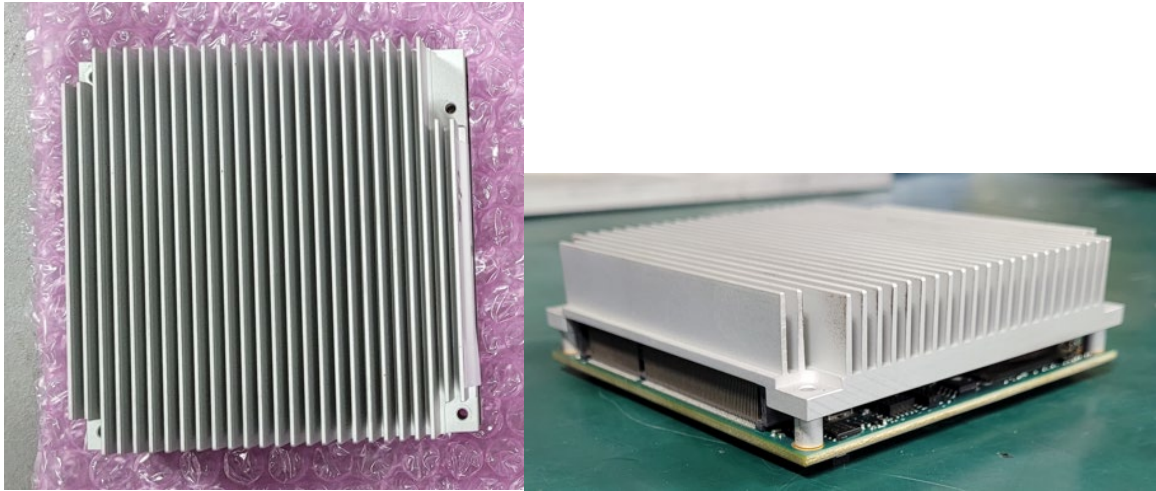


Photo -

Notes – Released Nov 2012. Discontinued 2019. Spare parts out of stock out January 2022. Compatible with 4GB, 8GB, and 32GB C-fast card. Only compatible with XP ROM Image.

Action: When Engine board 4 becomes damaged on RC8 or RC8A the controller must be upgraded to Engine board 5. To upgrade controller from engine board 4 to engine board 5 – 410010-8740 (Engine 5) and 410122-0430 (32 GB C-Fast card) must be changed. After the hardware upgrade, a Windows 10 ROM image must be installed and FPGA update must be performed on FRAM board. We recommend controllers with damaged Engine 4 be sent to DPAM for upgrade to Engine 5.

## Engine board 4 (High Spec CPU):

Part number 410010-7670

Status: In support – spare parts available

Description: Rectangular board covered by large rectangular heat sink. 125mm x 92mm x 28mm



Photo:



Notes: Released Sep 2013. Compatible with 8GB and 32GB C-Fast card. Only compatible with I7 ROM image

Action: If Engine Board 4 with High Spec CPU has failed, replace with Engine Board 4 High Spec CPU. Engine board is plug and play. No additional hardware or software necessary when replacing High Spec CPU with High Spec CPU.

## Engine board 5:

Part number 410010-8740

Status – In support

Description – Square board covered by small rectangular heat sink. 95mm x 90mm x 28mm



Photo -

Notes - Released Sep 2020. Compatible with 32GB C-Fast Card. Only compatible with Win 10 ROM image. Replacement for discontinued Engine board 4.

Action - If Engine Board 5 has failed, replace with Engine Board 5. Engine board is plug and play. No additional hardware or software necessary when replacing Engine 5 with Engine 5. Handle with care & only apply pressure to highlighted areas when attaching board to controller. Pressing board in non-designated areas will damage the board.

