

KDE DIRECT 2315XF BRUSHLESS MOTOR SERIES INSTALLATION INSTRUCTIONS

DJI™ PHANTOM® 2/3 SERIES

Thank you for purchasing the KDE2315XF Brushless Motor Series upgrade for your DJI™ Phantom®. Please follow the instructions for proper installation and flight control; and enjoy the enhanced performance and efficiency of the new power system.



DJI™ PHANTOM® 2/3 DISASSEMBLY

Installation of the KDE2315XF Brushless Motor Series begins with removal of the upper-case of the Phantom® body. For the DJI Phantom® 2, removal is simple via the use of standard 1.5 mm and 2.0 mm hex wrenches. For the Phantom® 3, removal requires TORX wrenches available at many hardware stores or online, in the T6 and T8 size specification. Additional plastic locking-tabs are found around the case, so releasing these will allow for removal of the upper case (and disconnection of the compass/GPS sensor).

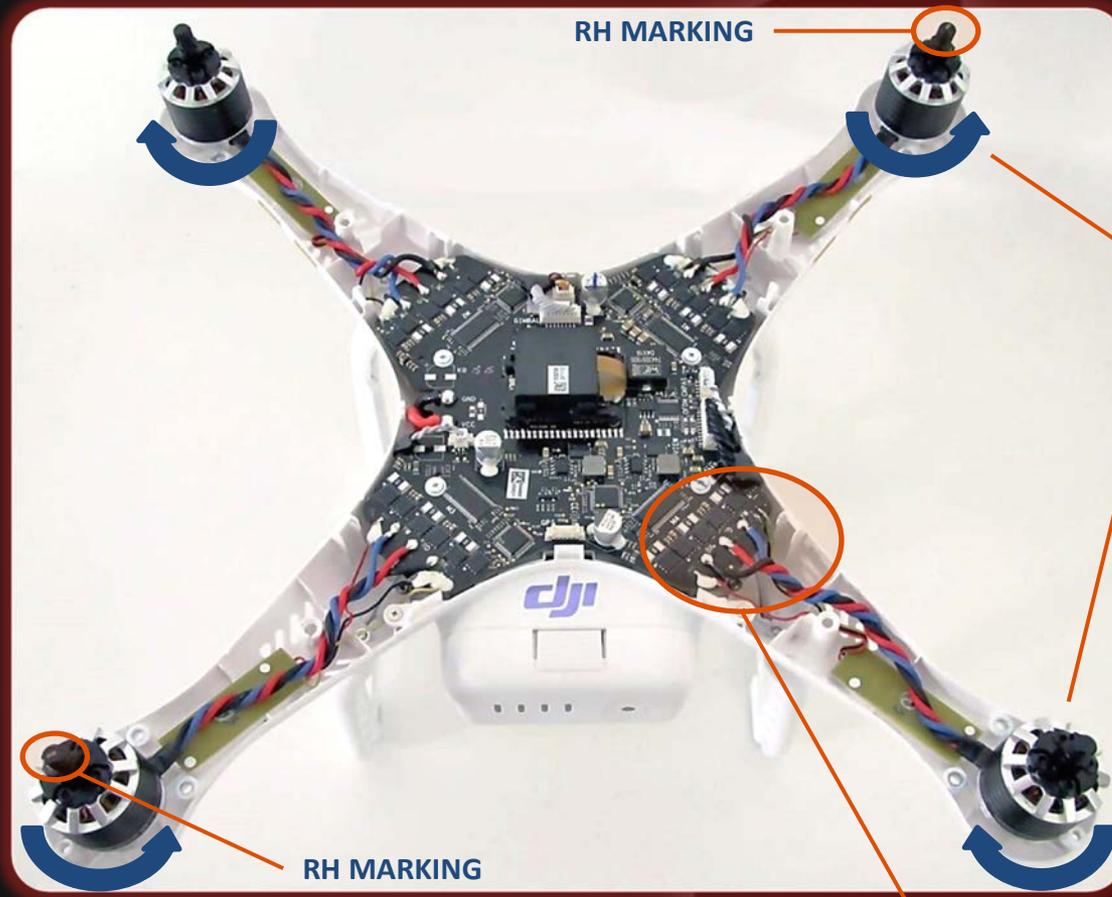
MOTOR MOUNT PREPARATION

Remove the original motors (use the 2.0 mm hex wrench to unscrew the stock M3 socket-head cap screws), exposing the motor mount. For the Phantom® 3 series, four plastic tabs are molded into the mount and are not-required. Simply remove or bend the tabs flush to the motor mount with thumb-pressure, providing proper clearance for the KDE2315XF motor case.



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DJI™ PHANTOM® 2/3 SERIES



DJI™ PHANTOM® 2/3 MOTOR PLACEMENT

Install the KDE2315XF Brushless Motors with the original M3 socket head cap screws, making sure to install into the M3 x $\phi 16/19$ thread-pattern machined into the motors for simple bolt-in fit.

Install the KDE2315XF DJI M6 Propeller Adapters (for the self-tightening 9450 propellers) to the motors with the included M3 x 5 mm button head socket head cap screws.

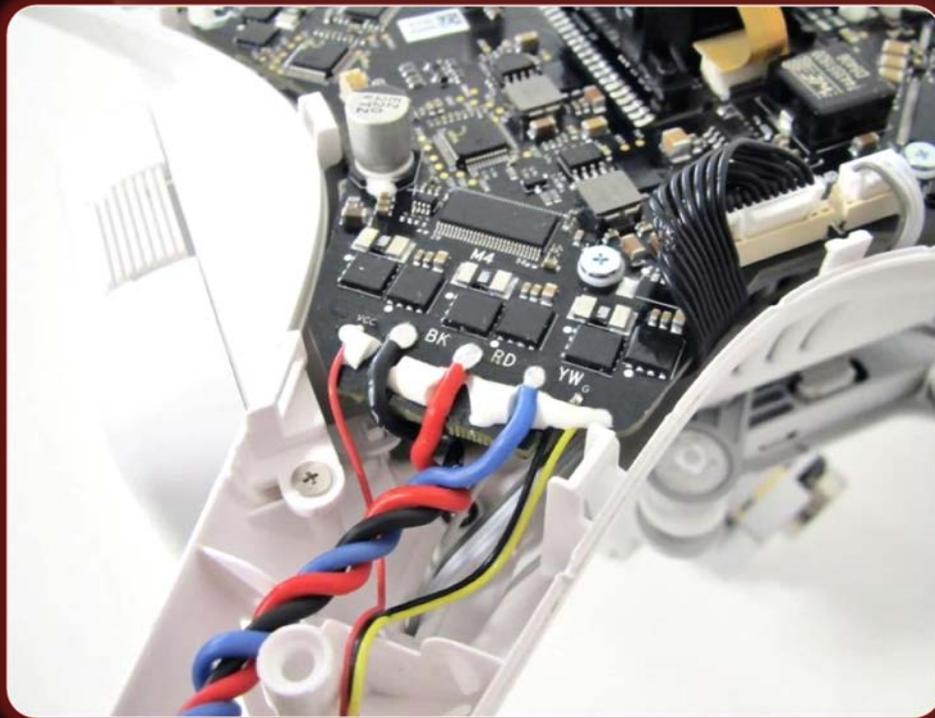
Install the appropriate thread edition (RH and LH edition) according to the image on the left. Please double-check to make sure this is correct.

MOTOR POWER LEAD PREPARATION

The KDE2315XF Brushless Motor power leads can be cut to length and soldered to the existing DJI™ ESC board. The wires are color-coded (black/red/blue) to provide simple installation to the ESC, described in more detail on the following pages.

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DJI™ PHANTOM® 3 SERIES



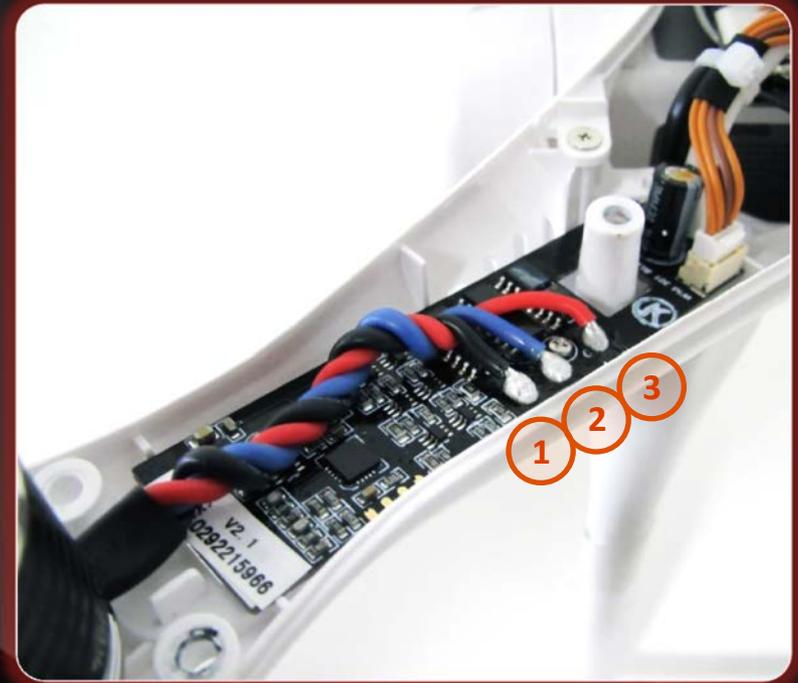
MOTOR POWER LEAD INSTALLATION (PHANTOM® 3)

The KDE2315XF Brushless Motor power leads are color-coded to black/red/blue, which correspond on the DJI™ Phantom® 3 ESC board as "BK/RD/YW" for proper rotational direction. Solder the leads as shown to the correct color-coding table below:

BLACK → BK
RED → RD
BLUE → YW

KDE DIRECT 2315XF BRUSHLESS MOTOR SERIES INSTALLATION INSTRUCTIONS

DJI™ PHANTOM® 2 SERIES



MOTOR POWER LEAD INSTALLATION (PHANTOM® 2)

The KDE2315XF Brushless Motor power leads are color-coded to black/red/blue, which correspond on the DJI™ Phantom® 2 ESC boards as "1/2/3" for proper rotational direction. Solder the leads as shown to the correct color-coding tables below:

Bottom Left and Upper Right Motors (RH)

BLACK → 1
RED → 2
BLUE → 3

Bottom Right and Upper Left Motors (LH)

BLACK → 1
BLUE → 2
RED → 3

KDE DIRECT 2315XF BRUSHLESS MOTOR SERIES INSTALLATION INSTRUCTIONS

DJI™ PHANTOM® 2/3 SERIES



COMPLETED ASSEMBLY AND OPERATION INSPECTION

Re-install the upper case and reconnect the compass/GPS sensor to the Phantom® body. Test for correct operation of the motors and rotational direction before installing the propellers for safety.

Once proper operation is confirmed, reinstall the self-tightening propellers to the KDE2315XF Brushless Motors. The gray or white-capped propellers will be installed to the RH adapters, and the black-capped propellers will be installed to the alternate adapters (LH).

Confirm the propellers are fully-tightened (to prevent loosening from active-braking), and now the upgraded DJI™ Phantom® is ready for operation and smooth, high-efficiency flight.