

S68 JB4 Install Guide

Last updated 5/09/2023

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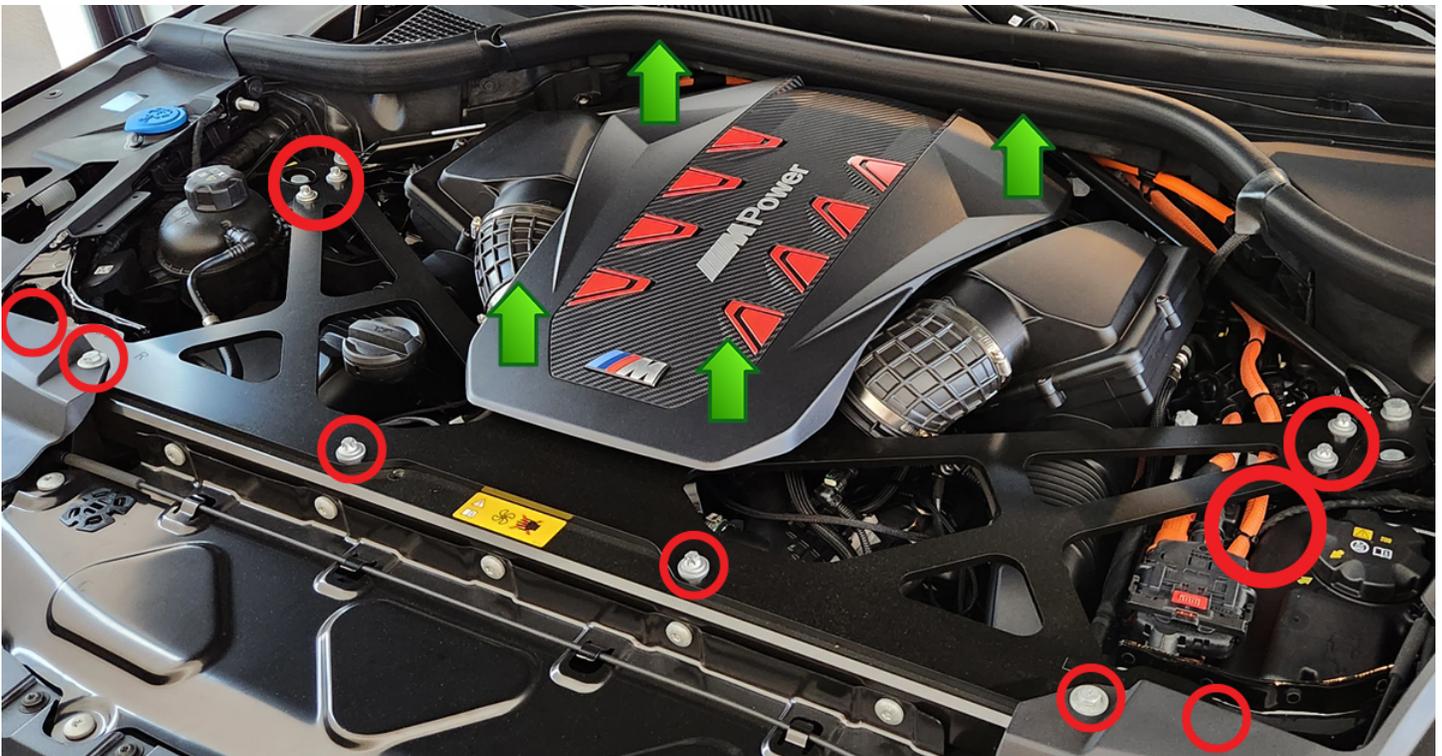
OPTIONAL JB4 APP SHOWN

Before starting installation lock the doors, and place the key at least 20 feet away from the vehicle. Wait 10 minutes for the vehicle to go to sleep.

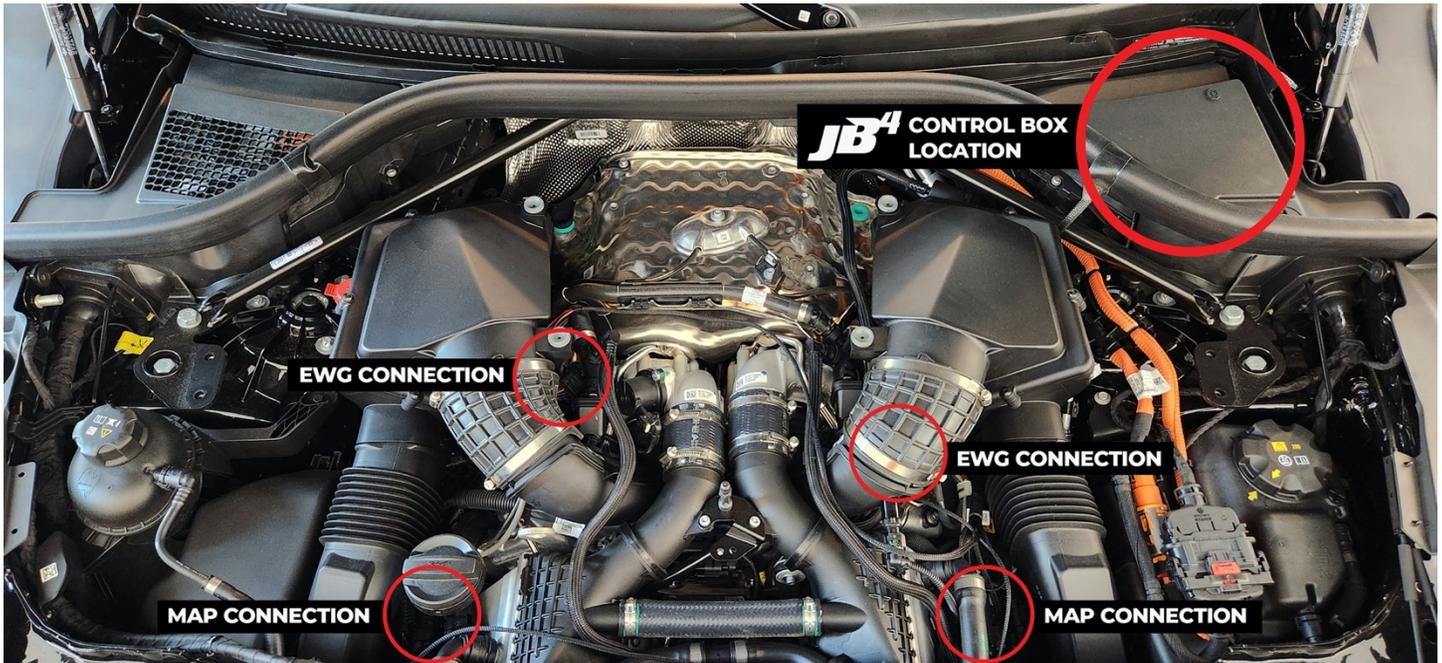
2023+ BMW X7 M60i remove the engine cover by pulling up on the front and then pulling up on the back. Next remove the right front strut brace.



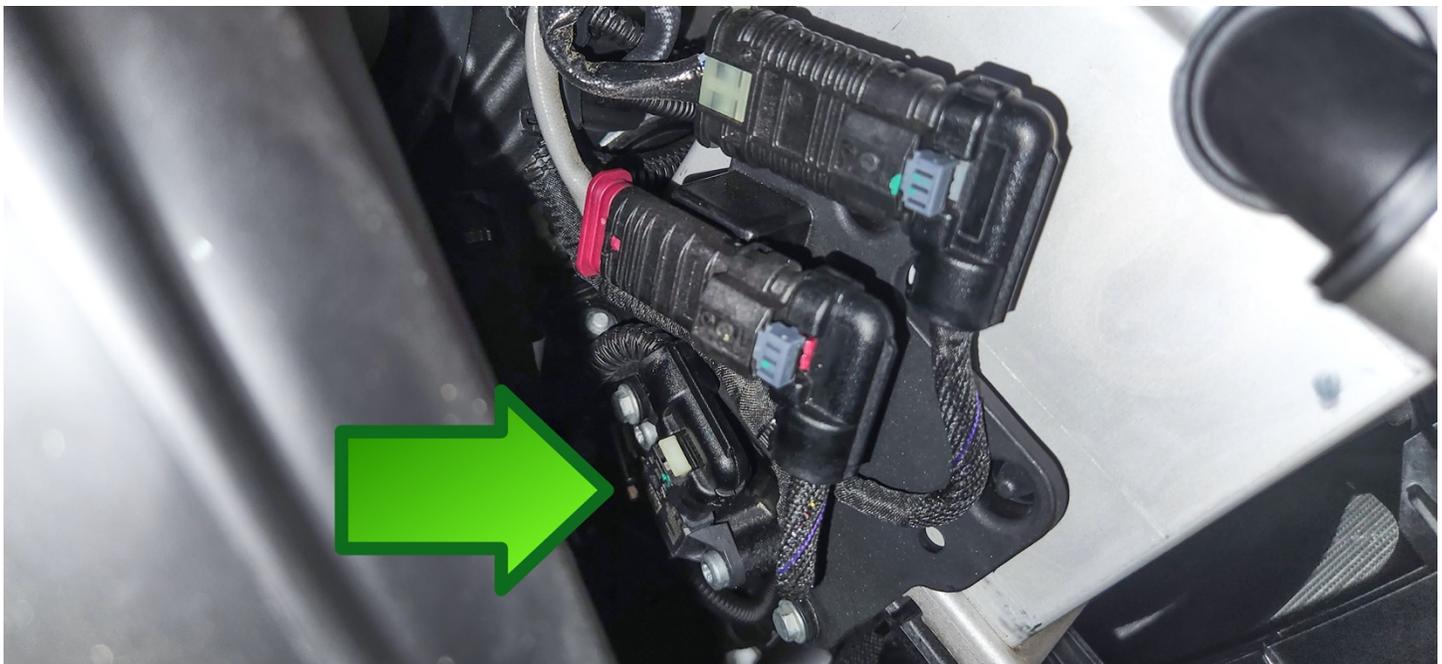
2023+ BMW XM remove the engine cover by pulling up on the front and then pulling up on the back. Next remove the front strut brace.



There are 4 plugs on the JB4 that go to various sensors on the engine shown below. The EWG connections are optional for those looking to maximize power.



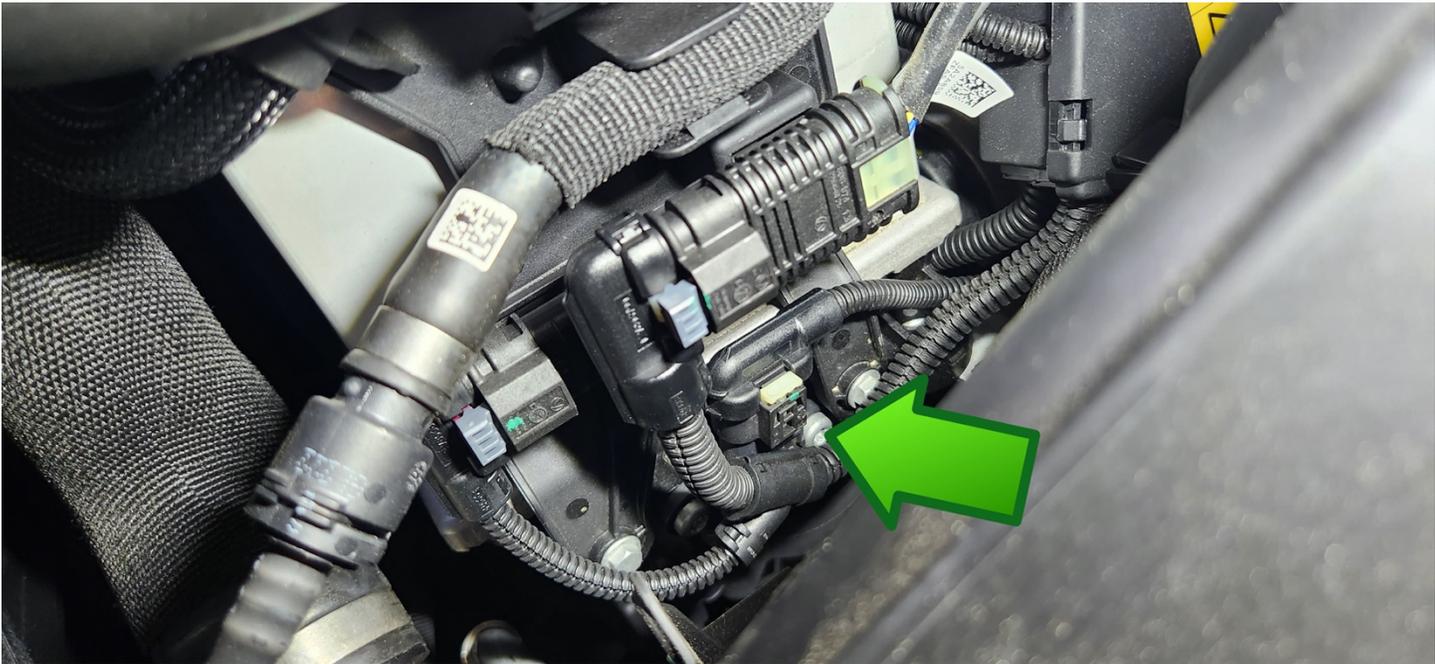
First unplug the factory MAP connector on the left side of the left intercooler. It's the 3rd plug down.



Next plug in the longer brown and black JB4 cable to the left MAP sensor.



Now unplug the factory MAP connector on the right side of the right intercooler. It's the 3rd plug down.



Next plug in the shorter yellow, red, green, and black wired JB4 cable.



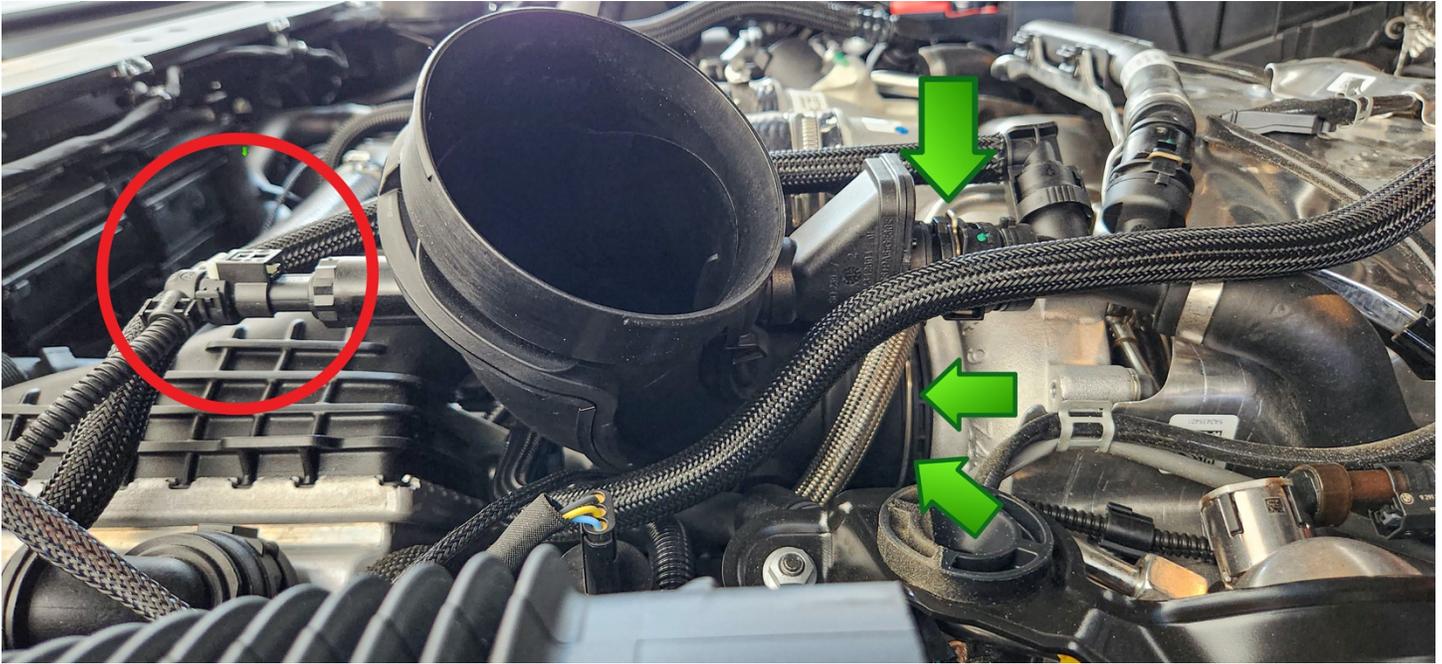
OPTIONAL: Electronic Wastegate (EWG) Connections

For those looking to maximize power you can also connect the option EWG connections. To do so remove the factory intakes by loosening the circled clamps and pulling upwards. The air inlet tubes can be separated from the intakes by simply pinching it.

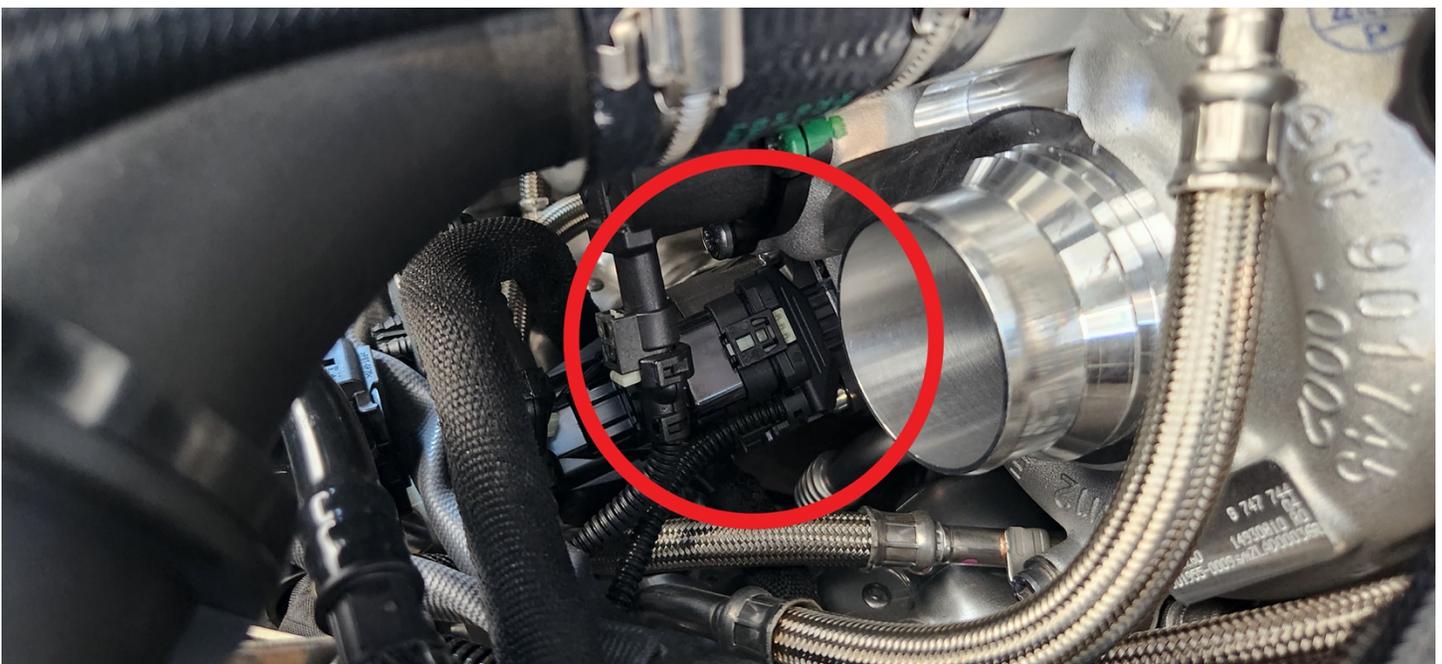


Now remove the right side (facing the engine) turbo inlet but unplugging the circled temperature sensor, then the PCV hose by pulling up on the circlip. Next pull up on the large circlip on the turbo inlet and pull it towards the front of the vehicle to remove.

⚠ If you don't want to use the EWG connectors plug in the JB4 EWG connections to each other and tuck them safely away.



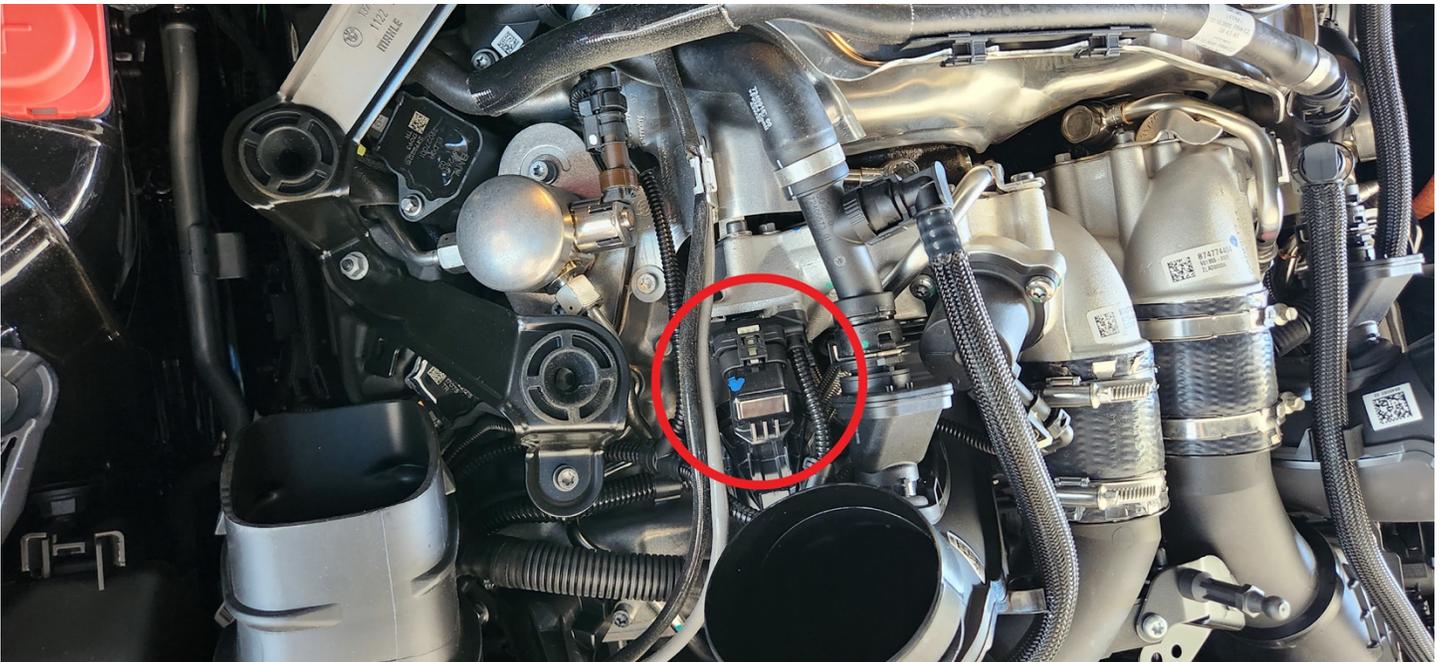
Next unplug the factory EWG connector.



Now plug in the shorter JB4 connector with the purple, blue, and black wires to both ends of the connector you unplugged.



Next unplug the left factory EWG connector



Next plug in the longer JB4 connector with the red, purple, blue, and black wires to both ends of the connector you unplugged.



If you've opted for the optional JB4 mobile adapter for smartphone integration and it's not already installed attach that to the JB4 at this time. Open the enclosure and screw it in to the JB4 control board as shown.

JB4 Connect Kit (Pinned Power) Install Guide

04-13-2020

1) Open the JB4 enclosure.



2) Install the DB9 connector and ensure both screws are secure.



3) Put the JB4 enclosure back together.



*****Very Important*****

4) Ensure the Connect Kit ***IS NOT*** in direct contact with the metal JB4 enclosure or any other nearby metal. Aim the smaller side of the Connect Kit (circled below) **DIRECTLY** towards the driver's seat for best signal quality. Failure to do this may lead to connectivity issues.



CANbus/OBDII connector: green/brown wires on JB4

Vehicle can now be unlocked, and doors opened as OBDII can be installed/connected with the vehicle awake. This optional connector attaches to the OBDII port to allowing the JB4 to take in additional advanced engine parameters to incorporate in to tuning and logging via the app.



The easiest way to route to the engine bay is around the door jamb. Alternatively, it can be run through the firewall into the pedal area if there are any unused grommets. Finally plug OBDII into JB4 harness, note correct clip over notch orientation. If no data appears in JB4 app once connected an issue with the OBDII connection is usually the culprit.



Installation is complete! The JB4 comes preset to map1 which is suitable for all 91+ RM2 fuels. Refer to the app for additional maps and use guidelines.