

X-FLAP OEM VACUUM VALVE CONTROLLER - TVL

Ver.0.0.1

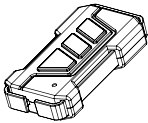
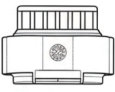
The X-FLAP OEM Vacuum Valve Controller - TVL is specifically designed for vehicles equipped with factory vacuum exhaust valve systems. Utilizing a dedicated adapter harness, the product connects inline with the vehicle's original vacuum solenoid valve. This plug-and-play installation draws power and control signals directly, enabling independent control of the exhaust valves via the controller. The controller supports three operating modes: ON, OFF, and NOR, which can be operated via a smartphone APP or remote control. Users can switch the exhaust valve status based on the driving environment, and the NOR mode retains the factory ECU control logic.

CONTENTS

- Before installation, confirm the configuration and total number of vacuum solenoid valves controlling the exhaust valves.
- Certain dual-valve vehicles may still share a single vacuum solenoid valve.

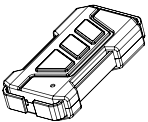
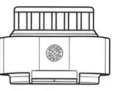
SINGLE SOLENOID VALVE

SW16013-03

					
Control Box	Remote Controller	6-Pin Connector Cap	Solenoid Valve Signal Cable*100cm	Solenoid Valve Reverse Signal Wire	User's Manual

DUAL SOLENOID VALVE

SW16014-03

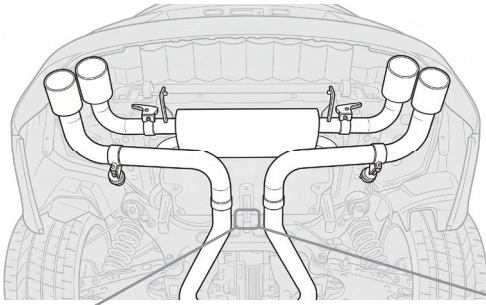
						
Control Box	Remote Controller	6-Pin Connector Cap	Solenoid Valve Signal Cable*100cm	Solenoid Valve Signal Cable*200cm	Solenoid Valve Reverse Signal Wire x2	User's Manual

WIRING INSTRUCTIONS

- Please select based on the actual number of vehicle vacuum solenoid valves, rather than solely judging by the number of exhaust valves.
- Although some vehicles feature dual left and right vacuum exhaust valves, they may share a single solenoid valve via the vacuum lines.
- The vacuum source originates from the engine; powered state alone is insufficient for valve operation testing, so please start the engine.
- If the actual valve operation is reversed relative to ON / OFF after installation, the output direction can be adjusted via the APP.
- In OFF mode, drive only at low RPM and low load. Avoid heavy acceleration to prevent high backpressure, ECU errors, or vehicle damage.

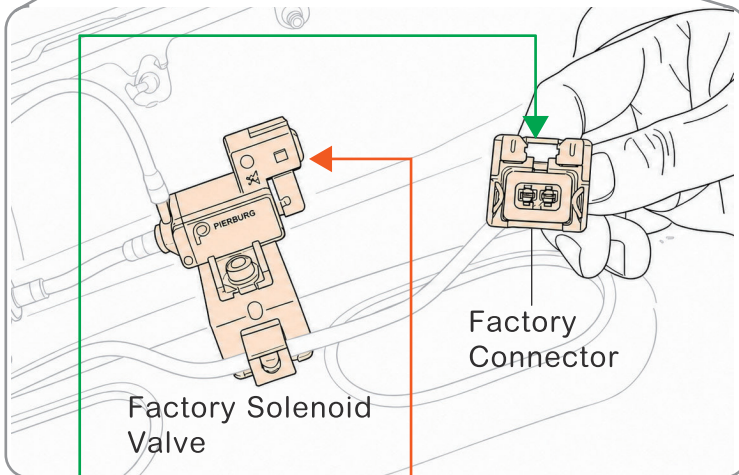
► INSTALLATION

SINGLE SOLENOID VALVE



Post-Installation Check

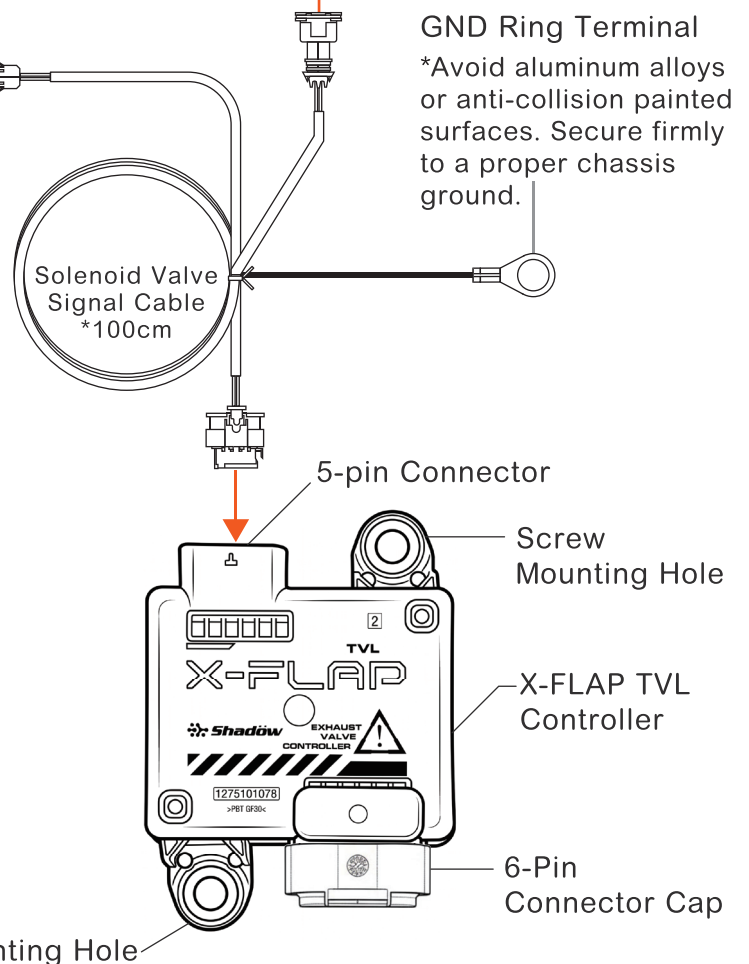
- Start the engine and verify the controller powers on normally.
- Wait for vacuum pressure to build, then test ON, OFF, and NOR modes in sequence.
- Ensure all valves operate correctly with no CEL (Check Engine Light) triggered.
- Secure the controller and wiring harness.



Connect to Factory Connector

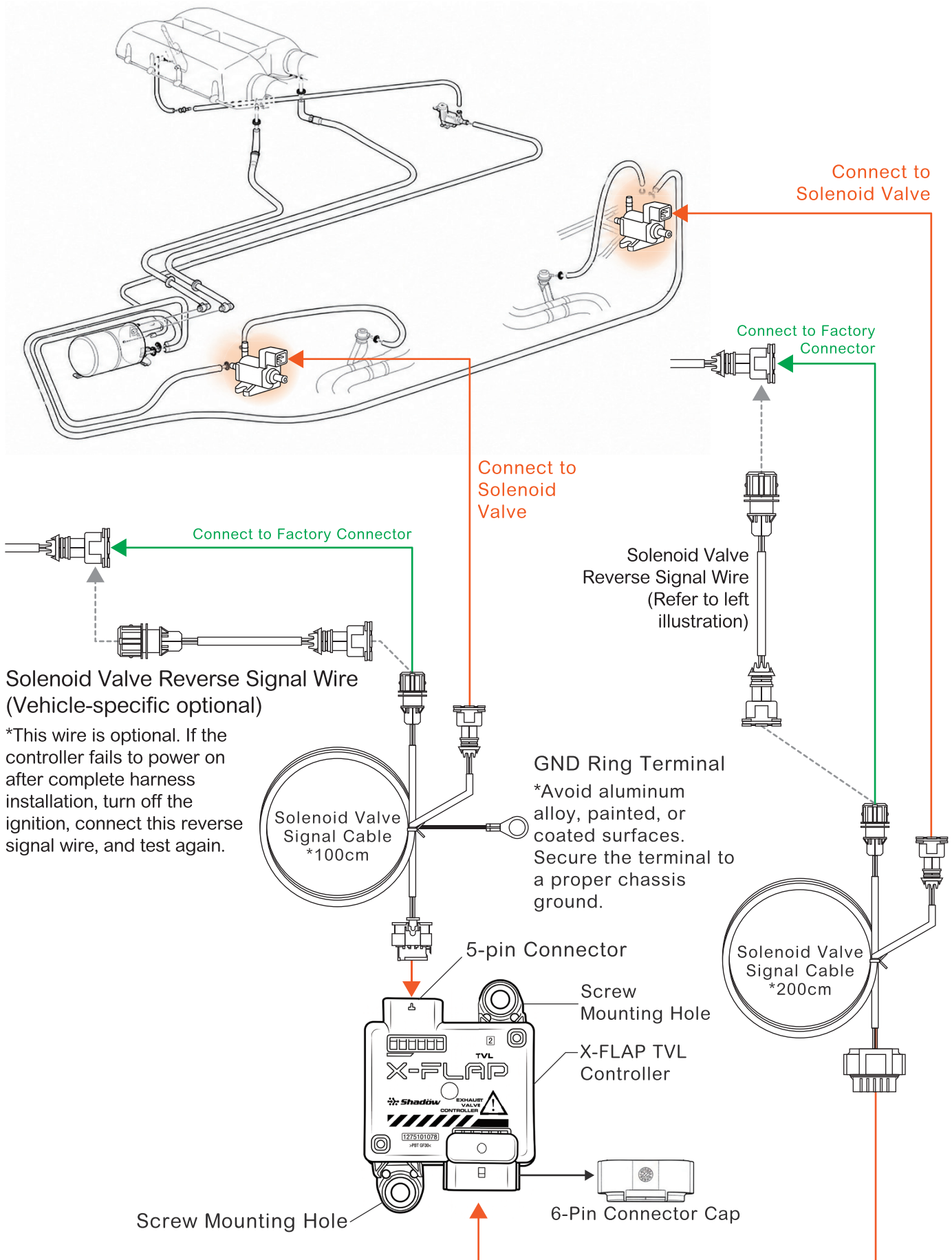
Solenoid Valve Reverse Signal Wire (Vehicle-Specific Optional)

*This wire is optional. If the controller fails to power on after complete harness installation, turn off the ignition, connect this reverse signal wire, and test again.



Screw Mounting Hole

DUAL SOLENOID VALVE



▶ APP INSTRUCTIONS

This product can be used with the APP.

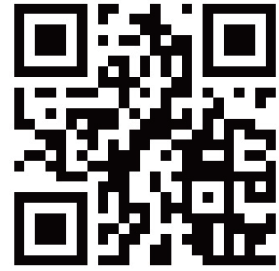


APP Name: X-FLAP
Device: X-FLAP_OTA (Exhaust)
Password: 1111

Requires iOS 17.0 or later / Android 5.0 or later.



Download Link



▶ OPERATION INSTRUCTION

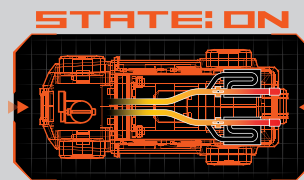
- ON: Outputs solenoid valve control signal
- OFF : Ceases solenoid valve control signal
- NOR : Retains factory ECU control logic

Settings Mode

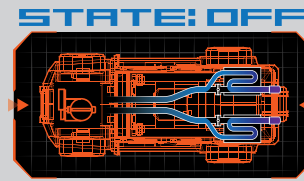


Home

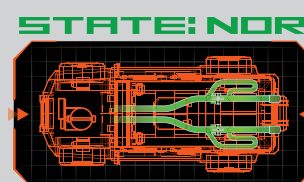
VALVE STATE



Fully Open



Fully Closed



If the actual ON / OFF operation is reversed, the output direction can be inverted via the APP (Refer to page 5 for details).



► DEFAULT & DETAILED SETTINGS

DEFAULT

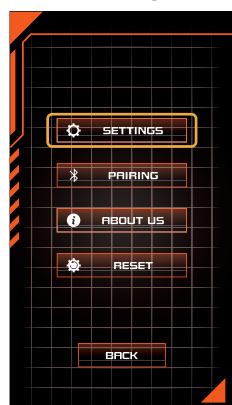
App configures startup valve status. Default is LST (Memory Mode): retains status from last shutdown. Startup status can be fixed to ON, OFF, or NOR.



► ON/OFF DIRECTION TOGGLE

If the actual ON / OFF position is reversed, toggle via the APP.

Open App to Settings



Select SOLENOID under VALVE SETTINGS.



Toggle the controller direction.



▶ REMOTE CONTROL PAIRING

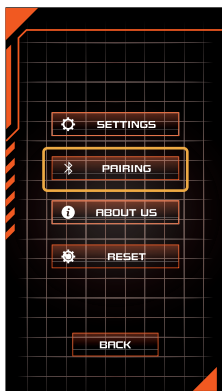
*Ensure ACC power is ON.

*If "PAIRING FAILED" appears, please retry.

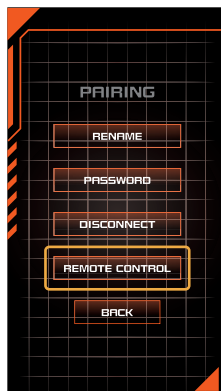
Open App to
Settings



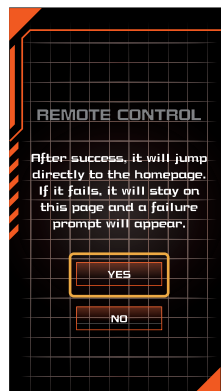
Tap "PAIRING"



Tap "REMOTE CONTROL"



YES



Complete



Long press the
remote ON/OFF
button until the red
LED flashes once.



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