

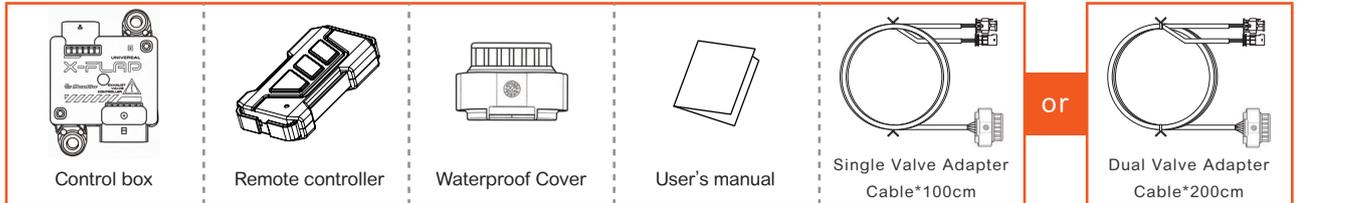
# X-FLAP OEM EXHAUST VALVE CONTROLLER

## UNIVERSAL / TL

Ver.0.0.1

### ▶ CONTENTS

Only for reference, it might be different from real parts.



● Please attach the user's manual to the product when transferring to others.

### ▶ FEATURES

- Three modes: ON (Fully Open) / OFF (Fully Closed) / NOR (OEM Control / Partial Open Correction) (Note 1).
- Priority control logic overrides OEM drive modes.
- Plug-and-play with OEM connectors; quick installation without damaging factory wiring.
- Modes switchable via remote or App.
- Built-in OEM signal restoration module prevents error codes and warning lights.
- Fully potted waterproof design and direct chassis mounting ensure weather resistance and stability.
- Startup valve status customizable via App (Default: Last memory).

● Note 1: NOR (OEM Control / Partial Open Correction) Mode Explanation  
 NOR mode follows OEM ECU valve strategy. The valve remains closed when the OEM signal is OFF. When the OEM signal is ON, if the system outputs a "partial open" signal, X-FLAP automatically corrects the valve to 100% open to enhance performance.

Controller Mode	Original Signal	Valve Status
NOR	Original Signal ON	Not Fully Open → 100% Fully Open 
	Original Signal OFF	0% Fully Closed 

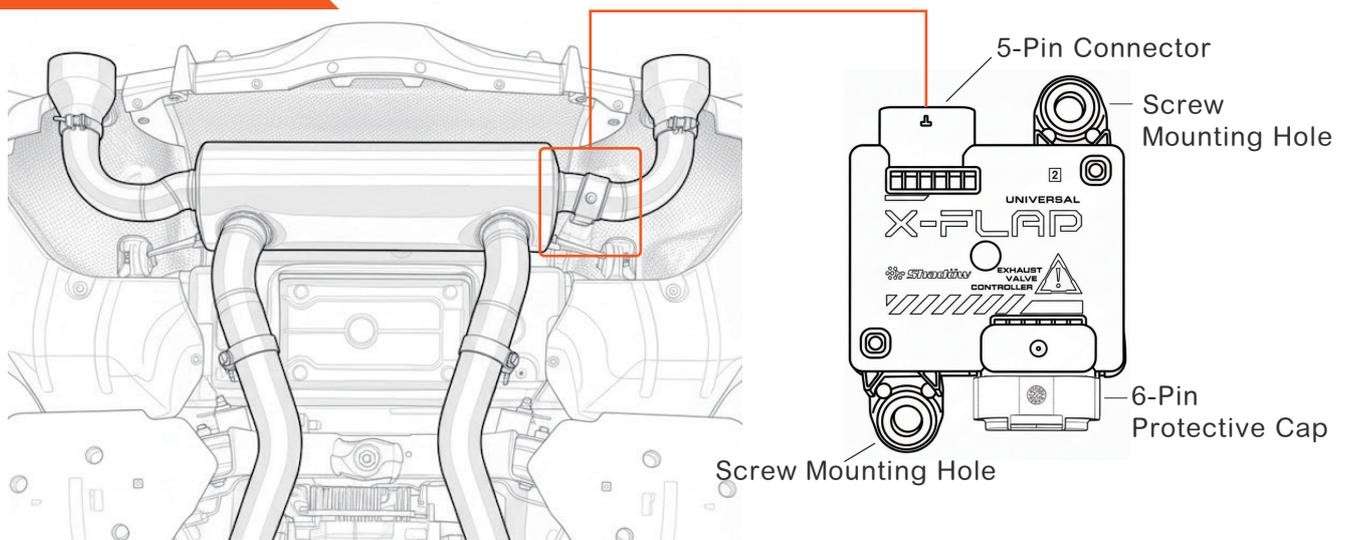
※ NOR Correction Note  
 Only applies to vehicles with "variable angle electronic motors" and ECU partial-open logic. If the OEM system only supports "On/Off" two-stage control, NOR correction will not activate.

## ► WIRING INSTRUCTIONS

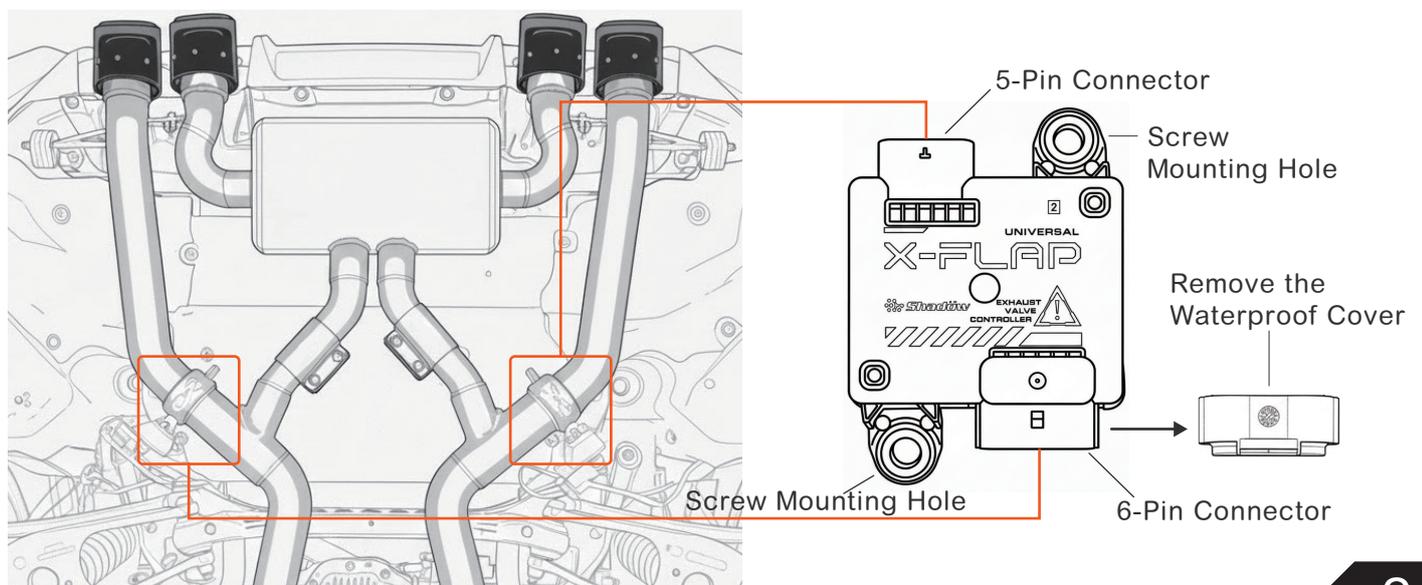
- Install only when the engine is off and the ECU is in full sleep mode to prevent temporary error codes caused by disconnecting plugs while powered.
- The main unit is waterproof; mount it high on the chassis to protect against impact or water submersion.
- Secure the wiring harness properly, keeping it clear of drive shafts, suspension links, or any areas prone to tension or abrasion.
- Connector configurations may vary by version. Please confirm compatibility with your vehicle before installation.
- In OFF (Fully Closed) mode, drive only at low RPM and low load. Avoid heavy acceleration to prevent high exhaust backpressure, which may cause ECU errors or vehicle damage.

## ► INSTALLATION INSTRUCTION

### SINGLE VALVE



### DUAL VALVE



# ▶ APP INSTRUCTIONS

This product can be used with the APP.



APP Name: X-FLAP EXHAUST VALVE CONTROLLER

Password: Exhaust

Bluetooth Name: 1111

Requires a mobile operating system of iOS 13.0 or Android 4.3 or above.



Download Link

# ▶ OPERATION INSTRUCTION

Settings

Mode

Controller Type

Valve State

STATE: ON  
Fully Open (100%)

STATE: OFF  
Fully Closed (0%)

STATE: NOR  
Original Control (Partial Open Correction)

主畫面

# ▶ REMOTE CONTROL PAIRING

\*Ensure ACC power is ON.

\*If "PAIRING FAILED" appears, please retry.

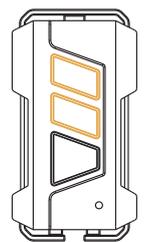
Open App to Settings

Pairing

Remote Control

YES

Complete



Long press remote ON and OFF buttons until red LED flashes once.

# ▶ 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.

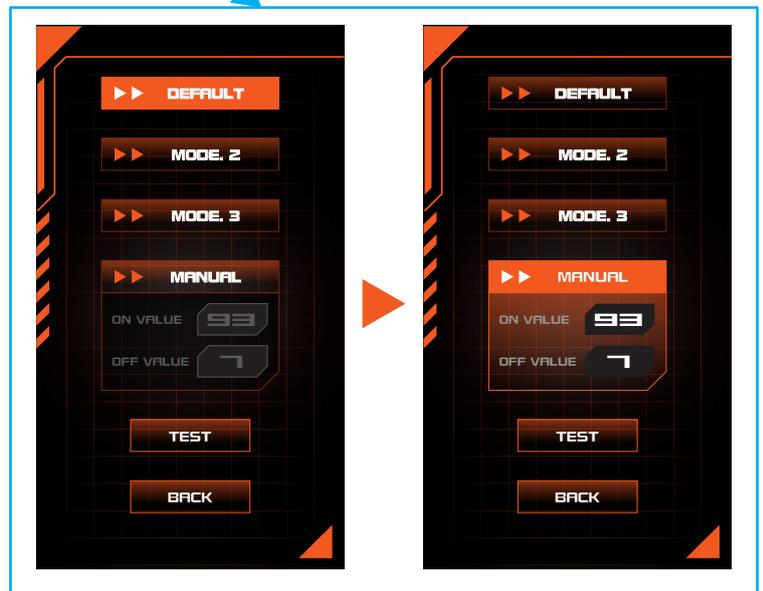


## VALVE SETTINGS (ELECTRONIC)

Selectable signal modes available for compatibility. Most vehicles work in DEFAULT mode.

If default modes fail, use MANUAL mode to input specific ON/OFF values (0-100).

\*TEST button performs (ON-OFF) actuation test 3 times.





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