



# ***AIR SUSPENSION***

— Management instruction —

# INTRODUCTION

**THIS ELECTRONIC CONTROL SYSTEM IS SUITABLE FOR "VGO AIRRIDE" THE APP "PIAIR" FUNCTIONS VIA BLUETOOTH AND CAN CONTROL UP DOWN AND SIDE TO SIDE VIA MOBILE OR TABLET. CURRENTLY ONLY ON APPLE DEVICES.**

- 1. THE AIR PRESSURE OF THE FOUR AIR STRUTS CAN BE PERFORMED INDEPENDENTLY, ALLOWING THE DRIVER TO KNOW THE DYNAMICS OF THE VEHICLE AT ANY TIME AND OR AT THE SAME TIME.**
- 2. IT CAN DISPLAY THE AIR PRESSURE IN THE AIR TANK AND THE AIRSTRUTS**
- 3. THE APP INTERFACE IS VERY SIMPLE AND CONVENIENT, AND ANYONE CAN EASILY GET USE.**
- 4. YOU CAN CHOOSE FROM 6 LANGUAGES TO ENGLISH CHINESE, TRADITIONAL CHINESE, JAPANESE, GERMAN, AND THAI. SOON SPANISH.**
- 5. THE REAL-TIME REFRESH RATE OF "VGO" SYSTEM AIR PRESSURE MONITORING CAN BE DISPLAYED IN REAL TIME ON THE MOBILE PHONE WITHOUT DELAYS.**

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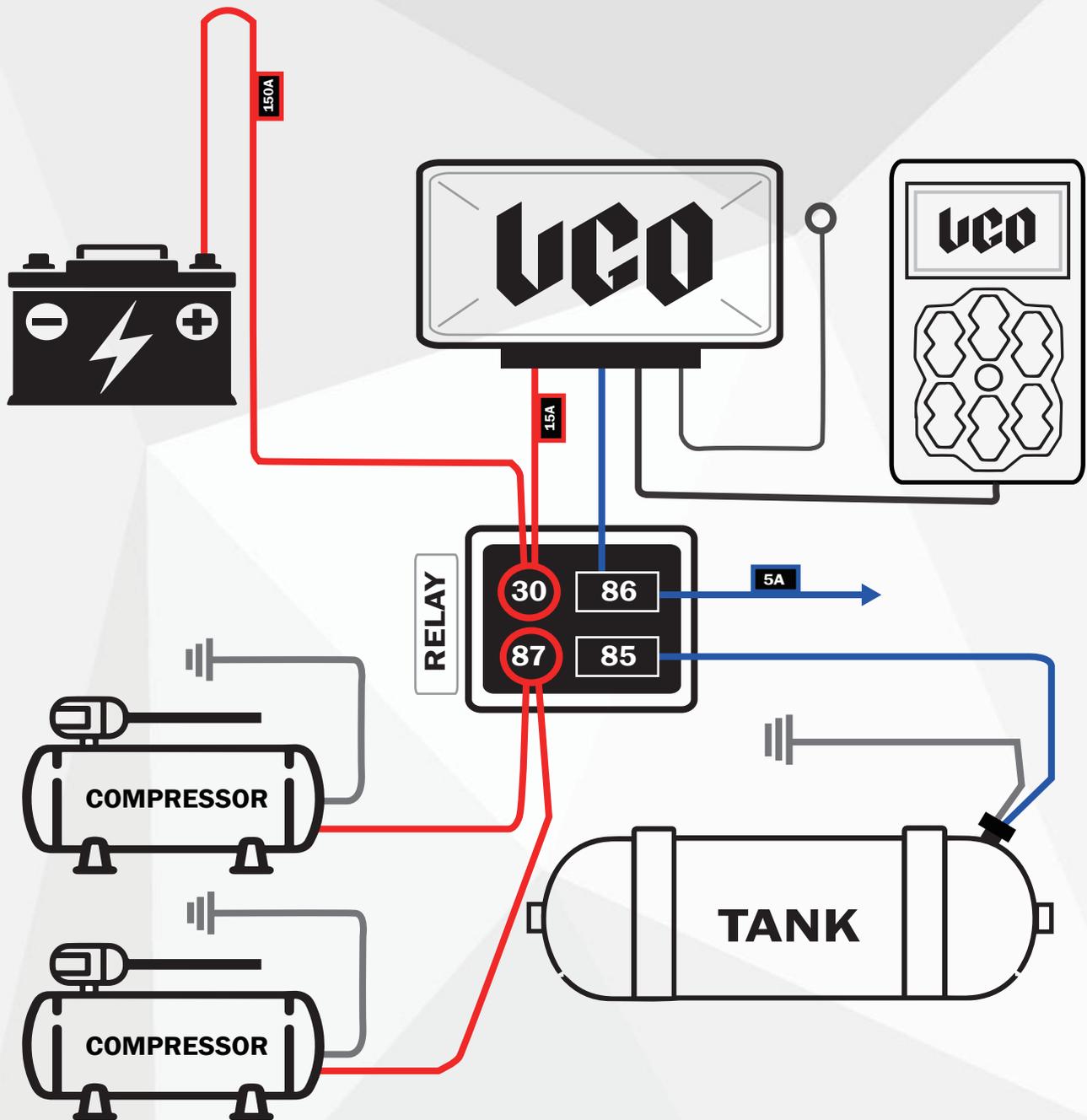
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# WIRE CONNECTION DIAGRAM



**150A**

150A FUSE

**15A**

15A FUSE

**5A**

5A FUSE



IGNITION



TO GROUND

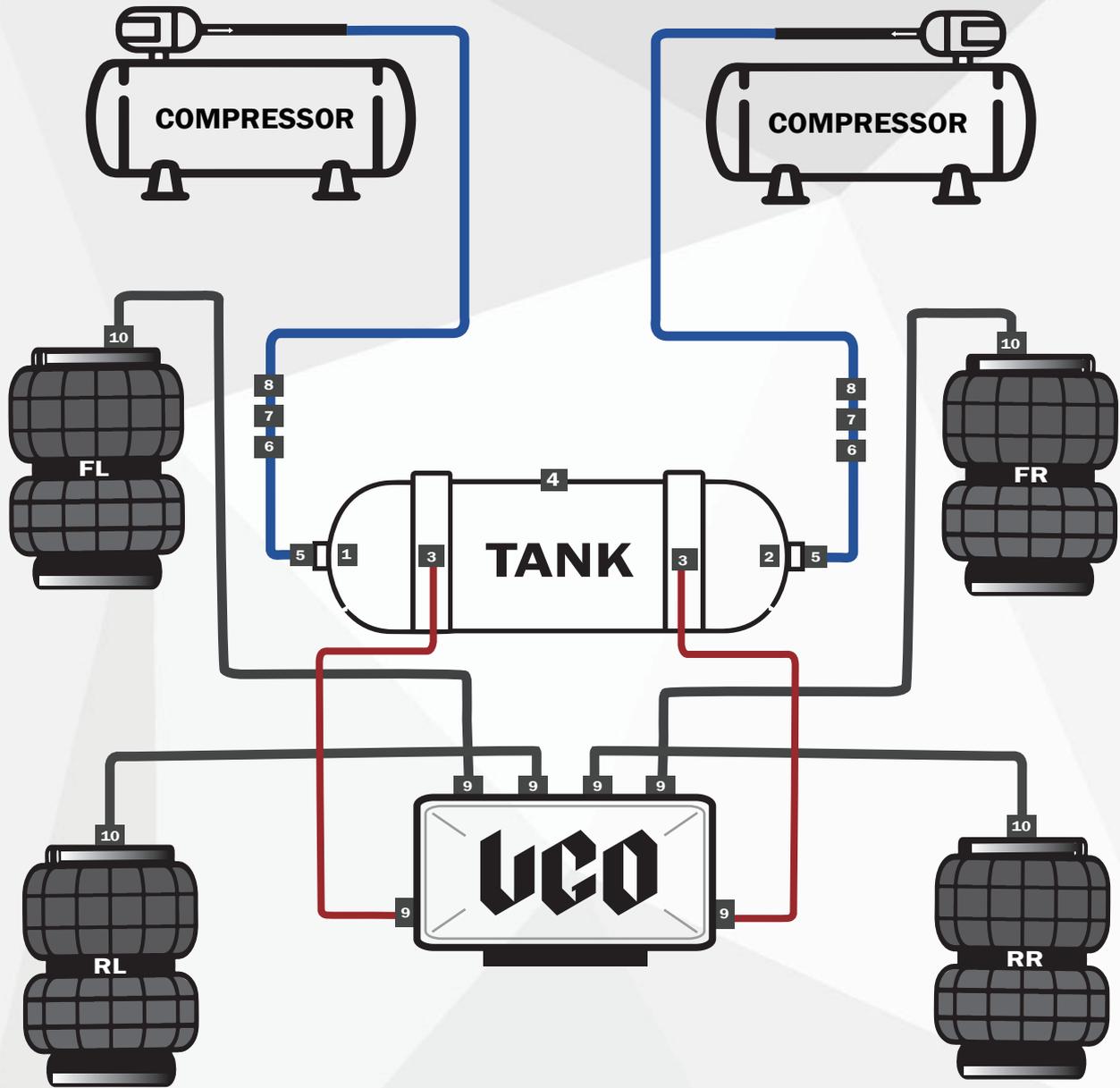


PRESSURE SWITCHER

# AIR TUBE

CHECK ALL THREADED FITTINGS FOR LEAKS WITH SOAPY WATER.  
WHEN REPAIRING THE LEAK, PLEASE DROP THE LIFTER,  
TURN OFF THE CAR AND EMPTY THE TANK.

## CONNECTION DIAGRAM



- 1 1/4 NPT PLUG 2 SAFETY VALVE 3 1/4 NPT TO 1/4 (6MM) ELBOW 4 PRESSURE SWITCHERT  
5 1/4 NPT IN TO 1/4 EX ELBOW 6 CHECK VALVE 7 1/4 NPT EX STRAIGHT  
8 WATER TRAP 9 1/4 NPT TO 1/4 (6MM) STRAIGHT 10 1/8 NPT STRAIGHT OR ELBOW



THE PRESSURE SWITCHER SET AT 165 PSI, COMPRESSOR WILL AUTOMATICALLY STOP AT 165-175 PSI.  
SAFETY PRESSURE VALVE SET AT 190 PSI.  
THE RECOMMEND DRIVING AIR PRESSURE RANGE 45-80 PSI.  
MAXIMUM DRIVING AIR PRESSURE 125 PSI

# CONNECT

## THE AIR TUBE

### TIPS:

**CORRECT**



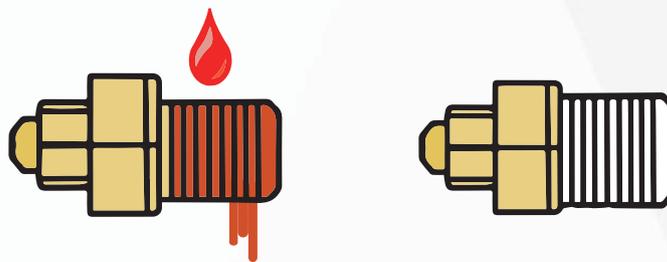
**AIR TUBE**



**WRONG**



**AIR TUBE**



### INSTALLATION NOTES :

IT IS RECOMMENDED TO INSTALL AN AIR FILTER.

IN COLD CLIMATE, THE AIR FILTER MUST BE INSTALLED

TO ENSURE STABLE OPERATION OF THE PNEUMATIC SYSTEM.

#### INSTRUCTIONS :

USE STANDARD TUBE CUTTERS OR BLADES TO ENSURE THAT THE TUBE ENDS ARE AS ROUND AND FLAT AS POSSIBLE.

KEEP THE AIR TUBE AWAY FROM SHARP EDGES AND HEAT SOURCES, IF NECESSARY, USING ISOZLATED CASING.

CHECK THE INTERFACE SCREW HOLES AND JOINT STUDS TO ENSURE THAT THERE ARE NO CONTAMINATION AND EXCES-SIVE ADHESIONS AND CRACKS.

WHEN PUT SEALANT ON THE JOINT THREAD.  
DO NOT PUT THE SEALANT TO THE FIRST TWO THREADS.

SCREW THE CONNECTOR THREAD INTO THE INTERFACE SCREW HOLE AND TIGHTEN.

DO NOT WITHDRAW THE TIGHTENED THREADS FOR ALIGN-MENT.  
UNSCREWING WILL DAMAGE THE SEAL AND CAUSE AIR LEAKS.

# BUTTON

# FUNCTION INSTRUCTION



START THE CAR,  
THE COMPRESSOR WILL START TO INFLATE  
THE AIR TANK. WHEN AIR PRESSURE REACH  
THE PRESET PRESSURE, THE COMPRESSOR  
WILL AUTOMATICALLY TURNED OFF.  
IT TAKES ABOUT 4-5 MINUETS TO INFLATE A  
3 GALLON TANK BY A SINGLE V680 COM-PRESSOR.

AS SHOWN ON, ADJUST THE CONTROLLER BUTTON  
TO CHECK IF THE CORRESPONDING WHEEL  
POSITION WILL RISE OR DROP. DURING THE TEST,  
THE COMPRESSOR WILL AUTOMATICALLY START  
WHEN NECESSARY.



**FRONT LEFT RISE**

**FRONT LEFT DROP**



**FRONT RISE  
PRESET 1**

**FRONT DROP  
PRESET 2**



**FRONT RIGHT RISE**

**FRONT RIGHT DROP**

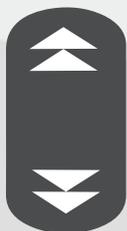


**SINGLE CLICK  
TO ENTER THE PRESET  
PRESS 3 SECOND  
TO ENTER THE SETTINGS**



**REAR LEFT RISE**

**REAR LEFT DROP**



**REAR RISE  
PRESET 4**

**REAR DROP  
PRESET 5**



**REAR RIGHT LEFT**

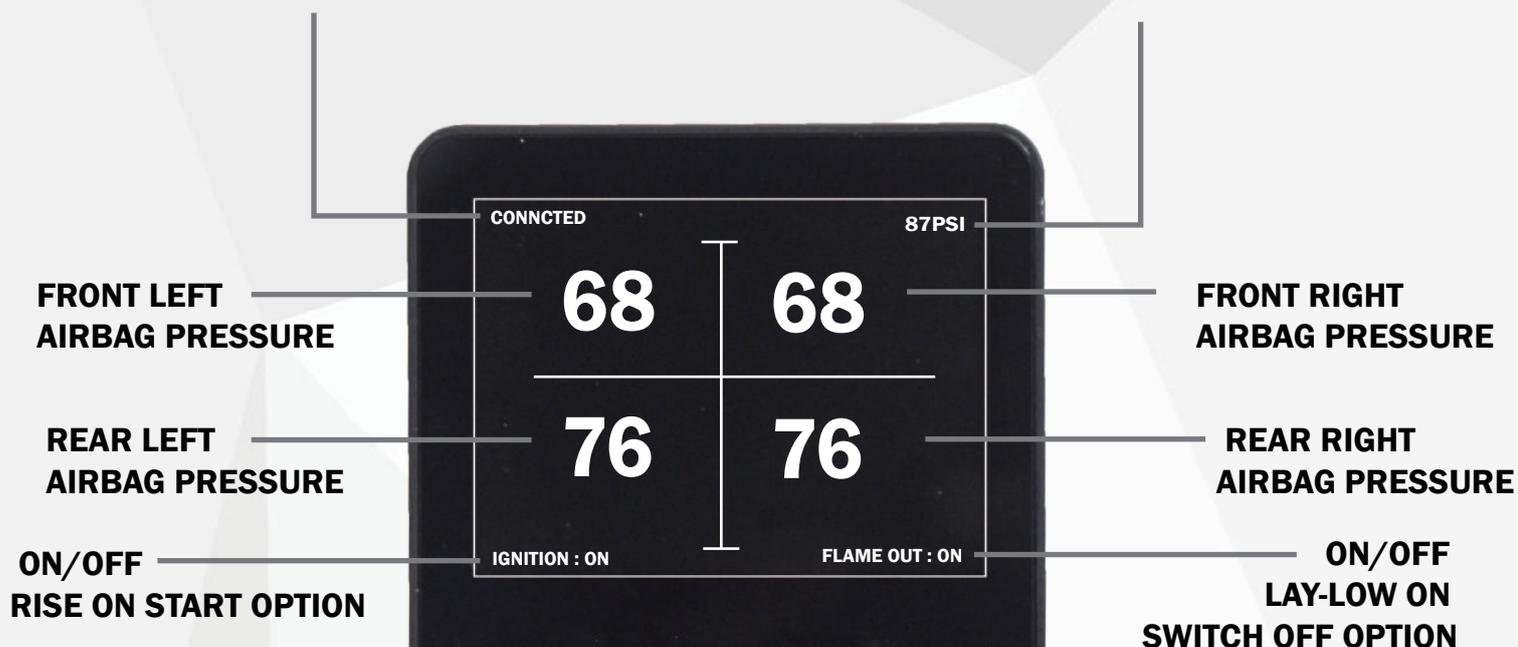
**REAR RIGHT DROP**

# CONTROLLER

## INTERFACE INSTRUCTION

**CONNECTED : CONNECTION IS NORMAL**  
**DISCONNECT: CONNECTION ERROR**

**AIR TANK PRESSURE**  
**(POUND PER SQUARE INCH)**



**INSTRUCTION :**  
**PRESS ANY OTHER**  
**KEY TO RETURN THE**  
**DE-FAULT DISPLAY**

**PRESS BUTTON**

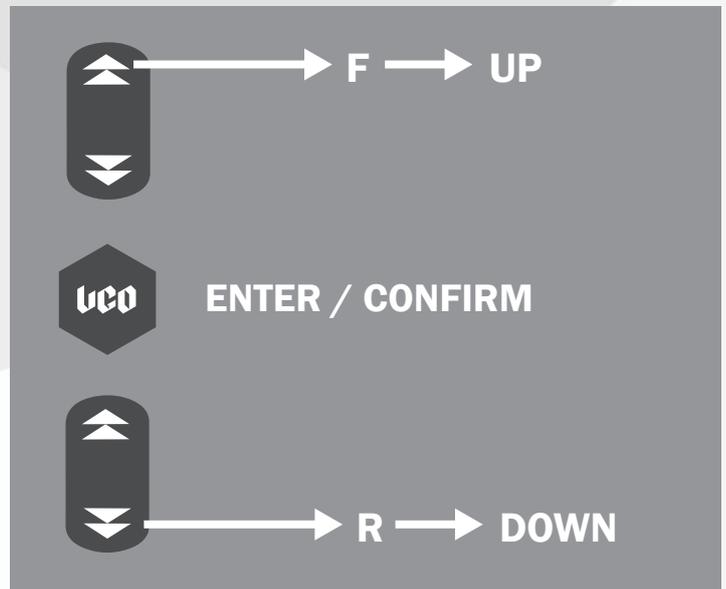
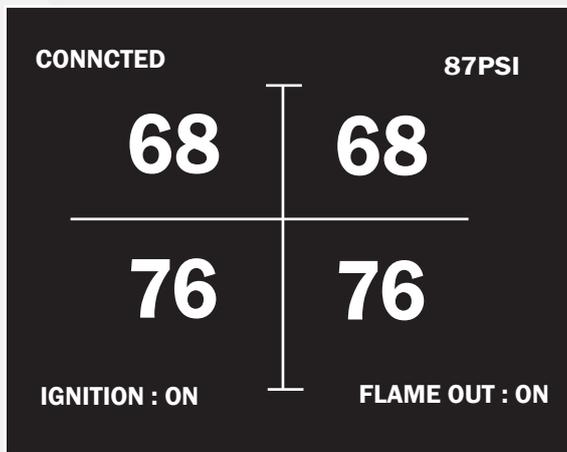


**3 SECOND**  
**ENTER THE SETTINGS**

- 1 TIPS :**
- 2 SINLGE CLICK**
- 3 TO ACTIVE THE PRESET MODE,**
- 4 CLICK THE BUTTON**
- 5 TO ENTER**

# SETTING

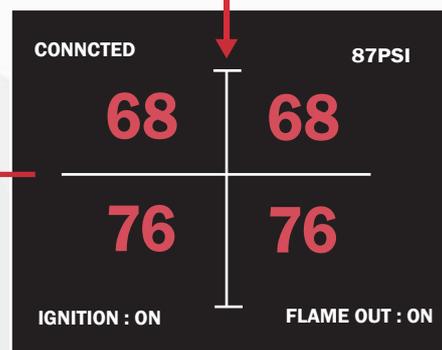
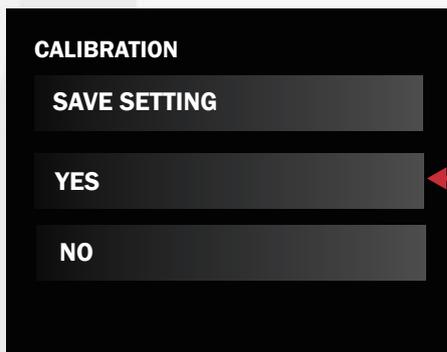
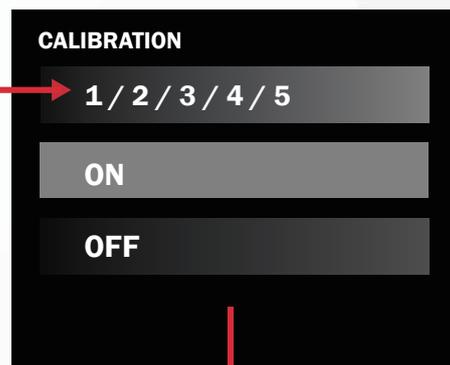
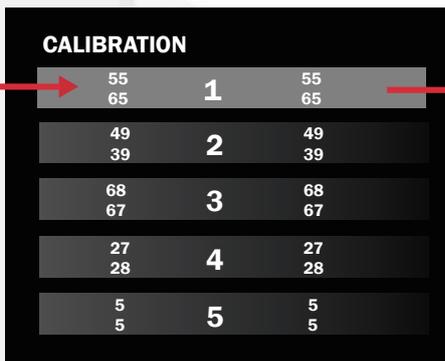
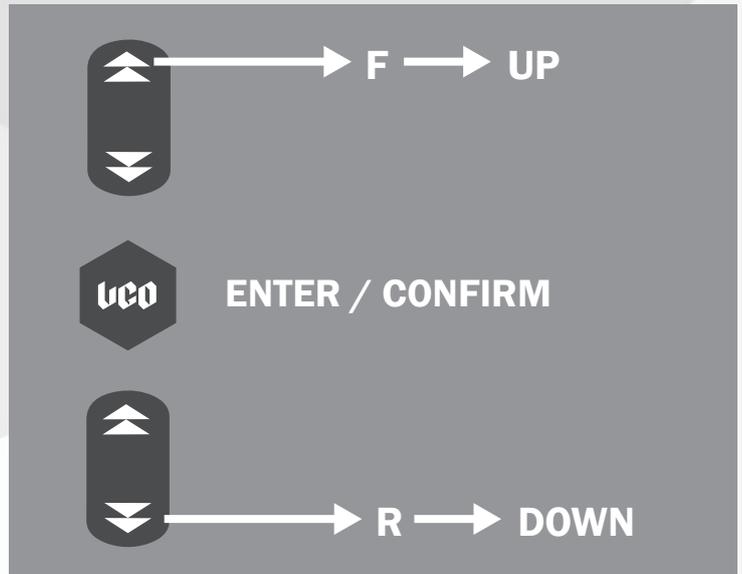
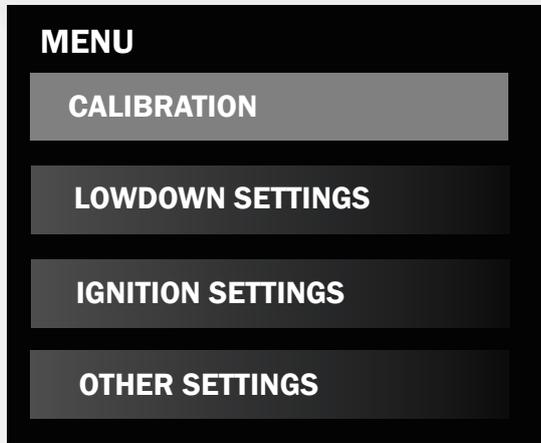
## LANGUAGE/AUTO LOCK



**VGO SYSTEM MANAGEMENT IS AVAILABLE IN FOUR LANGUAGES:  
CHINESE / CHINESE TRADITIONAL / ENGLISH / JAPANESE**

**AUTOMATIC KEY LOCK FUNCTION:  
WHEN THE REMOTE CONTROL IS NOT OPERATED,  
THE KEYBOARD IS AUTOMATICALLY LOCKED AFTER (10 SECONDS).  
DOUBLE-CLICK THE "MENU / CONFIRM" KEY TO UNLOCK.**

# SETTING CALIBRATION



VGO MANAGEMENT GOT 5 PRESET TO EXPERIENCE DIFFERENT CUSTOMIZED HEIGHTS. EACH POSITIONS CAN BE TURNED ON / OFF INDEPENDENTLY. THE PRESET WILL BE DISTIN-GUISHED BY COLOR ON / OFF, "GRAY" IS OFF. THE VALUE SAVED IN YOUR LAST CALIBRA-TION WILL BE DISPLAYED IN EACH PRESET.

THE FACTORY DEFAULT 5 PRESET ARE ALL OPENED.

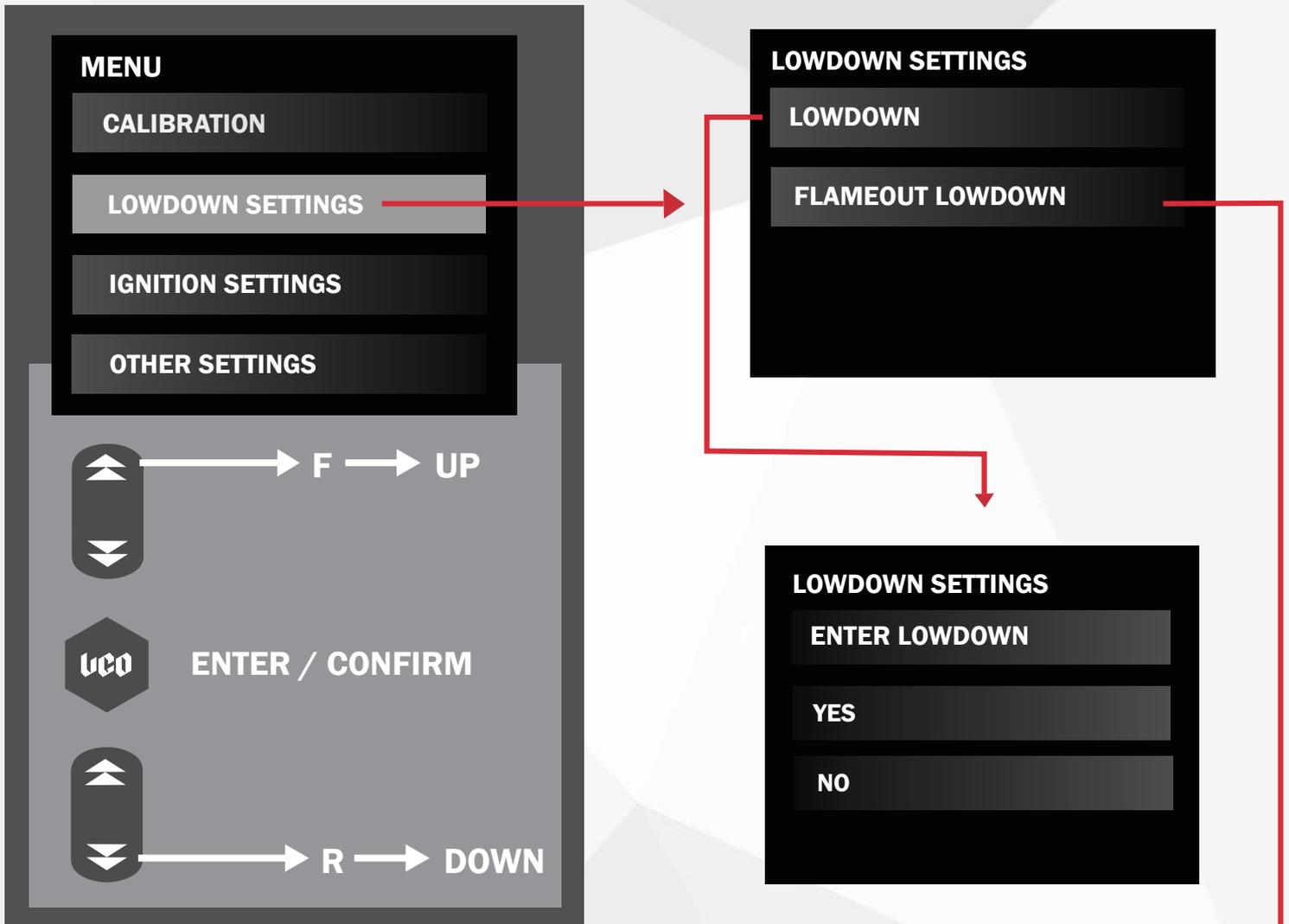
AND THE CALIBRATION VALUES OF THE 5 PRESET ARE ALL WITHIN 50PSI, WHICH IS SAFE AIR PRESSURE RANGE. IN ORDER TO PREVENT MIS-OPERATION, IT IS RECOMMENDED THAT THE CUSTOMER SET A FEW PRESET THAT THEY CAN USE.

**(PROHIBITED TO OPERATE WHILE DRIVING)**

TIPS: WHEN YOU DON'T NEED 5 PRESET, WE SUGGEST YOU CHOOSE TO CLOSE TO AVOID MIS-OPERATION.

# ENTER LOWDOWN

# FLAMEOUT LOWDOWN SETTINGS

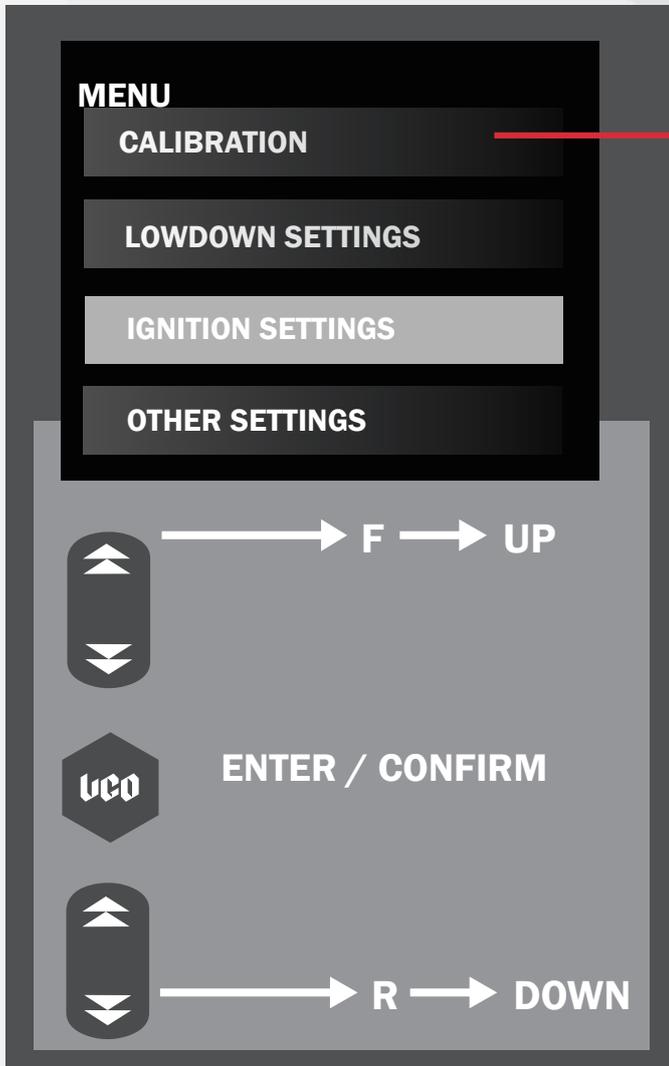


**ENTER LOWDOWN: TO CONFIRM "WHETHER TO LOWDOWN" INTERFACE, SET "YES" THE CAR WILL RELEASE ALL PRESSURE DROP TO END. WHEN ANY KEY OPERATED THE LOWDOWN PROCESS WILL INTERRUPT. FROM HIGHEST TO LOWEST TAKES ABOUT (10 SECONDS). (PROHIBITED TO OPERATE WHILE DRIVING)**

**FLAMEOUT LOWDOWN: SELECT THE "FLAMEOUT LOWDOWN" AND CONFIRM "FLAMEOUT LOWDOWN" ON / OFF. WHEN FLAMEOUT LOWDOWN IS ON THE CAR WILL DROP TO END AFTER FLAME OUT**

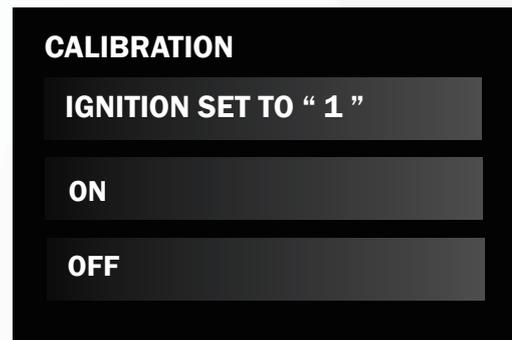
# IGNITION SETTINGS

## INSTRUCTIONS



CALIBRATION		
55 65	<b>1</b>	55 65
49 39	<b>2</b>	49 39
68 67	<b>3</b>	68 67
27 28	<b>4</b>	27 28
5 5	<b>5</b>	5 5

**1. TIPS: IF THE VEHICLE IGNITION AGAIN WITHIN (50 SECONDS) OF FLAMEOUT, THEN THE IGNITION TO PRESET HEIGHT FUNCTION WILL NOT ACTIVATED**



**2. A \ IN IGNITION SETTING, YOU CAN SELECT ANY ONE OF THE FIVE PRESET AS THE "IGNITION ENTRY HEIGHT".**

**THE "OFF" STATE OF PRESET CANNOT BE USED, AND A "NO GEAR" INTERFACE WILL APPEAR.**

**"IGNITION INTO 1/2/3/4/5"**

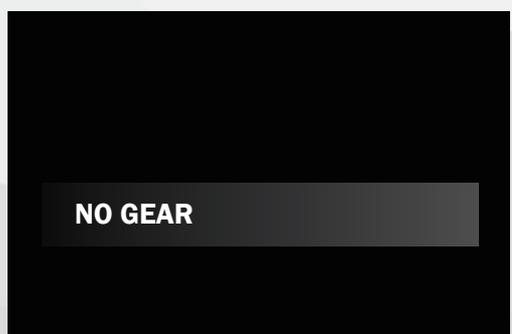
**CAN BE SET TO "ON / OFF", JUST CLICK KEY IN THE SELECTED PRESET, AND**

**THE INTERFACE OF "IGNITION INTO 1/2/3/4/5" ON / OFF" MANU WILL POP UP.**

**3. TIPS:**

**WHEN "IGNITION INTO PRESET ON" IS SELECTED, STARTING THE ENGINE TO ENTER THE SELECTED PRESET IS NOT INTERRUPTIBLE FOR (10 SECONDS).**

**IF THE VEHICLE FLAMEOUT WITHIN (50 SECONDS) OF IGNITION, THEN THE FLAMEOUT LOWDOWN FUNCTION WILL NOT ACTIVATED.**



# TROUBLESHOOTING GUIDE



## PROBLEM



## CAUSE



## SOLUTION

**NOTHING HAPPENS WHEN THE VEHICLE IS KEY-ON IGNITION ACTIVE.**

**THERE IS A BLOWN FUSE OR A POOR CONNECTION.**

**CHECK IF THE FUSE NEEDS TO BE REPLACED**

**THE DISPLAY DOES NOT LIGHT UP.**

**THERE IS A BLOWN FUSE OR A POOR CONNECTION.**

**REPLACE THE FUSES AND CHECK THE ELECTRICAL CONNECTIONS.**

**MANIFOLD VALVES DO NOT OPERATE.**

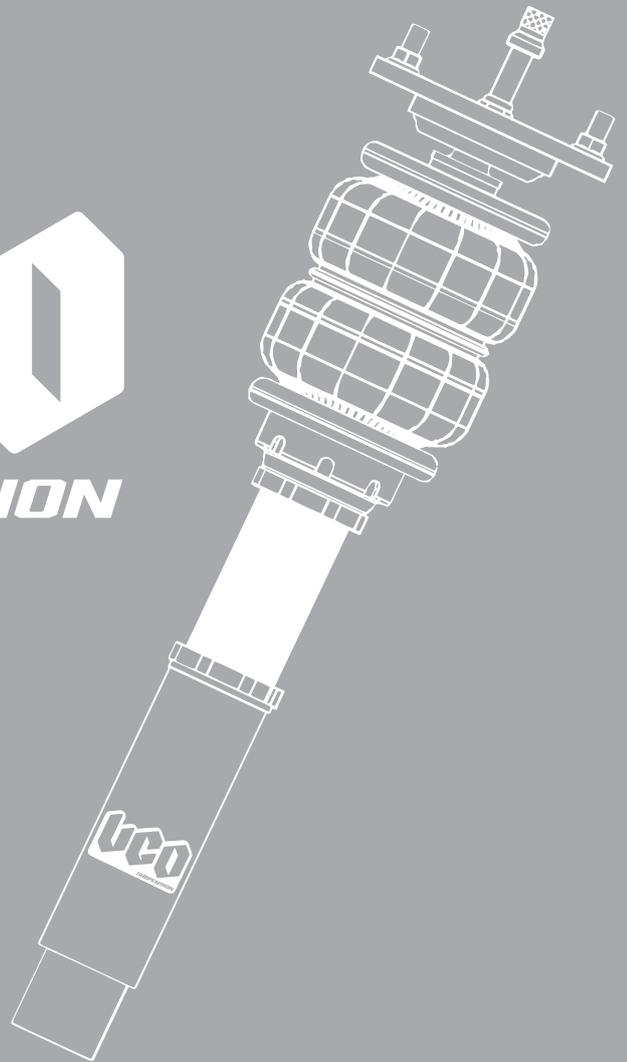
**THERE IS LESS THAN 50 PSI (3.4BAR) IN THE TANK.**

**ENSURE TANK PRESSURE IS GREATER THAN 50 PSI (3.4BAR).**



# VGO

*SUSPENSION*



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