

THE WHOLE UNIT INCLUDES:

- With blue background Digital Gauge *1
- ●Voltage base air pressure sender *5pcs
- Specific wires for sender *5pcs
- Wire harness *1ps
- Instruction manual

DISPLAY STYLE

- Digital Panel: LCD (with blue color background)
- ●5 data shown on the panel individually indicates the 4 corner pressures, and tank air pressure in the center
- ●Front Panel: ABS CHROME PANEL
- ●Case: ABS SHELL BUTTON INSTRUCTION
- ●SW1: POSITION CHANGE BUTTON
- (L-F, R-F, L-R,R-R, TANK, CURRENT STATUS)
- ●SW2: SET UPPER AND DOWN LIMITS BUTTON(▲
- SW3: UP ADJUST BUTTON(sets upper warning limit)
- ●SW4: DOWN ADJUST BUTTON (sets down warning limit)

WIRING DESCRIPTION:

- **BLACK CONNECT TO A GOOD GROUND POINT IN THE VEHICLE**
- **WHITE UNUSED**
- ●GREEN CONNECT TO TANK PRESSURE SENDER
- ●BLUE CONNECT TO THE RIGHT- REAR PRESSURE SENDER
- ●BROWN CONNECT TO THE LEFT- REAR PRESSURE SENDER
- ORANGE CONNECT TO THE RIGHT-FRONT PRESSURE SENDER
- ●YELLOW CONNECT TO THE LEFT- FRONT PRESSURE SENDER
- ●RED POWER (DC+12V) CONNECT TO CAR KEY ON ACC POSITION

AS-3 SENSOR SPECIFICATION:

- 1. Power supply voltage: DC12V
- Wires color: Red: +12V, Black: Ground, White: Voltage Signal Output
- 2. Current consumption: 20mA
- 3. Output voltage: 650mV to 4500mV
- 4. Pressure range: 0-20 bar, (Max 300 PSI)
- 5. Accuracy resolution range: (±) 1PSI
- 6. Media compatibility: Clean, dry air & non-corrosive gases
- 7. Connector: 1/8"27 NPT Fitting, Connector color: Silver

DIGITAL GAUGE SPECIFICATION:

- 1. Reading signal: 650mV-4500mV
- 2. Supply Power: DC12V
- 3. Current consumption: Gauge 50mA Sender: 20mA @12V
- Operating temperature: -20 to 80°C
- 5 Reading pressure range: 0-20bar, (Max 300 PSI)
- 6. Gauge accuracy resolution: (±)1psi
- 7. Back light color: Blue

Caution: Cannot be used with any other senders other than those supplied. Readings will not be correct.

MOUNTING

- The gauge requires a rectangular cut out that is about (93mm * 60mm (3.66"* 3.94")
- t should be inserted into the opening from the front
- Insert the gauge. The back shell is fixed by four poles so that the gauge is secure
- ●The face of the gauge is 103mm * 63mm. (4.08** 2.48*)

FACTORY INSTALL VALUE

- When connecting to the Battery without sensors, the digital gauge will sound for 10 seconds
- The initial warning is 1 psi on the bottom limit. 300 psi on the upper limit.
- Without sensors connected, each digit of panel will display "-----"
- f Gauge flashes constantly, warning limits are not set properly or vehicle connected to improper air pressure

FEATURES:

- A warning feature that flashes the gauge readout when outside operation limits
- Exact measurement of any position of the 4 sensors & tank air pressure
- The air pressure gauge will read and operate correctly between range of 0-20bar (Max 300psi)
- Ouser adjustable High & Low air pressure warning pressure setting
- High visibility full character LCD display in blue background

LIMIT WARNING SETTING INSTRUCTIONS

- The Low and High Warning Limit Values can be set to different values.
- There are four buttons in front of the gauge panel which set the warning limit.

The procedure setting the warning limit is as follows:

- Press SW1 button by each time to select the sensors sequence position
- LF, R-F,L-F, R-R,TANK & REALstatus), the display will show HIGH WARNING LIMIT
- "XXX" where "XXX" is the current high pressure warning poin
- ●Press SW2 to select the High or Low Warning Limits (▲
- ●Press SW3 button increase the High Warning Limit Values (▼up
- ●Press SW4 button to decrease the Low Warning Limit Values (▼down
- Position selection sequence: L-F, R-F, L-R, R-R, TANK & Original status
- •When L-F, Low Warning Value is set, Push SW1 to change other Positions
- ●Each time the SW3 (UP) or SW4(DOWN) buttons are pressed the warning point will increase or decrease
- ●After 10 seconds press button again. The display will recover to current status automatically.

marr ripe

USA: 800-898-9719

Congratulations on your purchase of the **SITIALT-FIDE** - the most advanced and easiest to use air bag control system on the market! With a backlit display, real-time control of all of your air bags, and up to 4 fully customizable presets, the **smart-ripe** will put you in complete control of your air suspension system at the touch of a finger.

FEATURES

4 User-adjustable presets: When selected it will automatically adjust the valves to the preset level.

Sensor Monitoring: Real-time monitoring of up to 5 sensors (Left Front, Left Rear, Right Front, Right Rear, Tank)

Auxiliary Inputs: Allow control of the Smart-Ride via thrid party controllers.

Arm Mode: When "Armed Input" wire senses a signal from alarm it will deactivate all features of the display and show a big bold "ARMED" message.

Smart Buttons: To increase or decrease ride height, press arrow keys.

- a. Press Once = Incremental Changes
- b. Press and Hold = Rapid incremental changes.

Automatic Compressor Control: When the tank reaches a user defined level it will send a positive output for the compressor to run. This signal will remain on until tank reaches user specified pressure level.

INSTALLATION WITH PLUG N PLAY

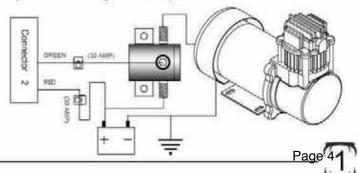
- 1 V Safety First! Disconnect negative battery terminal
- (2) Mount STHALT-FIDE reciever and control display in a dry spot.
- 3 Wire according to diagram (page 4)
 - a. Connect red wire to 12v constant
 - b. Connect black wire to (-)ground
 - c. Connect yellow wire to (+) switched power ignition
 - d. Plug 5 pin white plug into STTATT-FIDE reciever
 - Install 5th Sending unit into an open port on the air tank and connect the red/white wire from connector 3.
 - f. Calibrate sending units and verify sending units.
 - g. Plug white 9 pin plug into the Plug n Play and opposite end into the STIBLET-FIDE reciever.
 - Optional If using keyless entry use (-) outputs to trigger manual valve or preset wires in connector 1.
 - Optional Connect grey wire connector 1 to a (-) output of keyless entry or alarm to disable unit when armed.
 - j. Reconnect negative battery terminal.



INSTALLATION (NON-PLUG N PLAY)



- 1) W Safety First! Disconnect negative battery terminal
- (2) Mount STATT-FIDE reciever and control display in a dry spot.
- Wire according to diagram (page 4)
 - a. Connect red wire to 12v constant
 - b. Connect black wire to (-)ground
 - c. Connect yellow wire to (+) switched power ignition
 - d. Connect sending unit wires to (wk) output of pressure sensor
 - e. Calibrate sending units and verify sending units.
 - Connect Fill (up) wires to corresponding valve's terminal 85 of activation relay.
 - g. Connect dump (down) wires to corresponding valve's terminal 85 activation relay.
 - Connect compressor as shown below to utilize Smart-Ride Automatic Compressor Control
 - h. Optional If using keyless entry use (-) outputs to trigger manual valve or preset wires in connector 1.
 - Optional Connect grey wire connector 1 to a (-) output of keyless entry or alarm to disable unit when armed.
 - i. Reconnect negative battery terminal.



USER GUIDE AND INSTALLATION MANUAL



USA: 800-898-9719



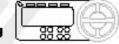
CALIBRATION

Controller Diagram Preets Individual Air Bag Controls P1: Preets 2 P5: Preets 3 P4: Preets 4 8: Shift Preets 4 8: Shift Preets 4 8: Shift Preets 4 RET Up/Down All Up All Down Rear Up/Down Institutional Air Bag Controls Crouped Air Bag Controls Rear Up/Down Rear Up/Down Institutional Air Bag Controls Crouped Air Bag Controls

How to Calibrate the Sending Unit

- Hook up an analog gauge to Tank.
- Press and hold and both and buttons at the
 asmallme, till shift LED starts to flesh and Tank's air pressure
 shows "T000" on the LED, which means the unit, has embred
 into programming mode.
- Inflate the tank to any air pressure. Read the air pressure on the analog gauge, and press the or all buttons until the display shows the same pressure as the analog gauge.
- Prese Strutton to program current resistance of the sending unit.
- Repeat step 3 and 4 (until the unit knows at least 2 resistances (up to 16 can be programmed). The more resistances that are programmed the more accurate it will be.
- 6. Press 🔂 button to exit learning mode.

* Optional *



Valve Timing and Settings

- s. The number shown on the LF LCD represents the output time (10=1sec. 0=0sec. the default is 5=0.5sec), press (2) (3) buttons to adjust. The number shown on the RF LCD represents the output interval (10=1sec. 0=0sec. the default is 5=0.5sec), press (2) (3) buttons to adjust. The number shown on LR represents the air pressure tolerance (the default is 5pel), press
- O buttons to adjust. The number shown on RR represents auto-cycling on/off value.
- b. Press O button to exit.

OPERATIONS

How to Set Preset

- Adjust each air beg to the dealed pressure. For preset P1, P2, P3, P4
- Press and hold selected presst button for 7 seconds. For presst P5, P6, P7, P8
 - a. Press the 🙆 button
 - b. Prese and hold selected preset button for 7 seconds.
- System will fleah to confirm

How Set Compressor Tank Pressure (Debuit Setting 110gsl)

- Press and hold both want and buttons for 6 seconds Seconds. (Tank section of LED Display should be Blinking)
- Use the said and the buttons to choose the desired pressure.
- Press and hold both and buttons for 5
 Seconds. (Tank section of LED Display should STOP Blinking)

User React: Resets the Smart-Ride to factory defaults.

- Press and hold ALL FOUR Presst buttons for 10 seconds (Shift light will go on)
- 2. Press the button (shift light will blink)
- 3. Press the Little button (shift light will stop blinking)

WIRE DESCRIPTIONS

CONNECTOR 1 :: 3rd Party User Interface : All Optional except Pin4

Pin 1 :: Yellow/ Black :: Negative (-) Input :: Preset 2 Activation

Pin 2 :: Brown :: Negative (-) input :: Preset 1 Activation ::

Pin 3 :: Blue :: Negative (-) input :: Preset 3 Activation ::

Pin 4 :: Yellow :: Ignition Positive (+) input :: This wire activates the illumination on the display when given 12 volts positive.

Pin 5 :: Purple :: Negative (-) Input :: Preset 4 Activation ::

Pin 6 :: Grey :: Negative (-) Input :: Alarm Wire :: This wire will active the alarm mode when given an constant negative ground.

Pin 7 :: Green / Black :: Negative (-) Input :: Preset 5 Activation

Pin 8 :: Red :: Negative (-) Input :: Preset 6 Activation ::

Pin 9 :: Pink :: Negative (-) Input :: Preset 7 Activation ::

Pin 10 :: Orange :: Negative (-) input :: Preset 10 Activation Pin 11 :: Green :: Negative (-) input :: Right Rear Pump ::

Pin 12 :: Brown / White :: Negative (-) input :: Right Rear Down

Pin 13 :: Purple / Black :: Negative (-) input :: Light Rear Up ::

Pin 14 :: Red / Black :: Negative (-) input :: Left Rear Down ::

Pin 15 :: Grey / Red :: Negative (-) input :: Right Front Up ::

Pin 16 :: Orange / Black :: Negative (-) Input :: Right Front Down

Pin 17 :: Pink / Black :: Negative (-) input :: Left Front Up :: Pin 18 :: Yellow / White :: Negative (-) input :: Left Front Down ::

USER GUIDE AND INSTALLATION MANUAL

Smart Ride

Pin 1 :: Red :: 12 Volt Power Supply :: This wire is the main feed



into the unit and needs to be connected to a fused 12 volt constant power supply.

Pin 2 :: Black :: Chassis Ground :: This wire is the main ground into the unit and needs to be connected to a fused 12 volt constant power supply.

Pin 3 :: Purple :: Positive (+) Output :: Left Rear Up ::

Pin 4 :: Grey :: Positive (+) Output :: Right Front Up ::

Pin 5 :: Green :: Positive (+) Output :: Right Rear Up ::

Pin 6 :: Brown :: Positive (+) Output :: Right Rear Down ::

Pin 7 :: Yellow :: Positive (+) Output :: Left Rear Down ::

Pin 8 :: Blue :: Positive (+) Output :: Left Front Down ::

Pin 9 :: Orange :: Positive (+) Output :: Right Front Down ::

Pin 10 :: Pink :: Positive (+) Output :: Left Front Up ::

Connector 3:: Sensor Input::

Please note the sensor needs to be grounded good. Poor display readings is caused by bad sensor grounds, or incorrect sensor learning. In addition you must use the same style sensor for all Bags and tanks.

Pin 1 :: Red/White :: Tank Sensor Input (variable negative re sistance) This comes seperate when purchased with the Plug n Play.::

Pin 2 :: Brown/Blue :: Left Front Bag Sensor Input (variable negative resistance) ::

Pin 3 :: Orange/Blue :: Right Front Bag Sensor Input (variable negative resistance) ::

Pin 4 :: Blue/White :: Left Rear Bag Sensor Input (variable negative resistance) ::

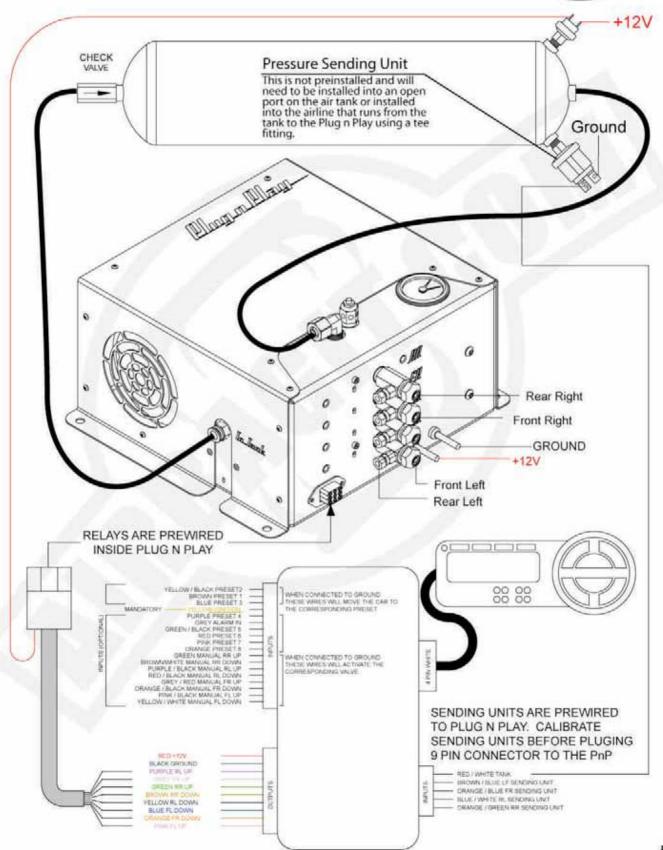
Pin 5 :: Orange/Green :: Right Rear Bag Sensor Input (variable negative resistance) ::

TROUBLESHOOTING

- Q. When I press my preset button the system has a hard time finding the preset accurately.
- A. If the system can't fnd your preset easily you will need to adjust the interval time which can be set between 1-10, 1 being 1/10 of 1 second, 10 being 1 full second.
- Q. Display is reading inaccurate PSI.
- A1 . If the PSI reading is incorrect you will need to re-calibrate your sensors to the smart-ride system.
- A2 . Confrm the sensors are grounded and connected properly to the smart -ride system.
- A3. Maximum PSI of sensor has been exceeded.
- A4. The sensor is a non-linear sensor and is not compatible with the S m a r t-Ride.
- Q. All my pressures are right except for 1.
- A1. Follow the cooresponding wire from the smart-ride controller to the pressure sender and check for any shorts or breaks.
- A2. Check to make sure the sensor is properly grounded.
- A3. Swap the wire between this sensor and the tank sensor to see if the display changes. If the display doesn't change then double check the wiring to the sensor.
- Q. Display shows alarm and nothing works.
- A. Deactivate your alarm system. Check for ground on the grey wire at pin 6 on Connector 1.
- Q. Display will not illuminate. (nothing on screen)
- A. Be sure that the solid yellow wire is hooked up to switched ignition power.
- Q. I received an extra Pressure Sending unit with my Plug n Play?
- A. This is the Pressure Sending Unit for the tank. We can't pre-install this since you have the choice to run different tanks in different locations. Install this sending unit into an open port on the tank. If you do not have an open port then install a tee fitting into the air line that run from your tank to your Plug n Play or Valves.

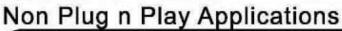
USER GUIDE AND INSTAUVATION MANUAL



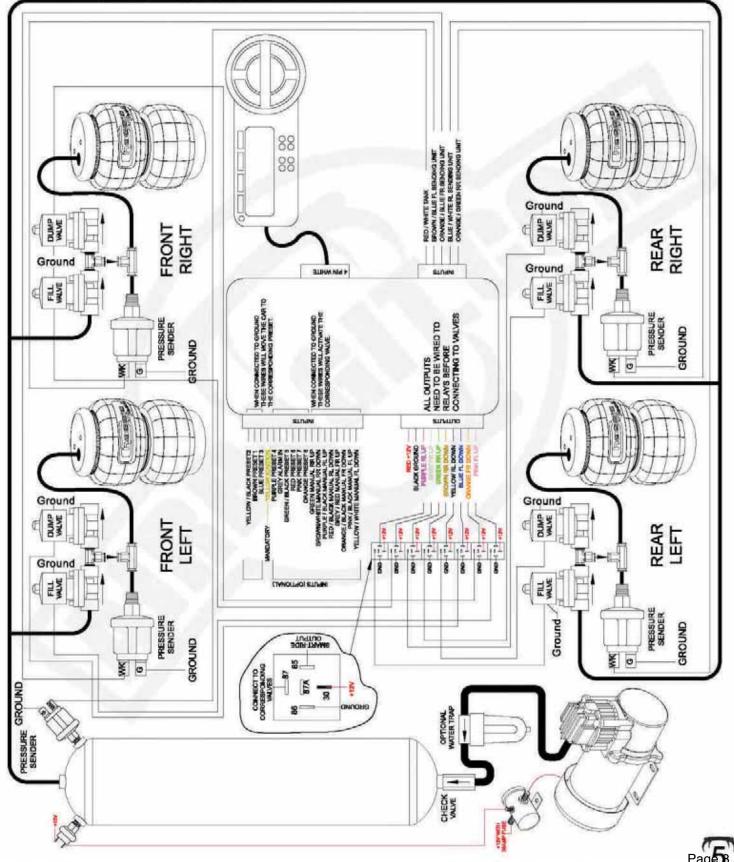


USER GUIDE AND INSTALLATION MANUAL

SMart ride







Attaching the external Air Filter

