

Operation Instructions:

Remote transmitter operation [J-Str/3-T Only]

*** Button:** This is the primary button of the transmitter and is used to start and stop the vehicle's engine. When this button is pressed the vehicle parking lights will come on and the status LED will begin flashing rapidly.

These 2 visible indicators confirm that the vehicle will start within 3 seconds.

Once the vehicle is running, pressing the '*' button again will shut the vehicle engine off.

'Lock/Unlock' Button: When pressed this button will alternately lock and unlock the vehicle's power door locks (if installed). The vehicle's parking lights will flash 1 time when the doors are locked and flash 2 times when the doors are unlocked. The status LED will flash slowly when the vehicle is locked to show "Locked Status".

'Trunk' Button: By holding down this button for about 2 seconds the vehicle's power trunk release (if installed) will operate.

Service Mode

Whenever the vehicle is being serviced it is a good idea to temporarily disable the J-Str/3 unit. To do this first turn the ignition key to the on/run position then, within 5 seconds, press and hold the valet/service switch for approximately 3 seconds or until the status LED lights solid. Now release the valet/service switch and the J-Str/3 unit is temporarily disabled.

While disabled the 'Lock/Unlock' and the 'Trunk' buttons will continue to function.

To return the J-Str/3 unit to normal mode simply repeat the steps above. When completed the status LED will turn off indicating that the J-Str/3 unit is in the normal operating mode.

Pit-Stop Mode

If you wish to keep the vehicle running during a quick stop-over, follow these simple instructions:

-Before turning the vehicle off and exiting, press and hold the brake pedal.

-While holding the brake pedal, press the '*' button on the remote transmitter. The status LED will begin to flash rapidly.

-Now release the brake pedal and turn the ignition key off and remove. The vehicle engine will continue to run.

-At this point, exit the vehicle and use the remote 'Lock/Unlock' and 'Trunk' functions as normal.

-When reentering the vehicle simply insert the ignition key and turn to the run position and resume normal operation of the vehicle.

Cold Start Mode [J-Str/3-T Only]

This mode instructs the J-Str/3-T unit to start and run the vehicle's engine for 15 minutes every 2 hours for a 24 hour period. This mode is especially helpful in extremely cold climates. To enter this mode follow the instructions below:

-Simultaneously press the 'Lock/Unlock' button on the transmitter and the valet/override switch for 5 seconds or until the vehicle parking lights flash 5 times.

-The engine will now start and run for 30 seconds and then shut off.

-The J-Str/3-T unit is now in cold start mode and will start and run the vehicle for 15 minutes every 2 hours for a maximum of 24 hours.

***Warning:** Do not engage this mode unless the vehicle is in a very well ventilated area.

The cold start mode can be deactivated by performing any of the following:

-Repeat steps listed above.

-Remote start the vehicle using the remote transmitter.

-Press the brake pedal.

Cold start mode is now deactivated.

Programmable features: [factory default is ON]

- | | |
|--|--|
| # 1. Second ignition/accessory relay action
On = Output acts as second ignition
Off = Output acts as second accessory | # 4. Double pulse unlock
On = Single unlock pulse (standard)
Off = Double unlock pulse |
| # 2. Remote run time
On = 12 minutes
Off = 24 minutes | # 5. Auxiliary control input mode
On = 3 pulses (neg) to trigger starting
Off = 1 pulse (neg) to trigger starting |
| # 3. Door lock/unlock output pulse time
On = .75 seconds (standard)
Off = 3 seconds | # 6. Door locking upon remote starting
On = Doors lock when remote starting
Off = Doors <u>do not</u> lock when remote starting |

Accessing programmable features:

1. Turn ignition key to the on/run position
2. Within a 10 second period press the valet/service switch 5 times.
3. When step 2 is completed successfully the status LED and the vehicle parking lights will flash 1 time.
4. System is now in programming mode.
5. Now press the valet/service switch the number of times that corresponds to the desired programming feature listed above. In other words, 1 time for feature #1 or 2 times for feature #2 and so on. The status LED and the parking lights will flash each time the valet/service switch is pressed.
6. When you have reached the desired program location press the '*' button on the remote transmitter for about a second to turn the feature 'on' or press the 'Lock/Unlock' button to turn the feature 'off'. The status LED and the vehicle parking lights will flash 1 time to indicate that the selected feature is 'on' and 2 times to indicate that the selected feature is 'off'.
7. Now turn the ignition key off. Programming is complete.

J-Str/3 & J-Str/3-T

Remote Vehicle Starting Systems

Made in USA

Limited Lifetime Warranty

Please read these instructions thoroughly before beginning installation.

Safety Precautions:

- The J-Str/3 and J-Str/3-T are designed for vehicles in good operating condition equipped with automatic transmission and electronic fuel injection. THESE UNITS ARE NOT INTENDED FOR INSTALLATION ON MANUAL TRANSMISSION EQUIPPED VEHICLES.
- Never operate any vehicle in enclosed areas such as a garage.
- When installing the J-Str/3 unit, always use a volt/ohm meter or other computer-safe tester when testing vehicle circuits.
- It is highly recommended that all safety options be connected such as a hood pin switch and brake shut off.

Special Features

- Multiple start sensing modes: Tachless sensing, spark sensing, tachometer sensing
- Diesel mode: Ignites glow plugs for 20 seconds prior to starting.
- Service mode: Allows user to disable the J-Str/3 unit during automotive service.
- Programmable second ignition/accessory output: Allows installer to select between second ignition or second accessory output.
- Programmable run time: Run time can be set to either 12 or 24 minutes.
- Factory security system disarm output: An output is provided upon starting to deactivate factory security systems.

Additional Features (J-Str/3-T only)

- Full feature remote keyless entry including outputs for door lock/unlock and remote trunk release.
- Extended range receiver: Unique design allows remote mounting of receiver module to further enhance range capabilities.
- PIT STOP feature: Allows user to keep vehicle running during short stop-over while maintaining complete remote keyless functions.
- Selectable double-pulse unlock output: For those vehicles requiring a double pulse output to unlock factory door lock systems.

Limited Lifetime Warranty:

1st year - Exchange

The manufacturer of J-STR/3 & J-STR/3-T will repair or replace the control module for the life of the product to the original purchaser, on the original vehicle installation. Physical or electrical abuses are not warranted. Any and all subsequent damages or expenses incurred evolving from a defective control unit are not the responsibility of the manufacturer or any of the distribution or sales line thereof. A nominal shipping & handling charge may apply after the first year.

1. 'FLAG' Power Connectors

- ⇒ **Red Wire** (there are 2): Connect both of these wires to a constant 12V source that is able to supply 30 amps of current. It is recommended that these connections be made at the steering column near the ignition switch or to the positive terminal of the battery. Also, for safety, it is recommended that a 30 amp fuse be installed close to the power source using a suitable fuse holder.
- ⇒ **Yellow Wire**: Connect this wire to the main ignition wire at or near the ignition switch. This wire should switch 12v and not drop out during cranking.
- ⇒ **Orange Wire**: Connect this wire to the main accessory wire at or near the ignition switch. This wire should switch 12v, however it will drop out during cranking.
- ⇒ **Brown Wire**: Connect this wire to the secondary accessory wire at or near the ignition switch. *Optionally*: Connect this wire to the secondary ignition wire at or near the ignition switch. Many vehicles require this extra ignition/accessory wire to operate computers, air conditioners, heaters, fans, etc. The action of this wire can be changed. See programming instructions elsewhere in this manual.
- ⇒ **Purple Wire**: Connect this wire to the starter wire at or near the ignition switch. This wire should show 12v only during cranking.

2. 10 Pin Connector

- ⇒ **Yellow Wire**: Brake switch input. Connect this wire to the switched side of the brake light switch. This wire must be hooked up properly as it is one of the safety inputs to the J-Str/3 unit and also provides for some special operating features found elsewhere in this manual.
- ⇒ **Violet Wire**: Sensor bypass input. When interfacing a remote start unit with a security system it is common to have to bypass a shock or motion sensor to allow proper operation of the security system when the vehicle is running. Find and cut the trigger wire of the shock/motion sensor and connect the sensor side of the cut wire to this violet wire.
- ⇒ **Blue Wire**: Hood switch input. Connect this wire to a hood pin switch. If there is not a factory installed switch, it is highly recommended that you install a pin switch as this wire is one of the safety inputs to the J-Str/3 unit.
- ⇒ **Green Wire**: Spark/Tach Sense input. If using Spark sensing, this wire should be wrapped 4 to 5 times around any spark plug wire anywhere along its length. ***NOTE: Do Not strip insulation from the green wire or the spark plug wire. This is an inductive hook-up and does not require an electrical connection.** If using Tach sensing, this wire should be connected to the proper tach sense location with appropriate connectors.
- ⇒ **Gray Wire**: Auxiliary negative output. Use this wire to control any extra relays needed to properly start the vehicle.
- ⇒ **Orange Wire**: Negative trigger input. Connect this wire to the output of the alarm or keyless entry unit that will be controlling the J-Str/3 unit. This wire is not needed when installing the J-Str/3-T unit.
- ⇒ **Black Wire**: Chassis ground. Connect this wire to a good and solid chassis ground. A good ground is extremely important to the operation of the J-Str/3 unit.
- ⇒ **Brown Wire**: Sensor bypass output. Connect this wire to the alarm side of the cut sensor wire detailed above under 'Violet Wire'.
- ⇒ **Red Wire**: 12 volt input. Connect this wire to a good 12 volt constant source.
- ⇒ **White Wire**: Parking light output. Connect this wire to the parking light circuit. This wire supplies a positive 12 volt output.

3. Valet Switch (Blue 2-pin connector)

Plug in Valet / Service switch.

4. LED (Red 2-pin connector)

Plug in status LED.

5. Trunk / Disarm / Vacuum (Red 3-pin connector)

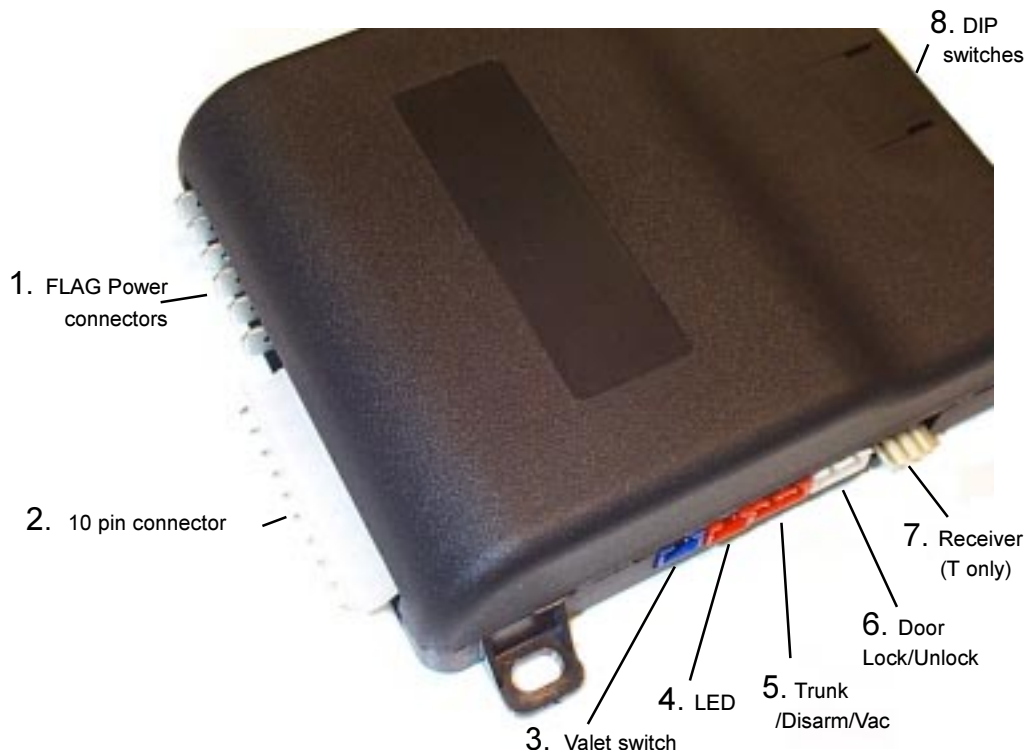
- ⇒ **Green/Black Wire**: Trunk release output. This wire supplies a negative output when the 'Trunk' button of the J-Str/3-T remote transmitter is pressed. ***WARNING: This wire must be used in conjunction with a relay or the J-Str/3-T unit will be damaged.**
- ⇒ **Red Wire**: Factory security disarm output. This wire supplies a negative output when the start sequence of the J-Str/3 unit begins and also when an unlock signal is received from the J-Str/3-T unit.
- ⇒ **Yellow Wire**: Vacuum switch input. Connect this wire to an optional vacuum switch if being used for engine run sensing.

6. Door Lock / Unlock (White 3-pin connector)

- ⇒ **Red Wire**: Supplies constant 12 volt power for door lock relays. ***WARNING: This output is only intended to operate the relay and not as a supply to actuate the door lock motors of the vehicle.**
- ⇒ **Green Wire**: Supplies a negative output for lock.
- ⇒ **Blue Wire**: Supplies a negative output for unlock.

7. Antenna Connector (White 4-pin connector) [J-Str/3-T Only]

Plug extended range receiver/antenna into this port. Using double stick tape pad provided, mount the receiver/antenna to the upper inside corner of the windshield and extend wire for maximum range.



* See bottom of unit for complete layout /color code hookup instructions *

8. Dip Switch Settings [factory default is ON]

- ⇒ **Dip Switch #1**: Set to off when using the green wire for spark or tach engine run sensing.*
- ⇒ **Dip Switch #2**: Set to off when using optional vacuum switch for engine run sensing.
- ⇒ **Dip Switch #3**: Set to off when needing additional cranking time on vehicles that require it.
- ⇒ **Dip Switch #4**: Set to off when installing the J-Str/3 unit on a diesel engine equipped vehicle. Ignition will come on for 20 seconds allowing the glow plugs to warm up before cranking.

*** SPARK/TACH SENSE (dip sw #1=OFF) is HIGHLY RECOMMENDED for the highest dependability ***

Note on Factory installed Anti-Theft systems

Many new vehicles are now coming factory equipped with some type of anti-theft system. These include GM V.A.T.S., PASSLOCK I, II, and III, Ford P.A.T.S. and many others. These systems must be dealt with if a remote starter unit is to be installed. Different methods and modules are available to help the installer deal with these systems. Please consult J. L. Troy Company, Inc. or the *Wire Magic* program for specific applications.

REMOTE TRANSMITTER CODE TEACHING (J-str/3-T only)

****Note: Receiver/Antenna must be connected before Code Teaching**

In most cases, the transmitters included with the J-str/3-T kit are programmed to the unit at the factory. If not, you will need to teach the J-str/3-T unit the transmitter codes using the following steps:

1. Within a 5 second period, turn ignition key on-off, on-off, on and leave on. (*HINT: This action has to be done rather quickly. You will find that if you click the key on and off from the first key click position rather than from the lock/off position that this procedure will be much easier)
2. If step 1 is completed successfully the LED and the PARKING LIGHTS will flash one time.
3. Now press and hold the valet/service switch for about 3 seconds.
4. The LED and the PARKING LIGHTS will flash quickly 3 times.
5. Now release the valet/service switch.
6. The J-str/3-T unit is now ready to receive transmitter codes.
7. Press the '*' button on each transmitter one at a time. Each time a new code is received the LED and the PARKING LIGHTS will flash once confirming that the transmitter code has been learned. The unit will learn a total of 3 codes.
8. Turn the ignition key off. Remote transmitter(s) are now ready for use.