

Model TRU300R Installation Manual

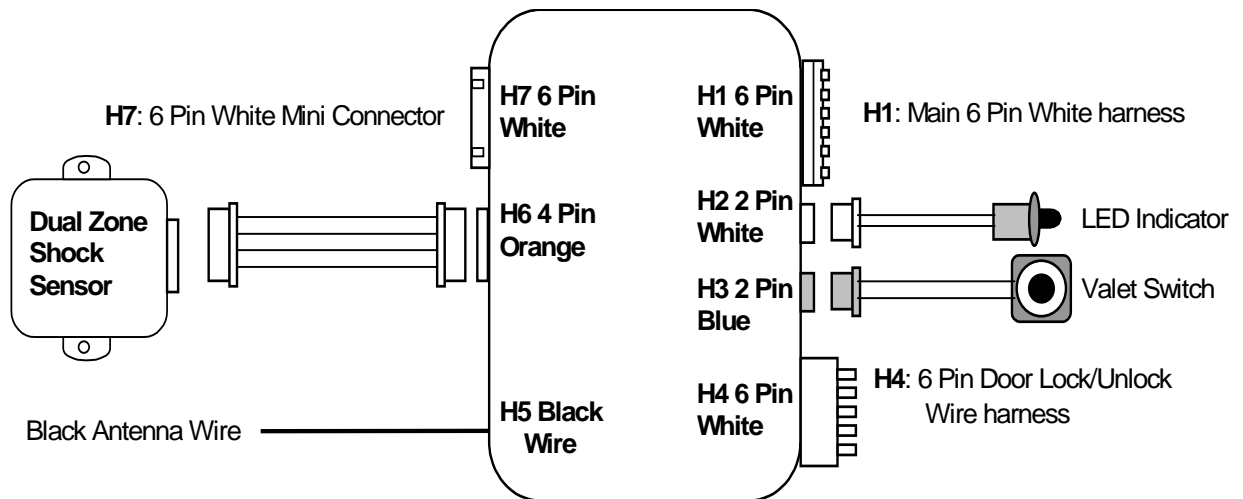
[INTRODUCTION]

INSTALLER WARNINGS

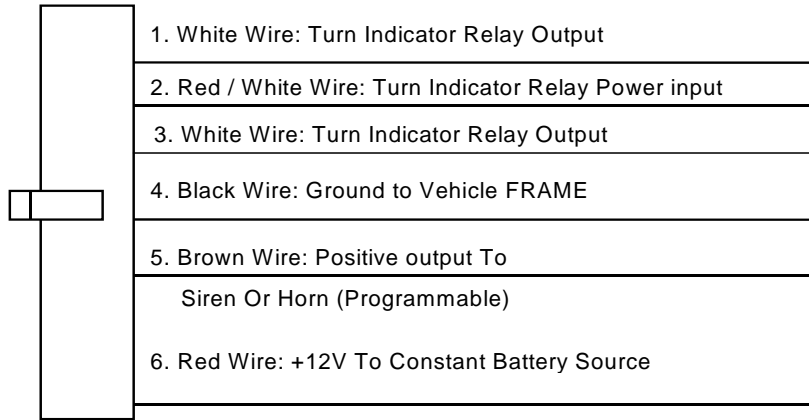
Keep wiring away from moving engine parts, exhaust pipes and high-tension cable. Tape wires that pass through holes on the firewall to prevent fraying. Watch out for sharp edges that may damage wires and cause short circuit.

CAUTION: Do not connect the wire harness to the control module until all wiring to vehicle is complete.

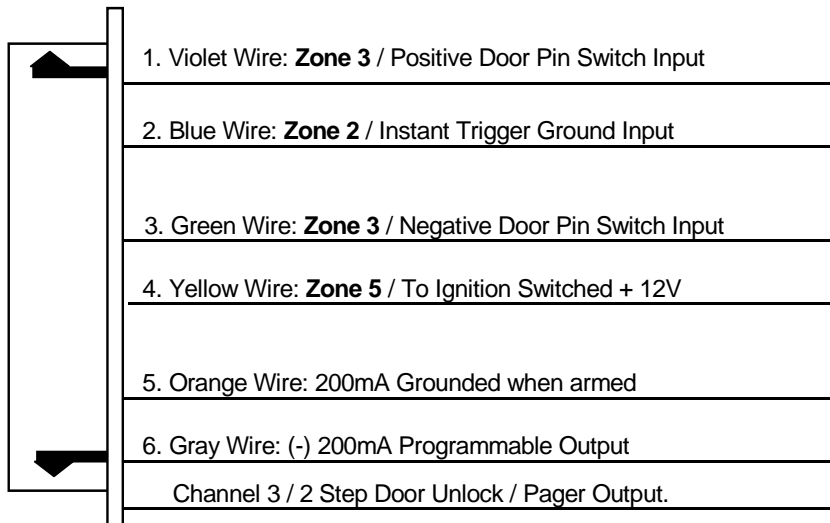
[INSTALLATION DIAGRAM]



H1: MAIN 6 PIN WHITE WIRE HARNESS:



H7: 6 PIN WHITE MINI CONNECTOR WIRE HARNESS:



H1: MAIN 6 PIN WIRE HARNESS:

H1/1 & 3. White wire – Turn Indicator Relay Output (5A Output for each) –

The WHITE wires transfer the power taken from the RED/WHITE wire to turn indicators, through the alarm internal relay. Connect one of the two WHITE wires to right line of turn indicator and connect the other one to the left line indicator.

H1/2. Red / White wire – Turn Indicator Power Input –

The RED/WHITE wire is the input to the flashing turn indicator relay. The connection of the RED/WHITE wire will determine the output polarity of the flashing turn indicator relay.

If the vehicle you are working on has +12volt switched turn indicators, you don't need connect this wire. This wire already connected to +12volt.

If the vehicle's turn indicators are ground switched, cut the RED/WHITE wire, connect the RED/WHITE to chassis ground.

H1/4. Black wire -- System Ground –

This is main ground connection of the alarm module. Make this connection to a solid section of the vehicle frame. Do not connect this wire to any existing ground wires supplied by the factory wire loom, make the connection to the vehicle's frame directly.

H1/5. Brown wire – Siren Drive or Horn Output – (Set Feature III – 1 Programming)

SIREN DRIVE OUTPUT (Factory default setting)

This is the positive (+) output connection for the siren. Current capacity is 2 Amp. Make connection to the (+) red wire from the siren. Make the (-) black wire coming from the siren to a good chassis ground.

(+) Low Current HORN OUTPUT -- (Set Feature III – 1 To Horn Output)

This wire is provided to use the existing vehicle's horn as the alarm system's optional warning audible device. It's a transistorized low current output, and should only be connected to the low current positive (+) output from the vehicle's horn switch.

H1/6. Red wire – System Power (+12V Constant) –

The RED wire supplies power to the system. Connect this wire to a constant +12 volt source.

H7: 6-PIN MINI WHITE CONNECTOR WIRE HARNESS.

H7/1. Violet wire – Positive Door Switch Sensing Input –

This wire is the positive trigger input wire for positive door pin switch. This wire is connection for "positive" type factory door pins (typical FORD MOTOR). Locate the "common wire" for all door pins and make the connection of the Violet Wire here.

H7/2. Blue wire -- Ground Instant Trigger Input –

This wire is the ground trigger input wire for hood/trunk pin switches.

H7/3. Green wire – Negative Door Switch Sensing Input –

This wire is the ground trigger input wire for negative door pin switch. This wire is connection for "grounding" type factory door pins locate the "common wire" that connects the door pin switches. Make the connection of the GREEN Wire here.

H7/4. Yellow wire – To Ignition Switched +12V –

This wire is connected to a switched 12 volts source. This wire should receive "12 volts" when the ignition key is in the "ON" and "START" position. When the ignition is turned "OFF", this wire should receive "0" voltage.

H7/5. Orange wire – (-) 200mA Grounded Output When Armed –


This wire will become grounded when the alarm is armed. The current capacity of this wire is

200mA. This output can control starter disable, when an intrusion is detected and the system is triggered. The vehicles prevent from any unauthorized starting.



- a). Find the wire from the starter solenoid, (usually located on the starter) and going to the ignition switch.
- b). When found, use voltmeter, connect one probe of the voltmeter to ground and connect the other end of the probe to the starter wire, it should receive "12 volts" only when the ignition key in the "START" position.
- c). After locating the correct wire, cut it in half, try to start the vehicle. The engine should not "crank over".
- d). When the extend wires are needed, they must be exactly same gauge as the cut wire. Connect the cut wire from the key switch to the RED wire (pin #30) of the relay, and connect the starter wire to the WHITE wire (pin #87a) of the relay.
- e). Connect the ORANGE Wire from the control module to the ORANGE wire (pin #86) of the relay.
- f). Connect the Yellow wire (pin #85) of the relay to a switched 12 volts source from the ignition switch.

NOTE: If more than one electronic device will be connected to the ORANGE Wire, it will be necessary to isolate the connection of each device control wires with a 1N4003 diode

H7/6 . Gray wire – (-) 200mA Programmable Output – CHANNEL 3 OUTPUT (Factory default setting)

This will become a 1 second pulse ground by press and hold  button on transmitter for two seconds, the current capacity of this wire is 200 mA. this feature allows you to remote control trunk release or other electric device.

2 STEPS UNLOCK OUTPUT (Set Feature **III – 2** Programming to "2 Step Door Unlock Output)

The 2 steps unlock feature will work for the most fully electronic door lock circuit. The vehicle must have an electronic door lock switch (not the lock knob or key switch), which locks and unlocks all of vehicle's doors. When wired for this feature, press the  button one time will disarm the alarm and unlock the driver's door only. If, press  button two times within 3 seconds, the alarm will disarm and all doors will unlock.

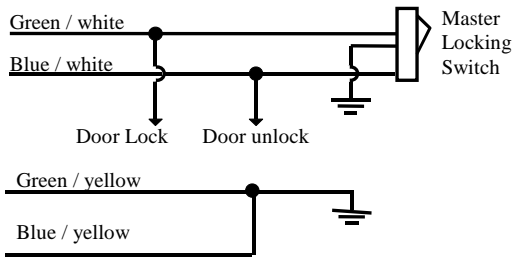
PAGER OUTPUT (Set Feature **III – 2** Programming to "PAGER Output)

This wire provides a negative output, when the alarm triggered. The current capacity of this wire is 200mA. For optional electrical device in this system, please connected to an additional relay. (I.E. Pager interface....)

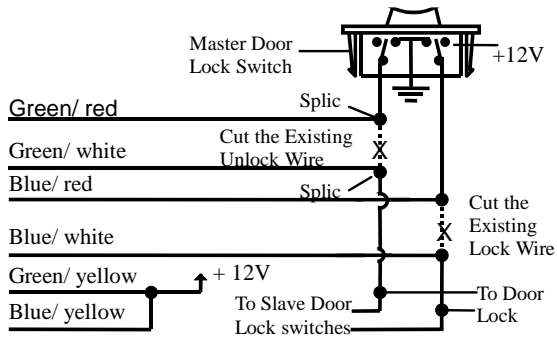
H4: 6 PIN DOOR LOCK CONNECTOR:

Blue/Red Wire: (87a) - Door Unlock Relay
Blue/White Wire: (30) - Door Unlock Relay
Blue/Yellow Wire: (87) - Door Unlock Relay
Green/Red Wire: (87a) - Door Lock Relay
Green/White Wire: (30) - Door Lock Relay
Green/Yellow Wire: (87) - Door Lock Relay

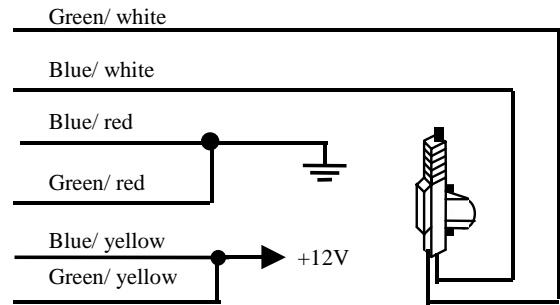
NEGATIVE TRIGGER DOOR LOCK SYSTEM



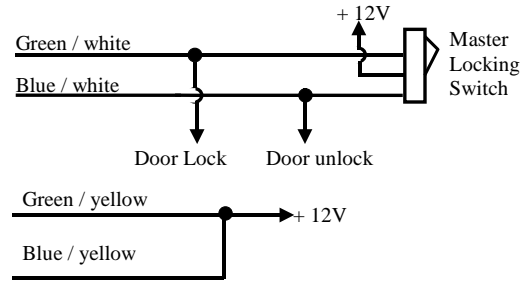
ALTERNATING DOOR LOCKS



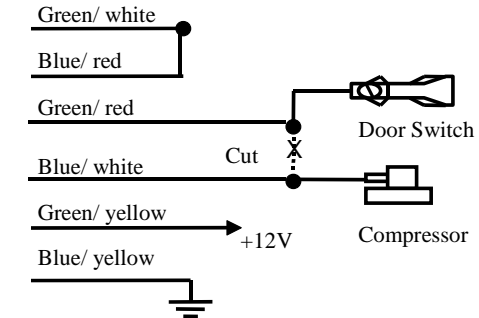
INSTALL NEW DOOR LOCK MOTORS



POSITIVE TRIGGER DOOR LOCK SYSTEM



VACUUM OPERATE DOOR LOCKING SYSTEM



PROGRAMMING

A. PROGRAMMING TRANSMITTER:

Note: This mode will only retain the last 4 remote transmitters programmed. If the transmitter memory is exceeded, the security system will start deleting transmitters from memory in chronological order.




1. Turn the Ignition 'switch 'OFF/ON' 3 TIMES and stay in ON position. Within 15 seconds.
2. Push the Valet switch 3 times and hold it until a long chirp is hearing then release the valet switch. You are now in the Transmitter programming mode.
3. Press and hold any button of the transmitter until the siren responds with a confirming chirp, indicating the signal has been stored into memory.
4. If you have additional transmitters (up to 4) that need to be programmed, repeat step 3 for each transmitter.

Exit: Turn Ignition to 'OFF' position, or leave it for 15 seconds. A 3 long chirps & 3 parking light flashes to confirm exit.

B. ALARM FEATURES PROGRAMMING:

ALARM FEATURE “I” PRORAMMING:




1. Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
2. Push the Valet switch **2** times and hold it until **one** chirp with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'I' programming mode.
3. Press and release the transmitter button 'A' corresponding to the feature 'A' you want to change.
 - a. The siren chirps and LED pause will indicate newly setting.
 - b. The system would advance to [2] LED flash, [2] chirp. (The factory default settings are always [1] LED flash, [1] chirp.)
4. Depress the transmitter button 'A' again to change the feature again. Simple keep re-depressing the transmitter button 'A' again until the module advances to your desired setting.
5. Depress the transmitter button 'B' corresponding to the feature 'B' you want to program.

Press Transmitter Button	One Chirp / LED one pulse	Two Chirps / LED two pulse
1 	Chirps on	Chirps off
2 	Automatic Rearm On	Automatic Rearm Off
3 	Instantly Door Ajar Warning.	30 seconds Delay Door Ajar error chirp.

Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. A 3 long chirps to confirm exit.

ALARM FEATURE “II” PRORAMMING:




- 1 Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
- 2 Push the Valet switch **4** times and hold it until **two** chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'II' programming mode.
- 3 Press and release the transmitter button 'A' corresponding to the feature 'A' you want to program.

Press Transmitter Button	One Chirp / LED one pulse	Two Chirps / LED two pulse	Three Chirps / LED three pulse
1 	0.9-second Door lock pulses.	3.0-second Door lock pulse.	Double pulse unlock
2 	Active arming	Passive arming without passive door locking	Passive arming with passive door locking.
3 	Ignition controlled door locks & unlocks	Without ignition controlled door locks & unlocks	

Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. A 3 long chirps to confirm exit.

ALARM FEATURE “III” PRORAMMING:

- 1 Turn the Ignition 'switch 'ON/OFF' 3 TIMES and stay in OFF position.
- 2 Push the Valet switch **6** times and hold it until three chirps with a long chirp is hearing then release the valet switch. You are now in the Alarm feature 'III' programming mode.
- 3 Press and release the transmitter button 'A' corresponding to the feature 'A' you want to program.

Press Transmitter Button	One Chirp / LED one pulse	Two Chirps / LED two pulse	Three Chirps / LED three pulse
1 	H1/5 Brown Wire = Siren Output	H1/5 Brown Wire = Horn Output	
2 	H7/6 Gray Wire = Trunk (Channel 3) Output	H7/6 Gray Wire = Two Step Door Unlock Output	H7/6 Gray Wire = Pager Output
3 	Car Jacking Off	Car Jacking On	

Exit: Turn Ignition to 'ON' position, or leave it for 15 seconds. A 3 long chirps to confirm exit.