



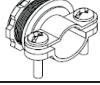

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UTS6, UTS6BI & UTS10BI Auto Start Instructions - Honda

CAUTION

This kit is designed to support Honda EM5000/7000is Remote Start Generators only. Ensure there is **NO POWER** connected to the UTS panel from any source during Auto Start kit installation.

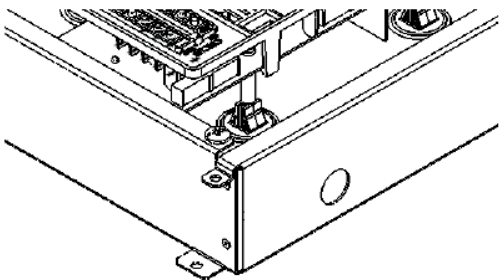
A qualified electrician must install the transfer switch according to the transfer switch manufacturer instructions, and the connection must comply with all applicable laws and the local electric code.

UTS Auto Start Kit Parts List		
Qty	Description	Image
1	STRAIN RELIEF 3/8 CABLE CLAMP	
1	6 POS GENERATOR START/STOP CONNECTOR	

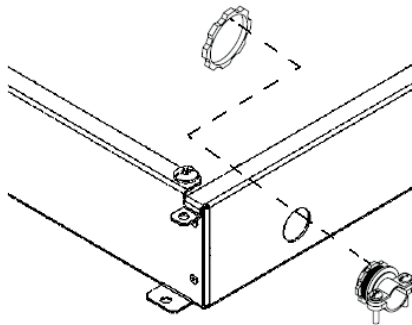
1. Review the *UTS Auto Start Kit Parts List*, and ensure all parts are included.

NOTE: A 4-conductor remote cable (Honda P# 32520-Z22-850AH) must be supplied by the user. Consult with generator provider for more information.

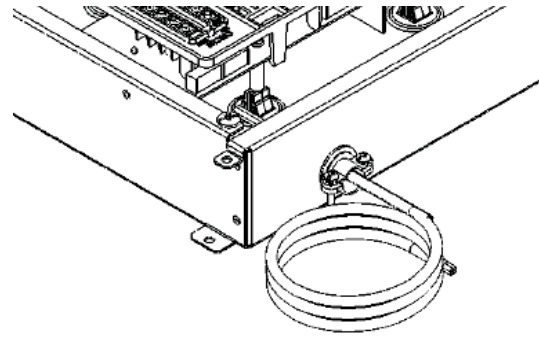
2. Remove the four (4) or six (6) *square drive screws*



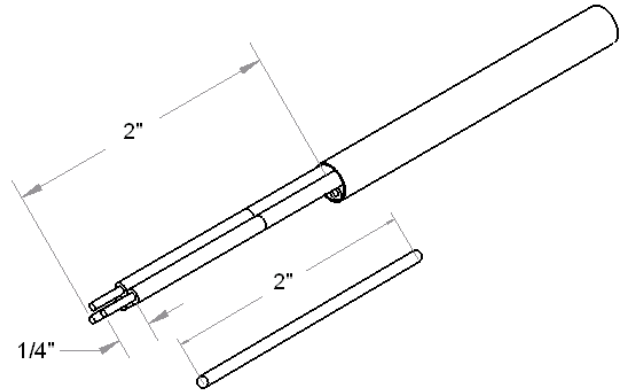
3. Remove the plastic plug from the top right of the UTS.



4. Install the *3/8-inch strain relief cable clamp*, and fasten it into place using the locknut provided.

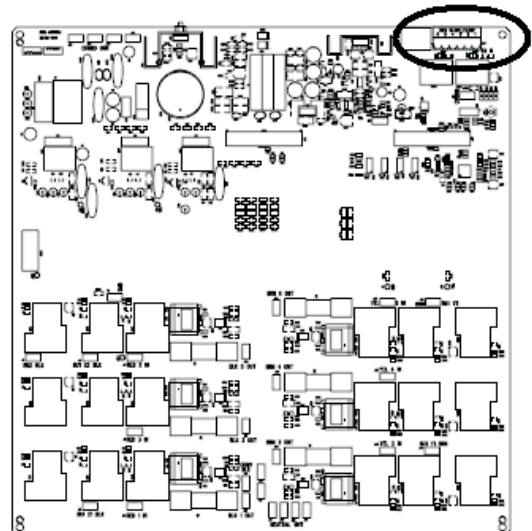


5. Feed the generator Auto Start cable through the cable clamp.



6. Prepare the Honda remote cable (purchased from generator provider) as follows:
a. Remove approximately 2" of the *outer jacket*.
b. Strip off 1/4" of insulation from three of the jacketed conductors: black, white and green.
c. Cut 2" of wire from remaining (red) conductor and set aside.

7. Connect the 6-position generator Start/Stop connector to the Auto Start cable. See wiring diagram on the reverse side of this sheet for more details.

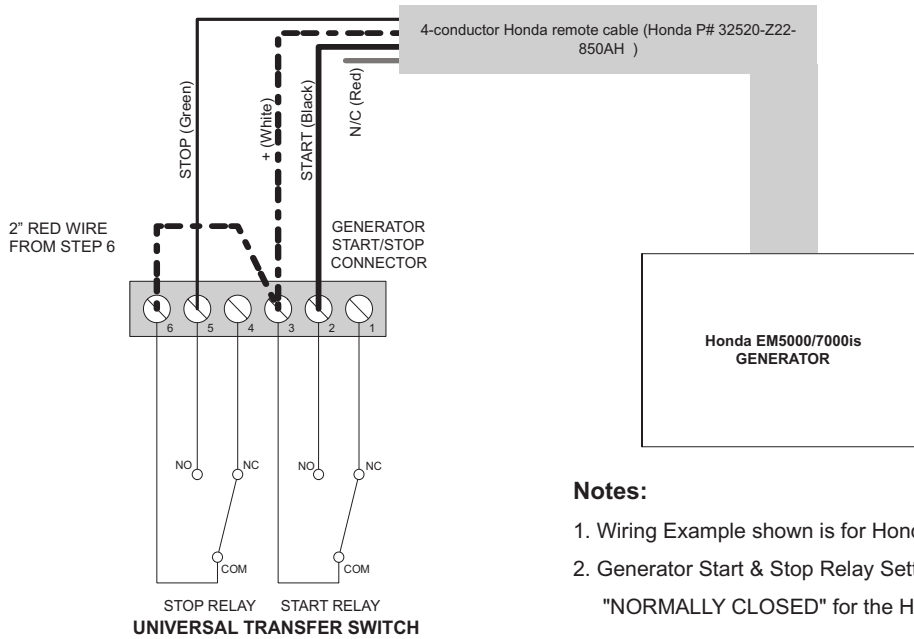


8. Connect the 6-position connector to the printed circuit board as shown above, then tighten the Cable Clamp.

9. Install the *UTS cover*, and fasten it in place with the square drive screws removed in step 2.
10. Apply Power to UTS.
11. On UTS, press "System Setup" button until "Gen Start Mode" appears. Press arrow key to select "Auto."
12. Press "System Setup" button until "Gen Start Relay Pos" appears. Press Arrow key to select "Normally Closed."

13. Press "System Setup" button until "Gen Stop Relay Pos" appears. Press arrow key to select "Normally Closed."
14. Connect opposite end of cable to generator.
15. Test system by removing utility power from UTS. After delay, generator should start.

WIRING DIAGRAM



Notes:

1. Wiring Example shown is for Honda EM5000/7000is Generator
2. Generator Start & Stop Relay Settings (Advanced Configuration) should be "NORMALLY CLOSED" for the Honda EM5000/7000is.

Advanced Generator Start/Stop Configuration:

1. When the START RELAY or STOP RELAY is set to "NORMALLY CLOSED", it means that when the UTS is powered, and the UTILITY power is good, the relay will be in the "NC" position. Conversely, if it is set to "NORMALLY OPEN", then the relay will normally be in the "NO" position. In other words, this specifies their DEFAULT positions, when the GENERATOR is off and the UTILITY or GENERATOR power is normal.
2. When the GENERATOR is to be started or stopped, the START and STOP relays will move to the other position (e.g., from NC to NO). After the programmed Auto Start Delay occurs, the relay's "momentary" contact (NORMALLY OPEN or NORMALLY CLOSED) is activated for 5 seconds. The relay then reverts back to the inactive state. If it fails the first time, it will try again 2 more times at 15 second intervals.
3. When the GENERATOR fails to start or stop, the relays will move back to their DEFAULT position, and the system will wait 30 seconds before trying again.
4. After the 3rd attempt to start or stop the generator fails, the system will declare a FAULT and display a warning message.

Example sequence of events.

1. Both START and STOP Relays are set to "NORMALLY CLOSED". START DELAY and STOP DELAY are set to 30 seconds. (adjustable up to 60 minutes)
2. UTILITY power is normal, so both relays are in the "NC" positions. That means that contacts 1-3 and 4-6 on the connector will be shorted, and 2-3 and 5-6 will be open.
3. UTILITY power fails; there is a 30 second delay (START DELAY), the START RELAY will move to the NO position, contact 1-3 is open and 2-3 is shorted.
4. GENERATOR starts up normally. Now the START RELAY will move back to the NC position, contact 1-3 is closed and 2-3 is open.
5. UTILITY power returns; there is a 30 second delay (STOP DELAY), the STOP RELAY will move to the NO position, contact 4-6 is now open, and 5-6 is shorted.
6. GENERATOR stops as expected. The STOP RELAY will now move back to the NC position, contact 4-6 is shorted, and 5-6 is open.

Notes: This sequence of events assumes that there is a UPS plugged into the UPS INLET of the UTS to provide power during the UTILITY failure. If there is no UPS, or if the UPS's battery runs out before the generator can be started, then the UTS will lose power. If the UTS loses power, both relays will move to the "NC" position immediately, regardless of their settings.

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