

Well you have just purchased a fully manual control system for your Aisin Warner transmission, enjoy.

Finding which transmission wires to connect controller to:

It's recommended that you have help with this for safety.

Using masking tape tags mark the three transmission control wires "A", "B", and "C".

With the engine running and floor shift selector in Drive. Connect a 12V+ jumper to the wire that you marked "A".

If this is the #1 solenoid wire you should feel the transmission shift down to 1st gear and easily move forward

when the throttle is applied.

If this is the #2 solenoid wire the transmission will still feel boggy.

If this is the Torque Converter Lockup wire the engine should stall.

Repeat this test on all three wires to confirm which wire is which.

Mark the wires with the appropriate solenoid # or "TC" to know which wire to connect to your TC on/off switch.

Now mount the Rail Shifter.

Connect wire to power from Positive battery source, this wire should have power only when key is on and be fused.

Controller wires: Blue #1 Solenoid, Yellow #2 Solenoid

Baja Shifter only: Bolt the shift plate onto the top of the shifter assy, the chamfer of the shift slot should face up. Connect the BLACK two wires to a good 12V+ power supply that is connected to the vehicles keyed on-off circuit.

Connect the appropriate marked blue wires for use with the Aisin Warner AW4/A340 series transmissions, or: Connect the appropriate marked red wires for use with a Nissan RE4R01A transmission.

Cut the non-used wire sets off at the switches to avoid a short circuit connection.

Winters Shifter w/switches: Connect the Red wire to a good 12V+ power supply that is connected to the vehicles keyed on-off circuit.

Connect the appropriate marked blue wires to the transmission harness for use with the Aisin Warner AW4/A340 series transmissions.

Wiring switches:

Connecting the solenoid wire to a DPDT (ON-ON) switch, there should be 6 terminals for wire connections. Connect the two solenoid wires coming from the transmission to each of the center poles of the switch. Then connect the blue and yellow wires from the shifter to the appropriate side of the switch that matches your solenoid wires. Connect the wires going to the TCM to the other side of the switch matching the wires you connected to the center poles. See photo:

Connecting a SPDT (ON-OFF-ON) switch for torque converter (TC) lock up control: Connect the TC wire from the transmission to the center pole, connect a 12V+ to one side and the wire that goes to the TCM to the other side, this gives you TCM controlled lock up in one position, no lock up in the center position, and manual lock up in the other position.

Connecting LED's

Connect/solder one lead of the Blue LED for the (#1 sol.) and Green LED for the (#2 sol.) to the wires on the

center pole of the TCM selector switch. Connect one lead of the Red LED to the trans. side of the (TC) Lockup

switch. Connect the other end of all of the LED's to a good 12V- ground.

*I do not recommend shifting the transmission when the Torque Converter is **Locked**. Shift responsibly.*

Thank you,

RA Designs Products LLC-Rory DesJardin

PO Box 165, Arlington, WI 53911

608-635-0039(Landline)

509-552-9439(cell)

(6:00pm-9:00pm)CST Tues-Fri

(9:00am-5:00pm)CST Sat

www.radesignsproducts.com

radesjardin@radesignsproducts.com