



**SmarTCS™**

**Installation Instructions for the Acura NSX (1991-1994)**

**Model SC-300**



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### What is the SmarTCS™?

The SmarTCS™ model SC-300 is a simple memory device that remembers when you disable or enable the traction control system (TCS) while you are driving your NSX. The next time you start your NSX, the SmarTCS™ will set the TCS to the last state it was in before the engine was stopped.

### Application

The SmarTCS™ model SC-300 will work in NSX model years **1991 through 1994**. The 1995 and later model years have a slightly different TCS enable / disable system which is not compatible with the model SC-300 SmarTCS™.

### How does the SmarTCS™ work?

The SmarTCS™ connects to three wires from the traction control unit and monitors the enable / disable state of the TCS. It stores this information in non-volatile memory (EEPROM) so that it can restore the TCS to the last state it was in prior to being powered down.

### Features

- **Remembers** TCS enable / disable state.
- **Flashes** TCS indicator light during startup to remind driver that SmarTCS™ is installed.
- Consumes **zero power** when ignition is off.
- Simple installation using common tools. **No wire cutting required.**

### Specifications

<b>Parameter</b>	<b>Specification</b>
Power supply voltage	+11 to +20 Volts DC, negative ground
Current drain, ignition ON	0.005 Amps typical.
Current drain, ignition OFF	Zero.
Ambient operating temperature	-20° C (-4° F) to +50° C (+122° F)
Mass	67 grams

Note: If the engine is not started within 10 seconds of ignition ON, the SmarTCS™ not attempt to disable the TCS (ie. it will appear that the SmarTCS™ is not installed). The SmarTCS™ will return to normal operation following ignition OFF.

## Contents

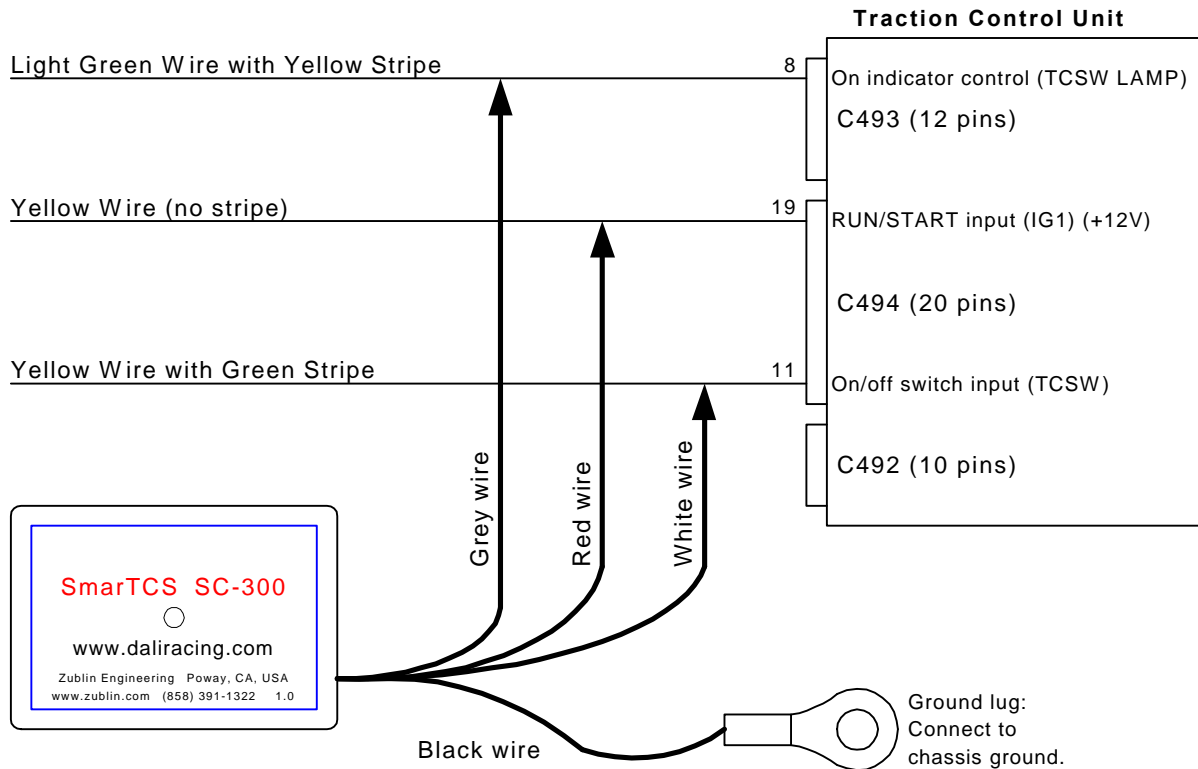
Verify that the following items have been included in the package.

Item	Description	Quantity	Part Number
1	SmarTCS™ unit, Model SC-300	1	300020-001
2	Wire tie, plastic, small	3	-
3	Wire tie, plastic, large	1	-
4	SmarTCS™ Model SC-300 Installation Instructions for the Acura NSX (this document)	1	900026-001

## Tools Required

- Regular pliers
- Wire cutters (to trim plastic wires ties, *not* for cutting wires)
- 10 mm wrench

## Wiring Diagram

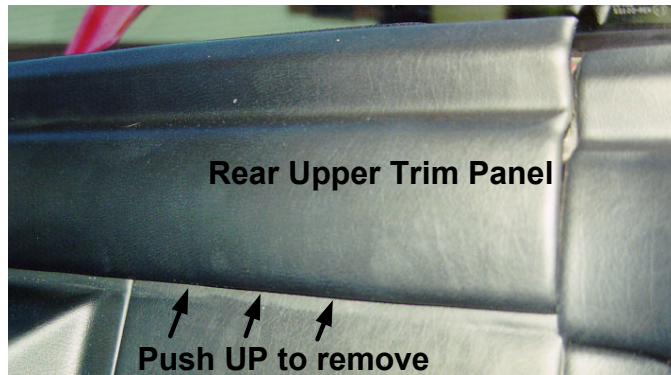


**BE SURE TO TURN THE IGNITION OFF BEFORE INSTALLATION!!**

Step 1 - Remove Rear Upper Trim Panel

Remove the rear upper trim panel by pulling out on the top edge and then push on the bottom edge in the upward direction (Figure 1). This panel is located behind the seats, just below the rear window.

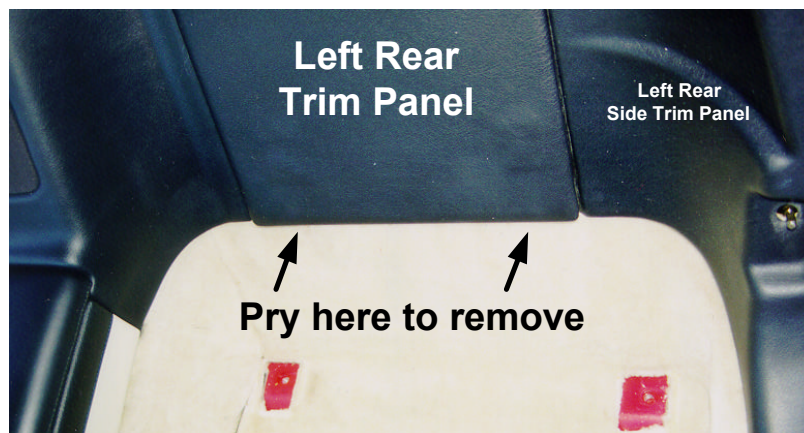
**Figure 1 Remove Rear Upper Trim Panel**



Step 2 - Remove Left Rear Trim Panels

Remove the left rear trim panel with your hands (Figure 2). This is the square panel located behind the driver's seat. Lift at the bottom and then at the top. There are two plastic tabs on the top and bottom of the panel.

**Figure 2 Remove Left Rear Trim Panel**



Note: driver's seat removed for clarity.

Step 3 - Locate Traction Control Unit

Locate the traction control unit. It is the aluminum box located behind the left rear trim panel that you just removed. See Figure 3.

**Figure 3 Locate Traction Control Unit**



Traction Control Unit

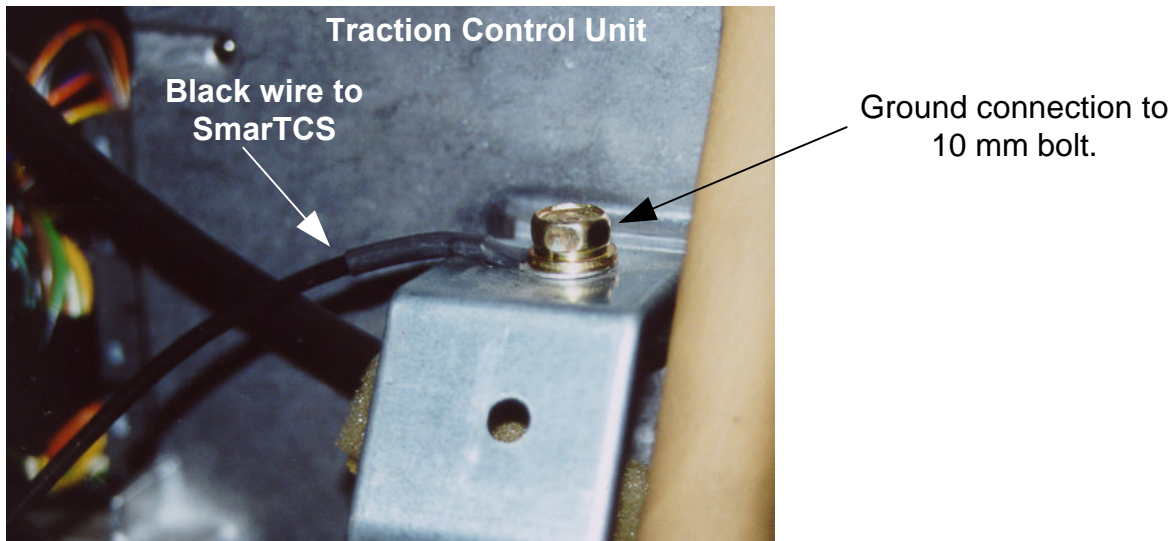
Driver's seat

Left Rear  
Trim Panel

Step 4 - Install BLACK (Ground) Wire

Remove the 10 mm bolt on the traction control unit (Figure 4). Grab the SmarTCS™ unit and locate the BLACK wire with the ring terminal on the end. Insert the bolt through the ring terminal and re-install the bolt so that the black wire is pointing to the left.

**Figure 4 Install Black (Ground) Wire to the Chassis**

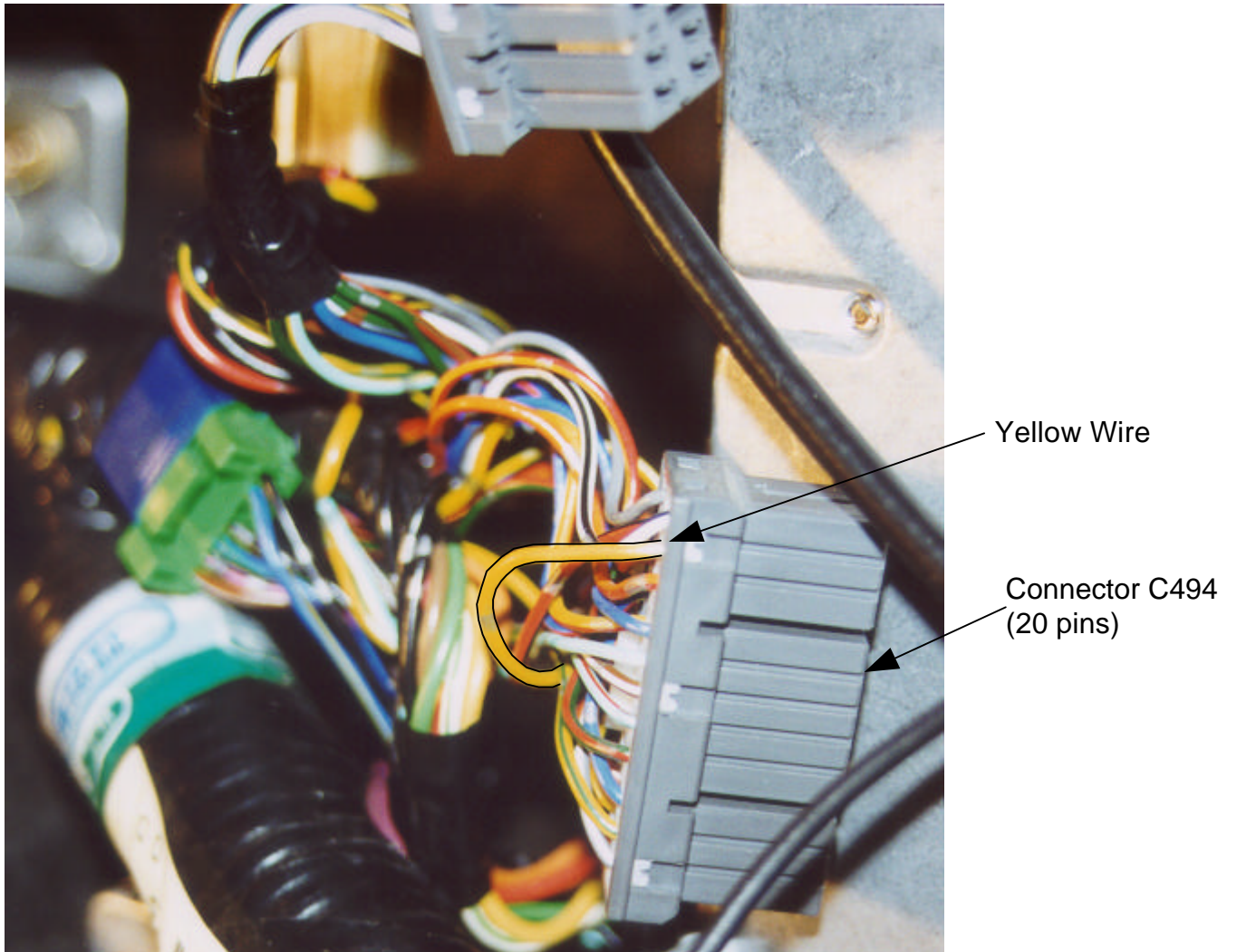


Step 5 - Locate YELLOW Wire

There are three multi-pin connectors on the left side of the traction control unit, designated from top to bottom: C493, C494 and C492. Remove the upper two connectors (C493 and C494) from the traction control unit.

Locate the YELLOW wire from connector C494 (see Figure 5) and separate it from the rest of the wires in the bundle.

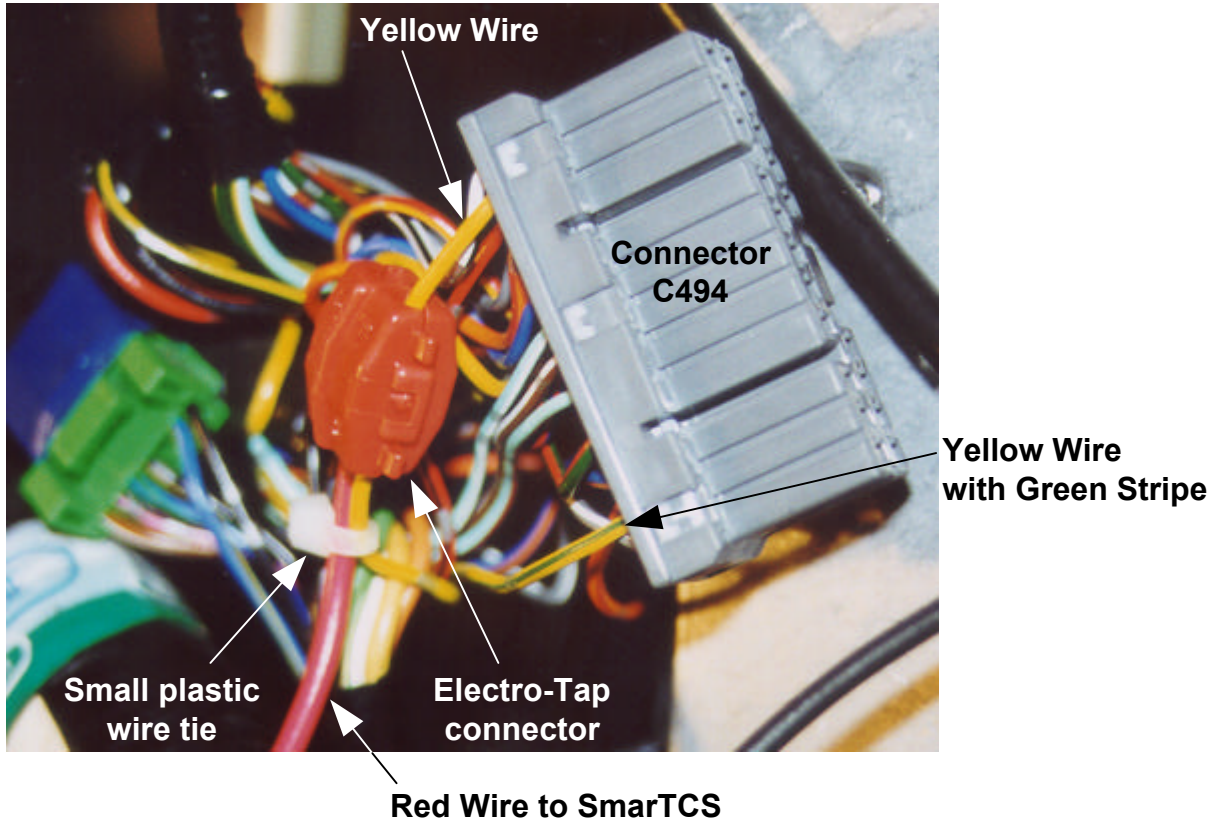
**Figure 5 Locate the YELLOW Wire (Connector C494)**



Step 6 - Install RED (Power) Wire

Locate the RED wire from the SmarTCS™ unit. Install the Electro-Tap connector at the end of the RED wire to the YELLOW wire (see Figure 6). This is performed by folding the top cover half over the wire to meet the base. Squeeze on the top cover and base with ordinary pliers until the latch locks. Use one of the small plastic wire ties to fasten the RED wire to the existing wire bundle. Trim the excess plastic with the wire cutters.

**Figure 6 Install RED Wire**

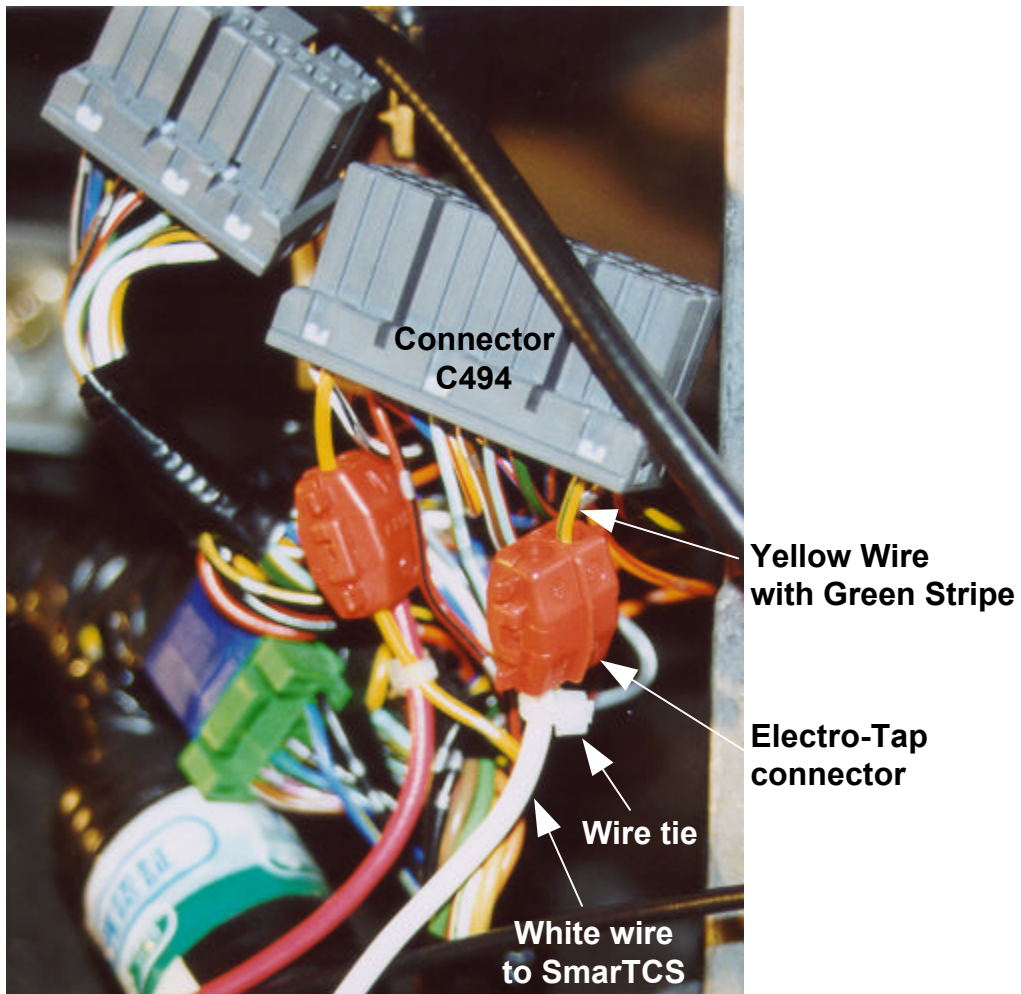


Step 7 - Install WHITE Wire

Locate the YELLOW wire with GREEN stripe from connector C494 (see Figure 6) and separate it from the rest of the wires in the bundle.

Locate the WHITE wire from the SmarTCS™ unit. Install the Electro-Tap connector at the end of the WHITE wire to the YELLOW wire with GREEN stripe (see Figure 7). Use one of the small plastic wire ties to fasten the WHITE wire to the existing wire bundle. Trim the excess plastic with the wire cutters.

**Figure 7 Install WHITE Wire**



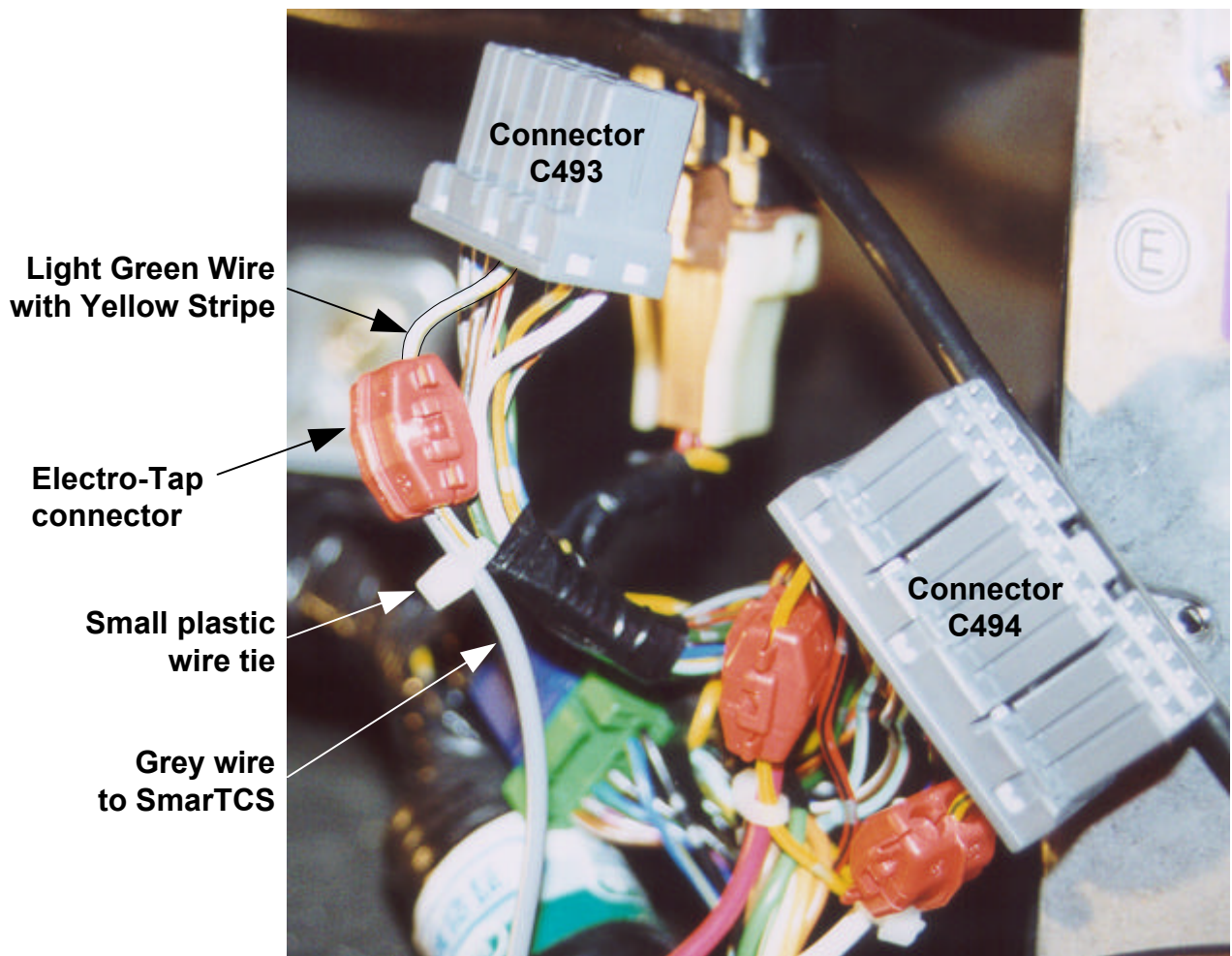
Step 8 - Install GREY Wire

Locate the LIGHT GREEN wire with YELLOW stripe from connector C493 (see Figure 8) and separate it from the rest of the wires in the bundle.

**Warning:** Do not confuse the GREEN wire with YELLOW stripe with the LIGHT GREEN wire with YELLOW stripe.

Locate the GREY wire from the SmarTCS™ unit. Install the Electro-Tap connector at the end of the GREY wire to the LIGHT GREEN wire with YELLOW stripe (see Figure 8). Use one of the small plastic wire ties to fasten the GREY wire to the existing wire bundle. Trim the excess plastic with the wire cutters.

**Figure 8 Install GREY Wire**



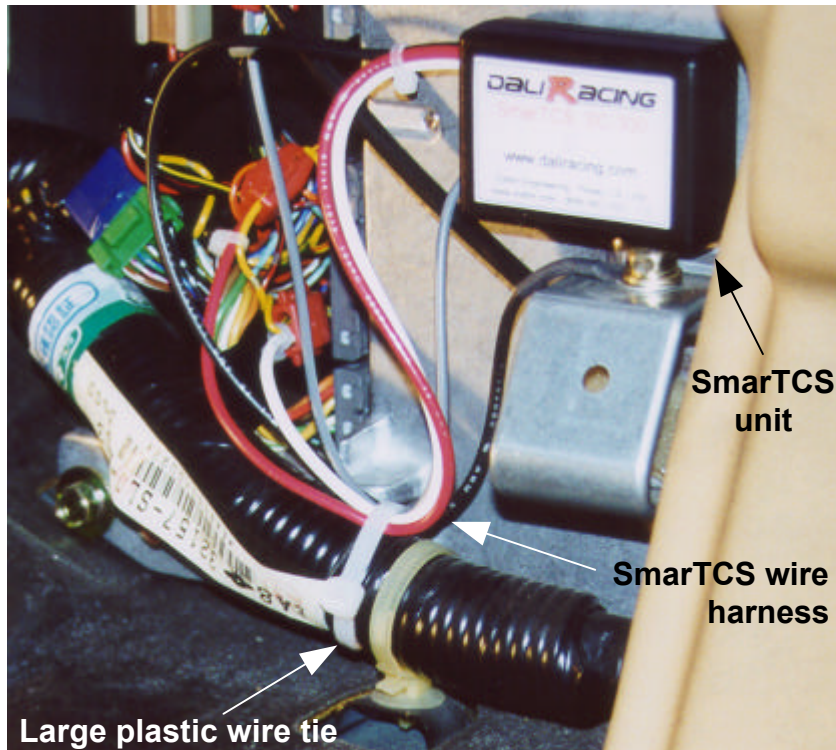
Step 9 - Secure the SmarTCS™

Re-insert the connectors C493 and C494 into the traction control unit.

Peel the protective paper from the back of the SmarTCS™ to expose the sticky foam tape. Fasten the SmarTCS™ to the traction control unit as shown in Figure 9.

Fasten the wires from the SmarTCS™ to the existing wire harness with the large wire tie as shown in Figure 9. Trim the excess plastic wire tie with the wire cutters.

**Figure 9 Fasten SmarTCSä to Traction Control Unit**



## Step 10 - Test the SmarTCS™

Verify the operation of the SmarTCS™ by performing the following sequence:

1. Start the engine on your NSX.
2. After about two seconds from starting the engine, the yellow TCS OFF indicator on the dash board will blink a few times to indicate that the SmarTCS™ is operating properly.
3. Disable the TCS by pushing the TCS button so that the yellow TCS OFF indicator illuminates.
4. Wait one second and then turn the ignition OFF.
5. Start the engine again and verify that the yellow TCS OFF indicator blinks twice and then remains lit indicating that the TCS is disabled.
6. Enable the TCS by pushing the TCS button and verify that the yellow TCS OFF indicator is not lit.
7. Wait one second and then turn the ignition OFF.
8. Start the engine again and verify that the yellow TCS OFF indicator blinks a few times and then extinguishes indicating that the TCS is enabled.

Note: If the engine is not started within 10 seconds of ignition ON, the SmarTCS™ will not attempt to disable the TCS (ie. it will appear that the SmarTCS™ is not installed). The SmarTCS™ will return to normal operation following ignition OFF.

## Step 11 - Install Trim Panels

Install the left rear trim panel (Figure 2) and secure it in place by pounding on each corner with your fist. Install the rear upper trim panel (Figure 1).

## Step 12 - Drive!

Thank you for purchasing the SmarTCS™. Now go to the track and have fun! The NSX is an incredible car to drive on the race track.

Document revisions

Rev B, 29-Aug-2002: Added model year info, updated wiring diagram.