

Renegade Tech Works

Quick Start Instructions For TechWorks 3000gt/Stealth ECS Controller Using Factory Console & ECS Switch Firmware Version 1.5

Note: The complete PDF manual can be found at <http://www.renegadetechworks.com> under the Installation menu.

Normal Operation

- Sport & Tour Light Indicators
 - In Normal Operation the Sport / Tour Light indicators will show what setting the struts are currently in as follows:
 - SPORT Light ON = Struts in HARD mode
 - SPORT & TOUR Light ON = Struts in MEDIUM mode
 - TOUR Light ON = Struts in SOFT Mode
 - Blinking Sport Light During Normal operation.

If during normal operation the SPORT light blinks 3 times by itself intermittently - this is indicating that the controller cannot get one or more of the struts into the desired mode. Use the diagnostic mode to determine which strut(s) is having a problem.
- ECS Switch Operation
 - In Normal Operation the ECS pushbutton switch when pressed and released will send the request to cycle the struts to the next hardness setting:

Hard -> Medium -> Soft -> Hard -> Medium -> Soft -> ->
 - The Sport/Tour lights will light appropriately to indicate the requested mode.
 - If after pushing & releasing the ECS switch - the Sport light starts blinking intermittently 3 times - the controller is alerting you that one or more of the struts was not able to enter the desired mode.

Startup

- Just after a power on condition, the controller will interrogate all four struts to see what mode they were previously left in. All struts must be in the same state (for example, all struts in HARD mode) for the initial system starting state to be a nominal (no error) starting state.
- If the controller does not detect any problems - The Sport & Tour lights will light according to the current state of the struts and display Hard, Medium or Soft.
- If the controller does detect a problem and cannot determine what state the struts are in - the SPORT light will blink 3 times and then the Sport & Tour lights will be turned "OFF". Try pressing the ECS switch to command the struts into the next

state or running the diagnostic mode to determine which strut may be having a problem.

Diagnostic Mode

- To Enter diagnostic mode press and hold the ECS pushbutton switch until the Sport & Tour lights both turn off - then release the switch.
 - Note: If both lights are already off - because of a startup failure condition - continue holding the ECS switch until the SPORT light begins blinking 1 time per second - which will indicate the diagnostic mode has started for Strut 1 - then release the switch.

- The Diagnostic Routine will then start and will test each of the struts (1,2,3,4) in order performing the same test sequence for each strut.

The order of the test is:

- Strut 1: Front Left Strut
 - Strut 2: Front Right Strut
 - Strut 3: Rear Left Strut
 - Strut 4: Rear Right Strut
- **The Test Sequence & Tour/Sport lights display for a given strut is as follows:**

Step (1) Strut Number Being Tested: The Sport Light will blink a number of times equal to the strut number being tested. For example if the Sport light blinks 3 times - strut 3: Rear Left is about to be tested

Step (2) HARD Mode Test: controller attempts to put the strut into HARD Mode - if successful the SPORT light will turn on. If not successful, the SPORT light will not turn on and the sequence will proceed to the next step.

Step (3) MEDIUM mode test: controller attempts to put the strut into MEDIUM Mode - if successful the SPORT & TOUR lights will turn on. If not successful, the SPORT & TOUR lights will not turn on and the sequence will proceed to the next step.

Step (4) SOFT Mode test: controller attempts to put the strut into SOFT Mode - if successful the TOUR light will turn on. If not successful, the TOUR light will not turn on and the sequence will proceed to the next step.

Step (5) Strut finished testing: The SPORT and TOUR Light will blink a number of times equal to the strut that was just finished being tested. For example if the Sport light blinks 3 times - strut 3: Rear has finished being tested.

Step (6) Strut Test Results: If the strut just tested, tested OK and was able to be put into all three modes, then the SPORT & TOUR lights will light up SOLID for several seconds. If the strut did NOT test ok then the SPORT & TOUR lights will not light up at all for this step. they will remain OFF.

Steps (5) & (6) will repeat 3 more times - to display the results for the strut just tested

Step (7) Next Strut: testing will now proceed to the next strut and start over with Step(1)

- To Exit Diagnostic Mode - press and hold the ECS switch briefly to exit the testing cycle. The press will only be detected when the lights are not blinking. You can also turn off the ignition.