

# INSTALLATION

## RUSH RACING DEVELOPMENT ANTI-LAG LAUNCH CONTROL

### WARNING

This equipment is for use with off road vehicles only and is not designed to be compatible with automobiles equipped with catalytic converters or overly restrictive exhaust systems. Installation and use of this device is at your own risk and Rush Racing Development and its owners cannot be held responsible for damage that may be caused by the use of this device.

### INSTALLATION INSTRUCTIONS FOR MODEL ALS4-1:

Installation of the ALS4-1 launch control is a simple 3-wire hookup with switched power or ground. For automatic transmissions, the power (RED) wire should be connected to a power source that is energized with the press of the brake pedal with the ground (SHIELD) wire connected to ground. For manual transmissions it is recommended to connect the ground (SHIELD) wire to constant ground with the wire connected through the clutch switch for power. Also recommended is a separate switch on the power or wire to allow the launch control to be totally disabled when not in use. Connect the black wire to ECU pin as shown below. It is not necessary to cut this wire on your ECU harness. A simple quick splice connector works fine for this application. **WARNING: DO NOT USE A SWITCH ON THE GROUND WIRE. IT MUST STAY CONNECTED TO A SOLID GROUND. FAILING TO DO SO WILL CAUSE ERRATIC BEHAVIOR AND POSSIBLY CAUSE DAMAGE TO THE LAUNCH CONTROL!**

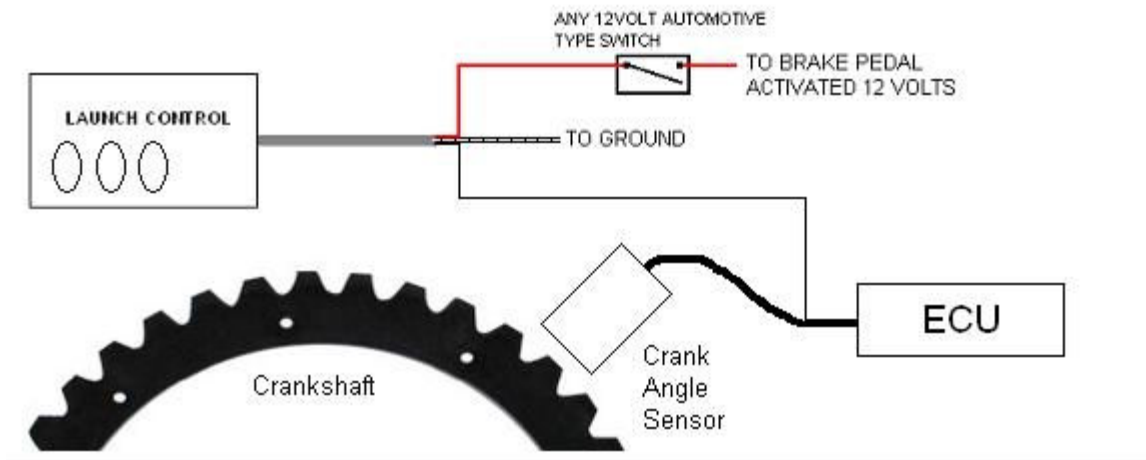
### USAGE:

To set the rev limiter, start the engine and put the transmission in park or neutral. With the engine idling, power the unit by pressing the brake pedal or clutch (dependent of your installation). Now press and hold the 'SET' button. The LED indicator will come on when 'SET' is pressed. Rev the engine to the desired rpm and hold it steady for at least 2 seconds and release the button holding the rpm steady for another 2 seconds. The launch control has now saved this setting. To test it, simply activate the launch control and press the accelerator to wide-open throttle.

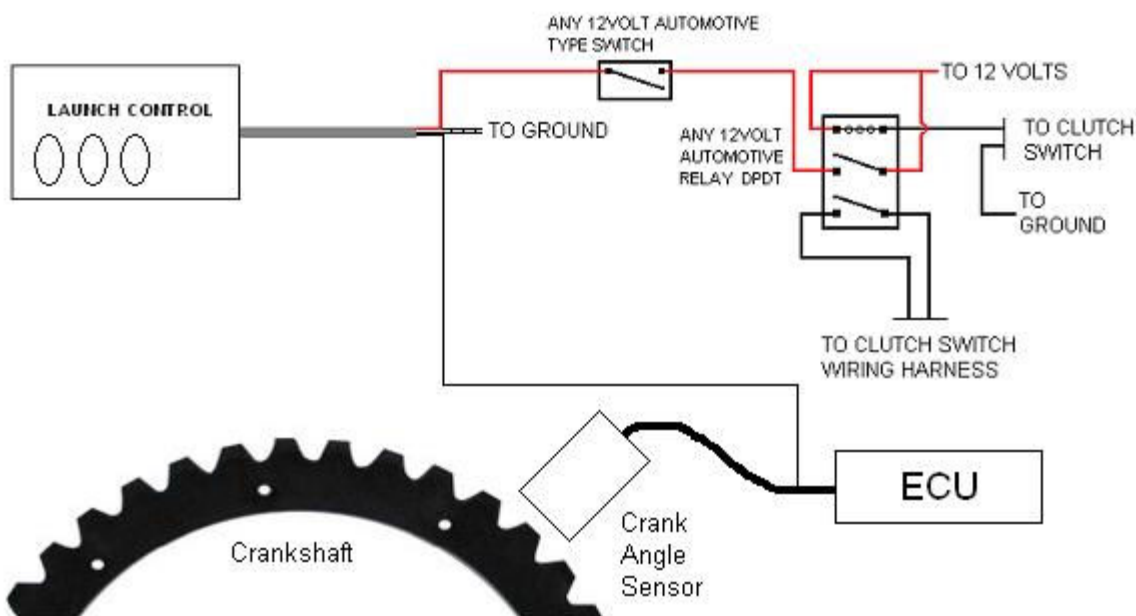
### Timing:

Timing control allows you to adjust how the launch control works with your specific car. If you do not have the desired effects, then try adjusting the timing. Press up or down to increasing or decrease the launch control timing effects. There are 10 levels. When you press and release the button, the LED will flash the number of times that indicates what level you are set at. Most vehicles work best at level 2 and is set from the factor to this level.

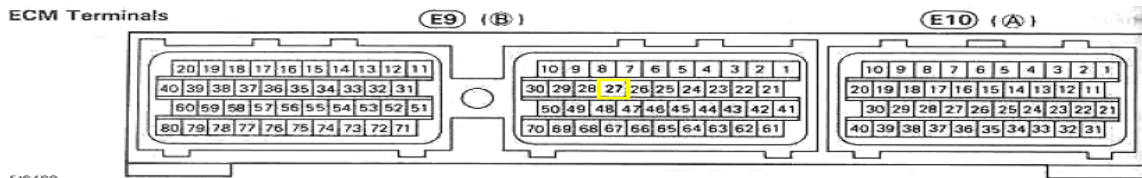
## AUTOMATIC TRANSMISSION



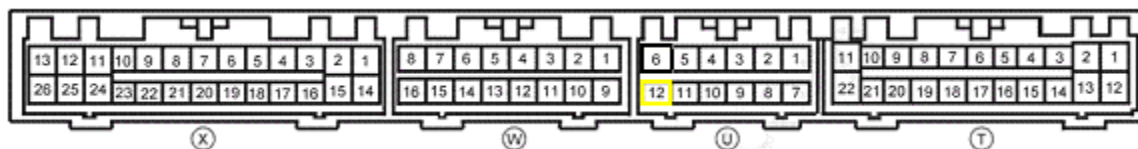
## MANUAL TRANSMISSION



### 2JZ ECU CONNECTION PIN #27 TO BLACK WIRE



### 1JZ CONNECTION PIN #U12 TO BLACK WIRE

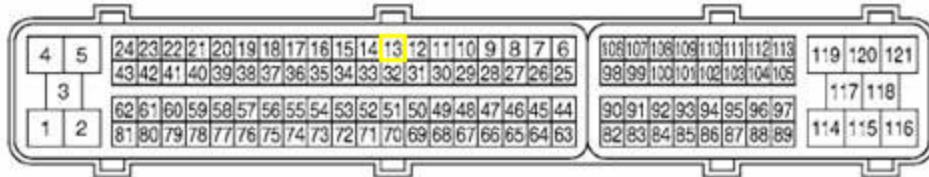


## 7MGTE ECU CONNECTION PIN 'NE' TO BLACK WIRE

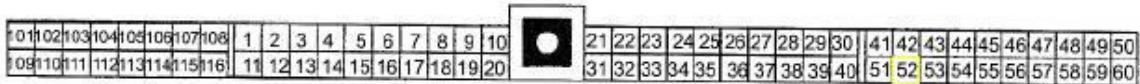
ECU Terminals

EO1	No. 10	No. 20	HT	VZV	2	EGR	ISC 1	ISC 2	ISC 3	ISC 4	IGF	G2	NE	VF	OIL	OX	KRKR 1	HW	THA	KS	VC	STA	A/C	SPD	DFG	FC	FP	W	MC	REL	IG	BATT	
EO2	No. 30	STJ	-	-	-	IGT	FO	Q	Q	Q	-	THG	G1	E1	G	TE1	-	RNRK 2	IDL	VTA	-	E2	N/C	LP	ECT	L1	L2	L3	TIL	-	-	+B1	+B

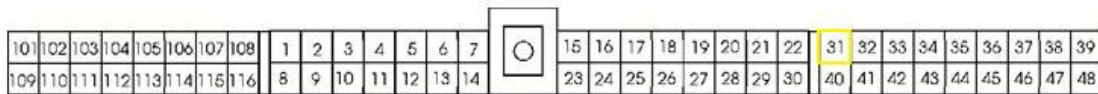
## 350Z ECU CONNECTION PIN #13 TO BLACK WIRE



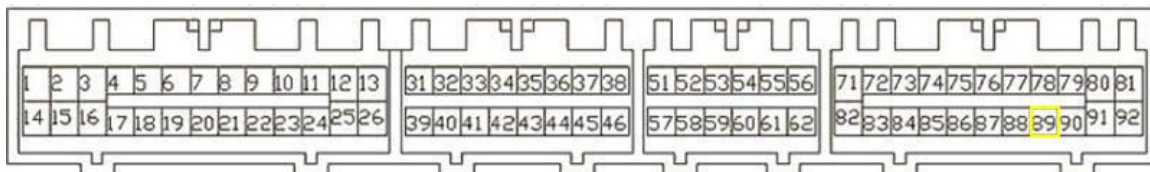
## RB26 CONNECTION PIN #52 TO BLACK WIRE



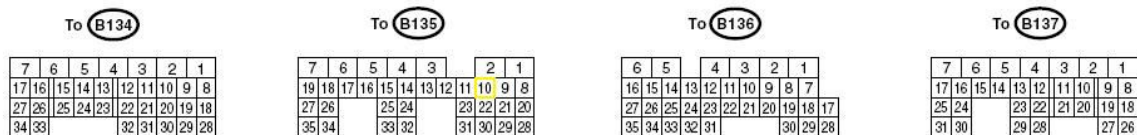
## SR20DET CONNECTION PIN #31 TO BLACK WIRE



## EVO ECU CONNECTION PIN #89 TO BLACK WIRE



## WRX ECU CONNECTION B135 PIN #10 TO BLACK WIRE



# 2nd gen NEON ECU CONNECTION PIN 32 TO BLACK WIRE

