

All values measured to ground unless otherwise noted

Conn./Plug/Pin	Pin Information	Test Value	Comments
<a href="#">N16</a>			
1	Circuit 30 main power input	12 VDC at all times	Feed from X4/10
2	Circuit 87 switched power output, supplies FP assembly	Disconnect N1/3, turn ignition key to start: 12 VDC while starter cranks	
3	pin not used		
4	Main ground to W16	Approx. 0 Ohms to ground or measure to circuit 30 12 VDC	
5,6	pins not used		
7	Kickdown enable power output to S16/6	Ignition on < 1 VDC, set accelerator pedal to kickdown 12 VDC	
8	Circuit 87 fused power output, supplies motor management components	Ignition on 12 VDC	
9	AC compressor ON recognition signal output	Engine at idle, AC on: >5 VDC	
10	Circuit 15 main power input unfused	Ignition on 12 VDC	Feed from X30/1
11	TN signal output, short protected	Engine at idle 5 - 7 VDC	
12	Circuit 50 starter lockout signal input	Lever pos. P or N: 12 VDC with key held in start position	
13	Vehicle speed signal input	Ignition on, lift front of vehicle, turn left wheel > 1 rev/sec by hand > 3 VAC or with vehicle moving 20 mph = 200 Hz measure square wave 35 mph = 330 Hz	
14	DTC diagnostic output. Also input for HHT data and tests	Ignition on 12 VDC approx. 8 VAC when data transmission active.	
15,16	pins not used		
17	Air pump activation signal input	Disconnect B11/2. Connect 2.5kOhms res. across pins 1&3 and 2&4 Engine at idle approx. 2 min. 12 VDC	

18	O2S heater activation signal input	Engine at idle 12 VDC	
19	Circuit 87 switched power output, supplies air pump switchover valve and electromagnetic air pump clutch	same as pin 17	
20	pin not used		
21	Circuit 15 fused power input	Ignition on 12 VDC	Feed from F1fB via X30/1
22	pin not used		