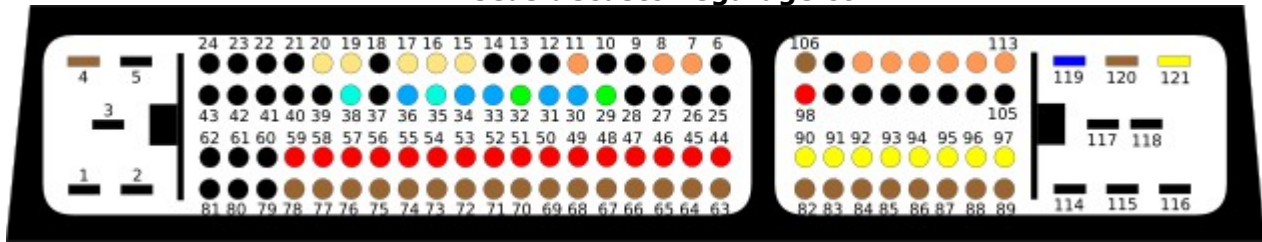


# SCG-ATC 722.6 PINOUT

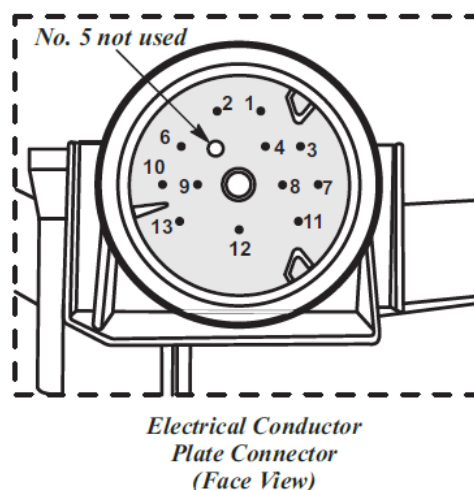
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1		33	LCD D/C	65	GND OUT
2		34	LCD SCK / D0	66	GND OUT
3		35	ABS SENSOR VR 2-	67	GND OUT
4	BATTERY GROUND -12V	36	LCD RESET	68	GND OUT
5		37	+3V3 OUT	69	GND OUT
6	MANUAL GEAR DOWN	38	ABS SENSOR VR 2+	70	GND OUT
7	TRANSMISSION PIN 1	39	TX	71	GND OUT
8	TRANSMISSION PIN 3	40		72	GND OUT
9	BOOST SENSOR	41		73	GND OUT
10	TPS INPUT (0-5V)	42		74	GND OUT
11	TRANSMISSION PIN 4	43		75	GND OUT
12	ENGINE OIL TEMP.	44	+5V OUT	76	GND OUT
13	MANUAL GEAR UP	45	+5V OUT	77	GND OUT
14	ANALOG IN 1	46	+5V OUT	78	GND OUT
15	SHIFTER PIN 9 (GREEN)	47	+5V OUT	79	
16	SHIFTER PIN 4 (WHITE)	48	+5V OUT	80	SPEEDOMETER OUT
17	SHIFTER PIN 10 (YELLOW)	49	+5V OUT	81	BOOST CONTROL
18	DIGITAL IN 1 - N.C.	50	+5V OUT	82	GND OUT
19	SHIFTER PIN 5 (BLUE)	51	+5V OUT	83	GND OUT
20	SHIFTER PIN 2 (VIOLET)	52	+5V OUT	84	GND OUT
21	RX	53	+5V OUT	85	GND OUT
22	RPM OUT	54	+5V OUT	86	GND OUT
23		55	+5V OUT	87	GND OUT
24		56	+5V OUT	88	GND OUT
25		57	+5V OUT	89	GND OUT
26		58	+5V OUT	90	+12V OUT
27		59	+5V OUT	91	+12V OUT
28		60	FUEL PUMP CONTROL	92	+12V OUT
29	CRANKSHAFT VR 1+	61		93	+12V OUT
30	LCD MOSI / D1	62		94	+12V OUT
31	LCD CS	63	GND OUT	95	+12V OUT
32	CRANKSHAFT VR 1-	64	GND OUT	96	+12V OUT

97	+12V OUT	106	GND OUT	115	
98	+5V OUT	107	CAN L	116	
99	CAN H	108	TRANSMISSION PIN 8	117	
100		109	TRANSMISSION PIN 9	118	
101		110	TRANSMISSION PIN 13	119	BATTERY +12V
102		111	TRANSMISSION PIN 11	120	GND OUT
103		112	TRANSMISSION PIN 2	121	+12V OUT
104		113	TRANSMISSION PIN 10		
105		114			

Pin	Function
1	N3 Input Speed Sensor Signal
2	Modulation Pressure Control Solenoid Ground Control
3	N2 Input Speed Sensor Signal
4	TFT Sensor and P/N Switch Signal
5	Not Used
6	Battery Supply Voltage For All Solenoids
7	Sensor 5V Supply Voltage
8	2-3 Shift Solenoid Ground Control
9	3-4 Shift Solenoid Ground Control
10	Shift Pressure Control Solenoid Ground Control
11	TCC Solenoid Ground Control
12	Sensor Ground
13	1-2/4-5 Shift Solenoid Ground Control



### **Manual gear Up/Down (Paddles)**

Connect paddles or momentary switches to +12V from controller

### **Shifter**

Connect shifter to controller's pins: 15, 16, 17, 19, 20

Connect shifter PIN1 to +12V OUT from controller.

Gray/blue wire is a backlight - PIN6 – connect to interior/exterior light system

Ground – PIN3. Connect to car Ground or controller's GND OUT

### **LCD**

Connect LCD to controller's pins: 30, 31, 33, 34, 36

LCD +5V from controller

LCD GND from controller

### **Minimum wiring (manual shifting only)**

Connect controller to battery, transmission, shifter and paddles

### **Typical wiring (manual and automatic shifting)**

Connect controller to battery, transmission, shifter, paddles, crankshaft, ABS and TPS

### **Bluetooth module HC-05**

Connect to TX (PIN 39), RX (PIN21), +5V, GND OUT