







**123 Bernard Street  
CHELTENHAM VIC 3192**

**Tel: + 613 9532 6000**

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**www.iceignition.com**

## **7 Amp 2 Step (7642MC) Ignition Box - Wiring Notes**

### *Distributor to module loom:*

- \* Supplied finished - simply connect at both ends - no termination necessary.
- \* Ensure distributor to module loom is routed separately from module to coil loom and high tension wires.

### *Module to coil loom (supplied semi finished). Please ensure the following:*

- \* Orange wire to coil positive (run direct to ignition coil - do not splice with any other wires).
- \* Green wire to coil negative (run direct to ignition coil - do not splice with any other wires).
- \* Black wire to earth / ground (run direct to engine block - do not splice with any other wires).
- \* Be sure to keep the earth / ground wire from the ICE modules as short as possible. Always run the earth / ground wire from the ignition module (and voltage booster if fitted), to somewhere on the engine block, same as the battery earth / ground cable as per the instructions below. This is the only way to guarantee proper earth / ground.

### *Optional features:*

- \* White (single) wire : Apply 12 volts to activate low rpm limit ( usually armed by trans-brake switch or similar ).
- \* Green (single) wire = Tach Output ( 12 volt square wave - normally high, then low for 1.1 m/s per spark ).
- \* Red wires: If connected = distributor trigger mode; If disconnected = crank trigger mode.

### *Power supply to coil positive - no booster or inc booster 2316 / 2216 - ideal:*

- \* Supply 12 volts switched (13.8 - 14.8 volts from alternator) to coil positive or booster (if fitted) via ignition switch.
- \* If vehicle has ballast resistor or resistor wire, by-pass these and feed direct voltage to coil or red wire of booster.
- \* Never leave original wire from the ignition switch connected to the coil positive if booster fitted (refer diagram).
- \* Do not try to power anything but a single coil with the booster.
- \* If wired correctly, two wires go to coil positive and one wire goes to coil negative.

### *Earth / Ground:*

**THE IMPORTANCE OF THIS STEP CANNOT BE OVER EMPHASIZED AND WILL VOID THE WARRANTY ON THE IGNITION IF IT IS NOT FOLLOWED.**

\* Battery negative cable **MUST** run direct to a bare metal bolt boss on the engine block (should also be attached to body) as a single cable.

\* If the battery is mounted in the front of the vehicle the cable must be a minimum of 12mm - 13mm in diameter including the shielding, and must consist of a fine strand copper core.

\* If the battery is mounted in the rear of the vehicle the cable must be a minimum of 14mm to 15mm in diameter including the shielding, and must consist of a fine strand copper core.

\* For street cars, if you currently have the battery earth / ground cable running from the battery negative to the chassis and chassis to the engine and are relying on the body / roll cage to make the connection for earth / ground, **DO NOT** assume that because your existing ignition works like this, that the ICE Ignition will also work. You will void your warranty and quite possibly have to buy replacement parts.

\* For race cars, if you currently have the battery earth / ground cable running from the battery negative to the roll cage and are relying on the roll cage and aluminum engine plates to make the connection for earth / ground, **DO NOT** assume that because your existing ignition works like this, that the ICE Ignition will also work. You will void your warranty and quite possibly have to buy replacement parts.

### *General:*

- \* Keep both looms routed away from the high tension wires.
- \* These measures are to ensure no noise enters the loom and disrupts the microprocessor inside the unit.
- \* Mount the unit using the vibration mounts supplied, inside the vehicle cabin, away from heat and moisture.
- \* Avoid soldering wires, as they become brittle where the solder ends, flex at that point, then break.
- \* To ensure unit functions correctly, the above steps must be adhered to, or warranty will be void.



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## **7 Amp 2 Step (7642MC) Curve Select switches**

<b>Digit</b>	<b>Advance starts @ rpm</b>	<b>Advance finishes @ rpm</b>	<b>Degrees of advance</b>
00 =	n/a	n/a	Locked
01 =	1450	3800	1 deg
02 =	1450	3800	2 deg
03 =	1450	3800	3 deg
04 =	1450	3800	4 deg
05 =	1450	3800	5 deg
06 =	1450	3800	6 deg
07 =	1450	3800	7 deg
08 =	1450	3800	8 deg
09 =	1450	3800	9 deg
10 =	1450	3800	10 deg
11 =	1450	3800	11 deg
12 =	1450	3800	12 deg
13 =	1450	3800	13 deg
14 =	1450	3800	14 deg
15 =	1450	3800	15 deg
16 =	1450	3800	16 deg
17 =	1450	3800	17 deg
18 =	1450	3800	18 deg
19 =	1450	3800	19 deg
20 =	1450	3800	20 deg
21 =	1300	3500	1 deg
22 =	1300	3500	2 deg
23 =	1300	3500	3 deg
24 =	1300	3500	4 deg
25 =	1300	3500	5 deg
26 =	1300	3500	6 deg
27 =	1300	3500	7 deg
28 =	1300	3500	8 deg
29 =	1300	3500	9 deg
30 =	1300	3500	10 deg
31 =	1300	3500	11 deg
32 =	1300	3500	12 deg
33 =	1300	3500	13 deg
34 =	1300	3500	14 deg
35 =	1300	3500	15 deg
36 =	1300	3500	16 deg
37 =	1300	3500	17 deg
38 =	1300	3500	18 deg
39 =	1300	3500	19 deg
40 =	1300	3500	20 deg
41 =	1150	3200	1 deg
42 =	1150	3200	2 deg
43 =	1150	3200	3 deg
44 =	1150	3200	4 deg
45 =	1150	3200	5 deg
46 =	1150	3200	6 deg
47 =	1150	3200	7 deg
48 =	1150	3200	8 deg
49 =	1150	3200	9 deg

**Note: expressed in crankshaft degrees and engine rpm.**



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<b>Digit</b>	<b>Advance starts @ rpm</b>	<b>Advance finishes @ rpm</b>	<b>Degrees of advance</b>
50 =	1150	3200	10 deg
51 =	1150	3200	11 deg
52 =	1150	3200	12 deg
53 =	1150	3200	13 deg
54 =	1150	3200	14 deg
55 =	1150	3200	15 deg
56 =	1150	3200	16 deg
57 =	1150	3200	17 deg
58 =	1150	3200	18 deg
59 =	1150	3200	19 deg
60 =	1150	3200	20 deg
61 =	1000	2900	1 deg
62 =	1000	2900	2 deg
63 =	1000	2900	3 deg
64 =	1000	2900	4 deg
65 =	1000	2900	5 deg
66 =	1000	2900	6 deg
67 =	1000	2900	7 deg
68 =	1000	2900	8 deg
69 =	1000	2900	9 deg
70 =	1000	2900	10 deg
71 =	1000	2900	11 deg
72 =	1000	2900	12 deg
73 =	1000	2900	13 deg
74 =	1000	2900	14 deg
75 =	1000	2900	15 deg
76 =	1000	2900	16 deg
77 =	1000	2900	17 deg
78 =	1000	2900	18 deg
79 =	1000	2900	19 deg
80 =	n/a	n/a	Locked
81 =	1450	3800	1 deg
82 =	1450	3800	2 deg
83 =	1450	3800	3 deg
84 =	1450	3800	4 deg
85 =	1450	3800	5 deg
86 =	1450	3800	6 deg
87 =	1450	3800	7 deg
88 =	1450	3800	8 deg
89 =	1450	3800	9 deg
90 =	1450	3800	10 deg
91 =	1450	3800	11 deg
92 =	1450	3800	12 deg
93 =	1450	3800	13 deg
94 =	1450	3800	14 deg
95 =	1450	3800	15 deg
96 =	1450	3800	16 deg
97 =	1450	3800	17 deg
98 =	1450	3800	18 deg
99 =	1450	3800	19 deg

**Note: expressed in crankshaft degrees and engine rpm.**