Crane Ignition Box Instructions
Part #1082033

These instructions are specific for our Crane ignition kits being installed on a 22RE or 3VZ (fuel injected only) vehicle. These are Crane’s basic magnetic trigger hook-up instructions with some minor modifications to make them more specific for your Toyota 22RE or 3VZ.

Wiring Instructions: For TOYOTA 4 Cylinder And 6 Cylinder

GROUND
Connect the heavy black HI-6S wire directly to chassis ground. Use the supplied 3/8” ring terminal.

POWER, COIL
Identify STOCK Coil- and Coil+. If you are unsure, refer to your vehicle wiring diagram or use the following procedure. Label and then disconnect OE wires from the coil. Turn the ignition switch on. Use a 12 volt test light or voltmeter. The wire from the ignition switch to Coil+ will be hot. Cut the wires from the coil and connect to the HI-6S adapter harness as shown. All OE wiring to the coil must be interrupted and routed through the HI-6S adapter harness.

CYLINDER SELECT
The blue wire is used to program the rev limiter and retard feature for the correct number of cylinders as shown in diagram. For 4 cylinder engines, connect the wire to the red switched +12 volt wire with a 3M splice. For 6 cylinder engines, connect the wire to ground with a 1/4” ring terminal.

DIGITAL INPUT
The yellow/white wire used to activate retard and rev limit functions. In this application we hook the yellow/white wire to +12 volt to activate the rev limiter function. This can be connected to the red power the same lead as we hook up the blue wire for cylinder select on 22R/RE. OPTIONAL In some applications, the digital input is connected to a switch that also controls a line lock or transmission brake solenoid.

MAPSENSOR
This is optional and is only needed for boosted applications. See Crane instructions for more information

*** See the wiring diagram on the back page ***
1082033 Crane Street Ignition Kit For EFI 22RE/RET/3VZ

POWER SOURCE:
UNIVERSAL PLUG-IN ADAPTER HARNESS SUPPLIED WITH HI-6S

YELLOW/WHITE

RED
WHITE

BLACK
ORANGE

FOR 22R/RE HOOK TO THE RED POWER SOURCE WITH THE YELLOW/WHITE

4 CYLINDER TO SWITCHED +12V
8 CYLINDER NO CONNECTION
6 CYLINDER GROUND

FOR 3VZ HOOK TO A GOOD GROUND SOURCE

TACHOMETER

TOYOTA IGNITER MODULE

NEW COIL

CRANE Coil LX91

OE Coil

CHASSIS GROUND

HEAVY BLACK

BLUE

CYLINDER SELECT

OPTIONAL FOR ENGINES RUNNING BOOST

OPTIONAL MAP SENSOR
LCE PART 1082023
FOR BOOST
PROPORTIONAL RETARD

TRC-2
TIMING RETARD
CONTROL MODULE
LCE PART 1082022

CUT OE WIRES TO COIL AND RECONNECT AS SHOWN

NO LONGER USED

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