

## CHAPTER 3 IGNITION MODULE PROGRAMMING

The ignition module can be programmed one of two ways: with the built-in selector switch, or with the SmartLink cable and software.

### 3.1 Programming Using the Rotary Switch

The built-in rotary switch can be used to program the ignition without using a laptop. Use the switch to select between 16 pre-programmed advance curves ("0" through "F").

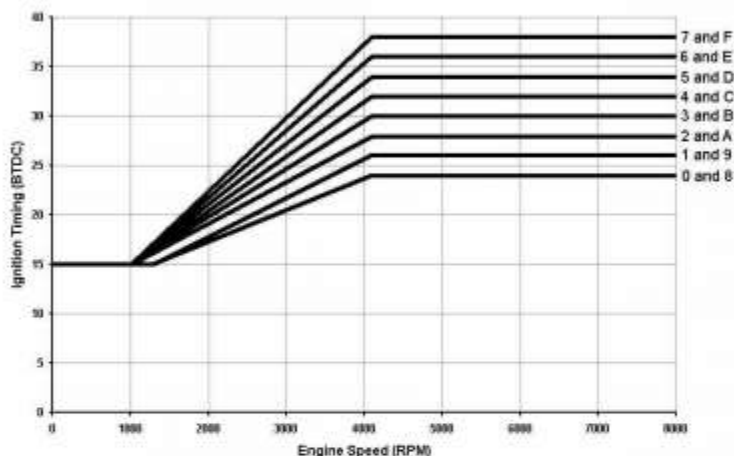
To select a specific pre-programmed curve, follow these steps:

1. Make sure the motorcycle is switched OFF.
2. Using a small screwdriver, rotate the switch so the arrow points to the desired character. The curve that corresponds to that character will be selected inside the module the next time the motorcycle is started.
3. Start and test ride the motorcycle.

#### Preprogrammed Curves

The following curves are pre-programmed into module. There are 8 different advance curves, and two different rev limit settings:

Ignition Timing vs RPM



Position	Rev Limit RPM
0	5984
1	5984
2	5984
3	5984
4	5984
5	5984
6	5984
7	5984
8	6240
9	6240
A	6240
B	6240
C	6240
D	6240
E	6240
F	6240

### 3.2 Ignition Programming with SmartLink Software

To input a custom program into the Digital Ignition Module, the SmartLink Software and Interface Cable (available separately) must be used. Please refer to the instructions supplied with that kit.

**IMPORTANT!** USING THE SOFTWARE, SET THE "MAP SELECT LOCK" VALUE TO "1". THIS "LOCKS OUT" THE ROTARY SWITCH ON THE MODULE FROM OVERRIDING WHAT YOU PROGRAMMED INTO THE MODULE VIA THE SMARTLINK III SOFTWARE. OTHERWISE, THE IGNITION WILL IGNORE YOUR CUSTOM PROGRAM AND DEFAULT TO THE SELECTED SWITCH CURVE THE NEXT TIME THE IGNITION IS POWERED UP.

## TROUBLESHOOTING

Below are common behaviors, their causes, and remedies.

Behavior	Cause	Remedy
Engine does not start, or backfires when starting	FRONT CYLINDER (-) (YELLOW) and REAR CYLINDER (-) (BLUE) wires are switched	Switch FRONT CYLINDER (-) (YELLOW) and REAR CYLINDER (-) (BLUE) wires
	Front cylinder and rear cylinder spark plug wires are switched	Switch front and rear cylinder spark plug wires
Engine runs, but will not rev cleanly (or at all), and may stop running altogether	CRANK NEGATIVE (GREY) and CRANK POSITIVE (WHITE) wires are switched	Switch CRANK NEGATIVE (GREY) and CRANK POSITIVE (WHITE) wires