

# MSD IGNITION INSTALLATION INSTRUCTIONS

## MSD Dual DIS-4 Harness PN 88813

### Parts Included:

8 - Individual Cylinder Harnesses

### Additional Parts Required:

4 - [Ignition Adapters](#) PN 89121

2 - DIS-4 Ignitions (PN 62152 or High Output PN 62153)

**WARNING:** During installation, disconnect the battery cables. When disconnecting the battery always remove the Negative cable first and install it last.

**Note:** It is recommended that you have the Service Manual and wiring diagram for your vehicle before beginning the installation of the MSD DIS Ignition.

Figure 1 shows the firing order for a Ford Modular motor. This chart contains MSD's recommendations for triggering the Dual DIS-4's versus Firing Order. See Figure 7 for Cylinder Identification.

FIRING ORDER	DIS-4 BOX A OR B	CHANNEL
1	A	1
3	B	1
7	A	2
2	B	2
6	A	3
5	B	3
4	A	4
8	B	4

Figure 1

### WIRING

The Adapter has six wires that need to be connected. The chart shows each wire's application. Figure 2 shows how to wire the Adapter to the DIS ignitions.

WIRING	
<b>BLACK</b>	Connects to Ground.
<b>RED</b>	Connects to 12 volt (Ignition).
INPUTS	
<b>BROWN/WHITE</b>	Connects to the White wire going to the Coils and ECU.
<b>BROWN/GREEN</b>	Connects to the Green wire going to the Coils and ECU.
OUTPUTS	
<b>WHITE</b>	Connects to the White wire going to the MSD DIS Ignition.
<b>GREEN</b>	Connects to the Green wire going to the MSD DIS Ignition.

**Note:** The procedure shown in Figure 2 will be performed twice for each DIS-4 Ignition PN 62152 (or H.O. PN 62153).

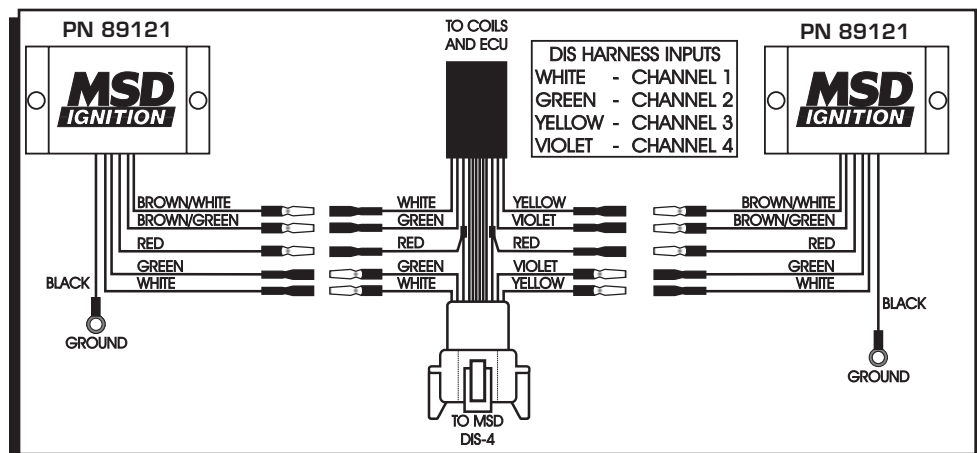


Figure 2 Installation to an MSD DIS-4 Ignition.

**SOHC BOX A**

NOTES: This wiring diagram applies only to SOHC applications. Please refer to figure 5 and 6 for DOHC models.

This wiring diagram applies to cylinders 1, 7, 6 and 4. Please refer to Figure 4 for cylinders 3, 2, 5 and 8.

**WIRE COLOR CODE**

- Brown/White - Coil (-) Channel 1
- Brown/Green - Coil (-) Channel 2
- Brown/Yellow - Coil (-) Channel 3
- Brown/Violet - Coil (-) Channel 4
- Brown/Orange - Coil (+) High Voltage
- White - Trigger Input Channel 1
- Green - Trigger Input Channel 2
- Yellow - Trigger Input Channel 3
- Violet - Trigger Input Channel 4
- Red - Ignition 12 Volt (Switched)
- Pink - Step Retard (to 12 Volts)
- Blue - Two Step (to 12 Volts)
- Brown - No Spark output when Grounded
- Red (Heavy) - Battery (+)
- Black (Heavy) - Battery (-)

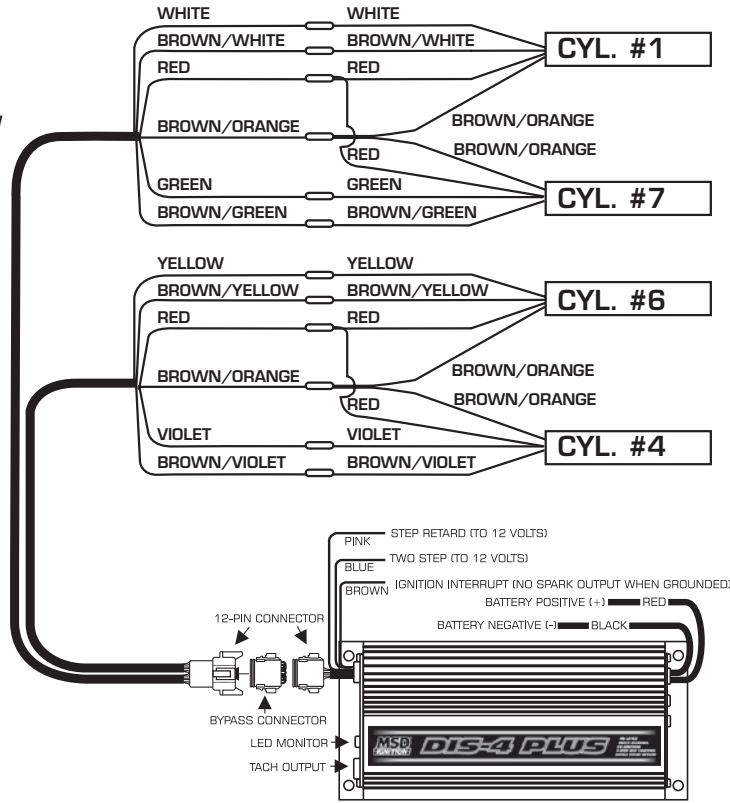


Figure 3

**SOHC BOX B**

NOTES: This wiring diagram applies only to SOHC applications. Please refer to figure 5 and 6 for DOHC models.

This wiring diagram applies to cylinders 3, 2, 5 and 8. Please refer to Figure 3 for cylinders 1, 7, 6 and 4.

**WIRE COLOR CODE**

- Brown/White - Coil (-) Channel 1
- Brown/Green - Coil (-) Channel 2
- Brown/Yellow - Coil (-) Channel 3
- Brown/Violet - Coil (-) Channel 4
- Brown/Orange - Coil (+) High Voltage
- White - Trigger Input Channel 1
- Green - Trigger Input Channel 2
- Yellow - Trigger Input Channel 3
- Violet - Trigger Input Channel 4
- Red - Ignition 12 Volt (Switched)
- Pink - Step Retard (to 12 Volts)
- Blue - Two Step (to 12 Volts)
- Brown - No Spark output when Grounded
- Red (Heavy) - Battery (+)
- Black (Heavy) - Battery (-)

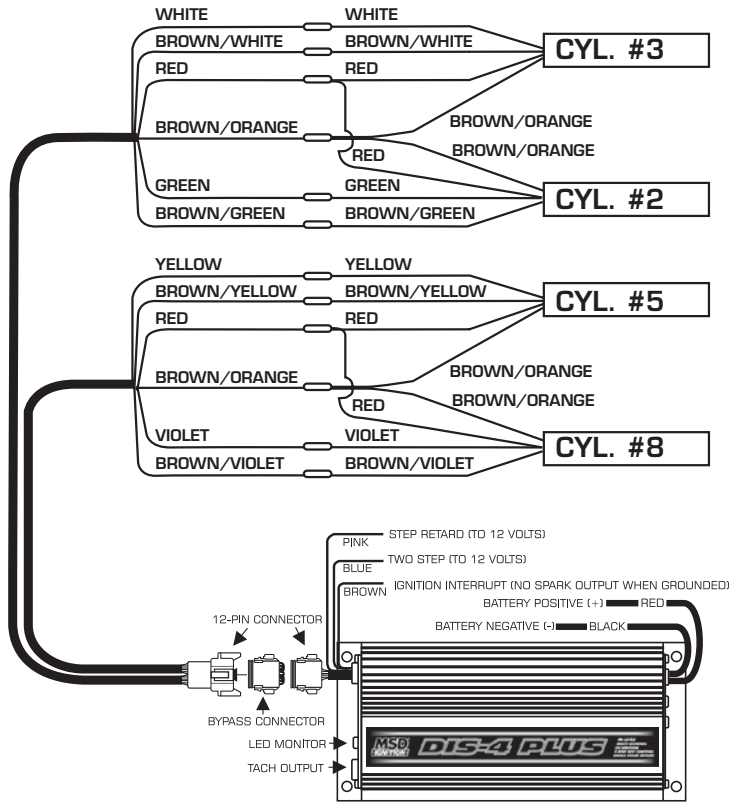


Figure 4

**DOHC BOX A**

NOTES: This wiring diagram applies only to DOHC applications. Please refer to figure 3 and 4 for SOHC models.

This wiring diagram applies to cylinders 1, 7, 6 and 4. Please refer to Figure 6 for cylinders 3, 2, 5 and 8.

**WIRE COLOR CODE**

- Brown/White - Coil (-) Channel 1
- Brown/Green - Coil (-) Channel 2
- Brown/Yellow - Coil (-) Channel 3
- Brown/Violet - Coil (-) Channel 4
- Brown/Orange - Coil (+) High Voltage
- White - Trigger Input Channel 1
- Green - Trigger Input Channel 2
- Yellow - Trigger Input Channel 3
- Violet - Trigger Input Channel 4
- Red - Ignition 12 Volt (Switched)
- Pink - Step Retard (to 12 Volts)
- Blue - Two Step (to 12 Volts)
- Brown - No Spark output when Grounded
- Red (Heavy) - Battery (+)
- Black (Heavy) - Battery (-)

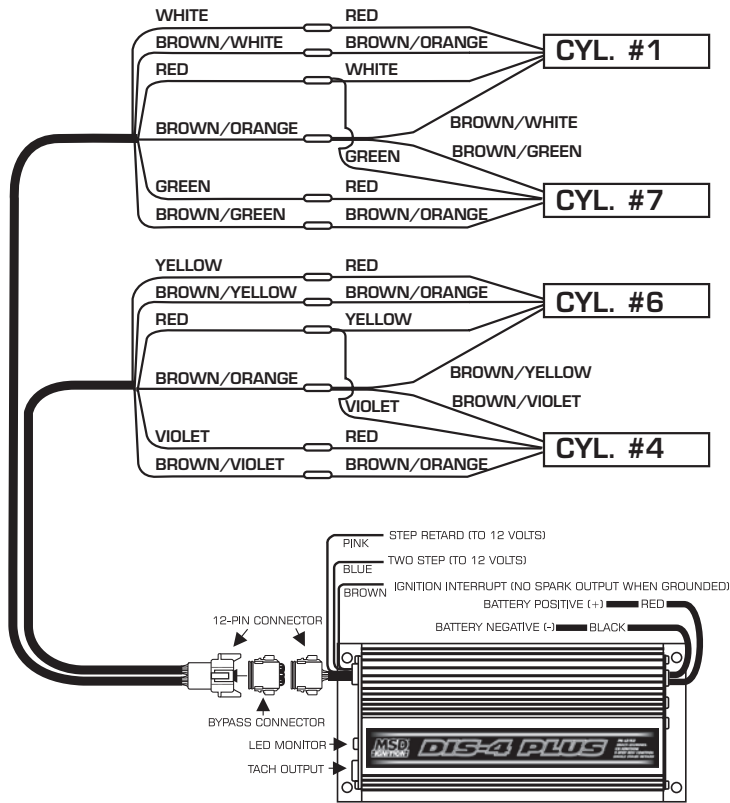


Figure 5

**DOHC BOX B**

NOTES: This wiring diagram applies only to DOHC applications. Please refer to figure 3 and 4 for SOHC models.

This wiring diagram applies to cylinders 3, 2, 5 and 8. Please refer to Figure 5 for cylinders 1, 7, 6 and 4.

**WIRE COLOR CODE**

- Brown/White - Coil (-) Channel 1
- Brown/Green - Coil (-) Channel 2
- Brown/Yellow - Coil (-) Channel 3
- Brown/Violet - Coil (-) Channel 4
- Brown/Orange - Coil (+) High Voltage
- White - Trigger Input Channel 1
- Green - Trigger Input Channel 2
- Yellow - Trigger Input Channel 3
- Violet - Trigger Input Channel 4
- Red - Ignition 12 Volt (Switched)
- Pink - Step Retard (to 12 Volts)
- Blue - Two Step (to 12 Volts)
- Brown - No Spark output when Grounded
- Red (Heavy) - Battery (+)
- Black (Heavy) - Battery (-)

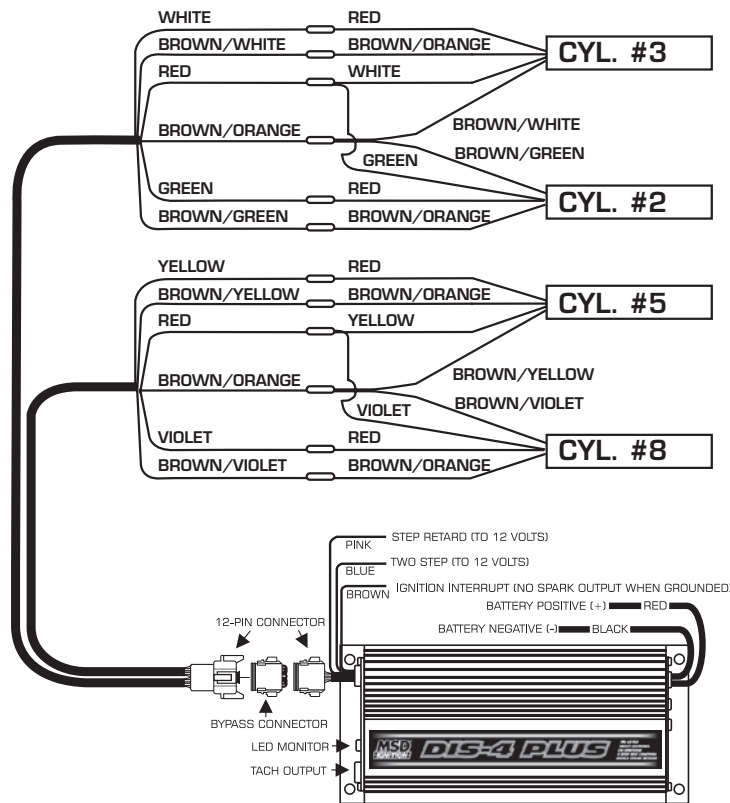


Figure 6



# INSTALLATION INSTRUCTIONS

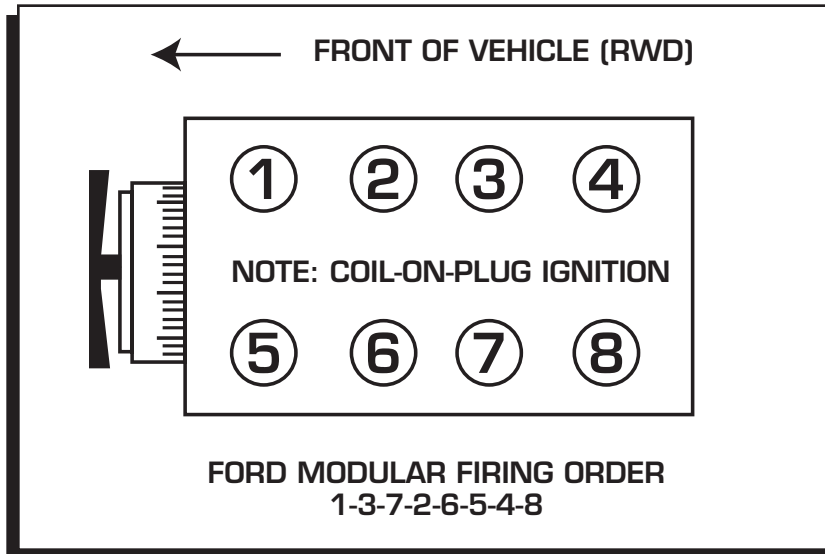


Figure 7 Cylinder Identification.