

<b>Indmar Tune-Up Information - Through 2005 Model Year</b>						
<b>Model</b>	<b>Ign Type</b>	<b>Plug Type</b>	<b>Gap</b>	<b>Point Gap</b>	<b>Dwell</b>	<b>Timing</b>
351 Ford (Standard Output)	Points	RV12YC	0.035	.016 - .018	31 degrees	10 BTDC
351 Ford (High Output)	Points	RS9YC	0.035	.016 - .018	31 degrees	10 BTDC
351 Ford (Standard Output)	Elect	RV12YC	0.035	N/A		10 BTDC
351 Ford (High Output)	Elect	RS9YC	0.035	N/A		10 BTDC
5.7L (Pre Vortec)	Points	MR43T	0.035	.016 - .018	31 degrees	10 BTDC
454 CID	Points	MR43T	0.035	.016 - .018	31 degrees	10 BTDC
5.7L Vortec Carbureted	Elect	MR43LTS (41-932)	0.030	N/A	N/A	10 BTDC*
5.7L Vortec EFI	Elect	MR43LTS (41-932)	0.045 (0.060)	N/A	N/A	10 BTDC*
5.7L Vortec EFI (MC RTP-1, MB LCR, SC 325)	Elect	MR43LTS (41-932)	0.045 (0.060)	N/A	N/A	N/A
5.7L LT1	Elect	MR43LTS (41-932)	0.045 (0.060)	N/A	N/A	N/A
5.7L LS1	Elect		0.050	N/A	N/A	N/A
6.0L (LQ9)	Elect	41-985	0.050	N/A	N/A	N/A
383 CID	Elect	41-932	0.060	N/A	N/A	10 BTDC*
454 CID	Elect	MR43T	0.045 (0.060)	N/A	N/A	10 BTDC*
502 CID	Elect	MR43T	0.045	N/A	N/A	10 BTDC*
8.1L	Elect	41-983	0.050	N/A	N/A	N/A
* Special Timing Procedures Required - See Attached Pages						

## IGNITION TIMING

The following engines are equipped with distributorless ignition systems and do not have adjustable ignition timing:

- Malibu LS1
- Malibu LCR
- MasterCraft RTP-1
- MasterCraft LQ9
- Indmar Assault 325
- Indmar 6.0 Liter
- All 8.1-Liter Models

All of the other engines have adjustable ignition timing, which is carefully adjusted at the Indmar Factory. The timing is checked again during the boat manufacturer's water test and during the dealer's pre-delivery inspection.

The ignition systems in these engines are high energy, electronic ignition systems that require special equipment in order to adjust the timing accurately. Since there are no parts in the system that will wear and alter the timing, these engines are essentially "timed for life". The only way the timing will be altered is by loosening the hold down clamp and turning the distributor.

If, for some reason, you loosen the distributor hold down clamp and turn the distributor, the timing procedure is as follows:

*Indmar Marine Engines*

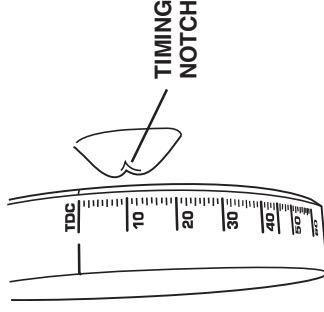
## Carbureted Engines

1. Install P/N 801012 timing shunt (plug with looped white wire and black wire shipped with each engine) into the plug on the distributor. (Figure 6.9)

TO 12 VOLTS +

INDM-B005

**Figure 6.9 – Timing Shunt**



INDM-B006

**Figure 6.10 – Timing Notch**

2. Start engine.
3. Connect the loose end of the black wire to 12 volts positive.
4. Adjust the idle to 750-850 RPM.
5. Set timing to 10 degrees BTDC. (Figure 6.10)
6. Disconnect timing shunt from 12 volts and remove plug from distributor.
7. Reset idle to 750 RPM for inboard engines and 1000 RPM for jet engines.

### Electronic Fuel Injected Engines

1. Start engine.
2. Put engine into base timing mode by running a jumper wire from pin "A" to pin "B" on the engine data link connector. (Figures 6.11 and 6.12) The idle should automatically adjust to 900-1100 RPM.

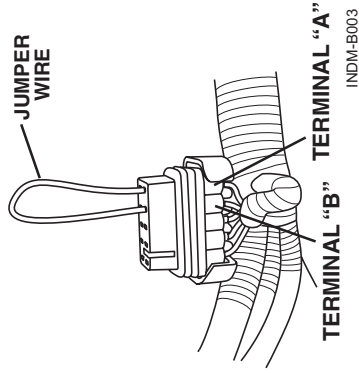


Figure 6.11 – Jumper Wire

### NOTICE

Due to variations in Diagnostic Scan Tools, Indmar prefers using this method of placing the ECM in base timing mode.

3. Set the timing to 10 degrees BTDC. (Figure 6.10)
4. Remove the jumper from the data link connector. The idle RPM should return to normal.

6-14

5. Shut the engine down and leave it off for 15 seconds.
6. Repeat steps 1-4 to verify timing.

Altered ignition timing can cause severe engine damage, which is not covered under the terms of your warranty.

### FUEL SYSTEM

The fuel system consists of fuel lines, fuel pump, and an unused fuel recovery system. Fuel in the system is under pressure and must be relieved before servicing. Because of the inherent danger of fuel leakage into the bilge, do not attempt servicing or maintaining components of the fuel system.

Your Indmar dealer has factory trained technicians and U.S. Coast Guard approved marine grade parts required for fuel systems.

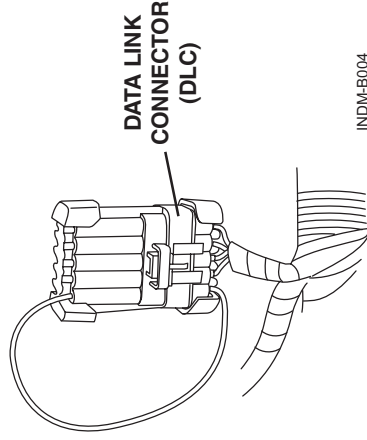


Figure 6.12 – Timing Notch