

# 1974-79 TUNE-UP PROCEDURES

## Pantera V8

1-83

### 1974 Pantera

#### ENGINE IDENTIFICATION

Engine is identified by a tag located under ignition coil mounting bolt. Tag has codes which identify model year, calendar year, month of production, and change level number.

##### ENGINE TAG BREAKDOWN

| Code                   | Application                  |
|------------------------|------------------------------|
| First Row: 351 C 74 1  |                              |
| 351 .....              | 351" Engine                  |
| C .....                | Plant Code (Cleveland)       |
| 74 .....               | Model Year                   |
| 1 .....                | Change Level                 |
| Second Row: 4 E 623 AG |                              |
| 4 .....                | Year of Production           |
| E .....                | Month of Production          |
| 623 AG .....           | Engine Code (351 "C" 4-Bbl.) |

#### MODEL IDENTIFICATION

##### VEHICLE IDENTIFICATION NUMBER

Vehicle Identification Number is stamped on a metal tag located in upper left hand corner of instrument panel and visible through windshield.

##### VIN CODE BREAKDOWN

| Character                 | Application      |
|---------------------------|------------------|
| First .....               | Ghia Operations  |
| Second .....              | Assembly Plant   |
| Third & Fourth .....      | Car Model        |
| Fifth & Sixth .....       | Month/Year Built |
| Seventh & Remaining ..... | Serial Number    |

#### COMPRESSION PRESSURE

Check compression with all spark plugs removed and engine warm. Crank engine through at least 5 compression strokes before taking reading. Maximum compression variation should not exceed 25% between highest and lowest cylinders.

#### VALVE ARRANGEMENT

E-I-E-I-E-I-E-I - Left bank, front-to-rear.  
I-E-I-E-I-E-I-E - Right bank, front-to-rear.

#### SPARK PLUGS

##### SPARK PLUGS

| Application  | Specification              |
|--------------|----------------------------|
| Gap .....    | .035"                      |
| Torque ..... | 15-20 ft. lbs. (20-27 N.m) |

##### SPARK PLUG TYPE

| Application      | Autolite No. |
|------------------|--------------|
| All Models ..... | ARF-42       |

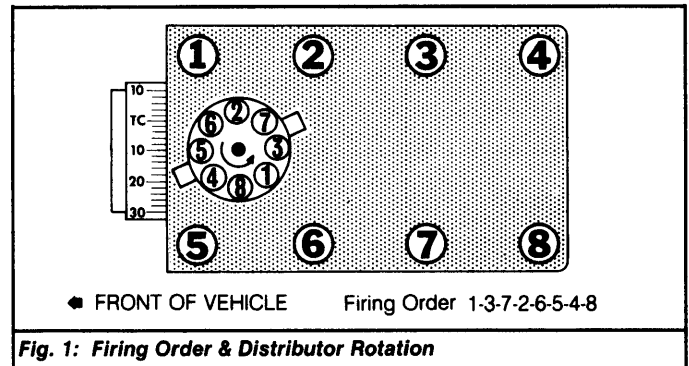
#### DISTRIBUTOR

All models are equipped with Motorcraft dual-point distributors.

##### DISTRIBUTOR

| Application                      | Specification          |
|----------------------------------|------------------------|
| Point Gap .....                  | .020" (.51 mm)         |
| Cam Angle .....                  | 32-35°                 |
| Breaker Arm Spring Tension ..... | 17-21 ozs. (480-595 g) |
| Condenser Capacity .....         | .21-.25 mfd.           |

1 - Cam angle reading is made with both point sets combined.

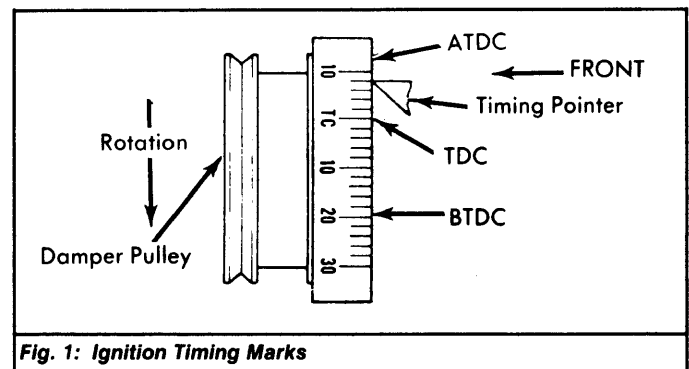


#### IGNITION TIMING

Warm engine to normal operating temperature. Set timing with idle speed at 600 RPM and distributor vacuum hose disconnected and plugged.

##### IGNITION TIMING SPECIFICATIONS

| Application      | Timing   |
|------------------|----------|
| All Models ..... | 20° BTDC |



#### HOT (SLOW) IDLE RPM

1) With engine at normal operating temperature, check timing and distributor vacuum advance and retard. Place transmission in Neutral and turn air conditioning off. With air cleaner installed, disconnect throttle solenoid at bullet connector.

2) Adjust idle speed screw to obtain lower RPM specified. See emission control/tune-up decal for specifications. Reconnect solenoid and extend plunger. Adjust screw on solenoid bracket to obtain higher RPM specified.

#### IDLE MIXTURE

Warm engine to normal operating temperature. Connect exhaust analyzer to vehicle. Turn idle mixture adjusting screws equally, within range of limiter caps, until correct idle CO% level is obtained. Reset idle speed. If correct CO level cannot be achieved remove idle limiter caps and repeat procedure.

#### COLD (FAST) IDLE RPM

Warm engine to normal operating temperature. With air cleaner removed and tachometer attached, manually rotate fast idle cam until adjusting screw rests on specified step of cam. Turn adjusting screw in to out until specified idle RPM is obtained.

##### FAST IDLE SPECIFICATIONS

| Application      | RPM       |
|------------------|-----------|
| All Models ..... | 1300-1350 |

# 1974-79 TUNE-UP PROCEDURES

## Pantera V8 (Cont.)

### AUTOMATIC CHOKE

#### AUTOMATIC CHOKE SETTING

| Application      | Setting |
|------------------|---------|
| All Models ..... | Index   |

### FUEL PUMP

#### FUEL PUMP SPECIFICATIONS

| Application    | Specification     |
|----------------|-------------------|
| Pressure ..... | 5-7 psi           |
| Volume .....   | 1 pint in 20 sec. |

### EXHAUST EMISSION SYSTEMS

See appropriate articles in EXHAUST EMISSION SYSTEMS section.

### IGNITION SYSTEM

All models are equipped with Motorcraft dual-point distributors.

**Other Data & Specifications** - See Motorcraft Distributors in DISTRIBUTORS & IGNITION SYSTEMS section.

### IGNITION COIL

| Application     | Resistance (Ohms) |
|-----------------|-------------------|
| Primary .....   | 1.40-1.54         |
| Secondary ..... | 7600-8800         |

### FUEL SYSTEM

#### CARBURETOR

##### CARBURETOR

| Application      | Model                  |
|------------------|------------------------|
| All Models ..... | Motorcraft 4300 4-Bbl. |

**Other Data & Specifications** - See Motorcraft Carburetors in FUEL SYSTEMS section.