

# 4-54 1974-79 DISTRIBUTORS & IGNITION SYSTEMS

## Marelli Single/Dual Breaker Point Distributors

**Fiat: 1978 124 & 131**  
**Lancia: 1978 All Models**

### DESCRIPTION

Distributors may be single or dual breaker point type. Centrifugal advance is accomplished with conventional weights and springs which may be located either beneath breaker plate or at top of distributor shaft. On distributor with top mounted centrifugal advance, the rotor also serves as a cover for the advance mechanism. Distributors may or may not be equipped with a vacuum advance device.

On dual breaker point systems, one set is used for normal operation. The second set is used for cold engine starting and additional spark advance. A control circuit activates the advance breaker set for cold start operation and then switches ignition circuit to the other breaker set for normal operation.

### SPECIFICATIONS

#### POINT GAP & DWELL ANGLE

See appropriate article in TUNE-UP PROCEDURES section.

#### CENTRIFUGAL & VACUUM ADVANCE

See appropriate DISTRIBUTOR ADVANCE SPECIFICATIONS table in this section.

### ADJUSTMENTS

#### POINT GAP & CAM ANGLE

With rubbing block on high point of cam lobe, insert a feeler gauge blade between contacts. Check reading against specification. To cor-

rect, loosen retaining screw and move stationary contact point until correct gap is obtained, then tighten screw. Align points if necessary by bending stationary contact support only. Check dwell angle and compare indicated reading with specifications. Correct if necessary. If distributor is equipped with dual breaker points, adjust each set separately to obtain specified dwell.

#### BREAKER ARM SPRING TENSION

To check spring tension, place hook end of spring scale as close as possible to the movable breaker point. Pull scale at a right angle (90 degrees) to the movable arm and note reading just as points begin to open.

#### CENTRIFUGAL ADVANCE

Check distributor in test stand according to test equipment manufacturer's instructions. Operate distributor up and down the RPM range and check advance at all RPM settings specified.

#### VACUUM ADVANCE

With distributor in test stand, check advance at vacuum settings shown in specifications. If tests indicate vacuum diaphragm unit is inoperative, out of calibration, or leaking, replace vacuum unit.