

FK.316

# Lumenition

## OPTRONIC<sup>®</sup> IGNITION

INFRA RED SOLID STATE BREAKERLESS IGNITION SYSTEM

90183

A BRITISH INVENTION

**Lumenition**

Division of Autocar Equipment Ltd  
77-85 NEWINGTON CAUSEWAY  
LONDON SE1 6BJ. ENGLAND

Patent Nos. 1219833, 1252324, 1252559, 1279385, 1330453,  
1410782, 1417857, 1420814, 1437770.

® Registered Trade Mark.

USE WITH PMA.60

### FITTING INSTRUCTIONS AC DELCO DISTRIBUTORS

#### ALL MODELS

**Disconnect:** Battery Negative Terminal.

**Remove:** For models under 'Instruction B' see removal of distributor first.

- Distributor Cap (9)
- Rotor (not for models under Instruction B) (1)
- Dust shield (if fitted) (10)
- Contact Breaker (5)
- Condenser and Grommet (8)
- Earth Tag (if fitted) (25)
- Cam lubrication pad (if fitted)

**Check:** Mechanical and vacuum advance operation

Follow instructions A or B as appropriate.

#### INSTRUCTION A. Models 221, 224 & 226 DISTRIBUTORS (made in France)

See Illustration A.

#### INSTALLATION OF OPTICAL SWITCH (4)

- 1 Fit adaptor plate (6) using countersunk screw (26) provided and locating the pip in the hole in base plate (19).
- 2 Fit optical switch (4) to adaptor plate (6) using screw and washer (11) supplied and locating peg of the optical switch into the hole on the adaptor plate. Ensure pip is located before tightening screw.
- 3 Fit chopper (2) over cam and push fully home.
- 4 Slide grommet (3) over optical switch wires and locate grommet (3) into exit slot in distributor body. Ensure wire length between optical switch (4) and grommet (3) allows for vacuum movement and wires are clear of the revolving chopper blades.
- 5 Refit rotor (1) and distributor cap (9).
- 6 Fit pins of optical switch wires into red connector (13) until tags 'click' into position. Ensure wire colours correspond with power module connector.

- 1 Red
- 2 Black
- 3 Blue

To remove terminals use small probe to close tags and withdraw wires. DO NOT PERMIT WIRES TO BE CUT.

7 Reconnect battery negative terminal and check ignition timing to manufacturer's specification after complete system has been fitted.

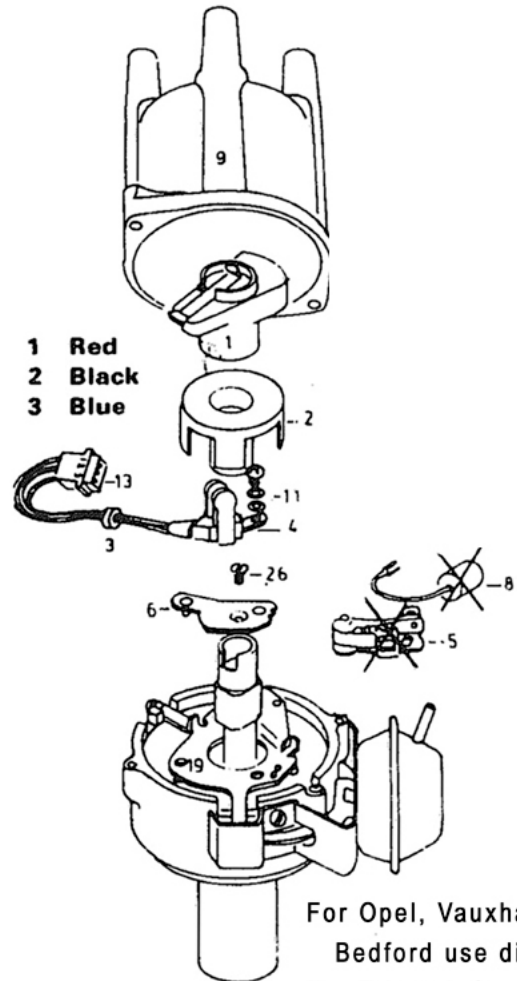
#### INSTRUCTION B. Models D300 & D302 DISTRIBUTORS (made in U.K.)

See Illustration B.

#### INSTALLATION OF OPTICAL SWITCH (4)

- 1 Remove distributor from engine noting position of vacuum unit (14) and rotor (1) to ensure correct replacement.
- 2 Remove pin from drive gear (16) and withdraw centre shaft (17) noting if washer fitted.
- 3 Fit adaptor plate (6) to base plate (19) using screw and washer (26) supplied and locating the pip on the adaptor plate into the other tapped hole in the base plate (19).
- 4 Fit optical switch (4) to adaptor plate (6) using screw and washer (11) supplied and locating peg of the optical switch into the hole in the adaptor plate. Ensure pip is located before tightening screw and replace earth wire (25).
- 5 Remove rotor (1) by removing the 2 screws. Place chopper (2) over the shaft and secure to underside of advance weights plate using screws (35) supplied. Locate rotor over protruding screws (35) and secure into position using special nuts (36) supplied.
- 6 Reassemble shaft (17) to distributor refitting drive gear and pin (16) not forgetting washer if originally supplied.
- 7 Select correct size grommet (3) supplied, to fit distributor body wire exit slot/hole. Slide grommet (3) over wires and locate into distributor body. Ensure wire length between optical switch (4) and grommet (3) allows for vacuum movement and wires are clear of revolving chopper blades.
- 8 Fit optical switch wires into red connector as in instruction A. paragraph 6.
- 9 Replace distributor, locating rotor and vacuum assembly in same location as when removed.
- 10 Refit distributor cover (9).
- 11 Reconnect battery negative terminal and check ignition timing to manufacturer's specification after complete system has been fitted.

#### AC DELCO—ILLUSTRATION A



For Opel, Vauxhall &  
Bedford use disc 247  
For Triumph &  
Saab use disc 261