



Lotus Service Bulletin

CLASS: 111
NUMBER: 1971/15
TYPE: Europa 1565 cc
Date: 23.4.71

LOTUS CARS Ltd - NORWICH NORFOLK NOR92W - Tel: WYMONDHAM 3411 - CABLES LOTUS NORWICH TELEX 97401

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|------------------|-----------------|--|---------|--|--|--|
| Circulation List | Service Manager | | Foreman | | | |
|------------------|-----------------|--|---------|--|--|--|

Title: Distributor Centrifugal and Vacuum Advance figures

Reason: To introduce the Technical Data for addition to the Workshop Manual for the .. 1565 cc, (95.5 cu, in.) Exhaust Emission engined Europa.

To also introduce the Service checking procedure on these models when complaints of 'pinking' are received.

Charges: U.K. - Warranty.....No
EXPORT - Factory.....No
- Distributor.....No

Action: 1. Establish that Super Grade (101 octane rating plus) fuel is being used, See also Service Bulletin 1971/Class III. If in any doubt whatever, drain the fuel tank and refill.

2. Check for correct ignition timing at 1,050 r.p.m. Remove vacuum advance tube and blank off to ensure that it is inoperative at this speed and throttle opening. If it is operating, then the throttle plate must be open. Reset idle speed ensuring that the throttle plate is FULLY CLOSED.

3. 'Pinking' normally occurs on snap throttle openings. Under conditions of low r.p.m, and full throttle, there will be no vacuum advance, therefore in order to check ignition timing at the particular engine speed at which 'pinking' occurs, it will be necessary to disconnect the vacuum advance tube and blank it off. After checking the ignition timing and adjusting where necessary, reconnect the vacuum advance tube. After reconnecting the tube, ensure that the vacuum advance mechanism does not 'hang-up' during acceleration.

4. If distributor is suspect, remove and test on a Distributor Test Rig (see Section M of the Workshop Manual). If the distributor proves to be faulty, replace with a new part.

Centrifugal Advance:

| Distributor <u>r.p.m.</u> | Distributor <u>degrees B.T.D.C.</u> |
|------------------------------|--|
| Below 550 | No advance |
| 800 | 2.5 |
| 1,000 | 10.5 |
| 1,250 | 11.5 |
| 1,500 | 13.0 |
| 1,750 | 14.5 |
| 2,000 | 15.5 |
| 2,250 | 6.5 |
| 2,400 | 17.0 Maximum advance |

Vacuum Advance:

| <u>Distributor</u> <u>degrees B.T.D.C.</u> | <u>Vacuum</u> <u>Hg. millimetres</u> |
|---|---|
| 1.3 | 100 |
| 3.3 | 150 |
| 4.5 | 200 |
| 5.6 | 250 |
| 6.5 | 300 |
| 7.0 | 350 Maximum advance |

The above information will be added to the Technical Data section of the Workshop Manual (Part No. 046 T 0327) when convenient.