

ROTO DIESEL OPA — SERVICE TEST PLANS

General Notes on Coded Test Plans

The positions in the coded test plan where reference to the setting code is required are marked thus:
Test plans for coded pumps are identified by the mark against the words "setting code on nameplate" printed on the first page next to the pump type, engine make and application.
Where the same test plan covers both coded and uncoded pumps the difference in procedure will be indicated in the text for the relevant tests, care should be taken to follow the correct instructions for a given case.

B. Procedure to follow for particular operation

B-1. Roller to Roller Dimension

The setting given in the test plan is approximate and is for use when assembling the pump. Final adjustment of maximum fuel must be carried out on the test machine. If a substantial alteration is required, then the pump must be functioning correctly, e.g., slugs sticking, incorrect governor link setting, etc.

B-2. Setting of the governor OPA Pump with Mechanical Governor only.

Governor control spring

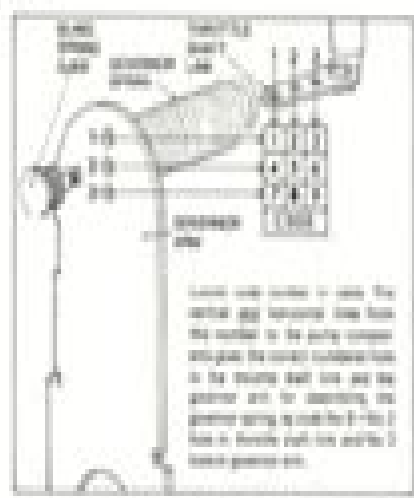


Fig. 1 Application of setting code

Governor link setting.

This is measured between the inside of the rotating valve lever pin and the inside of the governor control lever stud. The measurements should be made with the vernier caliper held with the rule parallel to the axis of the pump. The required value is given on the first page of a test plan as "Governor Link length" using both the nominal length and the tolerance.

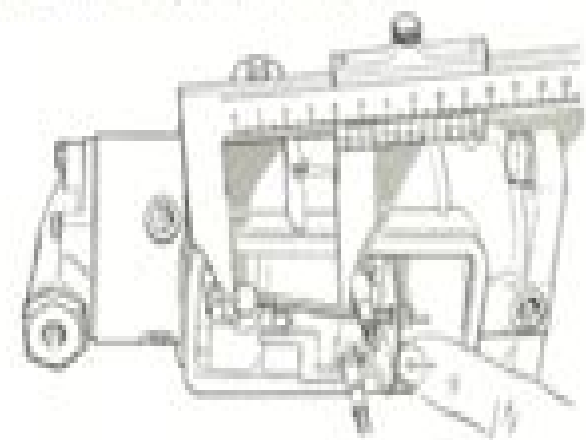


Fig. 2 Measurement of governor link length

The link length is specified to satisfy two main factors for governor performance:

1. Fuel cut-off at maximum speed.
2. Non-interference with fuel delivery at maximum fuel.

Whilst most governors will operate satisfactorily with the nominal link length, some units fail for the above reasons and can be corrected by an alteration to the link length. The following procedure should therefore be adopted:

1. Set to nominal link length before commencing test.
2. If the test fails because of no cut-off at maximum governed speed, reduce the link length.
3. If the test fails because of maximum fuel interference, increase the link length.

Cav Rotodiesel Dpa Pumps Service Test Data

M Walker



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