

# **LIST OF SCHEDULES**

| <i>Schedule</i>                           | <i>Fig.</i> |
|-------------------------------------------|-------------|
| 1 Rotating parts assembly ... ..          | 1           |
| 2 Exhaust cone ... ..                     | 1           |
| 3 Intermediate drive gear ... ..          | 1           |
| 4 First generator drive gear ... ..       | 1           |
| 5 Idler gear ... ..                       | 1           |
| 6 Second generator drive gear ... ..      | 1           |
| 7 Blower drive gear ... ..                | 1           |
| 8 Hydraulic pump drive gear ... ..        | 1           |
| 9 Oil pump and drive coupling ... ..      | 1           |
| 10 Oil filter ... ..                      | 1           |
| 11 Breather shut-off valve ... ..         | 1           |
| 12 Pressure re-oil valve ... ..           | 1           |
| 13 Air assistance non-return valve ... .. | 1           |
| 14 Fuel pump ... ..                       | 1           |
| 15 Combustion chamber ... ..              | 1           |
| 16 Blower assembly ... ..                 | 1           |



## APPLICATION OF SCHEDULES

### Introduction

- 1 The fits and clearance data are given under the following headings :—

Dimension, new  
Permissible worn dimension  
Clearance, new  
Permissible worn clearance

- 2 Dimensions are given in inches and decimals of an inch.

- 3 A key diagram of the component is given with each schedule, and the points at which wear is likely to occur are numbered on the diagram; the numbers also appear in the first column of the schedule against the data appropriate to the point of wear.

### Dimension, new

- 4 The figures given in this column are the maximum and minimum drawing sizes to which new parts are made. The difference between the two dimensions is the manufacturing tolerance and is an expression of the accuracy and quality of workmanship required by the design.

### Clearance, new

- 5 The figures given in this column are the maximum and minimum clearances which result from mating two new parts. Normally an interference fit is indicated by a minus (—) sign, but sometimes it may be indicated by the word TIGHT, in which case a clearance is indicated by the word CLEAR or SLACK. Where used, the word SIZE indicates zero clearance.

### Permissible worn clearance

- 6 This is the maximum clearance permitted between two mating parts which are assembled to undergo a further full period of service.

### Permissible worn dimension

- 7 This is the limiting dimension to which the part may wear and still be refitted for a further full period of service, provided that its mating part is selected so that the PERMISSIBLE WORN CLEARANCE is not exceeded.

- 8 A part worn to the PERMISSIBLE WORN DIMENSION quoted will necessitate the use of a new mating part. This new part will, in the extreme, have to be the limiting DIMENSION, NEW, i.e., a low limit hole for a worn pin, and a high limit pin for a worn hole.

- 9 Sometimes technical considerations, e.g. depth of nitriding, thickness of cylinder walls, will considerably reduce the amount of wear that can be allowed.

- 10 A part worn beyond the PERMISSIBLE WORN DIMENSION quoted, must be classified as unserviceable unless it can be restored to a serviceable condition by an approved repair scheme.





## Schedule 1

## ROTATING PARTS ASSEMBLY

| Fig.<br>Ref. No. | Part and Description                       | Dimension<br>New          | Permissible<br>Worn<br>Dimension | Clearance<br>New            | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|--------------------------------------------|---------------------------|----------------------------------|-----------------------------|----------------------------------|---------|
| 1                | HIGH SPEED BALL BEARING                    |                           |                                  |                             |                                  |         |
|                  | Diametral clearance                        |                           |                                  | 0.001                       |                                  |         |
|                  | Endfloat                                   |                           |                                  | 0.002                       | 0.007                            |         |
|                  |                                            |                           |                                  | 0.005                       |                                  |         |
|                  | Housing—bore                               | $\frac{1.84995}{1.8497}$  | }                                | $\frac{-0.00026}{-0.00071}$ |                                  |         |
|                  | Bearing—dia.                               | $\frac{1.85041}{1.85021}$ |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
| 2                | HIGH SPEED PINION                          |                           |                                  |                             |                                  |         |
|                  | Variation from true involute profile       | 0.0002                    | 0.0005                           |                             |                                  |         |
| 3                | OIL SEAL COMPRESSOR SHAFT LOCATION BEARING |                           |                                  |                             |                                  |         |
|                  | Oil seal—bore                              | $\frac{1.065}{1.064}$     | 1.0665                           | $\frac{0.004}{0.002}$       | 0.0055                           |         |
|                  | Compressor shaft—dia.                      | $\frac{1.062}{1.061}$     |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
|                  | Compressor housing—bore                    | $\frac{1.5315}{1.5310}$   | }                                | Size<br>—0.001              |                                  |         |
|                  | Oil seal—dia.                              | $\frac{1.5320}{1.5315}$   |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
| 4                | ROTATING GUIDE VANES                       |                           |                                  |                             |                                  |         |
|                  | Bore of rotating guide vane inner end      | $\frac{1.12375}{1.12350}$ | }                                | $\frac{-0.0045}{-0.0050}$   |                                  |         |
|                  | Compressor shaft—dia.                      | $\frac{1.12850}{1.12825}$ |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
|                  | Bore of rotating guide vane outer end      | $\frac{1.09245}{1.09220}$ | }                                | $\frac{-0.0045}{-0.0050}$   |                                  |         |
|                  | Compressor shaft—dia.                      | $\frac{1.09720}{1.09695}$ |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
| 5                | COMPRESSOR ROTOR                           |                           |                                  |                             |                                  |         |
|                  | Rotor—bore                                 | $\frac{1.62525}{1.62500}$ | }                                | $\frac{-0.0055}{-0.0060}$   |                                  |         |
|                  | Compressor shaft—dia.                      | $\frac{1.63100}{1.63075}$ |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |
|                  | Rotor—bore                                 | $\frac{1.15625}{1.15600}$ | }                                | $\frac{-0.0040}{-0.0045}$   |                                  |         |
|                  | Compressor shaft                           | $\frac{1.16050}{1.16025}$ |                                  |                             |                                  |         |
|                  |                                            |                           |                                  |                             |                                  |         |

| Fig.<br>Ref. No. | Part and Description                                                     | Dimension<br>New      | Permissible<br>Worn<br>Dimension | Clearance<br>New      | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|--------------------------------------------------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|---------|
| 6                | CLEARANCE BETWEEN<br>COMPRESSOR ROTOR<br>VANES AND COMPRESSOR<br>HOUSING |                       |                                  | $\frac{0.015}{0.018}$ |                                  |         |
| 7                | COMPRESSOR SHAFT<br>SEAL ASSEMBLY                                        |                       |                                  |                       |                                  |         |
|                  | Seal—bore                                                                | $\frac{1.627}{1.626}$ | 1.6285                           | $\frac{0.003}{0.001}$ | 0.0045                           |         |
|                  | Compressor shaft—dia.                                                    | $\frac{1.625}{1.624}$ |                                  |                       |                                  |         |

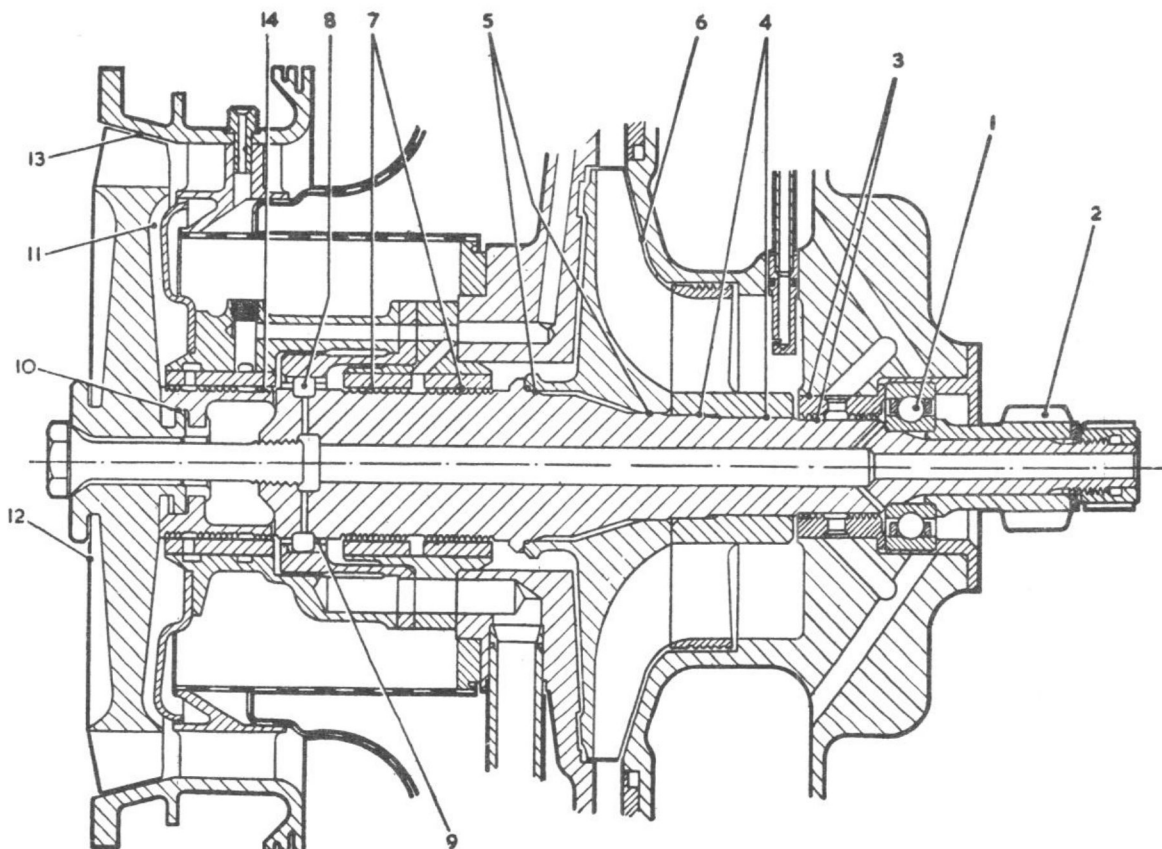


Fig. 1. Rotating parts assembly

## Schedule 1—(continued)

## ROTATING PARTS ASSEMBLY

| Fig.<br>Ref. No.     | Part and Description                                        | Dimension<br>New                                       | Permissible<br>Worn<br>Dimension | Clearance<br>New        | Permissible<br>Worn<br>Clearance | Remarks                                                         |        |
|----------------------|-------------------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------|----------------------------------|-----------------------------------------------------------------|--------|
| 8                    | ROLLER BEARING<br>FLEXIBLE SUPPORT<br>Oil seal housing—bore | $\frac{2.438}{2.437}$                                  | }                                | $\frac{0.006}{0.004}$   |                                  | Rollers as a set not<br>to vary by more than<br>0.00005 on dia. |        |
|                      | Outer race outside<br>diameter                              | $\frac{2.433}{2.432}$                                  |                                  |                         |                                  |                                                                 |        |
|                      | Outer race track diameter                                   | $\frac{1.92475}{1.9245}$                               |                                  |                         |                                  |                                                                 |        |
|                      | Shaft track—dia.                                            | $\frac{1.4240}{1.42375}$                               | 1.4235                           | $\frac{0.0005}{0.0014}$ | 0.00165                          |                                                                 |        |
|                      | Roller—dia.                                                 | $\frac{0.2500}{0.2498}$                                |                                  |                         |                                  |                                                                 |        |
|                      | Roller width                                                | $\frac{0.2500}{0.2496}$                                |                                  |                         |                                  |                                                                 |        |
|                      | Track width                                                 | $\frac{0.252}{0.253}$                                  | 0.25325                          | $\frac{0.002}{0.0034}$  | 0.00365                          |                                                                 |        |
|                      |                                                             |                                                        |                                  |                         |                                  |                                                                 |        |
|                      | 9                                                           | ROLLER CAGE<br>Inner—dia.                              | $\frac{1.6310}{1.6300}$          |                         |                                  |                                                                 |        |
|                      |                                                             | Roller pocket width                                    | $\frac{0.262}{0.260}$            | 0.264                   | $\frac{0.0124}{0.010}$           |                                                                 | 0.0144 |
| Roller pocket length |                                                             | $\frac{0.262}{0.260}$                                  | 0.264                            |                         |                                  |                                                                 |        |
| 10                   |                                                             | TURBINE ROTOR<br>Compressor shaft—bore                 | $\frac{1.1560}{1.1555}$          | 1.1580                  | $\frac{-0.0005}{-0.0015}$        | 0.0015                                                          |        |
|                      | Rotor hub—dia.                                              | $\frac{1.1570}{1.1565}$                                |                                  |                         |                                  |                                                                 |        |
|                      | 11                                                          | CLEARANCE BETWEEN<br>TURBINE ROTOR AND<br>COOLING RING |                                  |                         | 0.070 min                        |                                                                 |        |
| 12                   | TURBINE ROTOR<br>PERMISSIBLE SWASH                          | 0.015 max                                              |                                  |                         |                                  | Measured at<br>2.250 rad.                                       |        |
| 13                   | TURBINE ROTOR RADIAL<br>TIP CLEARANCE                       |                                                        |                                  | 0.015 min               |                                  |                                                                 |        |
| 14                   | TURBINE ROTOR OIL<br>SEAL<br>Oil seal—bore                  | $\frac{1.6270}{1.6260}$                                | 1.6285                           | $\frac{0.0030}{0.0010}$ | 0.0035                           |                                                                 |        |
|                      | Compressor shaft—dia.                                       | $\frac{1.6250}{1.6240}$                                |                                  | 1.6270                  |                                  |                                                                 |        |



## Schedule 2

## EXHAUST CONE

| Fig.<br>Ref. No. | Part and Description                               | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|----------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|---------|
| 1                | CLEARANCE BETWEEN<br>TURBINE AND COOLING<br>RING   |                  |                                  | 0.136<br>0.120   |                                  |         |
| 2                | ENGAGEMENT OF<br>EXHAUST CONE IN<br>BELLOWS FLANGE |                  |                                  | 0.100<br>0.030   |                                  |         |

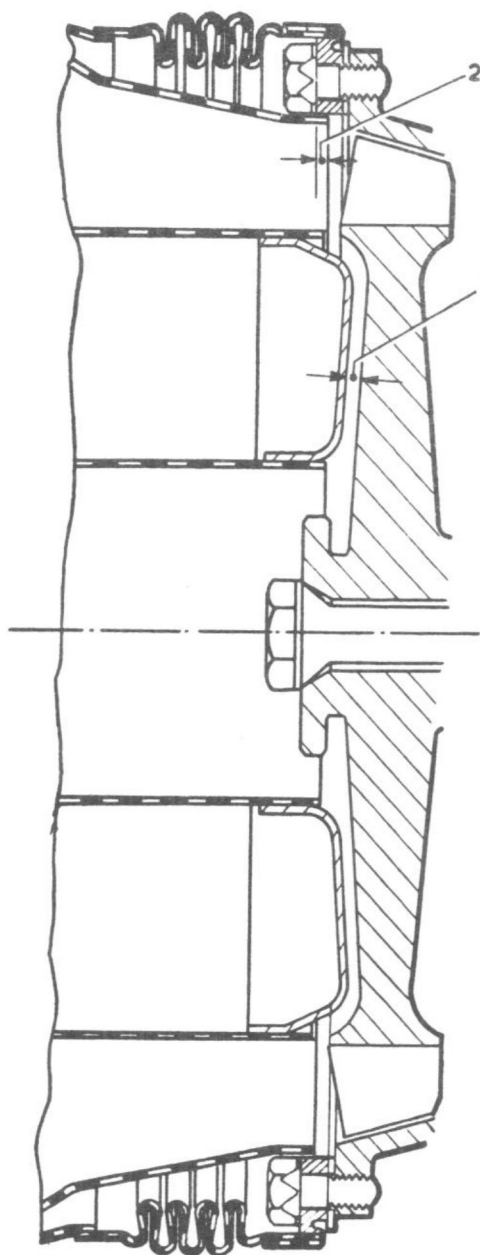


Fig. 1. Exhaust cone



## Schedule 3

## INTERMEDIATE DRIVE GEAR

| Fig.<br>Ref. No. | Part and Description                                                              | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>Ncw          | Permissible<br>Worn<br>Clearance | Remarks         |
|------------------|-----------------------------------------------------------------------------------|-------------------------|----------------------------------|---------------------------|----------------------------------|-----------------|
| 1                | INTERMEDIATE WHEEL<br>AND SHAFT<br>Gear variation from true<br>involute profile   | 0.0002                  | 0.0005                           |                           |                                  |                 |
| 2                | INTERMEDIATE WHEEL<br>AND SHAFT OUTPUT<br>DRIVE PINION SPLINES<br>Shaft over pins | $\frac{0.972}{0.970}$   | 0.9697                           | $\frac{-0.0003}{-0.0029}$ | -0.0001                          | 0.1920 pin dia. |
|                  | Pinion between pins                                                               | $\frac{0.5243}{0.5223}$ |                                  |                           |                                  | 0.144 pin dia.  |
| 3                | OUTPUT DRIVE PINION<br>Variation from true<br>involute profile                    | 0.0002                  | 0.0005                           |                           |                                  |                 |
| 4                | INTERMEDIATE BEARING<br>AND HOUSING<br>Permissible end float                      |                         |                                  | $\frac{0.002}{0.005}$     |                                  |                 |

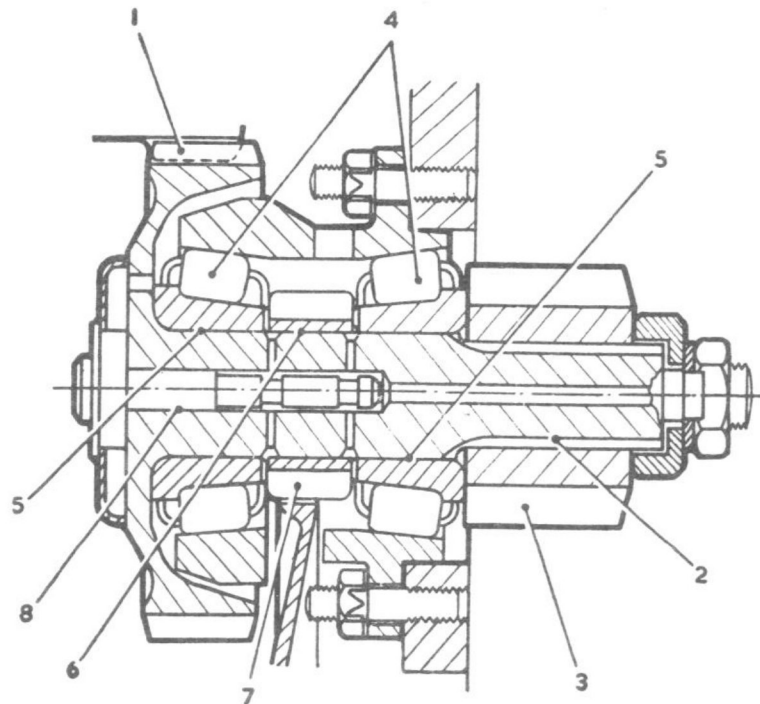


Fig. 1. Intermediate drive gear

| Fig.<br>Ref. No. | Part and Description                    | Dimension<br>New          | Permissible<br>Worn<br>Dimension | Clearance<br>New            | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-----------------------------------------|---------------------------|----------------------------------|-----------------------------|----------------------------------|---------|
| 5                | INTERMEDIATE BEARING<br>AND SHAFT       |                           |                                  |                             |                                  |         |
|                  | Bearing—bore                            | $\frac{0.8750}{0.8755}$   | 0.87585                          | $\frac{-0.00130}{-0.00055}$ | -0.00035                         |         |
|                  | Shaft—dia.                              | $\frac{0.87630}{0.87605}$ |                                  |                             |                                  |         |
| 6                | INTERMEDIATE PUMP<br>PINION AND SHAFT   |                           |                                  |                             |                                  |         |
|                  | Pinion—bore                             | $\frac{0.8740}{0.8745}$   | 0.87585                          | $\frac{-0.0023}{-0.00155}$  | -0.00135                         |         |
|                  | Shaft—dia.                              | $\frac{0.87630}{0.87605}$ |                                  |                             |                                  |         |
| 7                | INTERMEDIATE PUMP<br>PINION             |                           |                                  |                             |                                  |         |
|                  | Variation from true<br>involute profile | 0.0002                    | 0.0005                           |                             |                                  |         |
| 8                | OIL THROWER                             |                           |                                  |                             |                                  |         |
|                  | Shaft—bore                              | $\frac{0.3295}{0.3285}$   | 0.3284                           | $\frac{-0.0017}{-0.0002}$   | -0.0001                          |         |
|                  | Thrower stem—dia.                       | $\frac{0.3302}{0.3297}$   |                                  |                             |                                  |         |



## Schedule 4

## FIRST GENERATOR DRIVE GEAR

| Fig.<br>Ref. No. | Part and Description                                  | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks        |
|------------------|-------------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|----------------|
| 1                | BEARING ASSEMBLY<br>Permissible end float             |                  |                                  | 0.004<br>0.002   |                                  |                |
| 2                | BEARING FIT<br>Bearing—bore                           | 1.0006<br>1.0000 | }                                | 0.0012<br>0.0001 |                                  |                |
|                  | Shaft—dia.                                            | 0.9999<br>0.9994 |                                  |                  |                                  |                |
| 3                | SPLINE BETWEEN PINS                                   | 0.6798<br>0.6758 | 0.6838                           |                  |                                  | 0.086 pin dia. |
| 4                | IDLER GEAR<br>Variation from true<br>involute profile | 0.0002           | 0.0005                           |                  |                                  |                |
| 5                | DRIVE GEAR<br>Variation from true<br>involute profile | 0.0002           | 0.0005                           |                  |                                  |                |

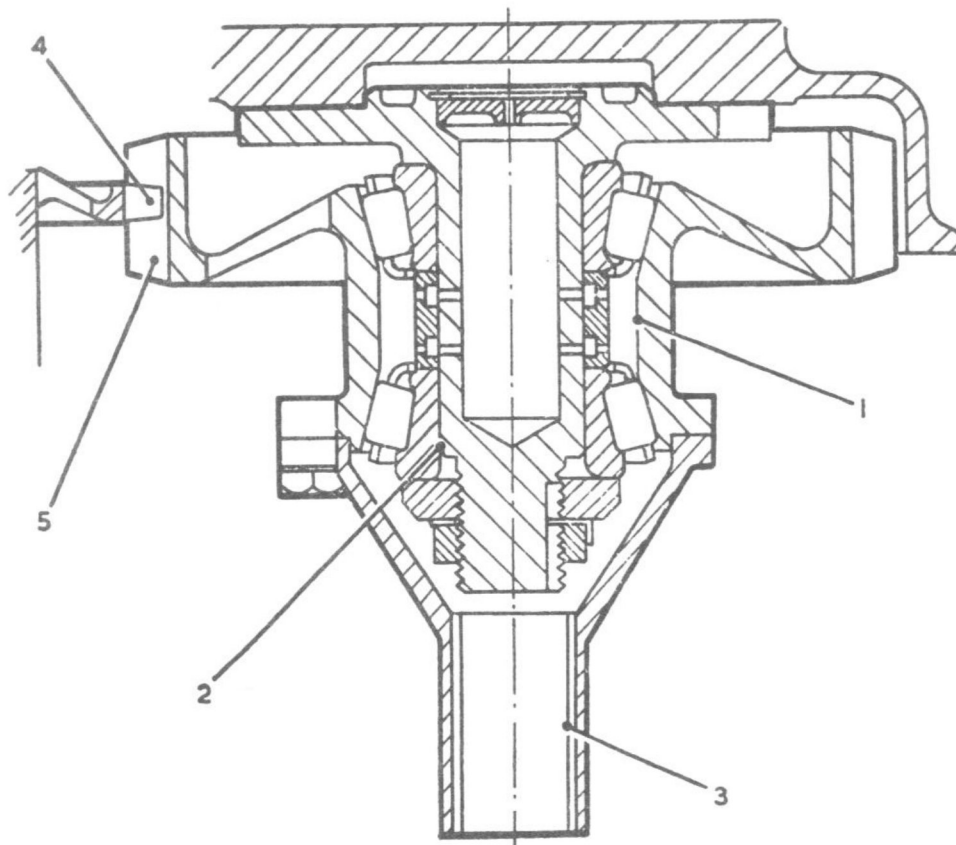


Fig. 1. First generator drive gear



## Schedule 5

## IDLER GEAR

| Fig.<br>Ref. No. | Part and Description                                  | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>New        | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-------------------------------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|---------|
| 1                | BEARING ASSEMBLY<br>Permissible end float             |                         |                                  | $\frac{0.004}{0.002}$   |                                  |         |
| 2                | BEARING FIT<br>Bearing—bore                           | $\frac{0.5006}{0.5000}$ | }                                | $\frac{0.0012}{0.0001}$ |                                  |         |
|                  | Shaft—dia                                             | $\frac{0.4999}{0.4994}$ |                                  |                         |                                  |         |
| 3                | IDLER GEAR<br>Variation from true<br>involute profile | 0.0002                  | 0.0005                           |                         |                                  |         |

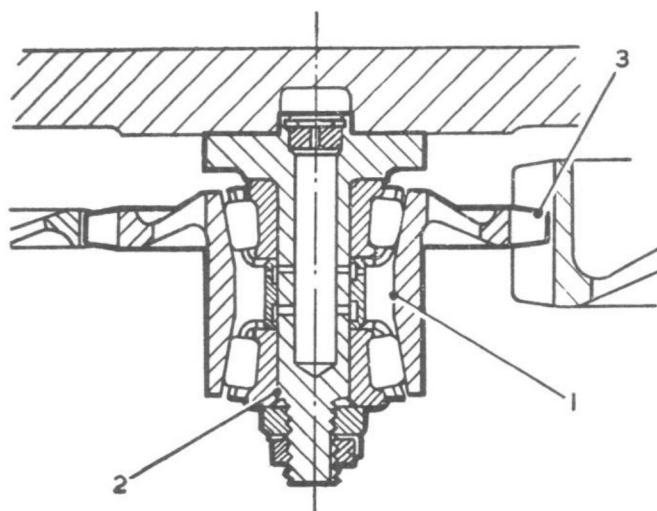


Fig. 1. Idler gear



## Schedule 6

## SECOND GENERATOR DRIVE GEAR

| Fig.<br>Ref. No. | Part and Description                                  | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>New        | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-------------------------------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|---------|
| 1                | BEARING ASSEMBLY<br>Permissible end float             |                         |                                  | $\frac{0.004}{0.002}$   |                                  |         |
| 2                | DRIVE GEAR<br>Variation from true<br>involute profile | 0.0002                  | 0.0005                           |                         |                                  |         |
| 3                | BEARING FIT<br>Bearing—bore                           | $\frac{0.4726}{0.4720}$ | }                                | $\frac{0.0012}{0.0001}$ |                                  |         |
|                  | Shaft—dia                                             | $\frac{0.4719}{0.4714}$ |                                  |                         |                                  |         |

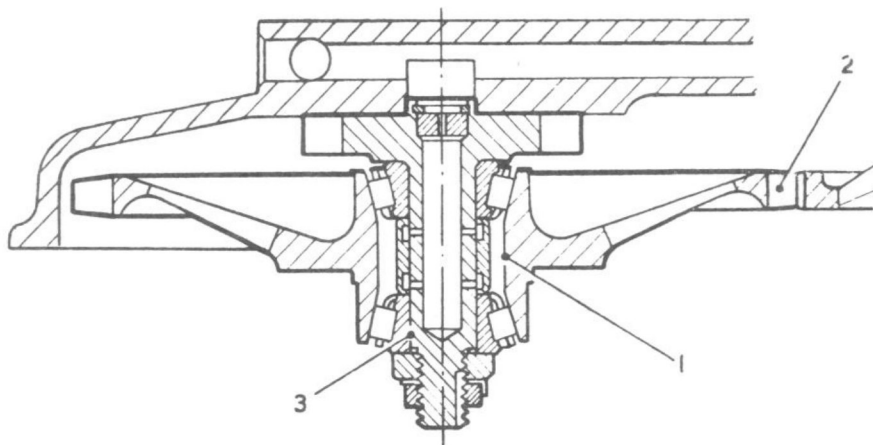


Fig. 1. Second generator drive gear



## Schedule 7

## BLOWER DRIVE GEAR

| Fig.<br>Ref. No. | Part and Description                                  | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>New        | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-------------------------------------------------------|-------------------------|----------------------------------|-------------------------|----------------------------------|---------|
| 1                | BEARING ASSEMBLY<br>Permissible end float             |                         |                                  | $\frac{0.004}{0.002}$   |                                  |         |
| 2                | BEARING FIT<br>Bearing—bore                           | $\frac{0.4726}{0.4720}$ | }                                | $\frac{0.0012}{0.0001}$ |                                  |         |
|                  | Shaft—dia.                                            | $\frac{0.4719}{0.4714}$ |                                  |                         |                                  |         |
| 3                | IDLER GEAR<br>Variation from true<br>involute profile | 0.0002                  | 0.0005                           |                         |                                  |         |

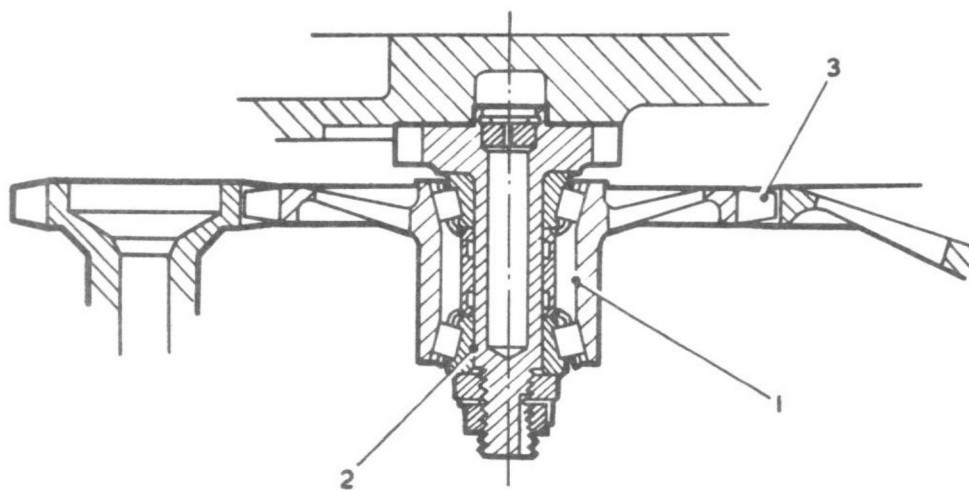


Fig. 1. Blower drive gear





## Schedule 8

## HYDRAULIC PUMP DRIVE GEAR

| Fig.<br>Ref. No. | Part and Description                                           | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks         |
|------------------|----------------------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|-----------------|
| 1                | BEARING ASSEMBLY<br>Permissible end float                      |                  |                                  | 0.004<br>0.002   |                                  |                 |
| 2                | BEARING FIT<br>Bearing—bore                                    | 0.4726<br>0.4720 | }                                | 0.0012<br>0.0001 |                                  |                 |
|                  | Shaft—dia.                                                     | 0.4719<br>0.4714 |                                  |                  |                                  |                 |
| 3                | DRIVE COUPLING<br>Involute spline between<br>pins              | 1.2767<br>1.2749 | 1.2791                           |                  |                                  | 0.090 dia. pins |
| 4                | DRIVE COUPLING<br>Serations between pins                       | 0.5056<br>0.5035 | 0.5091                           |                  |                                  | 0.054 dia. pins |
| 5                | HYDRAULIC PUMP GEAR<br>Variation from true<br>involute profile | 0.0002           | 0.0005                           |                  |                                  |                 |
| 6                | HYDRAULIC PUMP GEAR<br>Involute spline over pins               | 1.5592<br>1.5569 | 1.5539                           |                  |                                  | 0.120 dia. pins |

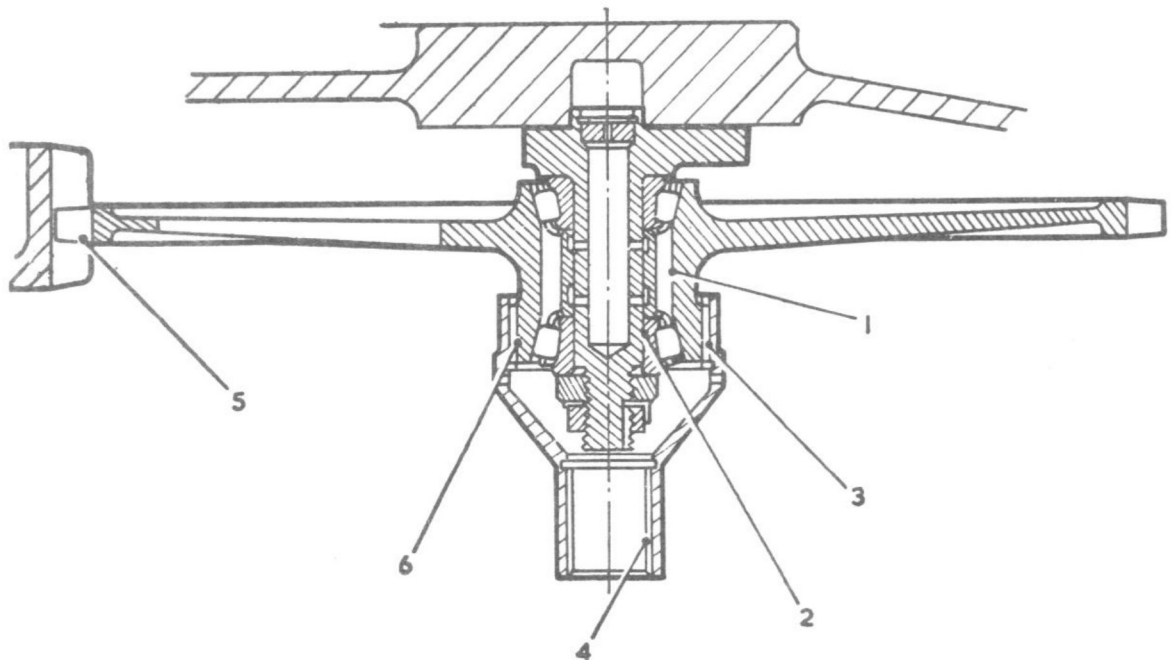


Fig. 1. Hydraulic pump drive gear



## Schedule 9

## OIL PUMP AND DRIVE COUPLING

| Fig.<br>Ref. No. | Part and Description                                      | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>New      | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-----------------------------------------------------------|-------------------------|----------------------------------|-----------------------|----------------------------------|---------|
| 1                | OIL PUMP GEARS<br>Variation from true<br>involute profile | 0.0002                  | 0.0005                           |                       |                                  |         |
| 2                | OIL PUMP GEARS<br>ENDFLOAT<br>Oil pump body depth         | $\frac{0.752}{0.751}$   | 0.753                            | $\frac{0.003}{0.001}$ | 0.004                            |         |
|                  | Gears, width                                              | $\frac{0.750}{0.749}$   | Nil                              |                       |                                  |         |
| 3                | OIL PUMP GEARS RADIAL<br>CLEARANCE<br>Body—bore           | $\frac{0.686}{0.685}$   | 0.687                            | $\frac{0.003}{0.001}$ | 0.004                            |         |
|                  | Gear—diameter                                             | $\frac{0.684}{0.683}$   | Nil                              |                       |                                  |         |
| 4                | OIL PUMP GEAR SHAFTS,<br>CLEARANCE<br>Body—bore           | $\frac{0.3755}{0.3750}$ | 0.3765                           | $\frac{0.002}{0.001}$ | 0.003                            |         |
|                  | Shaft—dia.                                                | $\frac{0.3740}{0.3735}$ | Nil                              |                       |                                  |         |

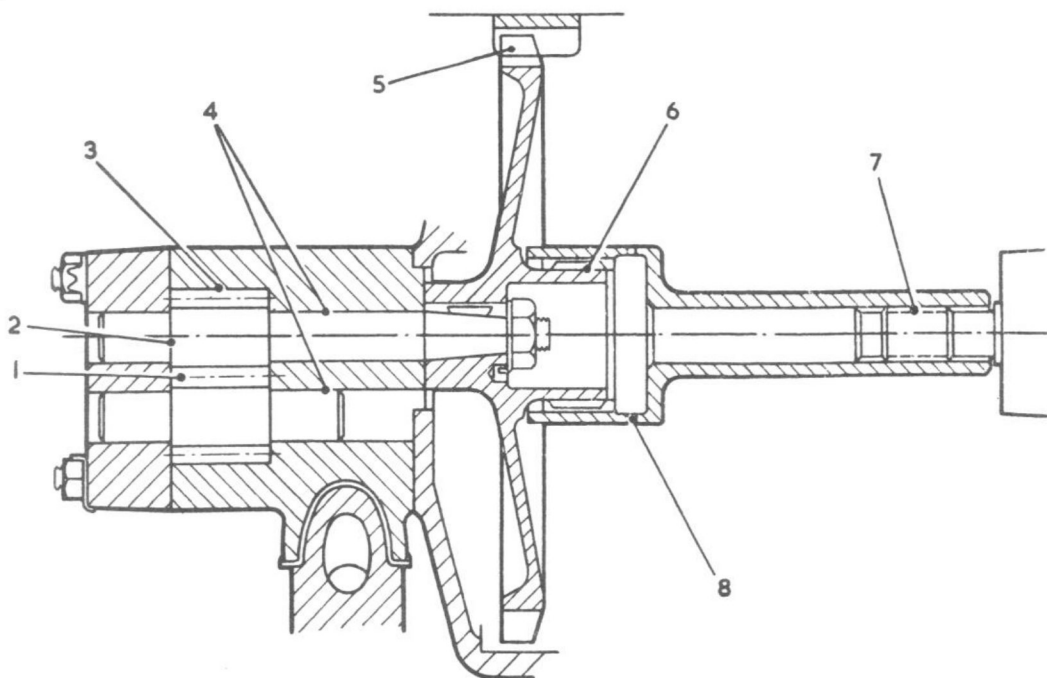


Fig. 1. Oil pump and drive coupling

## OIL PUMP AND DRIVE COUPLING

| Fig.<br>Ref. No. | Part and Description                                             | Dimension<br>New        | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks          |
|------------------|------------------------------------------------------------------|-------------------------|----------------------------------|------------------|----------------------------------|------------------|
| 5                | OIL PUMP DRIVING GEAR<br>Variation from true<br>involute profile | 0.0002                  | 0.0005                           |                  |                                  |                  |
| 6                | OIL PUMP DRIVING GEAR<br>Involute splines over pins              | $\frac{1.1829}{1.1807}$ | 1.1777                           |                  |                                  | 0.120 dia pins   |
| 7                | FUEL PUMP DRIVE<br>COUPLING<br>Serrations between pins           | $\frac{0.2904}{0.2888}$ | 0.2936                           |                  |                                  | 0.0388 dia. pins |
| 8                | FUEL PUMP DRIVE<br>COUPLING<br>Involute splines between<br>pins  | $\frac{0.9037}{0.9017}$ | 0.9077                           |                  |                                  | 0.090 dia pins   |

## Schedule 10

## OIL FILTER

| Fig.<br>Ref. No. | Part and Description                         | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|----------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|---------|
| 1                | VALVE SPRING<br>Fitted length<br>Fitted load | 0.875<br>5 lb    |                                  |                  |                                  |         |

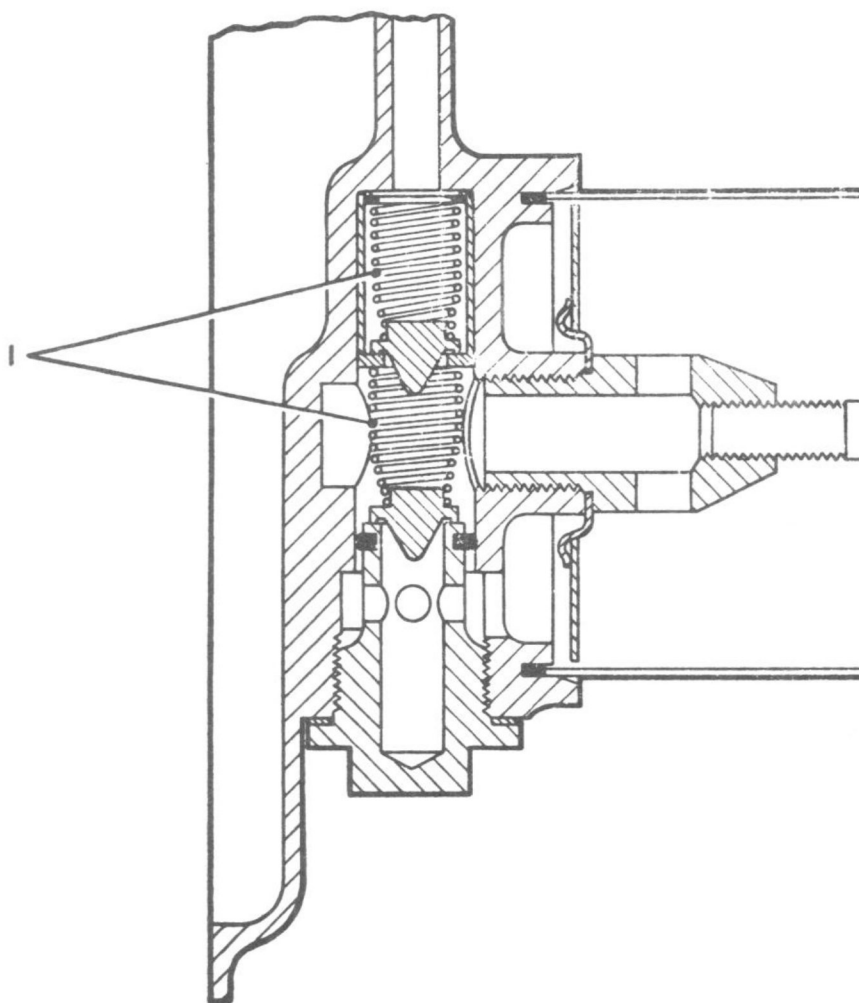


Fig. 1. Oil filter



## Schedule 11

## BREATHER SHUT-OFF VALVE

| Fig.<br>Ref. No. | Part and Description                         | Dimension<br>New      | Permissible<br>Worn<br>Dimension | Clearance<br>New      | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|----------------------------------------------|-----------------------|----------------------------------|-----------------------|----------------------------------|---------|
| 1                | VALVE SPRING<br>Fitted length<br>Fitted load | 2.499<br>0.308 lb     |                                  |                       |                                  |         |
| 2                | VALVE HOUSING AND<br>PISTON<br>Housing—bore  | $\frac{0.751}{0.750}$ | 0.752                            | $\frac{0.007}{0.005}$ | 0.009                            |         |
|                  | Piston—dia.                                  | $\frac{0.745}{0.744}$ | 0.743                            |                       |                                  |         |

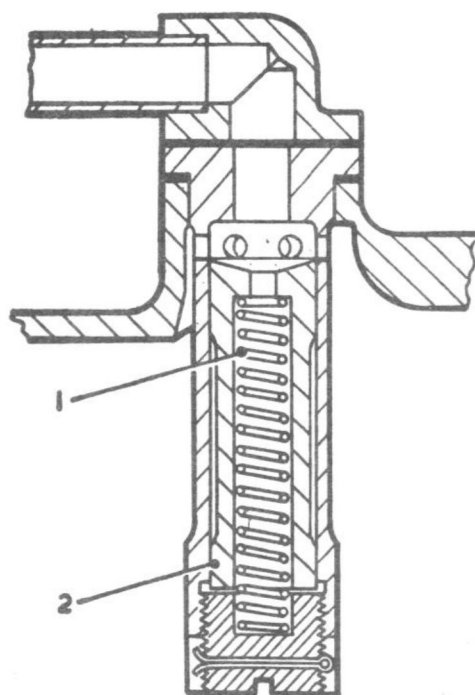


Fig. 1. Breather shut-off valve





## Schedule 12

## PRESSURE RE-OIL VALVE

| Fig.<br>Ref. No. | Part and Description                                               | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks                             |
|------------------|--------------------------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|-------------------------------------|
| 1                | VALVE SPRING<br>Fitted length                                      | 0.7880<br>0.7080 |                                  |                  |                                  |                                     |
|                  | Fitted load                                                        | 3.5 lb<br>6.7 lb | 3 lb. min                        |                  |                                  | Free Length 0.875<br>Rate 40 lb/in. |
| 2                | VALVE AND BODY<br>CLEARANCE<br>Body hole—dia.                      | 0.2560<br>0.2500 | }                                | 0.008<br>0.001   |                                  |                                     |
|                  | Valve stem—dia.                                                    | 0.2490<br>0.2480 |                                  |                  |                                  |                                     |
| 3                | VALVE TIP AND QUICK<br>RELEASE VALVE FACE<br>Permissible clearance |                  |                                  | 0.025<br>0.045   | 0.010<br>0.060                   |                                     |

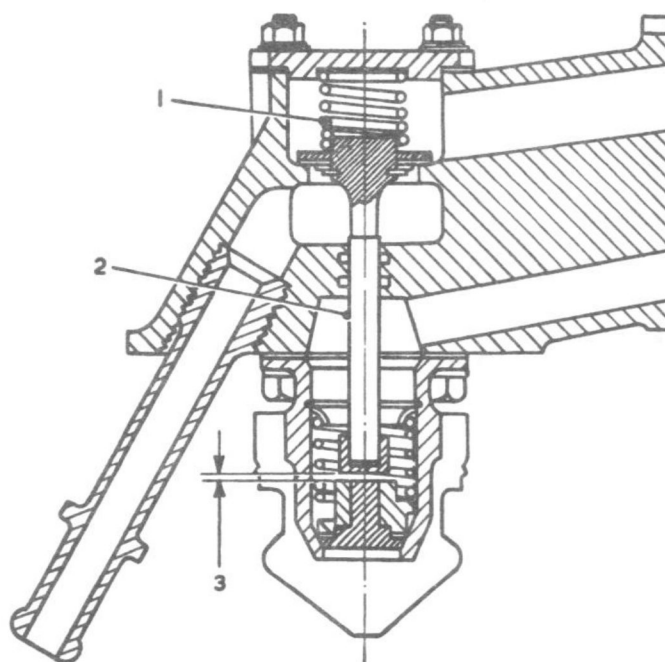


Fig. 1. Pressure re-oil valve



## Schedule 13

## AIR ASSISTANCE NON-RETURN VALVE

| Fig.<br>Ref. No. | Part and Description          | Dimension<br>New       | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks |
|------------------|-------------------------------|------------------------|----------------------------------|------------------|----------------------------------|---------|
| 1                | VALVE SPRING<br>Fitted length | 0.428<br>0.400         |                                  |                  |                                  |         |
|                  | Fitted load                   | 0.0087 lb<br>0.0063 lb |                                  |                  |                                  |         |
| 2                | VALVE PLATE THICKNESS         | 0.031<br>0.027         | 0.020                            |                  |                                  |         |

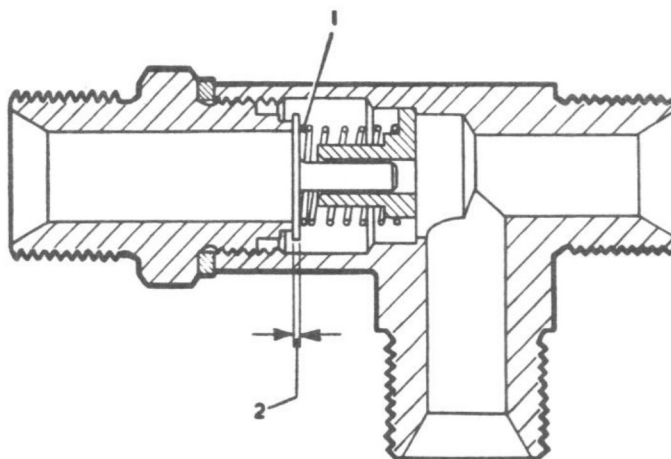


Fig. 1. Air assistance non-return valve



## Schedule 14

## FUEL PUMP

| Fig.<br>Ref. No. | Part and Description               | Dimension<br>New                     | Permissible<br>Worn<br>Dimension | Clearance<br>New         | Permissible<br>Worn<br>Clearance | Remarks                          |
|------------------|------------------------------------|--------------------------------------|----------------------------------|--------------------------|----------------------------------|----------------------------------|
| 1                | PUMP ROTOR SHAFT<br>Clearance—bore | $\frac{0.438}{0.4375}$               | 0.43825                          | $\frac{0.0005}{0.00125}$ | 0.0015                           | } $3\frac{1}{2}^\circ$ cam plate |
|                  | Shaft—dia.                         | $\frac{0.4370}{0.43675}$             |                                  |                          |                                  |                                  |
| 2                | PISTON SPRING<br>Fitted length     | $\frac{0.689}{0.531}$                |                                  |                          |                                  |                                  |
|                  | Fitted load                        | $\frac{11 \text{ lb}}{6 \text{ lb}}$ |                                  |                          |                                  |                                  |
| 3                | PISTON CLEARANCE<br>Bore—dia.      | $\frac{0.3755}{0.375}$               | 0.3757                           | $\frac{0.000}{0.001}$    | 0.0012                           |                                  |
|                  | Piston outside—dia.                | $\frac{0.375}{0.3745}$               |                                  |                          |                                  |                                  |
| 4                | BALL DIA.                          | 0.2500                               | 0.248                            |                          |                                  |                                  |

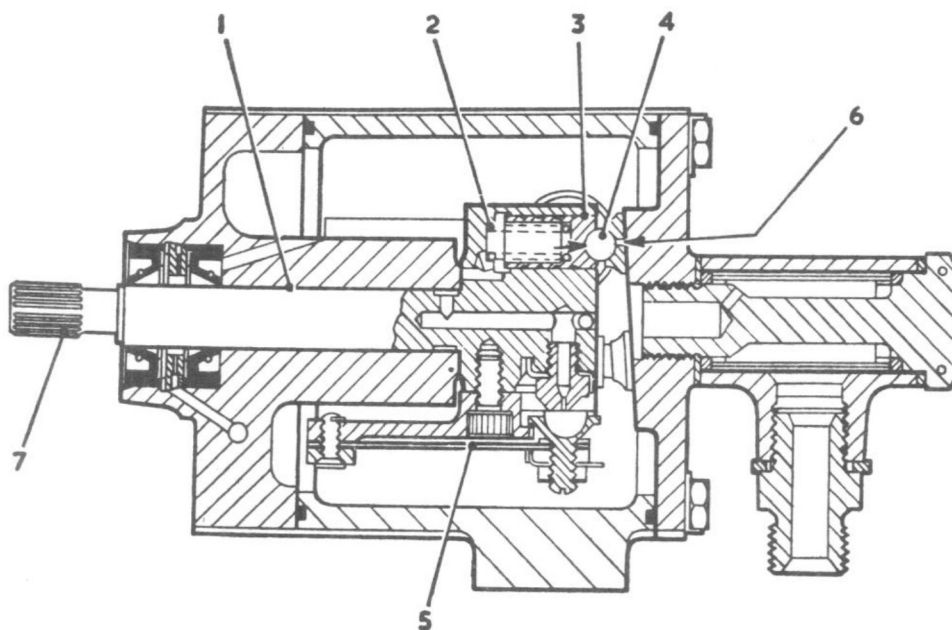


Fig. 1. Fuel pump

| Fig.<br>Ref. No. | Part and Description                           | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks                          |
|------------------|------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|----------------------------------|
| 5                | GOVERNOR LEAF SPRING<br>High speed fitted load | 13.35 lb         |                                  |                  |                                  |                                  |
|                  |                                                | 12.85 lb         |                                  |                  |                                  |                                  |
|                  | Low speed fitted load                          | 12.05 lb         |                                  |                  |                                  |                                  |
|                  |                                                | 11.55 lb         |                                  |                  |                                  |                                  |
| 6                | SLIPPER                                        | 0.291<br>0.301   | 0.287                            |                  |                                  | Measured with 0.250<br>dia. ball |
| 7                | PUMP ROTOR SHAFT<br>SERRATIONS OVER PINS       | 0.4274<br>0.4257 | 0.4227                           |                  |                                  | 0.0494 dia. pins                 |

## Schedule 15

## COMBUSTION CHAMBER

| Fig.<br>Ref.<br>No. | Part and Description                                            | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks |       |
|---------------------|-----------------------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|---------|-------|
| 1                   | FLAME TUBE AND<br>LOCATION SLEEVE<br>Location sleeve inner—dia. | 1.254            | 1.264                            | 0.008            | 0.020                            |         |       |
|                     |                                                                 | 1.252            |                                  |                  |                                  |         |       |
|                     | Flame tube head—dia.                                            | 1.250            | 1.244                            | 0.002            |                                  |         |       |
|                     |                                                                 | 1.246            |                                  |                  |                                  |         |       |
|                     | 2                                                               | BURNER SIT BACK  |                                  |                  |                                  |         | 0.055 |
|                     |                                                                 |                  |                                  |                  |                                  |         | 0.075 |
| 3                   | FLAME TUBE SUPPORTS<br>Outer casing—bore                        | 4.960            |                                  | 0.034            |                                  |         |       |
|                     |                                                                 | 4.952            |                                  |                  |                                  |         |       |
|                     | Flame tube supports—dia.                                        | 4.946            |                                  | 0.006            |                                  |         |       |
|                     |                                                                 | 4.926            |                                  |                  |                                  |         |       |
| 4                   | FLAME TUBE SKIRT<br>THICKNESS                                   | 0.036            | 0.027                            |                  |                                  |         |       |
|                     | VOLUTE ENTRY PANEL<br>THICKNESS                                 | 0.036            | 0.020                            |                  |                                  |         |       |
| 5                   | SUSPENSION PLUG<br>Location—dia.                                | 0.590            | 0.578                            | 0.003            | 0.022                            |         |       |
|                     |                                                                 | 0.586            |                                  |                  |                                  |         |       |
|                     | Location sleeve inner—dia.                                      | 0.597            | 0.600                            | 0.011            |                                  |         |       |
|                     |                                                                 | 0.593            |                                  |                  |                                  |         |       |

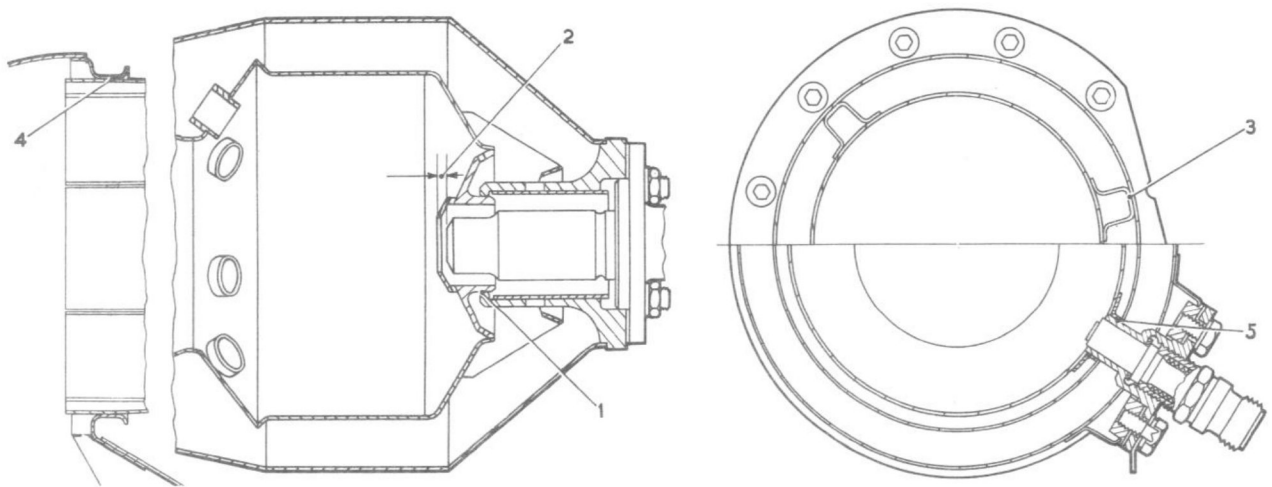


Fig. 1. Combustion chamber





## Schedule 16

## BLOWER UNIT ASSEMBLY

| Fig.<br>Ref.<br>No. | Part and Description                         | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks        |
|---------------------|----------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|----------------|
| 1                   | ROLLER BEARING IN<br>HOUSING<br>Housing—bore | 1·3777           |                                  | 0·0002           |                                  |                |
|                     |                                              | 1·3772           |                                  |                  |                                  |                |
|                     |                                              | 1·3780           |                                  |                  |                                  |                |
|                     |                                              | 1·3775           |                                  |                  |                                  |                |
| 2                   | ROLLER BEARING ON<br>SHAFT<br>Bearing—bore   | 0·5906           |                                  | 0·0002           |                                  |                |
|                     |                                              | 0·5902           |                                  |                  |                                  |                |
|                     |                                              | 0·5907           |                                  |                  |                                  |                |
|                     |                                              | 0·5904           |                                  |                  |                                  |                |
| 3                   | ROLLER BEARING<br>DIAMETRAL PLAY             |                  |                                  | 0·0011           | 0·0025                           | 3-spot bearing |
|                     |                                              |                  |                                  | 0·0015           |                                  |                |

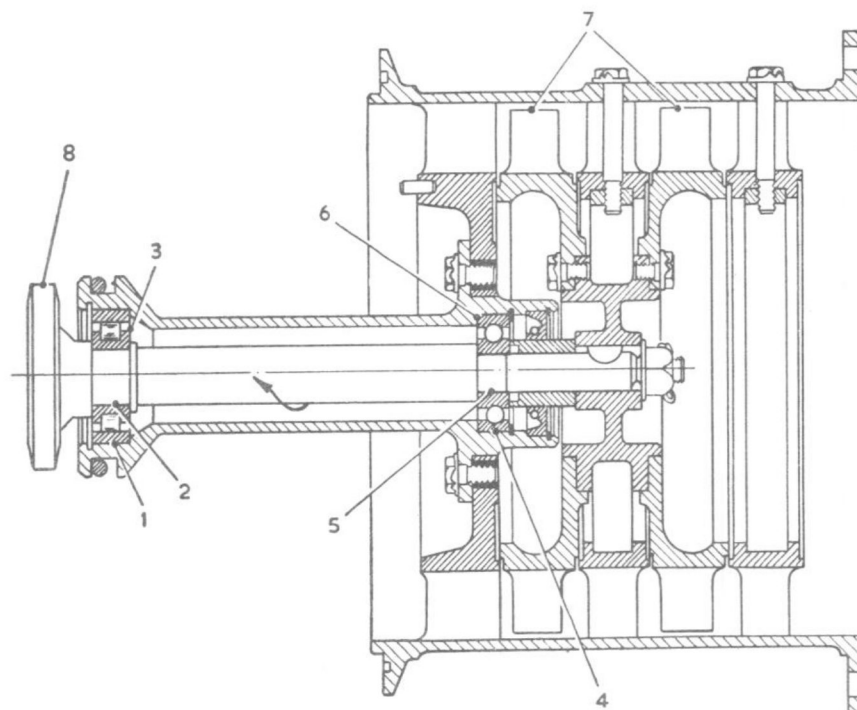


Fig. 1. Blower assembly

## BLOWER UNIT ASSEMBLY

| Fig.<br>Ref.<br>No. | Part and Description                                        | Dimension<br>New | Permissible<br>Worn<br>Dimension | Clearance<br>New | Permissible<br>Worn<br>Clearance | Remarks                                                                                                           |
|---------------------|-------------------------------------------------------------|------------------|----------------------------------|------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 4                   | BALL BEARING IN<br>HOUSING<br>Housing—bore                  | 1·1809           | }                                |                  |                                  |                                                                                                                   |
|                     |                                                             | 1·1804           |                                  | 0·0002           |                                  |                                                                                                                   |
|                     | Bearing outside—dia.                                        | 1·1811           |                                  | 0·0007           |                                  |                                                                                                                   |
|                     |                                                             | 1·1807           |                                  |                  |                                  |                                                                                                                   |
| 5                   | BALL BEARING ON<br>SHAFT<br>Bearing—bore                    | 0·3937           | }                                |                  |                                  |                                                                                                                   |
|                     |                                                             | 0·3934           |                                  | 0·0002           |                                  |                                                                                                                   |
|                     | Shaft—dia.                                                  | 0·3938           |                                  | 0·0004           |                                  |                                                                                                                   |
|                     |                                                             | 0·3935           |                                  |                  |                                  |                                                                                                                   |
| 6                   | BALL BEARING<br>ENDFLOAT                                    |                  |                                  | 0·003<br>0·006   | 0·009                            | 3-spot bearing.                                                                                                   |
| 7                   | IMPELLER TIP<br>CLEARANCE<br>Housing—bore                   | 5·4016           | }                                |                  |                                  |                                                                                                                   |
|                     |                                                             | 5·4000           |                                  | 0·036            |                                  |                                                                                                                   |
|                     | Impeller—dia.                                               | 5·364            |                                  | 0·042            |                                  |                                                                                                                   |
|                     |                                                             | 5·360            |                                  |                  |                                  | Radial clearance of<br>0·014 to 0·025. This<br>allows for eccentrici-<br>ties of 0·008 on total<br>clock reading. |
| 8                   | DRIVE GEAR TEETH<br>Variation from true<br>involute profile | 0·0002           | 0·0005                           |                  |                                  |                                                                                                                   |