

Chapter 24I

NOZZLE RING, DISMANTLING

Contents

Page

Nozzle ring assembly 1

Illustrations

Fig.

Nozzle ring components 1

THIS CHAPTER, which is applicable to both the Ghost 48 Mk. 1 and the Ghost 48 Mk. 2, contains instructions for dismantling the nozzle ring assembly, after it has been removed from the engine in accordance with the instructions given in chapter 23. The general information contained in chapter 22 should be referred to as necessary.

NOZZLE RING ASSEMBLY Fig. 1

When mod. 593 is embodied, tab washers will be fitted under the heads of the bolts, and under the nuts, which secure the turbine shroud to the nozzle shroud and the nozzle shroud to the nozzle ring assembly. The locking tabs must be turned down before any attempt is made to remove the nuts and bolts.

1. Remove the sixty nuts and bolts securing the turbine shroud to the nozzle shroud and remove the turbine shroud and the lifting eye.
2. Remove the seventy nuts and bolts that secure the nozzle shroud to the nozzle ring assembly; remove the four cooling air pipe support assemblies from their brackets which will be released during this operation.
3. Cut the locking wire and remove the twenty nuts and spherical seating washers situated on the inside of the support cylinder which are

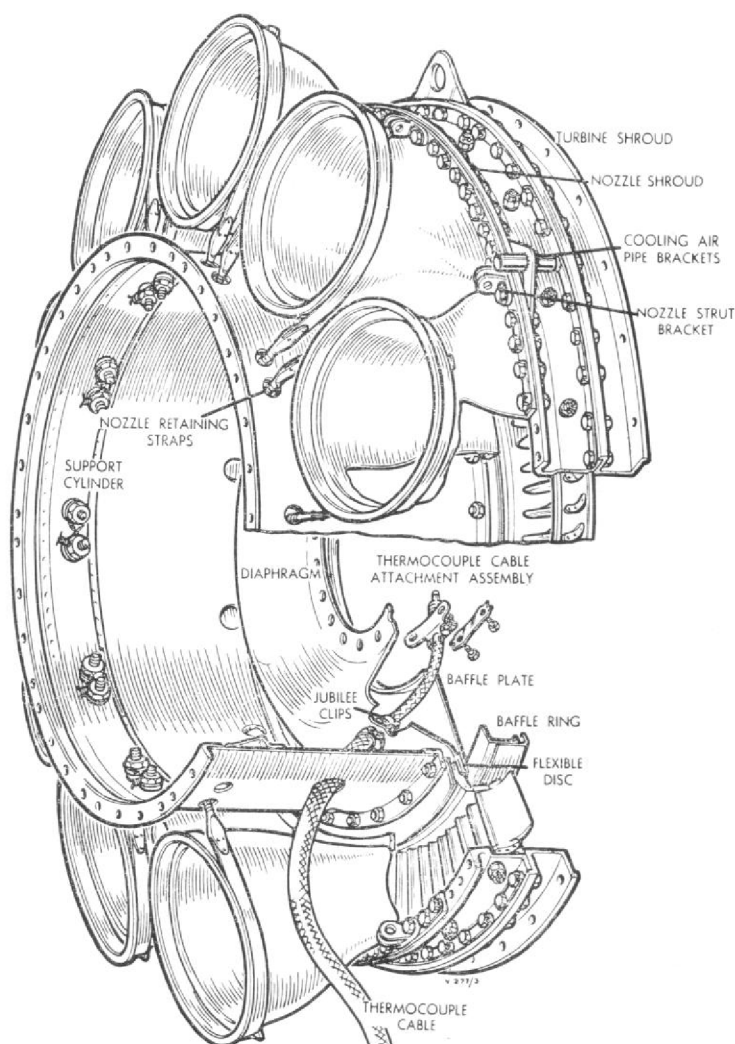


Fig. 1. Nozzle ring components.

utilized to secure the nozzle retaining straps ; remove the straps.

4. Remove the nuts from the thirty bolts that secure the support cylinder to the inner flange of the nozzle assembly and remove the tab washers and the bolts. Remove the baffle ring and the baffle plate which will have been released by this operation.
5. Remove the diaphragm with the thermocouple in position, at the same time gently easing the thermocouple through the hole in the support cylinder.
6. Remove the clip which prevents the outer end of the thermocouple lead from being drawn through the outer casing. Pull the rear bearing end of the thermocouple to draw the thermocouple through the outer casing, care being taken not to damage the thermocouple.
7. Unlock and remove the two 2 B.A. nuts, and bolts, the four tab washers and the two small clamps which position the thermocouple to the thermocouple bracket. Place the bracket, the bolts and nuts, and the two small clamps in a linen bag and tie them securely to the thermocouple.
8. Attach lifting sling T.79239 (48 Mk. 1) or T.79239 with adapter T.79240 (48 Mk. 2) to the nozzle shroud ; lift the shroud complete with the nozzle blade assembly clear of the discharge nozzle ; remove the flexible disc which will be resting on the inner flange of the discharge nozzle ; do not remove the thermocouple cable from the diaphragm at this stage. The flexible disc has a 22 inch central hole, and is in fact a flexible spring ring.
9. Separate the nozzle blade assembly from the nozzle shroud.
10. Remove the inner of the two Jubilee clips which secure the thermocouple outer sheath to the support cylinder and remove the outer sheath.
11. Separate the support cylinder from the discharge nozzle.
12. Place all loose parts in one box and mark the box with the appropriate engine number.

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