

Chapter 33

UP-LOCK JACK

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Introduction

1. This jack is spring-loaded to the closed position and hydraulically operated to the extended position against the spring pressure. A shuttle valve is attached to the jack to provide for operation by an emergency system in the event of failure of the normal hydraulic system. A basic type is described in the chapter and the variants are given in the appendices, together with the type number of the applicable shuttle valve.

2. The shuttle valve and its operation are described in A.P.1803U, Vol. 1, Book 4, Sect. 9.

the eye-bolt into the piston rod. The eye-bolt will be finally adjusted and locked after the unit is installed.

(6) Ensure that the sealing ring and backing ring are fitted to the shuttle valve spigot, with the rough face of the back-

ing ring adjacent to the sealing ring. Fit the fully tested shuttle valve to the jack by inserting the spigot into the bore of the body and securing with the bolts.

(7) After final assembly and test, wire-lock the end cap to the body and the shuttle valve securing bolts together.

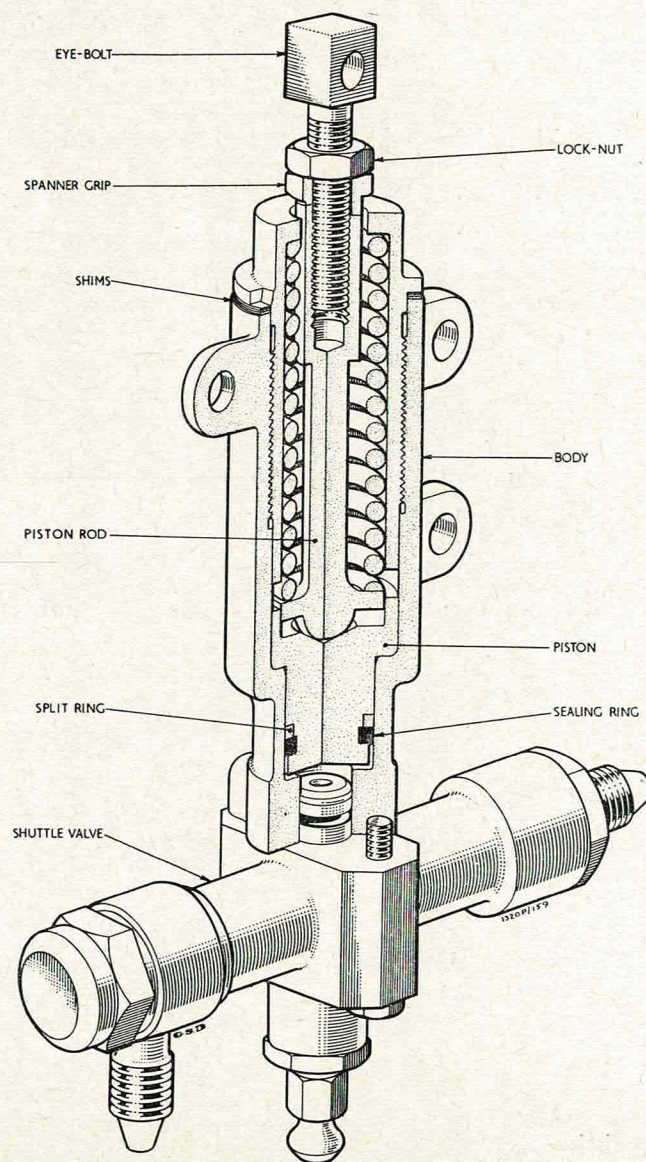


Fig. 1. Up-lock jack

Testing

7. A static hydraulic test rig and a power pump rig fitted with a pump capable of delivering 3.45 gal/min, are required. Pipes between the test rigs and the jack are to be $\frac{3}{8}$ in. outside diameter for metal pipes or $\frac{3}{8}$ in. nominal for flexible hose. Before testing, the jack is to be hydraulically operated at least six times to expel all air.

(1) Connect the supply line of the static hydraulic test rig to one of the shuttle valve connections and slowly apply a pressure of 300 lb/in². Gradually increase the pressure to 6,000 lb/in². Leakage is not permissible. Release the pressure and disconnect the supply line.

Appendix 1

UP-LOCK JACK Type No. 1.00533.002

incorporating—

Shuttle valve Type No. 1.00537.001

UP-LOCK JACK Type No. 1.00610.002

incorporating—

Shuttle valve Type No. 1.00612.001

1. These units are identical to the type described and illustrated in the chapter and differ from each other only in respect of the type of shuttle valve fitted.

Appendix 2

UP-LOCK JACK Type No. 1.00610.003

incorporating—

Shuttle valve Type No. 1.00612.002

1. This unit is similar to the type described and illustrated in the chapter, but differs in the fitment of high temperature seals.

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