

Chapter 2

SUPPLY HOSE

Part No. OP.7390

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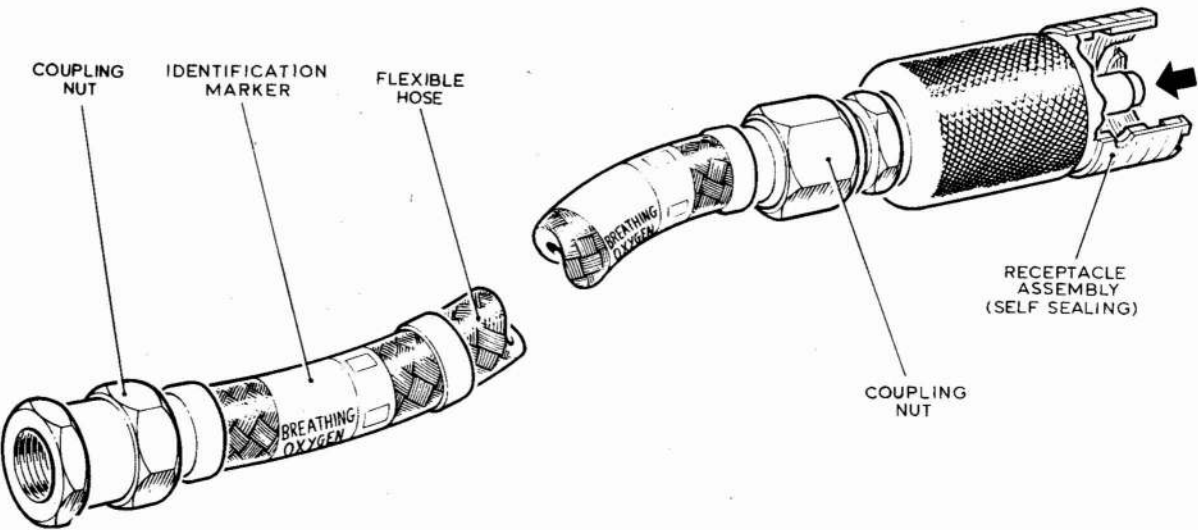


Fig. 1. Supply hose (Part No. OP.7390)

RESTRICTED

Introduction

1. This supply hose is employed in certain aircraft liquid oxygen installations to connect the outlet of a removable liquid oxygen converter to the aircraft oxygen supply system.

DESCRIPTION

2. The unit consists of a flexible hose which has a metal braided cover and a rotatable coupling nut fitted at each end. One coupling nut, at the hose inlet end, is secured to a self-sealing receptacle assembly which, when installed in the aircraft, engages with a plug assembly fitted to the liquid oxygen converter.

3. Identification markers are attached to the hose and a protection plug is fitted to the downstream nut coupling. The thread on this coupling nut is formed to suit a standard 60° internal cone AGS1100 fitting.

INSTALLATION

4. Information concerning the installation of the supply hose in the aircraft will be found in the relevant aircraft air publication. The protective plug should not be removed until immediately before connecting the hose to the aircraft system. The receptacle assembly must be free from moisture.

WARNING . . .

Many materials, particularly oil and grease, are subject to spontaneous combustion when exposed to undiluted oxygen under pressure. Precautions must, therefore, be taken to exclude oil, grease, dust or metal particles from the unit.

SERVICING

5. Routine servicing consists of examination of the hose for security of installation and freedom from deterioration, damage and corrosion. The receptacle assembly should be checked for correct engagement and locking.

Appendix 1
STANDARD SERVICEABILITY TESTS
for
SUPPLY HOSE
(Part No. OP.7390)

Introduction

1. The tests described in this Appendix should be applied before the supply hose is installed in aircraft, when the serviceability of the hose is in doubt and at the appropriate examination periods at Equipment Depots.

Test equipment

2. The following test equipment is required:—
- (1) Oxygen pressure gauge (Ref. No. 6C/264)
 - (2) Breathing oxygen test supply (300 lb/in²)
 - (3) Quick-disconnect plug assembly (Part No. 199000-2) which has satisfied the standard serviceability tests.

Particulars of tests

3. Soap solution for leak testing must be prepared in accordance with the instructions contained in, Part 1, Sect. 2, Chap. 1. Precautions must be taken to prevent the solution from entering the hose, and all traces of soap solution and moisture removed when each test is completed.

TEST PROCEDURE**WARNING . . .**

Many materials, particularly oil and grease, are subject to spontaneous combustion when exposed to undiluted oxygen under pressure. Precautions must be taken therefore, to exclude oil, grease, dust and metal particles from the unit and the test equipment.

Mechanical test

4. Check that the receptacle assembly of the supply hose can be engaged and locked, and disengaged from its mating quick-disconnect plug assembly without undue effort.

Leak test

5. Connect the breathing oxygen test supply (300 lb/in²) to the coupling nut at the downstream end of the hose, close the supply valve and check that there is no leakage from the hose and receptacle joint.

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