

## **Chapter 79**

### **Oil System**

## Table of contents

<b>79-00-00</b>	<b>GENERAL</b> .....	<b>3</b>
<b>79-10-00</b>	<b>INVERTED OIL SYSTEM</b> .....	<b>3</b>
79-10-01	Principles of Operation .....	4
<b>79-20-00</b>	<b>OIL COOLER</b> .....	<b>6</b>
79-20-01	Principles of Operation .....	6
<b>79-30-00</b>	<b>INSTALLATION</b> .....	<b>7</b>
79-30-01	Fittings .....	7
79-30-02	Flexible Hoses .....	10
<b>79-40-00</b>	<b>MAINTENANCE</b> .....	<b>12</b>
79-40-01	Reseating Valve Balls .....	12
79-40-02	Cleaning Inverted Oil System .....	12

## 79-00-00

## GENERAL

The EXTRA 200 is equipped with a modification of a Christen Inverted Oil System (CHRISTEN 801 series). The need for modification of the standard Christen 801 Inverted Oil System results from installation requirements for different system components of the Lycoming AEIO-360-A1E engine. Maintenance work or overhaul of the oil system requires consultation of the manufacturer. (see Chapter 01).

The lubrication system of the EXTRA 200 is equipped with an oil cooler (SW 8406 R) which is produced by the STEWART WARNER SOUTH WIND Corporation.

### IMPORTANT

**Before making installations and repairs to the aircraft plumbing, it is important to make accurate identification of plumbing materials. Refer to the respective Figures in this Chapter.**

General information concerning flexible hoses, fire sleeves, and fittings used in the Extra 200 oil system you find in Chapter 20.

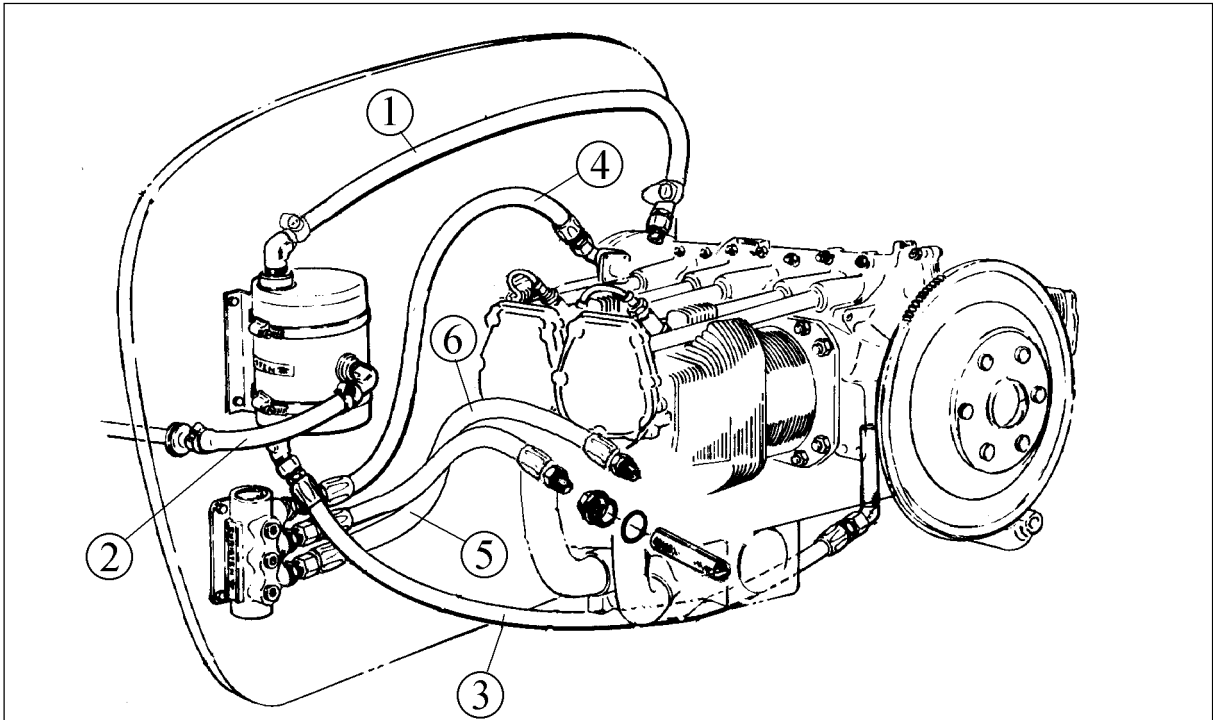
### IMPORTANT

**If replacement of oil lines is necessary, cover the oil lines of the engine department with AEROQUIP AE102 fire sleeves as per Chapter 20-10-07 in case of AEROQUIP-hoses are used (except the AEROQUIP 637/MIL-H 6000 hoses).**

**79-10-00**

**INVERTED OIL SYSTEM**

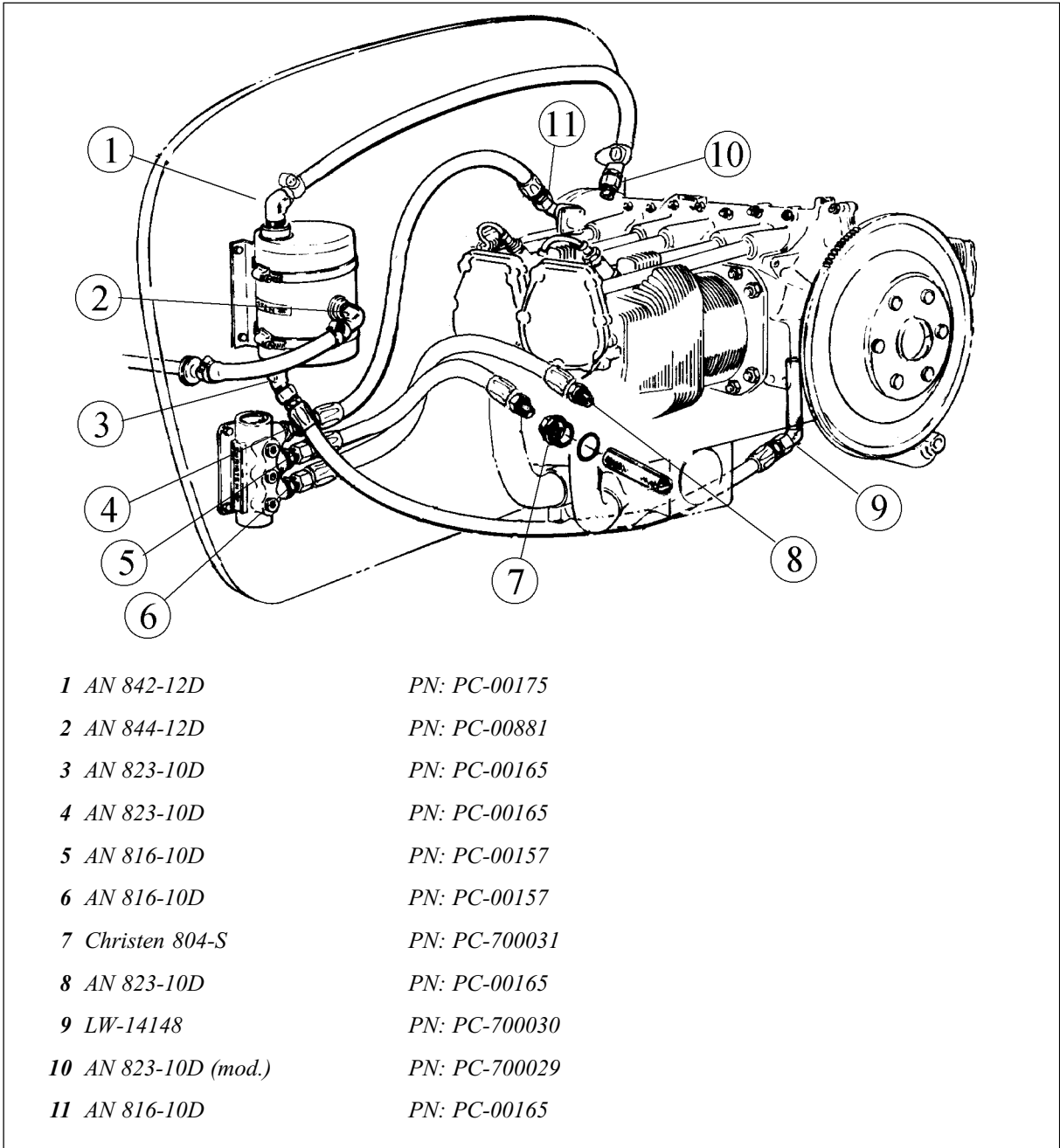
The hose and fitting installation is modified to the standard Christen Inverted Oil System. For identification of hoses and fittings refer to Figures 1-2.



1	AEROQUIP 637/ MIL-H 6000+	Hose clips	PN: PC-67207A1	hose lenght: 520mm
2	AEROQUIP 637/ MIL-H 6000+	Hose clips	PN: PC-67207A2	hose lenght: 350mm
3	AEROQUIP* 303-10 +	Hose Fittings 491-10D	PN: PC-67207A3	hose lenght: 720mm
4	AEROQUIP* 303-10 +	Hose Fittings 491-10D	PN: PC-67207A4	hose lenght: 530mm
5	AEROQUIP* 303-10 +	Hose Fittings 491-10D	PN: PC-67207A5	hose lenght: 320mm
6	AEROQUIP* 303-10 +	Hose Fittings 491-10D	PN: PC-67207A6	hose lenght: 400mm

\* Refer to Ch. 20-10-07

*Hoses of Inverted Oil System  
 Figure 1*



*Fittings of Inverted Oil System  
 Figure 2*

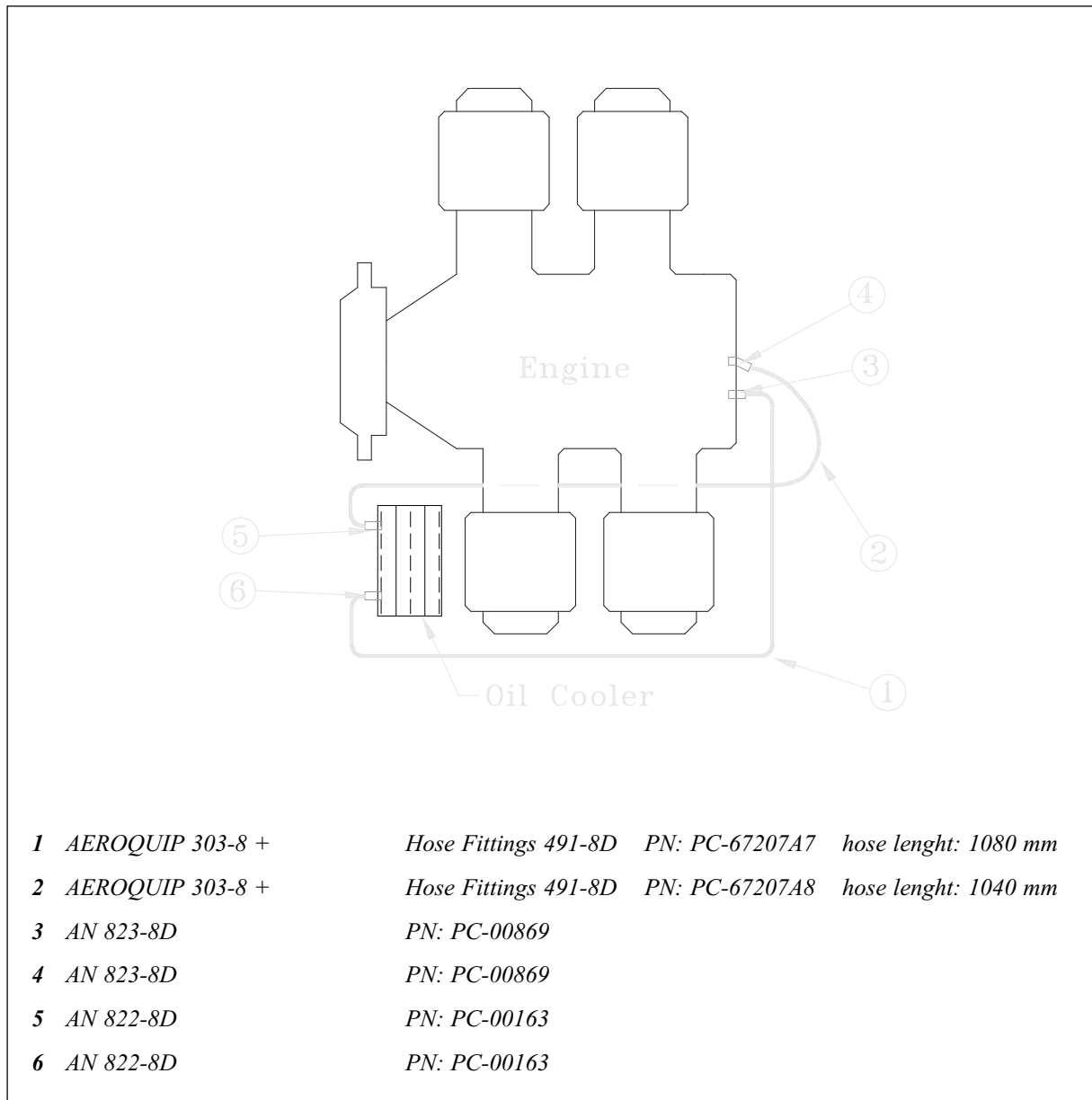
## 79-20-00

## OIL COOLER

The oil cooler which is mounted on the left engine front and is connected to the engine by flexible hoses.

In operation the hot lubricating oil leaving the engine is pumped by an engine-driven pump via the flexible hoses to the oil cooler and then back to the engine.

The flexible hoses of the oil cooling system are connected by AN Standard fittings with equal size (8D), but different connection angle. For identification of hoses and fittings refer to Figure 3.



*Hoses and Fittings of Oil Cooling System  
Figure 3*