

NOTE: *Only engineering aspects are ENAC approved. If inspection, modifications or technical prescriptions and their relative times of compliance are compulsory for ENAC, the sanction is in the relevant airworthiness directives.*

INFORMATION **RECOMMENDED** **MANDATORY**

SUBJECT: Thermostatic oil valve kit installation

SCOPE: In order to improve the oil system thermal conditions, a thermostatic oil valve kit is available upon request.

MODELS AFFECTED: P92 / P2002 All series

TIME OF COMPLIANCE: At Customer's choice

MANPOWER: 3 man-hours

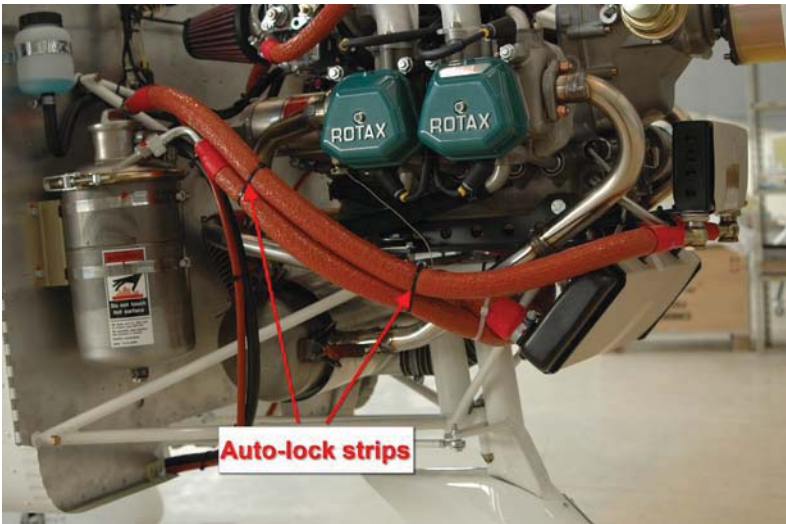
REQUIRED MATERIAL: KIT n° SB012

TOOLING: No special tools are required

WEIGHT AND BALANCE: Nil

REFERENCES: Nil

PUBBLICATIONS AFFECTED: Nil

N	INSTRUCTIONS																											
1	Park the aircraft in a closed hangar (be sure that parking brake is in "ON" position), remove the ignition key, remove the positive cable from the battery and proceed with following operations.																											
2	Prepare the KIT n° SB012: <table border="1" data-bbox="331 566 1385 913"> <thead> <tr> <th>P/N</th> <th>Description</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td>22-10-771-000</td> <td>Assy tube from tank to thermostatic oil valve</td> <td>1</td> </tr> <tr> <td>22-9-145-000</td> <td>Assy screen thermostatic oil valve fire protection</td> <td>1</td> </tr> <tr> <td>26-9-9000-000</td> <td>Assy thermostatic oil valve</td> <td>1</td> </tr> <tr> <td>22-10-772-000</td> <td>Assy tube from thermostatic oil valve to oil radiator</td> <td>1</td> </tr> <tr> <td>22-10-773-000</td> <td>Assy tube from thermostatic oil valve to metallic oil tube</td> <td>1</td> </tr> <tr> <td>22-10-750-000</td> <td>Assy metallic oil tube</td> <td>1</td> </tr> <tr> <td>22-11-910-003</td> <td>Assy tube from metallic oil tube to oil radiator</td> <td>1</td> </tr> <tr> <td>-----</td> <td>Serflex 12 X 22</td> <td>2</td> </tr> </tbody> </table>	P/N	Description	QTY	22-10-771-000	Assy tube from tank to thermostatic oil valve	1	22-9-145-000	Assy screen thermostatic oil valve fire protection	1	26-9-9000-000	Assy thermostatic oil valve	1	22-10-772-000	Assy tube from thermostatic oil valve to oil radiator	1	22-10-773-000	Assy tube from thermostatic oil valve to metallic oil tube	1	22-10-750-000	Assy metallic oil tube	1	22-11-910-003	Assy tube from metallic oil tube to oil radiator	1	-----	Serflex 12 X 22	2
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3	Remove the upper and lower engine cowlings.																											
4	Empty the Oil System. For detailed information see " <i>Line Maintenance Manual for Rotax Engine 912 Series</i> " latest issue part no. 899373.																											
5	Remove auto-lock strips indicated in the following picture: <div data-bbox="443 1216 1233 1738" style="text-align: center;">  </div> <p data-bbox="638 1749 1037 1783">Figure 1 – Auto-lock strips removing</p>																											

- 6 With reference to Figure 2 proceed with the following operations.

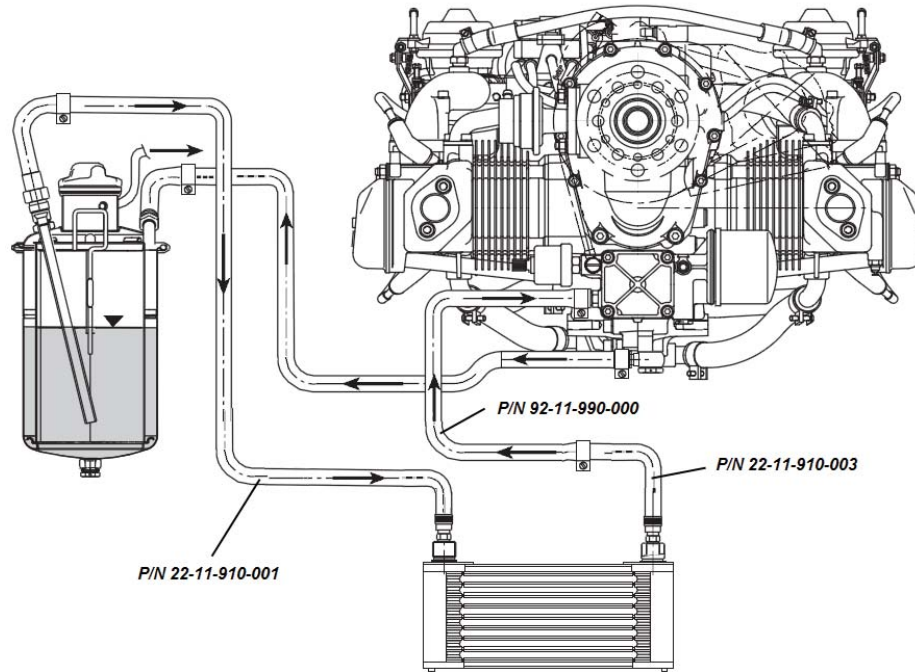


Figure 2 – Old oil system scheme

- 7 Remove the “Assy tube radiator-tank” P/N 22-11-910-001 indicated in Figure 3 and clean eventual oil leak using a cloth:



Figure 3 – P/N 22-11-910-001 removing

- 8** Remove the “Assy radiator tube” P/N 22-11-910-003 and the “Metallic elbow” 92-11-990-000 indicated in Figure 4 and clean eventual oil leak using a cloth:

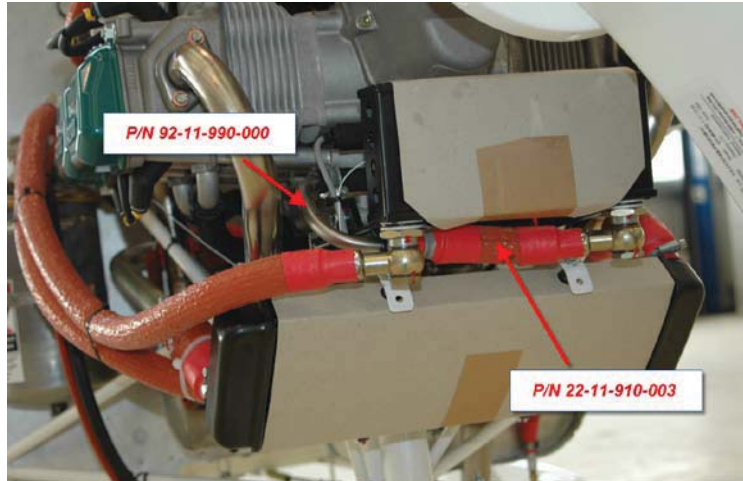


Figure 4 – P/N 22-11-910-003 and P/N 92-11-990-000 removing

- 9** Install the “Assy thermostatic oil valve” kit (P/N 22-10-700-000) with reference to Figure 5 and following scheme:

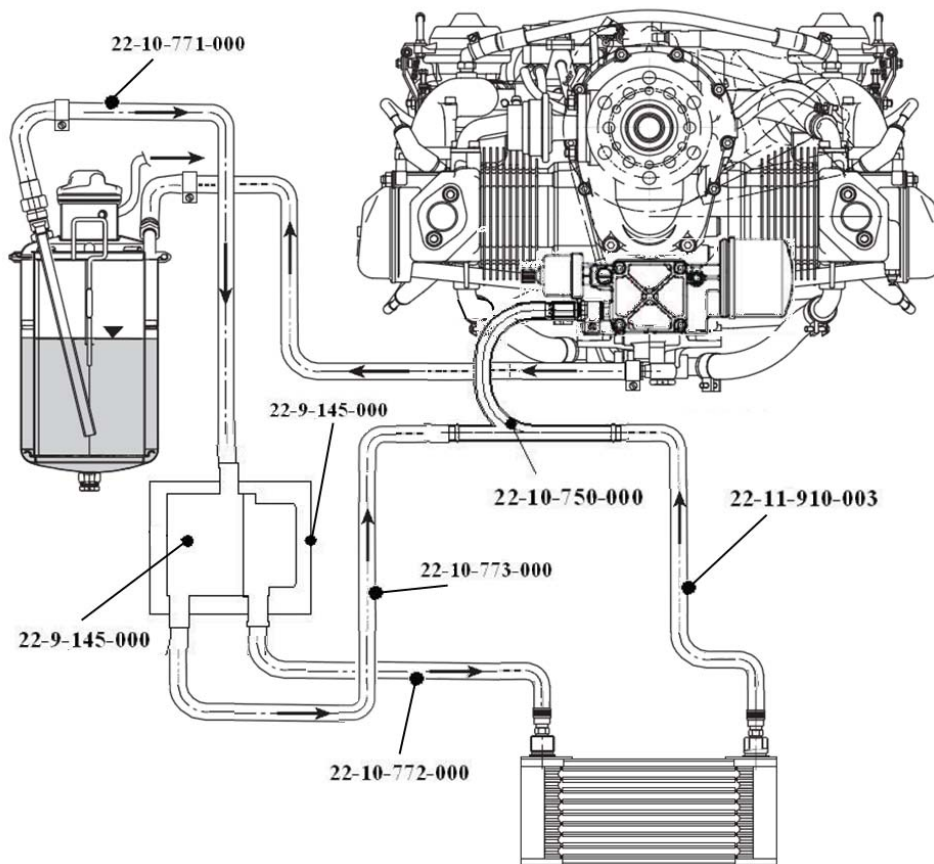


Figure 5 – Thermostatic oil valve scheme

- 10** Install the “metallic oil tube” (P/N 22-11-910-003) and the “Assy tube from metallic oil tube to oil radiator” (22-11-910-003) using a serflex for fitting as indicated in Figure 6.

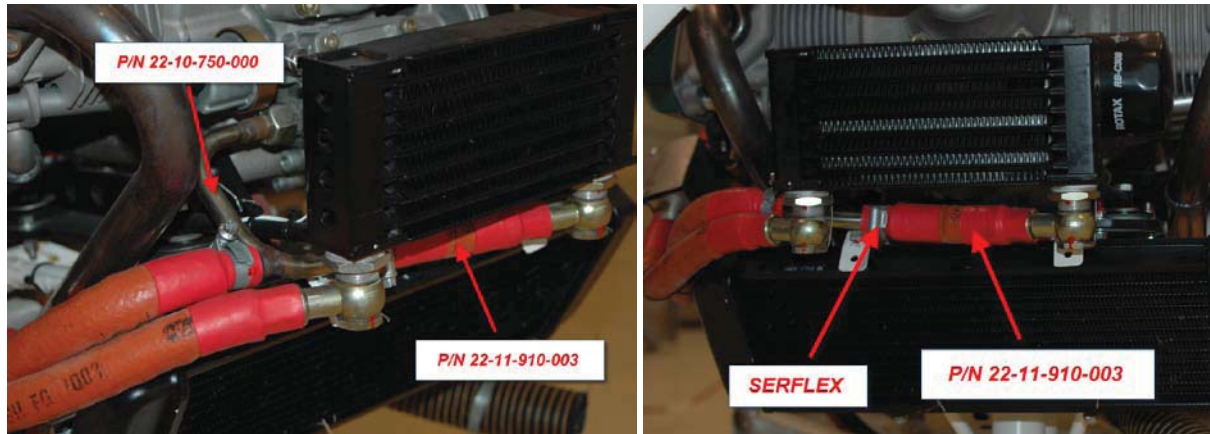


Figure 6 – P/N 22-11-910-003 and P/N 22-10-750-000 installation

- 11** Install the “Assy tube from thermostatic oil valve to metallic oil tube” (22-10-773-000) as indicated in Figure 7. Use a serflex to fit the new tube on the metallic oil tube.

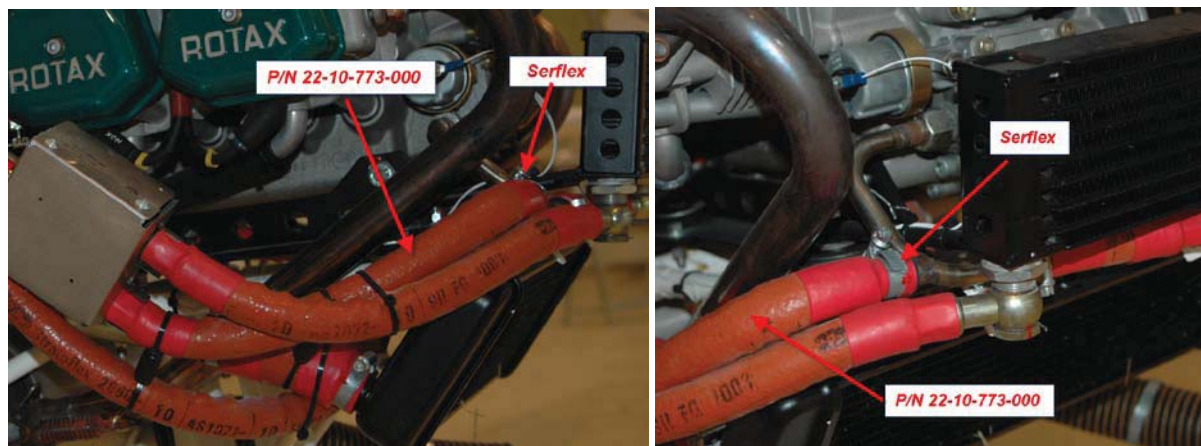


Figure 7 – P/N 22-10-773-000 installation

- 12** Install the “Assy tube from thermostatic oil valve to oil radiator” (22-10-772-000) as indicated in Figure 8.

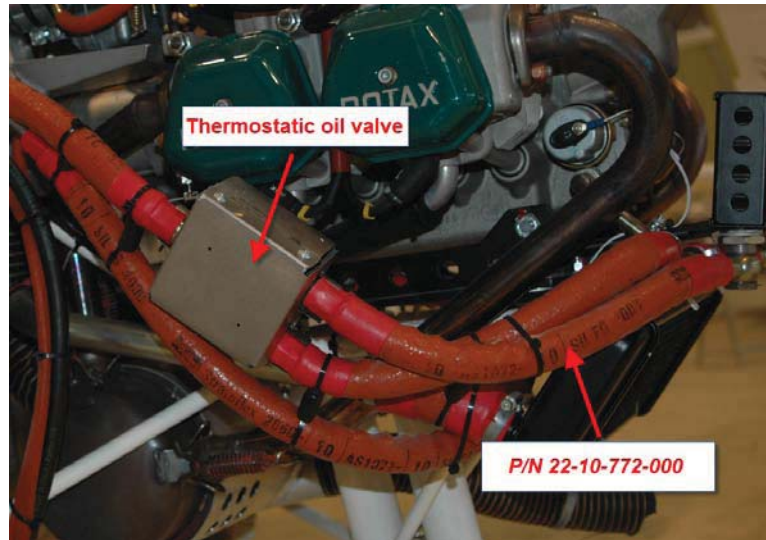


Figure 8 – P/N 22-10-772-000 installation

- 13** Install the “Assy tube from tank to thermostatic oil valve” (22-10-771-000) as indicated in Figure 9.

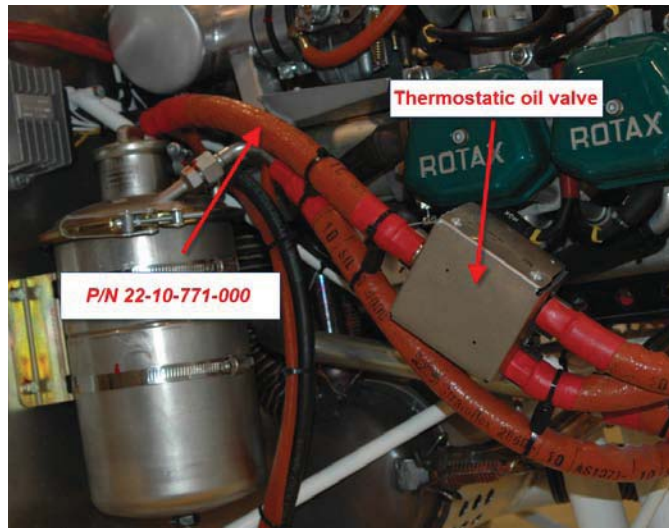


Figure 9 – P/N 22-10-771-000 installation

- 14** After the "assy thermostatic oil valve" installation secure the tubes with auto-lock strips (See Figure 10 as an example) and use hose spacers between oil tubes (See Figure 11 as example):

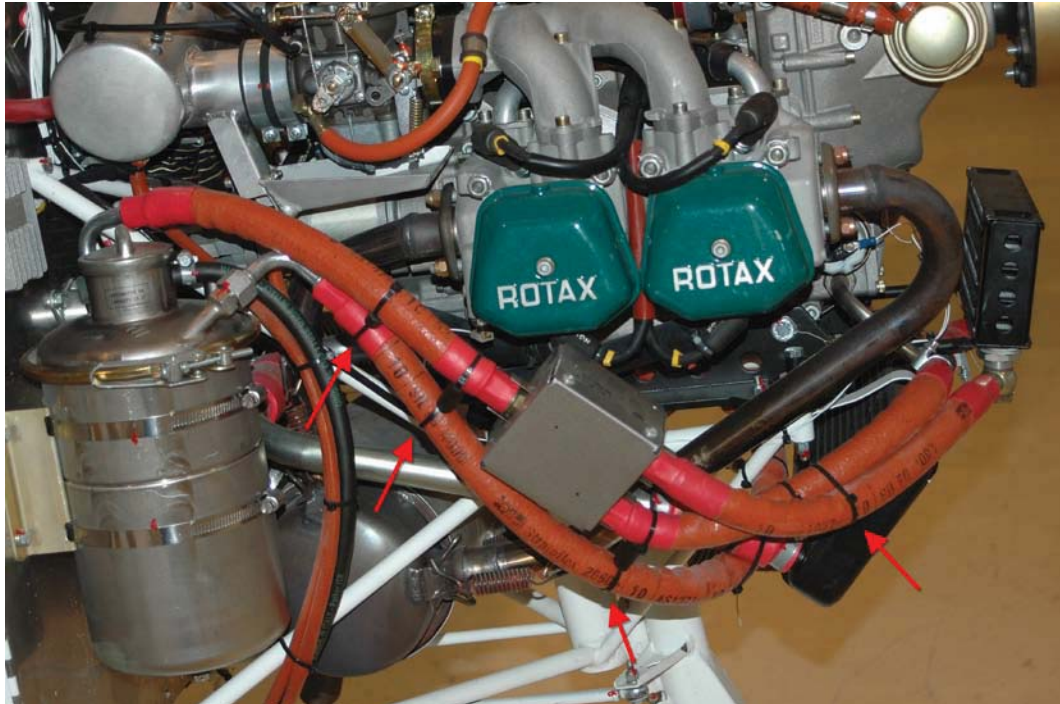


Figure 10 – Auto-lock strips installation



Figure 11 – Hose spacer installation

15	Fill the oil system. For detailed information see " <i>Line Maintenance Manual for Rotax Engine 912 Series</i> " latest issue part no. 899373 and " <i>Operators Manual for Rotax Engine 912 Series</i> " latest issue part no.899371.
16	Remove the oil tank cap and rotate propeller several times by hand counter clockwise (looking from the front at the propeller) to ensure that oil has been pumped back from the engine to the oil tank. This process is completed when air flows back to the oil tank. This air flow can be perceived as a murmur (gurgling) when the cup of the oil tank is open.
17	Check the oil level and refill if necessary.
18	Reinstall the oil tank cap.
19	Reinstall the upper and lower engine cowlings.
20	Start the engine and check the correct values of the oil temperature and of the oil pressure.
21	Record the application of the present Service Bulletin on the aircraft log-book.

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