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MANDATORY

**SERVICE
BULLETIN**

MANDATORY BULLETIN Z 142/48a

Engineering Aspects are
Czech CAA Approved

- 1. DATE:** February 25, 2002
- 2. EFFECTIVITY:** Change of low-pressure and high-pressure rubber hoses in the brakes, oil and fuel installation of the Z 142 aircraft after hoses service life time expiration or fail occurrence.
- 3. REASON:** Production end of PND, PN, ČSN 63 5388 and ČSN 63 5387 rubber hoses for manufacturing of low-pressure and high-pressure hose assemblies used on Z 142 aircraft.
- 4. CORRECTION:**
 - 4.1 Substitution of AEROQUIP hoses without service time limit for former low-pressure and high-pressure rubber hoses.
 - 4.2 Change in aircraft accompanying documentation.
- 5. TIME OF COMPLIANCE:**
 - 5.1 Change of hoses:
Immediately after service life time expiration or fail occurrence of low-pressure and high-pressure hoses in the brakes, oil and fuel installation.
 - 5.2 Change of pages in the accompanying aircraft documentation immediately after bulletin receipt.
- 6. ACOMPLISHED BY:**

Approved service organization – performs the hoses change.
Operator – performs change of pages in the accompanying aircraft documentation.
- 7. EXPENSES COVERED BY:** Operator
- 8. MATERIAL:**
 - 8.1 In fuel and oil installation, by degrees, remove old hoses and mount new AEROQUIP hoses according to Appendix No. 1 of Mandatory Bulletin Z 142/48a. Give more attention to change of Js 4 MoN 1825 hoses of 400 and 1490 mm length – heed to hose orientation according to throttle screw in the fitting cone.

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Accomplish leakage check according to Z 142 Repair Manual.
Operation liquid leakage is inadmissible!
Combination of original rubber hoses (if service life limit is not expired) with AEROQUIP hoses is admissible.

8.2 In brakes installation, by degrees, remove old hoses and mount new AEROQUIP hoses according to Appendix No. 1 of Mandatory Bulletin Z 142/48a.

AEROQUIP hoses No. AE 710393-1 (altogether 3 pcs with rectangular elbow fitting) mount as follows:

Mount the end with rectangular elbow to the brake actuators of left seat brakes control and to left brake actuator of right seat brakes control so that the hose elbow is directed forward in the flight direction.

Mount the hose No. AE 366 3773 E 0110 with straight fittings to right brake actuator of right seat brakes control. The hose must not be torsion stressed and must not hit neighbouring aircraft parts. To fulfill these conditions, additional forming of brake tubes attached to fuselage frame is admissible.

Fill and deaerate the brakes installation according to Z 142 Technical Manual. Verify the brakes function. Brake fluid leakage is inadmissible!

Combination of original rubber hoses (if service limit is not expired) with AEROQUIP hoses is admissible.

- 8.3 a) In the Z 142 Technical manual (Czech version):
- remove old pages 8; 103A
 - insert new pages marked with Rev. No. 19 with 25.1.2002 date
 - note this revision into the List of revision.
- b) In the Z 142 Technical Manual (English version):
- remove old pages 8; 103A
 - insert new pages marked with Rev. with 25.1.2002 date
 - note this revision into the List of revision.
- c) In the Z 142 Maintenance Manual (Czech version):
- remove old pages 3; 10; 238
 - insert new pages marked with Rev. No. 14 with 25.1.2002 date
 - note this revision into the List of revision.

Note:

Z 142 Repair Manual is issued only in Czech version.

9. NECESSARY MATERIAL:

- 9.1 Buy the AEROQUIP hoses according to Appendix No. 1 to Mandatory Bulletin Z 142/48a (see Enclosure) from aircraft manufacturer.
- 9.2 Operator obtains new pages of aircraft accompanying documentation all along the purchase of AEROQUIP hoses.

10. ENCLOSURES:

Appendix No. 1 to Mandatory Bulletin Z 142/48a.
New pages of the Z 142 Technical Manual:
8; 103A
New pages of the Z 142 Repair Manual
(only Czech version):
8; 10; 238



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Used in assmby drw. No. - name	Original hose specification	AEROQUIP hose specification	Note
Z 142.5310 Left Seat Brakes Control	4x180 ČSN 13 7822.1	AE 710393-1	
	4x180 ČSN 13 7822.1	AE 710393-1	
Z 42.5320 Right Seat Brakes Control	4x240 ČSN 13 7822.1	AE 710393-1	
	4x240 ČSN 13 7822.1	AE 3663773 E0110	Mount to right brake actuator
Z 142.7100 Oil Instalation	20x520 MoN 1823	AE 3663167 M0204	
	8x1150 ČSN 13 7821.3	AE 1011832 G0452	
	4x1490 MoN 1825	AE 3663167 E0585	
	13x630 ČSN 13 7821.3	AE 1011832 J0246	
	13x630 ČSN 13 7821.3	AE 1011832 J0246	
	13x340 ČSN 13 7821.3	AE 1011832 J0150	
Z 142.7210 Fuel Installation in Fuselage	20x430 ČSN 63 5387	AE 601 L0153	
	8x300 ČSN 13 7821.3	AE 1011832 G0125	
	6x400 ČSN 13 7821.3	AE 1011832 F0156	
	4x400 ČSN 13 7821.1	AE 1011832 E0176	
Z 142.7230 Fuel Installation in Left Wing	4x400 MoN 1825	AE 3663167 E0156	
	Z 42.7275	AE 3663773 G0132	Attach the hose to the vent tube by the wired hose clip of Ø 12 mm
Z 142.7240 Fuel Installation in Right Wing	Z 42.7275	AE 3663773 G0132	Attach the hose to the vent tube by the wired hose clip of Ø 12 mm
	Z 142.8270 Manifold Pressure Gauge installation	4x680 ČSN 13 7821.1	AE 3663773 E0294
4x680 ČSN 13 7821.1		AE 1011832 E0266	

Another necessary material for AEROQUIP hoses mounting:

- Wired hose clip Ø 12 16036 - 2 pcs
- Corrosion resistant wire Ø 0,8 17 246.4 - 5 m