



**ZLIN AIRCRAFT a.s.**  
Letiště 1578, 765 81 Otrokovice,  
Czech Republic  
e-mail: [zlin-service@zlinaircraft.eu](mailto:zlin-service@zlinaircraft.eu)  
<http://www.zlinaircraft.eu>

**MANDATORY**

**SERVICE  
BULLETIN**

**MANDATORY BULLETIN Z 43/45a**

- 1. DATE:** April 21, 2006
- 2. EFFECTIVITY:** Change of low-pressure and high-pressure rubber hoses in the brakes, oil and fuel installation of the Z 43 aircraft from S/N 0085 inclusive (i.e. from 4<sup>th</sup> series inclusive) 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 43 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. PROCEDURES:**
  - 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 43/45a. 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.

MANDATORY BULLETIN Z 43/45a

Accomplish leakage check according to Z 43 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 left seat brakes control system, by degrees, remove old hoses and mount new AEROQUIP hoses according to Appendix No. 1 of Mandatory Bulletin Z 43/45a. Proceed analogously also in case the aircraft is equipped with right seat brakes control system.  
Mount the end with rectangular elbow of AEROQUIP hoses No. AE 710393-1 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 when pedals of rudder control moving and must not hit neighbouring aircraft parts. To fulfil these conditions, additional forming of brake tubes attached to fuselage frame is admissible.  
Fill and deaerate the brakes installation according to Z 43 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 43 Technical manual (issued in 1991) (Czech version):
- remove old pages 0-3; 0-5; 5-3
  - insert new Revision pages with 8.12.2005 date (see Enclosures)
  - note this revision into the List of revision.
- b) In the Z 43 Maintenance manual (issued in 1996) (Czech version):
- remove old pages 0-3; 1-4; 5-25
  - insert new Revision pages with 8.12.2005 date (see Enclosures)
  - note this revision into the List of revision.

**Note:**

Z 43 Technical manual and Z 43 Maintenance manual are issued in Czech version only.

**9. NECESSARY MATERIAL:**

- 9.1 Buy the AEROQUIP hoses according to Appendix No. 1 of Mandatory Bulletin Z 43/45a (see Enclosures) from aircraft manufacturer.
- 9.2 New pages of aircraft accompanying documentation.

**10. ENCLOSURES:**

Appendix No. 1 to Mandatory Bulletin Z 142/45a.  
New pages of the Z 43 Technical manual (issued in 1991) Czech version:  
0-3; 0-5; 5-3

New pages of the Z 43 Maintenance manual (issued in 1996) Czech version:  
0-3; 1-4; 5-25



---

**Ing. Dušan Totek**

Chief Designer

**Contact address:**

**ZLIN AIRCRAFT a.s.**  
ZLIN Service  
765 81 Otrokovice  
Czech Republic

Used in assembly drw. No. - name	Original hose specification	AEROQUIP hose specification	Note
<b>Z 42.5310</b> Left Seat Brakes Control	4x180 ČSN 13 7822.1	AE 710393-1	
	4x180 ČSN 13 7822.1	AE 710393-1	
<b>Z 42.5320</b> Right Seat Brakes Control ( <i>optional</i> )	4x240 ČSN 13 7822.1	AE 710393-1	
	4x240 ČSN 13 7822.1	AE 3663773 E0110	Mount to right brake actuator
<b>Z 43.7300</b> Oil Instalation	20x520 MoN 1823	AE 3663167 M0204	
	8x800 ČSN 13 7821.3	AE 1011832 G0335	
	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	
	20/28 ČSN 63 5387, length 400 mm	AE 601 L0153	
<b>Z 43.7210</b> Fuel Installation in Fuselage	4x400 MoN 1825	AE 3663167 E0156	
	8x300 ČSN 13 7821.3	AE 1011832 G0125	
	6x400 ČSN 13 7821.3	AE 1011832 F0156	
	4x400 ČSN 13 7821.1	AE 1011832 E0176	
<b>Z 42.7270</b> Fuel Installation of Left Auxiliary Tank	Z 42.7275	AE 3663773 G0132	Attach the hose to the vent tube by the hose clip of Ø 12 mm
<b>Z 42.7280</b> Fuel Installation of Right Auxiliary Tank	Z 42.7275	AE 3663773 G0132	Attach the hose to the vent tube by the hose clip of Ø 12 mm
<b>Z 43.8270</b> Manifold Pressure Gauge installation	4x600 ČSN 13 7821.1	AE 3663773 E0294	Mount below the instrument panel cover
	4x680 ČSN 13 7821.1	AE 1011832 E0266	

Another necessary material for AEROQUIP hoses mounting:

- Wired hose clip Ø 12 16038 - 2 pcs
- Corrosion resistant wire Ø 0,8 17 246.4 - 5 m