



issues

MANDATORY BULLETIN No. Harmony-045a

- 1. CONCERNING TO:** *All Harmony LSA aircraft.*
- 2. REASON:** *Removing the oil cooler strut.*
- 3. REQUIRED ACTIONS:** *Remove the oil cooler strut according to the procedure in this bulletin.*
- 4. LATEST DAY OF THE ACTION:** *Immediately after receiving the bulletin.*
- 5. CARRIED OUT BY:** *Operator.*
- 6. COSTS COVERED BY:** *Operator - if they arise.*
- 7. NECESSARY MATERIAL:** *Material is not needed.*
- 8. WORK PROCEDURE:** *According to the procedure in this bulletin.*
- 9. APPENDICES:** *Without attachments.*

Valid from: 10.02.2026

1. Tools and materials

For disassembly, use the tools listed in the MM Harmony LSA in the individual chapters, an electric hand drill, a drill with a diameter of 4 mm, a 1 mm diameter punch for removing the rivet mandrel and a 3 mm diameter punch for punching out the rivet shank, and binding wire. Alternatively, an electric drill with a 90° angle attachment.

2. Work procedure

According to the relevant chapter of the MM Harmony LSA, dismantle the engine covers, both upper and lower.

At this stage, it is possible to very carefully drill out the 3.2x8.7 Be61-0411 rivets using an electric drill with a 90° angle attachment. Be extra careful when working so as not to damage the oil cooler. The procedure for drilling out the rivet heads is clear from detail E.

- knock out rivet mandrels
- drill out rivet heads
- knock out rivet shanks

Next, remove the silent block (17) secured by nuts (19) with washers (18). Remove the silent block (17). Release the clip (7) and remove the radiator hinge (1).

If a drill with an angle attachment is not available, continue according to the other instructions in this bulletin.

Drain the oil from the engine oil system according to the relevant chapter of the MM Harmony LSA. According to Fig.1, detail A in this bulletin, remove the silent block (17) secured by nuts (19) with washers (18).

Release the clip (7) and remove the radiator hinge (1).

Remove the silent block (17).

Cut the wire (22) detail B. Remove the Pyrojacket protective coating (21) detail B.

Release the hose clamp (16) detail B and D (view M).

Remove the hoses (20) detail B and D (view M) from the elbows (8) on the radiator (14). Plug the hoses.

Remove the elbows (8) from the radiator (14) detail C.

Remove the nuts (11) detail C.

Remove the washers (13) detail C, remove the radiator (14) with the cover (3) from the bracket (12).

Plug the radiator inlet and outlet openings with suitable plugs.

Place the radiator (14) on a workbench and remove the strut (2) by drilling out the heads of the 3.2x8.7 BE61-0411 rivets.

The procedure for drilling out the rivet heads is clear from detail E.

- knock out rivet mandrels
- drill out rivet heads
- knock out rivet shanks

Remove chips from the radiator surface and remove the plugs. Remove the plugs from the ends of the hoses.

Position the modified radiator (14) together with the radiator cover (3) and washers (13) to the bracket (12)

on the fire wall.

Install and tighten the nuts (11).

Install the elbows (8).

Slide the hoses (20) onto the elbows and secure with hose clamps (16).

Cover the joints with Pyrojacket (21) and secure with stainless steel tie wire (22).



Tighten the clamp (7).
Install the lower engine cover.
Add oil.
Perform an engine test and check the oil system for leaks.
Install the upper engine cover.

3. Influence on airplane documentation

Record the bulletin execution in the airframe logbook.

4. Influence on weight and balancing

Without influence

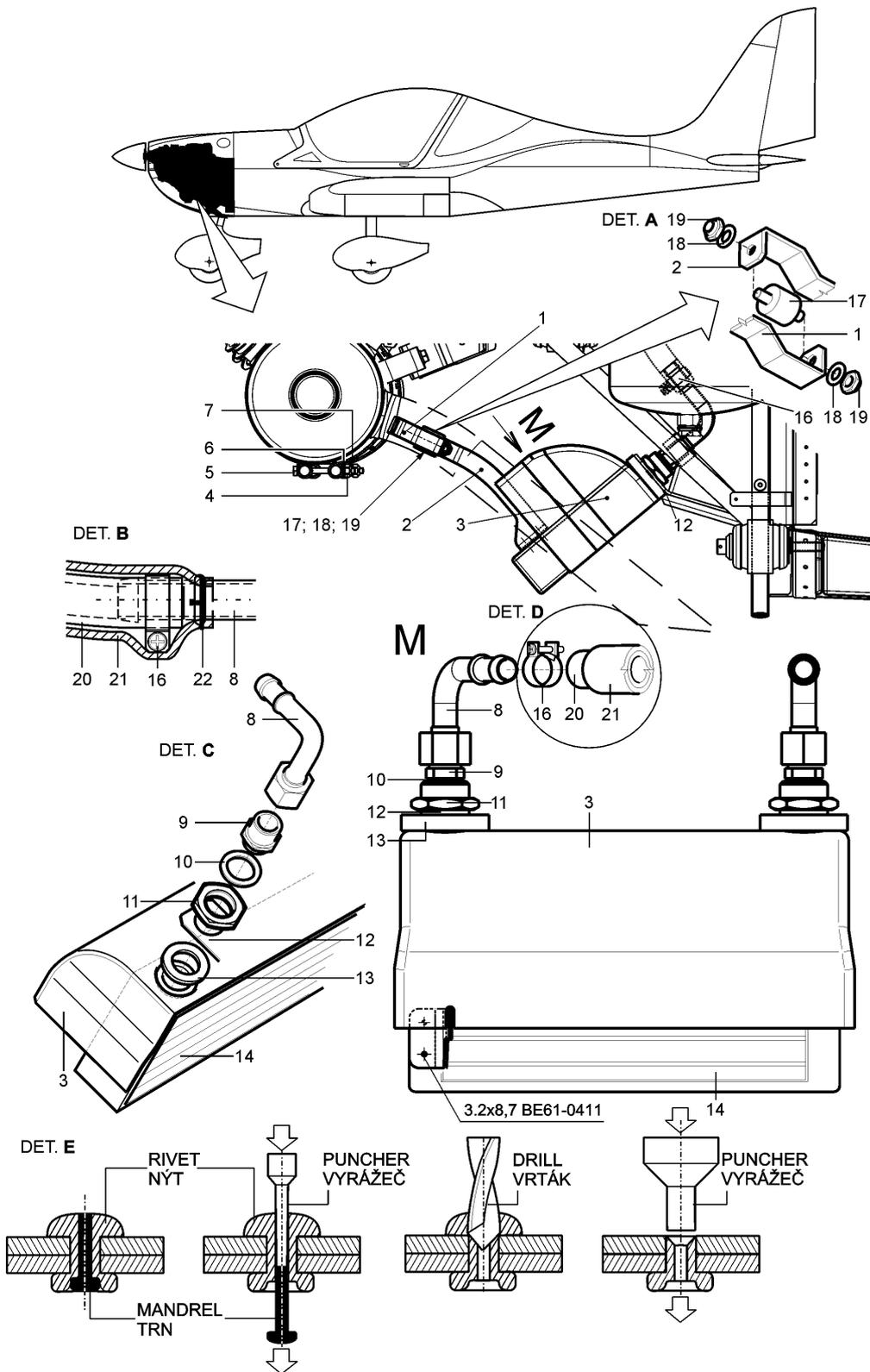


Fig. 1 Dismantling / installing the radiator



Item	Name	Item	Name
1	Oil cooler hanger	12	Radiator bracket
2	Oil cooler strut	13	Washer
3	Oil cooler cover	14	Oil cooler
4	Nut	15	-
5	Screw	16	Hose clamp
6	Washer	17	Silent block
7	Buckle	18	Washer
8	Radiator elbow	19	Nut
9	Reduction	20	Hose
10	Seal	21	Pyrojacket
11	Nut	22	Wire

Legend to Fig. 1 Dismantling / installing the radiator