

**4.2 Special Servicing Procedures and Equipment Subject to Service Life Limitations**

**Special Servicing Procedures**

At regular intervals of 5 years, the sealing rings and groove sealing rings of the water ballast valves must be checked, and replaced if required (see Fig. 2.4-1).

Brake line hoses of the "old type" must be replaced at regular intervals of 6 years. Should this hose be in good condition, it need not be replaced, if its condition is checked at least every 100 flying hours.

Brake line hoses of the "new type" have no service life time limitation.

The identification of the brake line hose type is possible by accomplishing technical note TN 21.

**Equipment subject to Service Life Limitations**

Tow Release Couplings

The tow release fitted at the C.G. is model TOST "Europa G 88" or "G 72" or "G 73" respectively,

The aerotow release is either the model TOST "E 22" (if installed at the tip of the fuselage nose) or one of the models TOST "E 85" or "E 72" or "E 75" (if installed between pedals and stick).

The above TOST tow releases must comply with the service life limitations between inspections as laid down in their respective authorized release certificates.

The relevant "Operations and maintenance instructions" issued by the manufacturer TOST must be complied with.

### 4.3 Airworthiness Limitations (Only applicable to U.S: registered aircraft)

This Airworthiness Limitations Section is FAA approved and specifies maintenance required under 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

In addition, this section is required by FAA Type Certificate Data Sheet Number G05CE and in accordance with the provisions of 14CFR Section 21.29.

The following components are time limited or limited by number of launches:

1. The FRP-structure (FRP = Fibre Reinforced Plastic) is limited to 12000 service hours. Extension seems to be possible in the future. Special inspections starting at 3000 service hours have to be performed. For details see chapter 4.1 of this manual.
2. The O-rings of the water ballast valves have a time limit of 5 years.
3. The brake line hose of the "old type" has a time limit of 6 years, which can be extended on a 100-hour inspection basis. The brake line hose of the "new type" has no service life time limitation. The identification of the brake line hose type is possible by accomplishing technical note TN 21.
4. For the TOST tow releases see instructions given by TOST with every individual tow release.
5. For oxygen supply systems regard the time limit of the individual pressure vessel as well as the individual overhaul time limits of the components.