 FLIGHT DESIGN <small>LIFT AIR ©</small>	<h2>Safety Alert</h2>
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Safety Alert

Problems with Fuel Selector Valve SA-ASTM-F2-LSA-02

Repeating Symbols:

Please pay attention to the following symbols throughout this document emphasizing particular information.

- ▲ **Warning:** Identifies an instruction, which if not followed may cause serious injury or even death.
- **Caution:** Denotes an instruction which if not followed, may severely damage the aircraft or could lead to suspension of warranty.
- **Note:** Information useful for better handling.

1 Planning Information

1.1 Affected Aircraft

Type:	F2
Model:	F2-LSA
Serial Number:	T-20-12-01, T-20-12-02, T-21-01-02, T-21-01-03, T-21-02-01, T-23-01-01 T-23-02-01, T-23-03-01, T-23-04-01, T-23-05-01, T-23-06-01, T-23-06-02
Applicable Countries:	Not limited


1.2 Concurrent Documents

- none -

1.3 Reason

The fuel selector valve on certain aircraft of the list in section 1.1 exhibited problems one or both of the problems described below:

1. The return fuel flow is not evenly divided into the left and right fuel tank when both fuel tanks are selected. This may lead to overfilling of one fuel tanks with the result that fuel is pumped over board.
2. Fuel supply is unreliable when either left or right fuel tank is selected. That may lead into fuel starvation and subsequent engine failure.

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1.4 Subject

Operation of the aircraft is only permitted with the following conditions:

- Selection of either left or right fuel tank.
- Fuel quantity min. 10USgal (40ltr).
- Correct return fuel flow into selected fuel tank verified in a ground test run: The fuel level of the tank that is not selected may not increase.
- Do not switch fuel tanks in flight. Fly on the verified tank selection only.
- Flight endurance permitted up to a fuel imbalance of 4USgal (20ltr).

▲ **Warning:** For your own safety, limit flight operations to absolutely required ferry flights to a location that will be agreed with Flight Design.

1.5 Compliance

This Safety Alert requires immediate action.

▲ **Warning:** Non-compliance with these instructions could result in further damages, personal injuries or death.

1.6 Approval

This SA is approved by the aircraft manufacturer i.a.w. ASTM F3198 for conduct on aircraft as defined in 1.1. Subsequent to complete and correct conduct of this SA the aircraft will still meet the requirements of the applicable ASTM design and performance specification.

1.7 Type of Maintenance

not applicable

1.8 Personnel Qualifications

not applicable

1.9 Release to Service


not applicable

1.10 Weight and Balance

not applicable

1.11 References

not applicable

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1.12 Superseded Documents

- none -

1.13 Contact Details

For further information on conduct of this SA, or to report any issues, contact your distributor responsible for your country. Your distributor can be located via the Flight Design general aviation website: www.flightdesign.com under "Dealer Location". In cases where the local distributor is not known or available contact Flight Design general aviation GmbH directly:

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1.14 Disclaimer

This Safety Alert has been generated with utmost care. Nevertheless errors and misunderstandings can never be fully excluded. In case of any doubts the applicant of this Safety Alert is requested to contact Flight Design immediately to clarify the issue.

2 Further Information

A Service Bulletin, which will include specific maintenance instructions, will follow. This upcoming Service Bulletin will supersede this Safety Alert and will include procedures for return to service without limitations beyond those specified in the pilot operating handbook.