

- Subject : Manual revision incl. emergency procedures and revised steps for the inspection procedure for increase of service time.
Installing the headrest securing ropes in the rear cockpit
Canopies - installation of gas-strut mechanism
Rudder pedals-loops (safety bows)
- Effectivity : Instructions 1-3: DG-500 all models, DG-500M all models
Instruction 4: DG-500 ELAN Trainer, DG-500 ELAN Orion
- Accomplishment : Instructions 1 and 2 latest October 31. 2008
Instructions 3 and 4 optional
- Reason : 1. Manual revision based on latest knowledge.
2. The headrest in the rear cockpit (option) is secured with ropes to prevent it from rotating so far forward that it can block the backwards movement of the control stick. Unfortunately we've been informed about operators who have disassembled the securing ropes from the lift pin tube for glider service work and reinstalled them incorrectly overlength. To eliminate this possibility of error a solution enabling fast disconnection and reconnection of the ropes without changing their length has been developed.
3. To prevent inadvertent closing of the canopies by strong cross winds from the right hand side gas-struts may be installed to hold the canopies open. The connectors of the gas-struts are designed to pop out during an emergency canopy release.
4. Experience has shown that for aerobatics the loops (safety bows) at the rudder pedals are not necessary. As the loops are bothersome during normal operation the loops may be removed.
- Instructions : 1. Manual revision: Exchange the following manual pages against new pages issued May 2008 marked with TN348/20 resp. 843/28. Respect the changes marked in the hand margin.
DG-500/22, DG500/20
Flight manual: 0.1, 0.3, 0.4, 2.6, 3.1-3.4, 4.1, 4.7, 4.15, 7.1, 7.7, 7.8,
Maintenance manual: 1-4, 7, 11, 19, 23, 24, 37, 37a
DG-500 ELAN Trainer:
Flight manual: 0.1, 0.3, 0.4, 2.6, 2.7, 3.1-3.4, 4.1, 4.5, 4.11, 7.1, 7.7, 7.8
Maintenance manual: 1-4, 7, 17, 21, 22, 35, 35a
DG-500 ELAN ORION:
Flight manual: 0.1, 0.3, 0.4, 2.6, 2.7, 3.2-3.4, 4.1, 4.7, 4.15, 7.1, 7.8,
Maintenance manual: 1-4, 7, 18, 22, 23, 36, 36a
DG-500MB
Flight manual: 0.1, 0.3, 0.5, 3.2, 4.8, 7.1, 7.18, 7.19
Maintenance manual: 1-4, 24, 38, 43, 60, 89, 89a
DG-500M
Flight manual: 0.1, 0.3, 0.4, 0.5, 2.8, 3.1, 3.2, 3.4-3.7, 4.1, 4.8, 4.25, 7.1, 7.16
Maintenance manual: 1-5, 9, 13, 38, 42, 43, 49, 59, 89, 89a, diagram 14
2. Modification of the headrest securing ropes in the rear cockpit (if installed) according to working instruction No. 1 for TN348/20.
3. Installation of canopy gas-strut mechanism according to working instruction No. 2 for TN348/20.
4. The loops (leather straps) at the rudder pedals may be removed by cutting them close to the rivets e.g. with a sharp knife.
- Material : 1. Manual pages see instruction 1.
2. Working instruction No. 1 for TN348/20, further material see material list in the working instruction.
3. Working instruction No. 2 for TN348/20, further material see material list in the working instruction.

Weight and balance : influence negligible

Remarks : Instructions No. 1+2+4 may be executed by the pilot/owner himself and are to be inspected and entered in the aircraft logs by a licensed inspector at latest with the next annual inspection.

Instruction No. 3 is to be executed by the manufacturer or by a licensed workshop and is to be inspected and entered in the aircraft logs by a licensed inspector after execution prior to glider operation.

When retrofitting a headrest in the rear cockpit according to TN348/5 resp. 843/6 the installation of the securing ropes must be accomplished according to working instruction No. 1 for TN348/20.

Bruchsal, date: July 1..
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