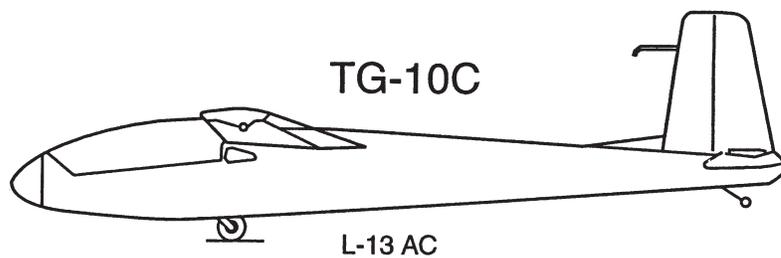
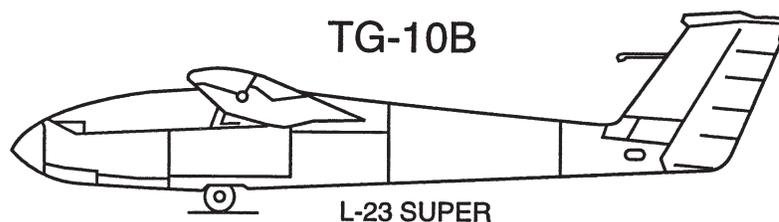

USAF SERIES

ASSEMBLY/DISASSEMBLY PROCEDURES

TG-10B/C SAILPLANES

F05611-00-DM-003



Prepared by USAFA
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PART I

**TG-10B (L-23 SUPER BLANIK) & TG-10C (BLANIK L13AC)
ASSEMBLY/DISASSEMBLY**

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INTRODUCTION

This checklist is for TG-10B and TG-10C assembly/disassembly.

CAUTION

Experience shows that most damage to equipment occurs within the first few uses before the operator becomes familiar with it. Most often this is the result of handling the equipment before reading the manuals and not following checklists.

Use the following instructions to assemble/disassemble the TG-10B (L-23 SUPER BLANIK) and TG-10C

(Blanik L-13AC) wings. The only difference between TG-10B and TG-10C assembly/disassembly instructions is the horizontal stabilizer assembly, which will be addressed in the horizontal stabilizer section, and the wing tip installation/removal, addressed in the wing tip installation/removal section.

Two type trailers are used, one is called the TG-10B trailer for the TG-10B, and the other is the TG-10C trailer for the TG-10C. (See Figures 1 and 2.)

WARNING

Remove all finger rings prior to assembly/disassembly.



Figure 1. TG-10B Trailer



Figure 2. TG-10C Trailer

TG-10B/C

CAUTION

Use a minimum of 4 people to assemble/disassemble the TG-10B and TG-10C. Recommend using 5 people if available.

NOTE

- The TG-10C trailer has a vertical stabilizer extension on the top.
- During sailplane trailering and untrailerling reinstall/secure all trailering hardware back to their original locations to prevent loss of equipment.

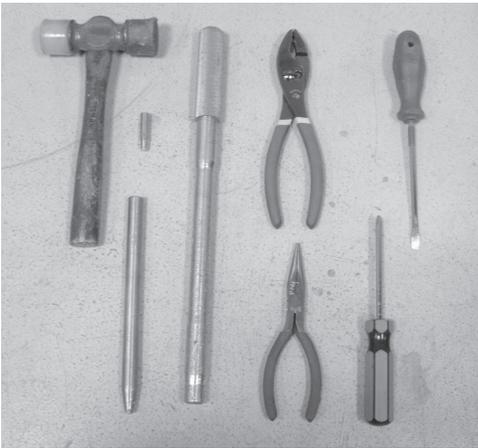


Figure 3. TG-10B/C Assembly/Disassembly Tools

TG-10B AND TG-10C GLIDER ASSEMBLY CHECKLIST

PREPARATION

1. Park the trailer so that there is a sufficient unobstructed area at the tail of the trailer on a level surface.

CAUTION

When practical, park the trailer parallel to the wind direction.

2. Visually inspect the trailer.
3. Trailer Front Access Door - Open and Secure
4. Install the hitch wheel.



Figure 4. Trailer Front Access Door

5. Apply wheel brake on the trailer.
6. Wheel Chocks - Install
7. Disconnect the trailer from the vehicle.
8. Insert the long support leg located on the front wall of the trailer.

CAUTION

It will need to support your weight inside the trailer.

9. Open/secure back door.
10. Raise the trailer nose.

NOTE

Raise the nose high enough until the rear of the trailer touches the ground.

11. Tighten support leg locking handle to prevent the long support leg from sliding.
12. Ensure foam padding is available.
13. Remove/discard all safety wire from trailering hardware and from the fuselage nose-chain turnbuckle (5 for TG-10B, 4 for TG-10C).
14. Remove/secure all foam padding.
15. Loosen the fuselage nose-chain turnbuckle.
16. Unhook the fuselage nose-chain turnbuckle from the front aerotow release.



Figure 5. Fuselage Nose-Chain Turnbuckle

TG-10B/C

17. Unfasten the fuselage tail strap (TG-10B) or tail through-bar (TG-10C) (Figures 6 and 7) from the tail support cradle.



Figure 6. TG-10B Tail Support Cradle



Figure 7. TG-10C Tail Support Cradle



Figure 8. TG-10C Tail Support Cradle Installed

18. Loosen the tail support cradle trailering hardware from the floor.
19. Move the aircraft fuselage approximately 1/4 of the way out of trailer (ensure tail is clear of trailer).
20. Lift the tail several inches.

CAUTION

Do not hit the top of the vertical stabilizer on the trailer.

21. Remove the tail support cradle from underneath the fuselage and place hardware out of the way.
22. (TG-10C ONLY) Reinstall tail through-bar into tail support.

CAUTION

Do not drop pedestal on the fuselage.

FUSELAGE UNLOADING

1. Pull the fuselage out of the trailer. Ensure that it travels straight until the fuselage dolly stops on the trailer.

CAUTION

- Ensure that the fuselage does not scrape the wings, vertical stabilizer, or elevator.
 - Do not hit the top of the trailer.
2. Two people hold onto and lift the fuselage dolly over the trailer ramp trailing edge, roll the fuselage out of the trailer.
 3. Roll the fuselage out until there is ample room.
 4. Deleted.
 5. Ensure the gear is up and locked.



Figure 9. Fuselage Dolly

CAUTION

Steady the vertical stabilizer in case of wind gusts.

6. Clean out the pin holes.
7. Lubricate the pin holes.
8. Locate the bag with wing and horizontal stabilizer pins in the forms pouch.
9. Clean, lubricate, and prepare pins. Lay the pins on a clean surface.
10. Remove/secure foam padding in aileron push-rod section.
11. Remove/discard aileron knuckle bearing safety wire.
12. Remove/secure bonding strap screw.
13. Connect battery (if required).
14. Turn on oxygen bottle (if required).

WING UNLOADING

1. Unload the left wing first.

CAUTION

Ensure that the aileron gust lock is correctly installed.

2. Release wing-tip strap.

NOTE

Do not remove the wing tip dolly screw.



Figure 10. Wing-Tip Strap

3. Remove/secure the trailing hardware at the wing root mount.

WARNING

- Stabilize aileron to prevent inadvertent strikes and or movement.
- During gusty or high wind conditions, ensure there are sufficient people available to stabilize the wing and aileron.

CAUTION

- Watch for trailer door clearance; do not lift the wing too high.
 - Be careful not to catch the aileron on the trailer.
4. Insert wing alignment tool in the wing pin holes.

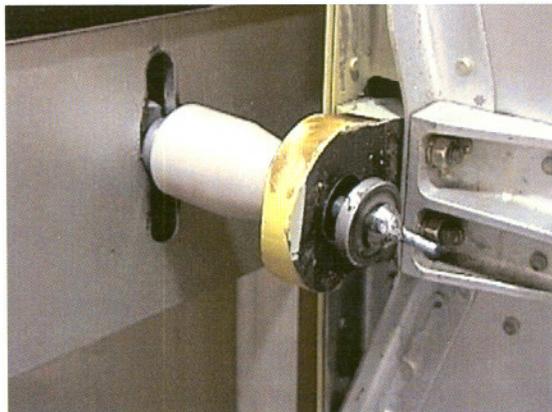


Figure 11. Wing Root Mount

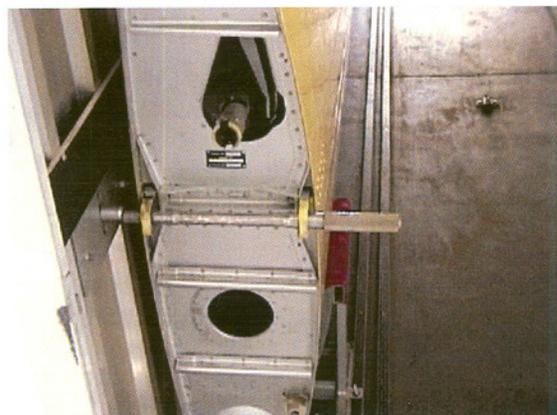


Figure 12. Wing Alignment Tool in Wing Pin Holes

TG-10B/C

5. Designate a person at the wing root to give alignment commands.
6. Pull and then lift the wing root off of the wing root mount.

CAUTION

Two people lift the wing. Place one person at the wing root and one person at the wing tip.

NOTE

The wing may need to be tilted slightly towards the center of the trailer.

7. Remove the wing from the trailer.

CAUTION

- Be careful not to catch the aileron or tie-down ring on the trailer.
- Do not scratch the fuselage with the wing setting tool.

NOTE

If you need to put the wing root down, rest it on a padded surface.

8. Using 3 people (1 at the wing tip and 2 at the wing root), rotate the wing to properly align with the fuselage.
9. Remove tape from the airbrakes.
10. Accomplish this step if not immediately attaching the wing or if attaching the TG-10B wing tip extension.
 - a. Put padding down near the wing root and wing tip.
 - b. Lower the wing to the ground on the padding.



Figure 13. Left Wing Installation

11. Repeat steps 2-10 for right wing.

WING INSTALLATION

1. Inspect aileron and airbrake attachment areas for Foreign Objects (FO)/Damage.
2. Adjust airbrake handle (in cockpit) so that the connection at wing root is horizontal.

NOTE

This may need to be repeated during the alignment process.

3. Align the wing with the fuselage.
 - a. Place one person on wing tip.
 - b. Place two people at wing root (one at the trailing, the other at the leading edge).
 - c. Place one person opposite the wing being mounted to steady the fuselage. (Figure 14)
 - d. Remove wing alignment tool.
 - e. Lift the wing, rotate as necessary, and align its root with the fuselage mounts.

WARNING

Do not put your finger or any other appendage near the wing root trailing edge.

TG-10B/C

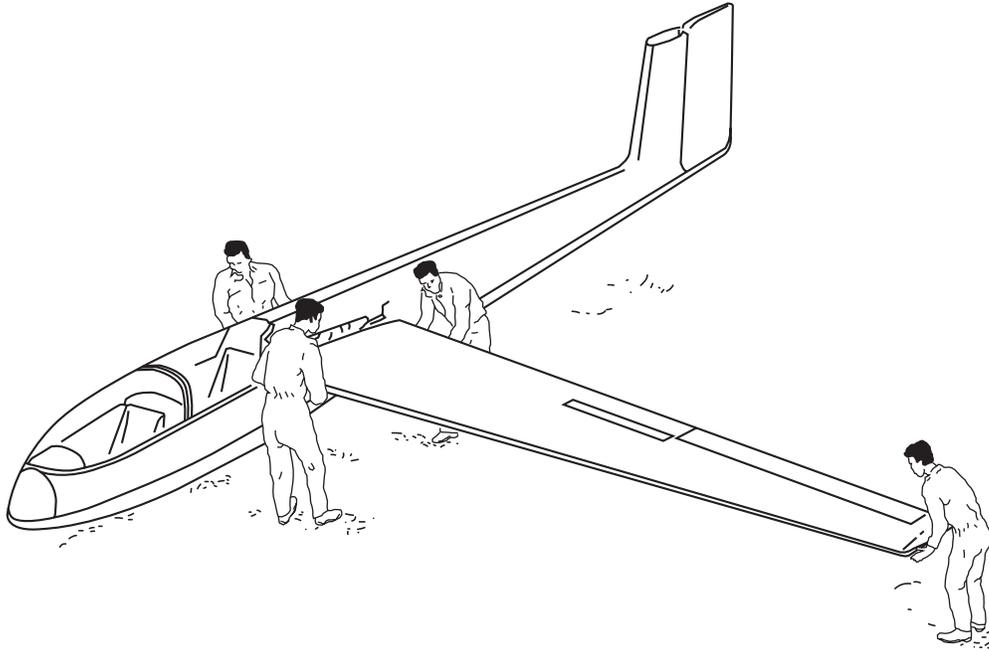


Figure 14. Wing Installation Personnel Position

NOTE

Make sure the gap between the wing trailing edge root fairing and the fuselage fairing is parallel and about 1/4 inch wide.

4. When the wing mounting holes are aligned, insert the wing alignment tool.
 - a. With a circular motion of the handle, fine-tune the alignment until the wing alignment tool can be rotated freely and it is fully inserted.
 - b. Pull the wing alignment tool out.

NOTE

Maintain precise position during entire wing alignment process.

- c. Insert the main wing pin.

CAUTION

Never hit the pin with a steel hammer.

NOTE

- The holes at the bottom of the pin should line up parallel with the fuselage.
- Tap it in with a rubber mallet.
- Lie under the wing and tell the wing-holders how to move the wing to align the hole.



Figure 15. Wing Alignment Tool

TG-10B/C

- d. If unsuccessful, take the mounting pin out and repeat the alignment.

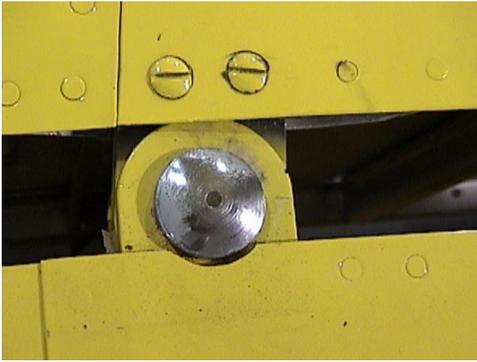


Figure 16. Main Wing Pin - Top View

5. Insert the leading edge pin with its handle and hole vertically aligned from front to rear.

NOTE

- Wing tip may need to be moved slightly forward to aid the pin insertion.
- Pin will fit in curve of the melting bracket.
- Pin may need to be tapped.



Figure 17. Leading Edge Pin

6. Insert the washer and safety pin on the bottom of the main wing pin.

NOTE

- Safety pin should have the clip at trailing edge.
- Rotate flat side of washer toward fuselage.

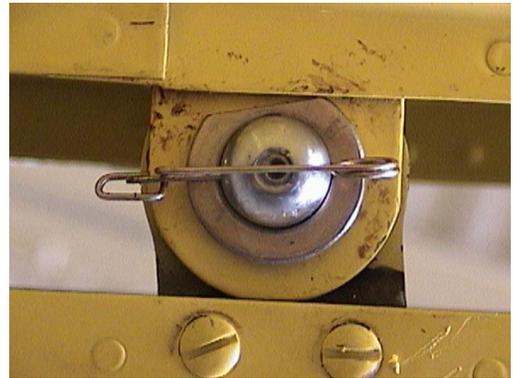


Figure 18. Main Wing Pin - Bottom View (Left side is rear of aircraft)

7. Install washers and safety pins on leading edge pin.

NOTE

- Washer is bent and must be inserted in-line with wing curve.
- Insert safety pin from top to bottom.



Figure 19. Leading Edge Pin with Safety Clip Installed

8. Have someone hold the wing-tip.
9. (OPTIONAL) Install wing stand.

CAUTION

- If a wing stand is used, place the stand on a rivet line under the wing.
 - Make sure the stand is secure so the wing doesn't drop.
10. Repeat steps 1-7 for RIGHT wing.
 11. Place a cushion or something soft under the fuselage nose skid plate.

TG-10B/C

12. Lift the fuselage tail high enough to allow room for the main wheel to be extended. (Figure 20.)



Figure 20. Extending the Main Gear

13. Open the cockpit, and extend the main wheel. Verify it is positively latched.
14. Lower the tail on the ground.
15. Remove the cushion from under the nose.
16. Slide the fuselage dolly clear of the glider and secure it in the trailer.
17. Connect ailerons with pins.
 - a. Remove airbrake tape (if installed.)
 - b. Remove the aileron gust lock.

CAUTION

Removal of the aileron gust lock will be required for pin alignment. Guard the aileron from reaching its travel limit in either direction.

- c. A person at the aileron assists with alignment.

CAUTION

Individual aligning/inserting pins gives commands.

- d. Insert the pin in the aileron control rod first, then align it with the aileron rocker arm. Ensure the pin lines up with the knuckle bearing in aileron rocker arm.
- e. Attach safety pins with latch from the front to the rear of the glider.

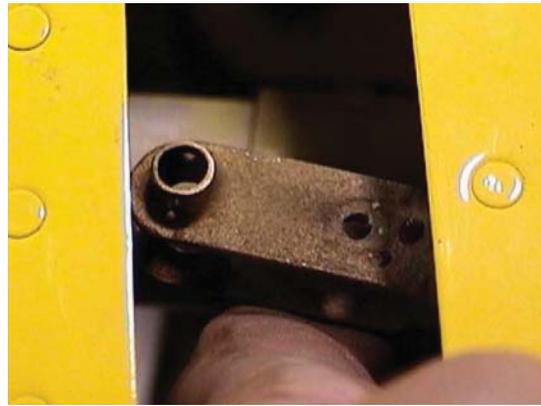


Figure 21. Aileron Control Rod



Figure 22. Aileron Control Rod Pin and Bonding Strap

18. Connect bonding strap at the aileron control rod connection.

WARNING

Do not drop the bonding strap screw into the fuselage or wing.

- 18A. (TG-10C ONLY) Connect electrical wires for TG-10C Smoke System. See Figure 22A.



Figure 22A. TG-10C Smoke System Connector

19. Loosen wing nut(s) and raise antenna(s) on top of the fuselage.

TG-10B/C

TG-10B HORIZONTAL STABILIZER INSTALLATION

1. Unfasten the aft horizontal stabilizer bracket on trailer roof while holding the horizontal stabilizer.

CAUTION

Ensure the elevator is supported so that it does not drop.



Figure 23. TG-10B Horizontal Stabilizer Mounted in Trailer

2. Slide the horizontal stabilizer from the bracket and carry it outside the trailer.
3. Refasten the trailer horizontal stabilizer bracket with trailering hardware.
4. Clean and lubricate the two elevator actuator pins, receiving bracket on top of the vertical stabilizer, rocker lever holes in elevator, and mounting bracket on bottom of horizontal stabilizer.
5. Align the rocker lever holes in the elevator with the elevator actuator pins in the vertical stabilizer.

NOTE

Aid may be needed from the rear of the vertical stabilizer in aligning the two elevator actuating pins into the elevator.

6. Push on the leading edge of the horizontal stabilizer assembly to seat the pins.
7. Lower the horizontal stabilizer down flush with top of the vertical stabilizer.



Figure 24. TG-10B Horizontal Stabilizer Assembly

8. Pull down on the horizontal stabilizer assembly at the inner most rivets.
9. Insert the 4" horizontal stabilizer retaining pin (orange) with its bent end pointing upward through the hole at the top of the leading edge of vertical stabilizer.
10. Check the alignment through window on the side.

NOTE

Use pliers as necessary to hold the pin while pushing it in.

11. Once engaged, rotate the 4" horizontal stabilizer retaining pin (orange) 180° until the bent end points down.

TG-10B/C

12. Visually inspect to ensure the flange on the orange pin is seated in the slot on the vertical stabilizer mounting bracket.



Figure 25. Four Inch Horizontal Stabilizer Retaining Pin (Orange)

13. Secure the horizontal stabilizer retaining pin with safety wire.
14. Install Total Energy probe.

TG-10C HORIZONTAL STABILIZER ASSEMBLY

1. Have one person hold the left and another person hold the right of the horizontal stabilizer and elevator.

CAUTION

Ensure the elevator is supported so that it does not drop.

2. Remove the retaining strap and cushion strap from the horizontal stabilizer.



Figure 26. Cushion Strap



Figure 27. Retaining Strap

3. Remove the cushion strap from the horizontal stabilizer.
4. Lower the horizontal stabilizer halves to allow for rudder movement.

CAUTION

Do not lower horizontal stabilizer halves all the way.

5. Remove/secure the tail cone safety pin.
6. Move the rudder aside and open the tail cone.



Figure 28. TG-10C Tail Cone

7. Clean and lubricate the aft center attachment pin and bushing.

TG-10B/C

- Slowly lower the horizontal stabilizer halves and insert the elevator actuator bar.

CAUTION

Ensure fingers are clear of moving parts in this area.

NOTE

Ensure the red marked parts (left to left) mate, and that the elevator actuator bar engages properly.



Figure 29. Elevator Actuator Bar

- Visually align and insert the horizontal stabilizer joining pin.



Figure 30. TG-10C Horizontal Stabilizer Joining Pin with Safety Pin

- Secure the horizontal stabilizer joining pin with the safety pin. Point the safety pin down.
- Close the tail cone.
- Secure the tail cone with the tail cone pin and safety pin.



Figure 31. TG-10C Tail Cone Pin

- Install the Total Energy probe.

WING TIP EXTENSION AND WING ROOT FAIRING INSTALLATION

- (OPTIONAL FOR TG-10B ONLY) If wing tip extension is to be installed, unpack the wing tip extensions and mount them on the wings.
 - Remove the original wing tip.



Figure 32. Wing with Wing Tip Removed

- Install the wing tip extensions.

This involves 12 screws. The last 2 screws aft of the wing are flat-head screws. The rest are phillips screws.

CAUTION

Do not fully tighten all screws until wing tip alignment is complete.

TG-10B/C

NOTE

Each wing-tip extension has a serial number on it that corresponds to the respective wing it was made for. Install the correct tip with the correct wing.



Figure 33. Wing Tip Extension Screw



Figure 34. Wing Tip Extension Installation



Figure 35. Wing Tip Extension Serial Number

2. Remove wing root fairing strips from cockpit.
3. Identify which is left and right.
4. Install hook in slot on top of wing.
5. Put tension on the wing fairing strip until rear bottom hook engages in slot.

CAUTION

The wing root fairing strip can snap back under pressure.



Figure 36. Wing Root Fairing Strip



Figure 37. Rear Bottom Hook on Wing Root Fairing Strip

- 5A. (TG-10C ONLY) Reset AMU circuit breaker located to the right of RCP seat. See Figure 37A.
6. Perform a positive control check.
7. Perform maintenance inspection and AFTO 781 release.
8. Perform a tool accountability and FO check.
9. Secure/store trailer.



Figure 37A. AMU Circuit Breaker

TG-10B AND TG-10C GLIDER DISASSEMBLY CHECKLIST

PREPARATION

1. Park the trailer so that there is a sufficient unobstructed area at the tail of the trailer on a level surface.

CAUTION

When practical, park the trailer parallel to the wind direction.

2. Visually inspect the trailer.
3. Trailer Front Access Door - Open and Secure
4. Install the hitch wheel.
5. Apply wheel brake on the trailer.
6. Wheel Chocks - Install
7. Disconnect the trailer from the vehicle.
8. Insert the long support leg located on the front wall of the trailer.

CAUTION

It will need to support your weight inside the trailer.

9. Open/secure back door.
10. Raise the trailer nose.

NOTE

Raise the nose high enough until the rear of the trailer touches the ground.

11. Tighten the support leg handle to prevent from sliding.
12. Ensure foam padding is available.
13. Remove/secure all trailering hardware mounted in the trailer to include: fuselage dolly, wing root bolts, and tail support cradle.
14. Loosen and prep all straps and cradles.

WING ROOT FAIRING AND WING TIP EXTENSION REMOVAL

1. Perform a full INTERIOR and EXTERIOR INSPECTION IAW T.O. 1G-10(T)-1CL-1 prior to disassembly.
2. Remove tape from wings (if applicable).
3. Put tension on wing root fairing strip until rear bottom hook disengages from slot.

CAUTION

The strip can snap forward under pressure.

- 3A. (TG-10C ONLY) Disconnect electrical wires for TG-10C Smoke System. See Figure 37B.



Figure 37B. TG-10C Smoke System Connector

4. Remove wing root fairing strips from aircraft and place in cockpit.



Figure 38. Wing Root Fairing Strip



Figure 39. Rear Bottom Hook on Wing Root Fairing Strip

TG-10B/C

5. (OPTIONAL TG-10B ONLY) If wing tip extensions are installed, ensure they are removed prior to aircraft disassembly.
 - a. Remove wing tip extensions.

This involves 12 screws. The last 2 screws aft of the wing are flat-head screws. The rest are philips screws.
 - b. Install the original wing tip.

CAUTION

Do not fully tighten all screws until wing tip alignment is fully complete.

TG-10B HORIZONTAL STABILIZER REMOVAL

1. Remove the total energy probe and place in cockpit.
2. Remove the safety wire from the 4" horizontal stabilizer retaining pin (orange).
3. Pull down on the leading edge of the horizontal stabilizer at the inner most rivets. Rotate the 4" horizontal stabilizer retaining pin 180° until the bent end points up.
4. Remove/secure the pin in the forms pouch.

NOTE

Pliers may need to be used.



Figure 40. Removal of Four Inch Horizontal Stabilizer Retaining Pin (Orange)



Figure 41. Four Inch Horizontal Stabilizer Retaining Pin (Orange)

5. Raise the horizontal stabilizer from the leading edge 45° and remove forward.

CAUTION

Do not press on the trailing edge of the elevator.

6. Install horizontal stabilizer assembly on the trailer ceiling.
 - a. Unfasten aft horizontal stabilizer bracket.
 - b. Slide the horizontal stabilizer assembly into the forward bracket.
 - c. Position horizontal stabilizer and refasten the aft bracket with trailering hardware.

CAUTION

- Do not pinch the trailing edge in the wood as it could bend the aluminum.
- Ensure the elevator is supported so that it does not drop and pinch fingers.



Figure 42. TG-10B Horizontal Stabilizer Mounted in Trailer

TG-10B/C

TG-10C HORIZONTAL STABILIZER DISASSEMBLY

1. Remove the total energy probe and place in cockpit.
2. Remove the tail cone safety pin and tail cone pin.

CAUTION

Do not move the elevator using the trim tab.

3. Move the rudder aside and open the tail cone.



Figure 43. TG-10C Tail Cone

4. Remove/secure the safety pin and horizontal stabilizer joining pin.

NOTE

Pliers may be required to remove pins.



Figure 44. TG-10C Horizontal Stabilizer Joining Pin with Safety Pin

5. Close the tail cone.
6. Neutralize the rudder.
7. Install the cushion strap.



Figure 45. Cushion Strap

8. Fully raise the horizontal stabilizer halves.

CAUTION

Guard the elevator when folding up the tail section.

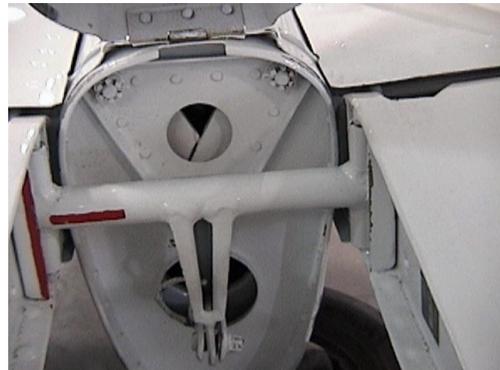


Figure 46. Elevator Actuator Bar

9. Install the horizontal stabilizer retaining strap around the vertical stabilizers and elevators. Then run the long end from the right side underneath the tail of the fuselage and fasten it on the left side. (Figure 47)



Figure 47. Retaining Strap

10. Secure the tail cone with the tail cone pin and safety pin.

CAUTION

Ensure the elevator actuator bar stays in the appropriate slot on the tail cone.

WING REMOVAL

1. Disconnect bonding strap from both ailerons. Secure bonding strap screw.

WARNING

Do not drop the bonding strap screw into the fuselage or wing.

2. Remove the aileron pins from both sides.
 - a. Remove the safety pins.
 - b. Hold the ailerons still to ensure there is no extra pressure on the aileron pins.
 - c. Pull the aileron pins out of respective knuckle bearing in the aileron rocker arm.

CAUTION

During pin removal, guard the aileron from reaching its travel limit in either direction.

- d. Install aileron gust lock.

NOTE

The pin may need to be rotated in order to remove it.

- e. Store all pins in a bag.

- f. Tape air brakes and ailerons closed.

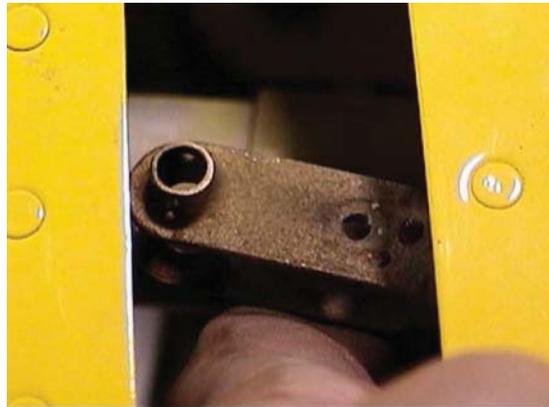


Figure 48. Aileron Control Rod



Figure 49. Aileron Control Rod Pin and Bonding Strap

3. Remove safety pins and washers from the main wing pins.
4. Remove safety pins and washers from the leading edge pins.
5. Place all pins and washers in a bag.
6. Support the wing tips.
- 6A. (TG-10C ONLY) Pull AMU circuit breaker located to the right of RCP seat. See Figure 49A.

NOTE

The AMU is activated by a weight-off-wheels switch. Failure to pull the circuit breaker will cause the system to record a large amount of erroneous data.

7. Slide fuselage dolly underneath the aircraft to approximately three inches from the main wheel.

NOTE

If wing stands are used, they will only be used to assist, not substitute people.



Figure 49A. AMU Circuit Breaker

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8. (OPTIONAL) Install wing stand.

CAUTION

- If you have a wing stand, then place the stand on a rivet line under the wing.
- Make sure the stand is secure so the wing doesn't drop.

9. Place a cushion or other padding under the fuselage nose skid plate.



Figure 50. Fuselage Dolly

10. Raise the tail of the aircraft high enough to ensure that the main wheel is clear of the ground.
11. Raise the gear to the up and locked position. Set tail down.
12. Close the canopy.
13. Remove right wing first.
- a. Place one person at wing tip.
 - b. Place two people at wing root, one at the leading edge and the other at the trailing edge.

CAUTION

Secure aileron to prevent an inadvertent movement (i.e. gust lock or duct tape).

14. Tap out the leading edge pin and place the pin in a bag.

15. Remove the main wing pin by tapping upwards.

WARNING

Do not put your finger or any other appendage near the wing root trailing edge.

CAUTION

Never hit the pin with a steel hammer.

NOTE

- Preposition the wing alignment tool near the wing root for use when needed.
- The person holding the leading edge of the wing may be used to remove the pins.

16. Put pins in a bag and place in the forms pouch.

17. Remove the wing from the fuselage.

CAUTION

- Ensure no one is underneath the wing prior to movement.
 - Do not catch the trailing edge on the fuselage.
18. Insert the wing alignment tool in the wing pin holes and use it as a handle to carry and rotate the wing.

CAUTION

Do not rotate the wing until close to the trailer.

19. Load the wing into the trailer.

- a. Ensure the wing-tip goes into the trailer first.
- b. Ensure leading edge is pointing down.
- c. Ensure right wing goes on right side of trailer.
- d. Insert wing tip in wing tip cradle and wing root in the wing root cradle.

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CAUTION

Do not to scrape or catch the wing or aileron on pins, tie downs, or trailer.

- e. Insert/tighten wing root mounting hardware.
 - f. Pad aileron.
 - g. Secure the wing tip to the wing tip cradle.
20. Safety-wire knuckle bearing (if available).
 21. Repeat steps 12-20 for LEFT wing

FUSELAGE LOADING

1. Stabilize the vertical stabilizer.
2. Loosen the wing nut(s) and fold the antenna(s) on top of fuselage down.
3. Disconnect battery(ies) (if required).
4. Turn off oxygen bottle (if required).
5. Ensure gear is up and locked.
6. Ensure the canopy is closed and locked.
- 7. Deleted.
8. Install foam padding in aileron pushrod section.
9. Roll forward and lift the fuselage dolly onto the trailer ramp.
10. Roll the fuselage forward approximately 3/4 of the way into the trailer.

WARNING

Ensure that the fuselage does not scrape the wings, vertical stabilizer, or elevator.

CAUTION

- Do not hit the top of the trailer.
- Do not push from the trailing edge of the rudder.

NOTE

Make sure that the fuselage travels straight.

11. Lift the tail several inches clearing for the top of the vertical stab.
12. Install the tail support cradle and mounting hardware. (See Figures 51 and 52.)
 - a. Remove the tail through-bar and open tail support cradle (TG-10C) prior to putting the mount in trailer.
 - b. Install the tail support cradle from under the fuselage.

CAUTION

- Do not drop tail support cradle on the fuselage. Do not bang wing or fuselage with stand.
 - Use caution for tailwheel damage in wheel well (TG-10C).
- c. Attach tail support cradle to the floor.



Figure 51. TG-10B Tail Support Cradle



Figure 52. TG-10C Tail Support Cradle

13. Install tail support cradle mounting hardware.

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14. Move the aircraft fully forward. The TG-10C fuselage may need to be pushed forward to install the tail through-bar.

CAUTION

Do not push on the rudder trailing edge while loading.

NOTE

Ensure vertical stabilizer of TG-10B fits into the vertical stabilizer cradle in trailer.

15. Attach the fuselage nose-chain turnbuckle to the aerotow release and tighten it. (Figure 53)



Figure 53. Fuselage Nose-Chain Turnbuckle

16. Install tail strap (TG-10B) or tail through-bar (TG-10C) on the aircraft.
17. Install safety wire on all trailer mounting hardware (if available).
18. Ensure AFTO 781 is annotated appropriately with a red "X."
19. Install foam padding.
20. Secure any loose objects in the trailer.
21. Close trailer.
22. Support trailer torque.
23. Loosen support leg lock.

24. Lower the front end of the trailer.
25. Remove support leg.
26. Parts and Tools - Accounted for. Account for all parts according to Figure 54, TG-10 Disassembly Parts Inventory. Account for all tools in the tool box before closing the trailer.
27. Secure/store/hook-up trailer as desired.

<i>TG-10 Part</i>	<i>Quantity</i>
Aileron Pin	2
Safety Pin	2
Grounding wire screws for ailerons (should be left on airplane)	2
Forward Wing Pins	2
Forward Wing Pin Washers	2
Forward Wing Pin Safety Pins	2
Main Wing Pins	2
Main Wing Pin Washers	2
Main Wing Pin Safety Pins	2
Tail Pin	1
Safety Pin (TG-10C)	1
Tail Cone Pin (TG-10C) (should be secured to tail cone)	1
Safety Clip (TG-10C)	1
Wing Root Fairings (stored in front cockpit)	2
Wing Root Fairing Springs	2
Total Energy Probe (stored in front cockpit)	1

Figure 54. TG-10 Disassembly Parts Inventory