REVISION LIST CHAPTER 13: FIREWALL FORWARD (PART 1)

The following list of revisions will allow you to update the Legacy construction manual chapter listed above.

Under the "Action" column, "R&R" directs you to remove and replace the pages affected by the revision. "Add" directs you to insert the pages shows and "R" to remove the pages.

| PAGE(S)AFFECTED | REVISION # & DATE | ACTION | DESCRIPTION |
|---------------------|------------------------------|--------|------------------------------------|
| 13-1 | 1/09-18-02 | R&R | Part # correction |
| 13-2 | 1/09-18-02 | R&R | Part # correction |
| 13-3 through 13-9 | 0/02-15-02 | None | Current revision is correct |
| 13-10 through 13-11 | 1/09-18-02 | R&R | Text correction |
| 13-12 | 1/09-18-02 | R&R | Part # Corrections |
| 13-13 | 1/09-18-02 | R&R | Text Correction |
| 13-14 | 1/09-18-02 | R&R | Part # Correction |
| 13-15 | 1/09-18-02 | R&R | Correction of fig. 13:E:1 |
| 13-16 | 1/09-18-02 | R&R | Part # Correction |
| 13-17 | 1/09-18-02 | R&R | Part # Correction |
| 13-18 | 1/09-18-02 | R&R | Part # Correction |
| 13-19 | 1/09-18-02 | R&R | Text and Fig 13:F:3 Correction |
| 13-20 | 1/09-18-02 | R&R | Correction of fig. 13:F:4 |
| 13-21 | 1/09-18-02 | R&R | Correction of fig. 13:F:5 |
| | | | Text correction |
| 13-22 | 1/09-18-02 | R&R | Text correction |
| 13-23 through 13-26 | 0/02-15-02 | None | Current Revision is Correct |
| | | | |
| 13-1 | 2/06-30-04 | R&R | Deleted items from parts list. |
| 13-10 | 2/06-30-04 | R&R | Added instruction. |
| 13-11 | 2/06-30-04 | R&R | Added instruction. |
| 13-13 | 2/06-30-04 | R&R | Updated instructions. Added photo. |
| 13-15 | 2/06-30-04 | R&R | Updated part numbers. |





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| 3-i | Chapter 13 | REV. | 7/09-10-08 | |
| FIREWALL FORWARD (Part 1) | | | | |

| PAGE(S) AFFECTED | REVISION # & DATE | ACTION | DESCRIPTION |
|-----------------------------|-------------------|--------|---|
| 13-17 | 2/06-30-04 | R&R | New figure 13 · F · 2 - Nose gear plunger |
| 13-17 | 2/06-30-04 | R&R | Undated gear door information |
| 13-21 | 2/06-30-04 | R&R | Updated gear door information |
| 13-22 | 2/06-30-04 | R&R | Updated gear door spring information |
| 13-25 | 2/06-30-04 | R&R | Updated gear door plunger information |
| 13-25 | 2/06-30-04 | R&R | Updated gear door bracket information |
| 13-25 | 2/06-30-04 | R&R | Undated figure 13:G·1 |
| 15-20 | 2/00-30-04 | | opulled light 15.0.1. |
| 13-2 | 3/12-15-04 | R&R | Undated parts list |
| 13-18 | 3/12-15-04 | R&R | Intentionally blank due to new nose gear door |
| 13-19 | 3/12-15-04 | R&R | New dimension and instructions |
| 13-22 | 3/12-15-04 | R&R | Added photo |
| 13-23 | 3/12-15-04 | R&R | Corrected geometry |
| 13-24 | 3/12-15-04 | R&R | Updated photo |
| | | | |
| 13-1 thru 13-2 | 4/09-29-06 | R&R | Corrected parts list. |
| 13-6 | 4/09-29-06 | R&R | Updated torque for engine mount to firewall. |
| 13-10 thru 13-11 | 4/09-29-06 | R&R | Added washers between engine mount and fire |
| 13-12 | 4/09-29-06 | R&R | Corrected drawing and added update. |
| | | | Su |
| 13-1, 13-2, 13-12 | 6/08-10-07 | R&R | Part number change only. |
| | | | |
| 13-2, 13-11, 13-12, 13-14, | 6/08-10-07 | R&R | Parts changed and new nose gear assembly. |
| 13-15, 13-17, 13-18, 13-23, | | | |
| 13-24, 13-25, | | | |
| 13-2, 13-14b | 7/09-10-08 | R&R | New page for alternative nose gear installation |
| | | | update to the parts list. |
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| r plunger. | | | | |
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| 3-ii | Chapter 13 | REV. | 7/09-10-08 | |
| | FIREWA | LL FORWARD | (Part 1) | |

Chapter 13: Firewall Forward

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1. INTRODUCTION

Chapter 13 covers both the Lycoming 540 and Continental 550 engine mount installations. The subtle differences are pointed out. The main purpose of this chapter is to get your airplane on 3 wheels so you can move it around as needed. After this chapter, the aircraft alignment jig is no longer needed. The firewall forward installation is completed in chapter 26.

2. PARTS LIST

| # | PART NO. (P/N) | | QTY | D |
|---------------|--------------------------------|-------|------------------|----------------|
| FIRE | EWALLCLOSEOUT | | | |
| 1) | 4023 | 1 | Nose Gear | Funne |
| 2) | PH-250-3x5 | 1 | Phenolic Bl | ock |
| FIRF | EWALL FLAME BLA | NKET | | |
| 1) | FFB-002 | 1 | Firewall Fla | me Bl |
| $\frac{2}{2}$ | PH-125-4x6 | + | Phenolic Bl | ock |
| 3) | RTV-106 | 1 | Silicon, Hig | h Tem |
| LYC | OMING 540 - ENGI | NE MO | UNT INSTAI | LLAT |
| 1) | 4070 | 1 | Support, Er | ngine N |
| 2) | 4861 | 1 | 540 Engine | Moun |
| 3) | AN7-25A | 3 | Bolts, Undr | illed |
| 4) | AN7-13A | 2 | Bolts, Undr | illed |
| 5) | AN4-10A | 4 | Bolts, Undr | illed |
| 6) | AN4-11A | 4 | Bolts, Undr | illed |
| 7) | AN365-720A | 5 | Nut, Nyloc | ĸ |
| 8) | AN365-428A | 4 | Nylock Nut | t |
| 9) | PH-250-2x2 | 1 | Phenolic Bl | ock |
| 10) | AN970-7 | 5 | Washer, La | rge Ar |
| 11) | AN970-4 | 4 | Washer, La | rge Ar |
| 12) | AN960-416 | 4 | Washer, Fla | ıt |
| 13) | AN960-716 | 10 | Washer, Fla | ıt |
| CON | TINENTAL 550 - EN | GINE | MOUNT INS | TAL |
| 1) | 4860 | 1 | 550 Engine | Moun |
| 2) | AN4-10A | 4 | Bolts, Undr | illed |
| 3) | AN4-11A | 4 | Bolts, Undr | illed |
| 4) | AN7- <u>15A</u> 13A | 2 | Bolts, Undr | illed |
| 5) | AN7-25A | 2 | Bolts, Undr | illed |
| 6) | AN365-428A | 4 | Nylock Nut | t |
| 7) | AN365-720A | 4 | Nut, Nylocl | ĸ |
| 8) | AN970-4 | 4 | Washer, La | rge Ar |
| 9) | AN970-7 | 4 | Washer, La | rge Ar |
| 10) | AN960-416 | 4 | Washer, Fla | ıt |
| 11) | AN960-716 | 10 | Washer Fla | t |



DESCRIPTION

OPTIONAL ITEM (not included with kit)

el Closeout

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Mount nt

rea rea

LATION

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rea rea

| 3-1 | Chapter 13 | REV. | 6/08-10-07 |
|-----|---------------------------|------|------------|
| | FIREWALL FORWARD (Part 1) | | |
| | 1 | | |

| | | | QIY DESCRIPTION | OPTIONAL ITEM | # | PART NO. (P/N) | | QTY | DES |
|----------------|--------------------------|---------------|-----------------------------------|----------------------------------|-------------------------|----------------------------------|--------------------------------|----------------------|-------------|
| | | | | (not included with kit) | | | | | |
| 550/54 | 40 - NOSE GEAR INS' | TALL | ATION | | NOS | E WHEEL & TIRE | | | |
| 1) | 4701 | 1 | Nose Gear w/ Fork and Bushing | (or alternative part 432-0005) | 1) | 4785 | 1 | Anti-tube-pin | icher-de |
| 2) | 4717-01 | 1 | Nose Gear Bearing Block, Left | | 2) | AN4- <mark>47A</mark> 51A | 1 | Bolt, Undrille | d |
| 3) | 4717-02 | 1 | Nose Gear Bearing Block, Right | | 3) | AN3-3A | 4 | Bolt, Undrille | d |
| 4) | <u>433-0001</u> 4721 | 2 | Over-center Link Arms | | 4) | AN365-428A | 5 | Nut, Nylock | |
| 5) | 4722 | 2 | Bushing | | 5) | 430-0000 TR-5 x 8 PLY | 1 | Tire | |
| 6) | 4736 | 1 | Nose Gear Ball Stud | | 6) | TU-5.00-11 x 4 | 1 | Tube | |
| 7) | F45-19 | 1 | Bearing, Rod End | | 7) | AN960-416 | 10 | Washer, Flat | |
| 8) | AN3-10A | 3 | Bolt,Undrilled | | 8) | AN960-10 | 4 | Washer, Flat | |
| 9) | AN3-12A | 4 | Bolt, Undrilled | | 9) | 59-3M-LA GM035-2 | 1 | Wheel, Nose | |
| 10) | AN4-11A | <u>4</u> | Bolt, Undrilled | (**Yes 2 with tow bar plate | <u>) 10)</u> | <u>Z02E276</u> | <u>1</u> | <u>Axle</u> | |
| 11) | AN4-12A | <u>9</u> | Bolt, Undrilled | (**Yes 2 with tow bar plate | <u>) <u>11)</u></u> | <u>GM038</u> | <u>1</u> | Axle bushing | g |
| 12) | AN4-13A | 2 | Bolts, Undrilled (With Tow Bar Pl | ate Option) **Yes | | | | | |
| 13) | AN5-7 | 1 | Bolt, Undrilled | | NOS | E GEAR DOORS (Obs | solete p | oarts were ren | noved f |
| 14) | AN5-41A | 1 | Bolt, Undrilled | | 1) | 6061-T6 | 6 ft | 1 1/4" x 1 1/4 | " x 1/8 |
| 15) | <u>112-0026</u> 6381K103 | 2 | Bushing | | 2) | GM318-01 | 2 | Gear Door, N | lose (aj |
| 16) | RR-01 | 2 | Circlip | | 3) | GM320-36 | 2 | Aluminum G | ear Doo |
| 17) | <u>198-0004</u> 9416K77 | 2 | Clip, Safety | | 4) | MS20001 | 2 | Hinge, Piano | (34") |
| 18) | MS24665-140 | 3 | Cotter Pin | | <u>5)</u> | | <u>1</u> | Phenolic crus | sh plate |
| 19) | HC-08 | 1 | Hydraulic Cylinder, Nose Gear | | <u>6</u> | <u>240-0001</u> | 1 | Nose gear d | oor as |
| 20) | AN363-1032 | 7 | Lock Nut, All Metal | | 7) | AN3-6A | 1 | Bolt, 10-32 x | x 25/32 |
| 21) | AN363-428A | 2 | Lock Nut, All Metal | | 8) | AN960-10L | 4 | Washer, lite | <u>3/16</u> |
| 22) | AN363-524 | 2 | Lock Nut, All Metal | | 9) | HFC-3AU | <u>1</u> 2 | Female rod e | nds |
| 23) | AN365-428A | 5 | Nut, Nylock | | 10) | BJ-04 | 2 | Rod ends | |
| 24) | AN310-5 | 3 | Nut, Castle | | 11) | AN3-7 A | 7 | Bolt | |
| 25) | AN316-5 | 1 | Nut, Check | | 12) | AN315-3 | 2 | Checknuts | |
| 26) | 198-0003 9416K71 | 2 | Socket, Steel Ball | | 13) | 209-0018 | $\overline{2}$ | Bracket | |
| 27) | 160-0002 9416K15 | 1 | Strut, Gas | | 14) | AN3-10A | 4 | Bolt, Undrille | d |
| 28) | 198-0006 9512K73 | 1 | Stud, Ball | | 15) | AN5-20 | 2 | Bolt, Drilled | |
| 29) | TB-1-03 | 1 | Tow Bar Plate | **Yes | 16) | AN363-1032 | 4 | Nut. Lock (A | ll metal |
| 30) | TB-1 | 1 | Tow Bar | **Yes | 17) | AN365-1032A | 14 2 | Nut. Nvlock | |
| 31) | AN960-10 | 20 | Washer, Flat | | 18) | K1000-3 | 22 | Nutplate | |
| 32) | AN960-10L | 10 | Washer, Flat | | 19) | AN426A3-5 | 44 | Rivet | |
| 33) | AN960-416 | 4 | Washer, Flat | | 20) | AN426AD3-5 | 68 | Rivet | |
| 34) | AN960-516 | 14 | Washer, Flat | | 21) | MS24694-S48 | 22 | Screw | |
| 35) | AN960-516L | 10 | Washer, Flat | | 22) | MS24694-S50 | 4 | Screw | |
| 36) | 110-0002 | 4 | Washer Thrust | | 22) | AN526-1032R14 | <u>4</u> 7 | Screw Wash | er Head |
| 37 | 212-0073 | <u>-</u> 2 | Keener Plate | | $\frac{23}{24}$ | AN960-10 | <u></u> ∠ 23 1 4 | Washer Flat | |
| <u>.</u> | | # | ALCOPUL A MALL | | 2 +) 25) | CN614CR3P | <u>40</u> 14 | Nutnlate | |
| NOSE | CEAR MICROSWI | тсн | Ne | ote: | 23) 26) | M\$24694_\$51 | | Screw Mach | ine |
| .105E 1) | 1XF1_T | 1 | Micro Switch Nose Geor | Optional Parts available through | 20) | 102+07+0001 | 3 | Wesher Flor | 111C 1 |
| 1) 2) | IM_1 | 1 1 | Switch Arm | (*) Lancair Avionics | <u> 41</u> | | 2 | <u>vvasiiti, fia</u> | L |
| -) | J1VI-1 | 1 | SwitchAlli | (**) Kit Components, Inc. | | TANCA | | | 12 |
| | | | | | | | | LEGACY | 13 |

SCRIPTION

OPTIONAL ITEM

(not included with kit)

leal™

1 from this list due to space contraints.) '8" Gear Door Rails (approx. 36")

'8" Gear Door Rails (approx. 36") approx. 35") oor Stiffener (3<u>4</u>")

e, 3" x 1.125" ssembly 2

ıl)

ad

| 3-2 | Chapter 13 | REV. | 8/09-01-14 | |
|------|---------------------------|------|------------|--|
| | FIREWALL FORWARD (Part 1) | | | |
| Redm | ond, OR 97756 | | | |



- A 1. Trim the nose gear tunnel closeout to fit the joggle on the firewall.
- **A 2.** Bond the nose gear tunnel closeout using epoxy/flox.



B. Firewall Flame Blanket



| _ | | | | |
|----------|--------------|---------|--------------|--|
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| 2.5 | Chapter 13 | REV. | 0/02-15-02 | |
| 5-5 | FIREWA | LL FORW | ARD (Part 1) | |
| , Redmon | id, OR 97756 | | | |





| 3 7 | Chapter 13 | REV. | 0/02-15-02 |
|---------|--------------|-------|----------------|
| 5-7 | FIREWA | LL FO | RWARD (Part 1) |
| , Redmo | nd, OR 97756 | | |

Engine Mount Spacer Bonding Fig. 13:B:4

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Ø

If you look on the aft side of the firewall flame blanket, you will notice seven areas with the insulation removed. To compensate for these recessed areas, we bond spacers to the firewall.

B 8. Bond the phenolic spacers in place with epoxy/flox.

NOSE GEAR BRACE RELEASE



B 9. Install the engine mount and observe the fit of the engine mount at the nose gear brace holes. If the fit is less than perfect, we suggest that you perform a release with epoxy/flox as shown on the left. Bond the spacer in place at the same time as you make the flox pad. Insert bolts through the holes of the engine mount to properly align the spacer.

This spacer is installed with 540

installations only.

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- **B 10.** Prior to installing the firewall blanket, we suggest using a punch to create holes in the correct locations.
- **B 11.** Apply high temperature silicon (P/N: RTV-106) to the firewall.





C. Engine Mount Installation

| #1 0 | | | | |
|-----------------|--|--|--|--|
| #3 | | | | |
| | Drill four nose gear b Lycoming 540 u Torque AN7 bol Torque AN4 bol | erace moun ses moun its to 37.5 (450-4 its to 4.17 (50.04-6 | nting holes. t # 4861. 5-41.2 ft-lb. 94.4 in-lb.) 7-5.83 ft-lb. 99.96 in-lb.) | |
| N970 wall. 7 | -7 washers betwee This will help prever | n the mot at sag for | or | |
| | | | | |
| s-10 | Chapter 13 | REV. | 4/09-30-06 | |
| | FIREWA | LL FOR | WARD (Part 1) | |
| , кedmo | na, UK 97756 | | | |







Fig. 13:D:1

D 1. Assemble!- Install the assembled linkage on the engine mount.



Bushing, 4722 (2 pcs)

-Over Center Link Weldment, 4719

Washer, AN960-516L (2 pcs) -Bolt, AN5-17 (2 pcs)

Cotter Pin, MS24665-140

| re. | | NOTE: |
|--------------------|----|---|
| | 1. | Ream the holes of the weldment as necessary using $1/4$ " and $5/16$ " reamers. |
| <u>)</u> h side | 2. | See Figure 13:D:2 for Retract Yoke Assembly |

| 3-12 | Chapter 13 | REV. | 6/08-10-07 | |
|---------|--------------|--------|----------------|--|
| | FIREWA | ALL FO | RWARD (Part 1) | |
| , Redmo | nd, OR 97756 | | | |





Nose Gear Strut Installation Fig. 13:D:3



| Engine Mount | | |
|--|--------------------------|--|
| rs between engine mount lock as required. | | |
| / Engine Mount / Washer, AN960-5 | 16 | |
| / Locknut, AN363-5 | 524 | |
| / Bolts, AN3-10A (| 3 pcs.) | |
| Bolts, AN3-12A (| (4 pcs.) | |
| 4 bolts 3 bolts | are used o are used o | n the left side and n the right side. |
| 3-14 Chapter 13 FIREWA | REV. L l forw | 6/08-10-07 (ARD (Part 1) |

Alternative Nose Gear Installation Alternative Nose Gear Installation Fig. 13:D:1b Parts used for this alternative installation are the same as the parts used on the previous page. For greater detail, please refer to the previous page. Nose Gear, <u>432-0005 for the retractable gear*</u> Nose Gear, <u>432-0005 for the retractable gear*</u> Over-center link arms (includes the fork) (includes the fork) 433-0001 4721 (2 pcs) Washer, AN960-516 (2 pcs) Locknut, AN363-524 Bolt, AN5-41A Bushing supplied with nose gear strut Bolt, AN4-12A (4 pcs) (With the optional Tow Bar Plate, the front two bolts are AN4-13A). Tow Bar Plate TB-1-03 Washer, AN960-10 (4 pcs) Locknut, AN365-428A (4 pcs) Fork

* Note: The part number for the fixed gear's nose gear is 432-0002.

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| l 3 14b | | Chapter 13 | REV. | 7/09-10-08 | |
|---------|-------|------------|---------|---------------|---|
| | | FIREW | ALL FOR | WARD (Part 1) | |
| 8 Radm | and (| DP 07756 | | | _ |







| 3-17 | Chapter 13 | REV. | 6/08-10-07 |
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| | FIREWALL FORWARD (Part 1) | | |
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DUE TO UPDATE REV. 3/12-15-04



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| 3-18 | Chapter 13 | REV. | 3/12-15-04 |
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| | FIREWALL FORWARD (Part 1) | | |
| . Redmo | nd. OR 97756 | | |





Nose Gear Bearing Block

| 3-20 | Chapter 13 | REV. | 1/09-18-02 |
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| | FIREWALL FORWARD (Part 1) | | |
| Redmo | nd OR 97756 | | |



| 2 22 | Chapter 13 | REV. | 3/12-15-04 |
|---------|--------------|---------|--------------|
| 9-22 | FIREWA | LL FORW | ARD (Part 1) |
| . Redmo | nd. OR 97756 | | |

Note: Refer to the next page for a drawing and photo of the completed assembly.

| 2 22 | Chapter 13 | REV. | 6/08-10-07 |
|-------|-------------|--------|---------------|
| 5-25 | FIREWA | LL FOR | WARD (Part 1) |
| Redmo | nd OR 97756 | | |

F4. Attach the gear door pushrods to the plunger.

F 5. Position the plunger directly over the nose-gear strut on the firewall.

F 6. Fully compress the plunger.

F7. When you are satisfied with the clearance between the nose gear and nose gear doors, use the plunger housing as a guide to drill the two bottom holes through the firewall in approximately the center of the slots.

F8. Install the plunger bolts (AN3-7A), washers (AN960-10) and nuts (AN365-1032A).

The latest engine mounts come with the holes located on the plate. You may need to slot the holes in order to allow the bolts to slide into place.

F 2. Drill the two holes for the two top bolts to secure the plunger to the firewall. Install the bolts (AN3-7A), washers (AN960-10) and nuts (AN365-1032A).

| 2.24 | Chapter 13 | REV. | 6/08-10-07 | _ |
|---------|---------------------------|------|------------|---|
| 9-24 | FIREWALL FORWARD (Part 1) | | | |
| . Redmo | nd. OR 97756 | | | _ |

Center the control horn on the gear door stiffener and mark the location. **F 3.**

Fabricate a 3" x 1.125" x .250" phenolic or aluminum plug. See Figure 13:F:1 for a view of its location. <u>F4.</u>

Sand the plug to fit inside the stiffener rail. This is used to prevent the door from being crushed. Place it in the <u>F 5.</u> door, beneath the control horn.

- Position the control horn on the door so that the push rods are vertical. **F 6**.
- Drill the holes and install the hardware. **F**7.

- Attach the gear door push rod on one side. **F 8.**
- <u>F 9.</u>
- <u>F 10.</u> Repeat these steps for the the other door.
- **F18.** After the final adjustment, remove the plunger and re-install the spring. Now re-install the plunger assembly.

Retract the nose gear and verify tht the nose gear doors completely close. Adjust the rod ends as necessary.

Link, long, for Nose Door Plunger

229-0000

| 3-25 | Chapter 13 | REV. | 6/08-10-07 | |
|---------|---------------------------|------|------------|--|
| | FIREWALL FORWARD (Part 1) | | | |
| . Redmo | nd. OR 97756 | | | |

Nose Gear Micro Switch G

Nose Gear Down Switch

A micro switch is mounted to the 4719 over-center linkage to indicate if the nose gear is down and locked. A/C Up The switch is activated by the 4721 lower over-center linkage.

Use the hardware supplied in the JM-1 packet to secure the 1XE1-T micro switch to the 4719 upper overcenter linkage. Two switch mounting holes are predrilled in the linkage for this purpose. The nuts and lockwashers should be on the bottom of the 4721 linkage. Use a drop of Loctite on these nuts just to be sure of a good hold.

The right, 4721 over-center linkage should press the switch arm when the nose gear is locked in the down position. You should be able to hear the "click" of the switch as it contacts and releases.

packet.

Fwd 4719 Nermo Nose Gear Micro Switch 1XE1-T Switch Arm JM-1 The micro switch and switch arm are secured to the 4719 over-center linkage with the screws provided in the JM-1

