



P.O. BOX 3689 BRISTOL, TENNESSEE 37625-3689 USA
TELEPHONE: 423-538-5151 TOLL FREE: 800-251-7094
TELEFAX: 423-538-8469 E-MAIL: sales@aero-access.com
techsupport@aero-access.com

INSTRUCTIONS
for
CONTINUED AIRWORTHINESS
for
TAIL ROTOR PEDAL LOCKOUT KIT
206-928-200

STC: SR00513AT
for
BELL HELICOPTER TEXTRON
MODEL 206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407 HELICOPTERS

STC: SR01447AT
for
GARLICK, ARROW FALCON EXPORTERS, SAN JOAQUIN
MODEL OH-58A, OH-58A+, OH-58C HELICOPTERS

STC: SR01844AT
for
AGUSTA SPA
MODEL A109, A109A, A109A II, A109C, A109 E, A109K2, A119 HELICOPTERS

Report Number AA-99032

Revision E

March 26, 2012

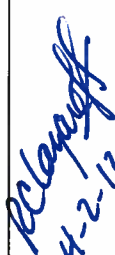


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LOG OF REVISIONS

Date	Revision	Description	Affected Pages	Approved / Date	Accepted / Date
05/07/99	-	Original Release	All	—	—
04/19/00	A	Revised model effectivity – Deleted Bell 427	All	—	—
11/15/01	B	Revised model effectivity – Added A119	All	—	—
05/31/07	C	Revised, reorganized document; deleted N/A sections; complete revision	All	—	—
08/10/09	D	Reformatted Log of Revisions, Table of Contents, List of Tables, List of Figures; corrected document formatting errors, revised table titles	All	C.Rowe 09/10/09	R.Lazaroff 09/14/09
03/26/12	E	Revised "Aeronautical Accessories, Inc." to "Aeronautical Accessories Bell Helicopter Piney Flats" or "Aeronautical Accessories" as applicable, revised Restricted Disclosure Notice Revised Section 1.1 Revised Section 1.2 Added Note following Section 3.1, step 2 Revised Section 4.1.2 step 2 Revised Section 4.2 Revised Section 10.0 Revised Figure 1 to correct view A, added view B Revised Figure 4	All 6 6 7 8 9 13 15 17	 26 MAR 2012	 4-2-12

BHT 206A, 206B, 206L, **INSTRUCTIONS for CONTINUED AIRWORTHINESS**
206L-1, 206L-3, 206L-4,407, **TAIL ROTOR PEDAL LOCKOUT KIT**
Garlick, Arrow Falcon Exporters,
San Joaquin OH-58A, OH-58A+, OH-58C
Agusta SpA A109, A109A, A109A II,
A109C, A109K2, A109E, A119

AA-99032
Revision E

LIST OF EFFECTIVE PAGES

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AERONAUTICAL ACCESSORIES

1.0 INTRODUCTION

These instructions contain the information necessary to inspect and maintain the **AERONAUTICAL ACCESSORIES 206-928-200 TAIL ROTOR PEDAL LOCKOUT KIT** installed on Bell Helicopter model 206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407 helicopters in accordance with STC SR00513AT; Garlick, Arrow Falcon Exporters, and San Joaquin model OH-58A, OH-58A+, OH-58C model helicopters in accordance with STC SR01447AT; and Agusta SpA model A109, A109A, A109A II, A109C, A109E, A109K2, A119 model helicopters in accordance with STC SR01844AT

1.1 DISTRIBUTION

These instructions are provided with each Tail Rotor Pedal Lockout Kit. Any airworthiness or flight safety revisions will be immediately made available to all affected Tail Rotor Pedal Lockout Kit owners.

The current revision of this document can be obtained on Aeronautical Accessories website www.aero-access.com.

1.2 REVISION

A Log of Revision section is included in these instructions and will be utilized to document all changes. Change recommendations should be submitted to:

Aeronautical Accessories Bell Helicopter Piney Flats
Technical Support
P.O. Box 3689
Bristol, TN 37625-3689
Email: techsupport@aero-access.com

2.0 DESCRIPTION

The Aeronautical Accessories Tail Rotor Pedal Lockout Kit is designed to disconnect the co-pilot's tail rotor pedals from the flight control system when the quick-change dual control cyclic and collective are removed, thus preventing passenger interference with the flight controls. Moving the tail rotor pedals from the locked-out position to the engaged position can be accomplished in less than 5 minutes, once the kit has been installed.

3.0 CONTROL, OPERATION INFORMATION

3.1 TO LOCK OUT TAIL ROTOR PEDALS:

CAUTION

If Cable Assembly (206-928-111) becomes damaged, it must be removed and replaced.

NOTE

When removing Expandable Pin Assembly it may be necessary to adjust the pedals to full-aft position or to rotate the Bellcrank to Expandable Pin Assembly aft one at a time to avoid safety clip interference with the chin bubble.

1. Disengage Expandable Pins Assembly (206-928-110) from Links and Bellcrank and swivel the Links aft.
2. Engage Links onto the Lockout Bracket Assemblies by pushing down on the center pin.

NOTE

See Figure 1. Two to four threads visible past nut required.

3. Re-engage Expandable Pins Assembly to Bellcrank; ensure the Expandable Pins are fully seated in Bellcrank and the Safety Clip/Handles are fully engaged on the Expandable Pin Nut.

3.2 TO ENGAGE THE TAIL ROTOR PEDALS:

CAUTION

If Cable Assembly (206-928-111) becomes damaged, it must be removed and replaced.

NOTE

When removing Expandable Pin Assembly it may be necessary to adjust the pedals to full-aft position or to rotate the Bellcrank to Expandable Pin Assembly aft one at a time to avoid safety clip interference with the chin bubble.

1. Disengage Expandable Pins Assembly (206-928-110) from Bellcrank.
2. Disengage Links from Lockout Pins by pushing down on center pin.

NOTE

To facilitate insertion of Expandable Pins Assembly into Links and Bellcrank, it is necessary to fully open Safety Clip / Handles. Position Safety Clip / Handles toward the front of aircraft to prevent Lanyard / Cable Assembly from binding engagement of Expandable Pins Assembly.

3. Swivel Links forward and connect Links to the Bellcrank using Expandable Pins Assembly (206-928-110). Ensure that the Expandable Pins are seated equally in the Bellcrank and that the Safety Clip/Handles are fully engaged on the Expandable Pin Nut.

4.0 MAINTENANCE INSTRUCTIONS

4.1 DAILY / PREFLIGHT INSPECTION

The Tail Rotor Pedal Lockout Kit shall receive a Daily/Preflight visual inspection. Reference Figures 1 thru 3.

NOTE

If any malfunction is noted during inspection, refer to Section 5.0 Troubleshooting Information. Repair/replace as required.

4.1.1 Tail Rotor Pedals Locked out

1. Inspect Lockout Bracket Assembly for condition and security of attachment.
2. Verify the Expandable Pins are properly positioned in the Bellcrank and Safety Clips are properly latched.
3. Verify the Links are fully seated and locked on the Lockout bracket Assembly.

4.1.2 Tail Rotor Pedals Engaged

1. Inspect Warning Decal for condition and security of attachment.
2. Inspect Cable Assembly (Lanyard) for condition and security.
3. Verify the Expandable Pins are seated on top of the Links.
4. Verify the Safety Clips are properly latched.
5. Verify there is no play between the Expandable Pins, Links and Bellcrank.
6. Position each Tail Rotor Pedal, one at a time, to the full forward position. Verify there is no Pedal-to-Expandable Pin contact. Verify there is no right Expandable Pin contact with the Control Tube.

4.2 ANNUAL INSPECTION

Perform Daily/Preflight inspection during scheduled aircraft Annual Inspection. Utilize the Annual Inspection Record provided in Appendix A to document inspection completion.

4.3 REPAIR

No repair of the Tail Rotor Pedal Lockout Kit is permitted by owners. Components in need of repair should be returned to Aeronautical Accessories. For assistance, contact:
Aeronautical Accessories Bell Helicopter Piney Flats
Technical Support
P.O. Box 3689
Bristol, TN 37625-3689
Email: techsupport@aero-access.com.

For component adjustment, refer to Section 4.5 Adjustments.

4.4 CLEANING REQUIREMENTS

Any dirt, sand or debris should be cleaned from the Expandable Pins Assembly and the Lockout Bracket Assembly using dry shop air.

4.5 ADJUSTMENTS

The following adjustments are authorized for the Tail Rotor Pedal Lockout Kit.

CAUTION

The Expandable Pins should fit tightly into the Links and Bellcrank. If up and down movement of the Pin is noted when the Safety Clips are latched, tightening adjustment is required. Refer to the following procedure.

Using a 7/32" wrench, tighten the Expandable Pin Nut (see Figure 2) in one flat increments then, recheck to ensure the Pins fit tightly into the Links and Bellcrank. There should be no Expandable Pin up and down movement once the Safety Clip is latched.

CAUTION

After repeated use, the Safety Clip may be bent slightly out of shape. If this out of shape condition is identified, the Safety Clip should be bent back to the proper shape to ensure the clip will latch as shown in Figure 2.

5.0 TROUBLESHOOTING INFORMATION

TABLE 1. TROUBLESHOOTING

Problem	Probable Cause	Remedy
Right Expandable Pin contacts Control Tube	Lanyard / Cable Assembly (as applicable) broken	Return Expandable Pin Assembly to Aeronautical Accessories Product Support Engineering (PSE) for replacement
	Lanyard (if installed) stretched	Check Lanyard length from centers of attaching rivets. If length is greater than 3.25", return Expandable Pin Assembly to PSE for replacement
Pedal contacts top of Expandable Pin	Expandable Pin Assembly not properly seated in Links and Bellcrank	Unlatch Expandable Pin Assembly. Push down on pins to ensure assembly is seated on top of the links, and relatch
	Expandable Pin Assembly loose	Adjust the Expandable Pins per Section 4.5
Expandable Pin Assembly loose in Links and Bellcrank	Expandable Pin Assembly needs adjustment	Adjust the Expandable Pins per Section 4.5
Safety Clip will not latch properly	Safety Clip bent out of shape	Remove Expandable Pin Assembly. Bend Safety Clip back to proper shape to ensure Clip will latch as shown in Figure 2
	Expandable Pin Nut not aligned with Safety Clip cutout	Remove Expandable Pin Assembly. Using a 7/32" wrench, align Expandable Pin Nut with Safety Clip cutout
Link will not fully seat on Lockout Pin	Center Pin not fully depressed	Ensure Center Pin is fully depressed
	Center Pin jammed	Clean and lubricate Lockout Pin. If pin remains jammed, replace Lockout Bracket Assembly
	Retention Balls jammed	Clean and lubricate Lockout Pin. If pin remains jammed, replace Lockout Bracket Assembly
Link will not release from Lockout Pin	Center Pin not fully depressed	Ensure Center Pin is fully depressed
	Center Pin jammed	Clean and lubricate Lockout Pin. If pin remains jammed, replace Lockout Bracket Assembly
	Retention Balls jammed	Clean and lubricate Lockout Pin. If pin remains jammed, replace Lockout Bracket Assembly
Lockout Bracket Assembly is loose on Support Pedal Assembly	Fastening hardware loose or damaged	Check condition of hardware and re-torque to 40 — 50 in-lbs. Replace damaged or missing hardware as required

6.0 REMOVAL AND REPLACEMENT INFORMATION

Refer to Figures 1 thru 4 for part orientation and identification.

6.1 REMOVAL – TAIL ROTOR PEDAL LOCKOUT KIT

6.1.1 Lockout engaged

1. Remove the Expandable Pins Assembly (206-928-110) by unlatching the Safety Clips and rotating the handles up.
2. Remove the Lockout Bracket Assemblies (206-928-251) by removing and retaining the Bolts (AN4-11A) and Washers (NAS1149D0463J).

6.1.2 Lockout disengaged

1. Disengage the Links from the Lockout Pins by pushing down on the center pin. Remove the Lockout Bracket Assemblies (206-928-251) by removing and retaining the Bolts (AN4-11A) and Washers (NAS1149D0463J).
2. Remove the Expandable Pins Assembly (206-928-110) by unlatching the Safety Clips and rotating the handles up.

6.2 INSTALLATION – TAIL ROTOR PEDAL LOCKOUT KIT

CAUTION

Do not over torque bolts. Damage to equipment could result.

1. Position Lockout Bracket Assembly (206-928-251) on left hand side of the Support/Pedal Assembly. Secure using one Bolt (AN4-11A) and Washer (NAS1149D0463J). Torque bolt 40 — 50 in-lbs.
2. Position Lockout Bracket Assembly (206-928-251) on right hand side of the Support/Pedal Assembly. Secure using one Bolt (AN4-11A) and Washer (NAS1149D0463J). Torque bolt 40 — 50 in-lbs.

6.2.1 To Lock Out Tail Rotor Pedals

CAUTION

If Cable Assembly (206-928-111) becomes damaged, it must be removed and replaced.

NOTE

When removing Expandable Pin Assembly it may be necessary to adjust the pedals to full-aft position or to rotate the Bellcrank to Expandable Pin Assembly aft one at a time to avoid safety clip interference with the chin bubble.

1. Disengage Expandable Pins Assembly (206-928-110) from Links and Bellcrank and swivel the Links aft.
2. Engage Links onto the Lockout Bracket Assemblies by pushing down on the center pin.
3. Re-engage Expandable Pins Assembly to Bellcrank; ensure the Expandable Pins are fully seated in Bellcrank and the Safety Clip/Handles are fully engaged on the Expandable Pin Nut.

6.2.2 To Engage the Tail Rotor Pedals

CAUTION

If Cable Assembly (206-928-111) becomes damaged, it must be removed and replaced.

NOTE

When removing Expandable Pin Assembly it may be necessary to adjust the pedals to full-aft position or to rotate the Bellcrank to Expandable Pin Assembly aft one at a time to avoid safety clip interference with the chin bubble.

1. Disengage Expandable Pins Assembly (206-928-110) from Bellcrank.
2. Disengage Links from Lockout Pins by pushing down on center pin.

NOTE

To facilitate insertion of Expandable Pins Assembly into Links and Bellcrank, it is necessary to fully open Safety Clip / Handles. Position Safety Clip / Handles toward the front of aircraft to prevent Cable Assembly (Lanyard) from binding engagement of Expandable Pins Assembly.

3. Swivel Links forward and connect Links to the Bellcrank using Expandable Pins Assembly (206-928-110). Ensure that the Expandable Pins are seated equally in the Bellcrank and that the Safety Clip/Handles are fully engaged on the Expandable Pin Nut.
4. Tail Rotor Pedal Lockout Kit installation complete.

7.0 STRUCTURAL FASTENER DATA

For hardware identification see Table 2 and Figures 1 thru 3.

8.0 SPECIAL TOOLS NEEDED

Torque wrench

9.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type design change.

10.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type design change.

The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under 14 CFR §§ 43.16 and 91.403, unless an alternative program has been FAA approved.

11.0 PARTS BREAKDOWN

Table 2 contains Parts Breakdown data for the Tail Rotor Pedal Lockout Kit.

The column Availability Code (AV Code) specifies the procurement status for each part. The codes to identify if a part is procurable, procedure details to get an assembly or local manufacture code are as follows:

AV Code	Details
0	Nonprocurable part
1	Procurable part
2	Procure as detail parts only
3	Procurable as Next Higher Assembly
4	Local manufacture. Contact Aeronautical Accessories, Bell Helicopter Piney Flats Product Support Engineering (PSE).
5	Part replacement requires a fixture or special equipment. Contact PSE
6	Non-stock procurable part

**TABLE 2. PARTS BREAKDOWN,
 206-928-200 TAIL ROTOR PEDAL LOCKOUT KIT**

Qty	Part Number	Description	AV Code
1	206-928-110	Expandable Pins Assembly	1
2	206-928-251	Lockout Bracket Assembly	1
1	206-928-007	Spacer	1
1	206-928-012	Decal	1
2	AN4-11A	Bolt	1
2	MS14144L4	Nut	1
2	MS24665-153	Cotter Pin	1
2	NAS1149D0416J	Washer	1
8	NAS1149D0463J	Washer	1
2	NAS6604D16	Bolt	1

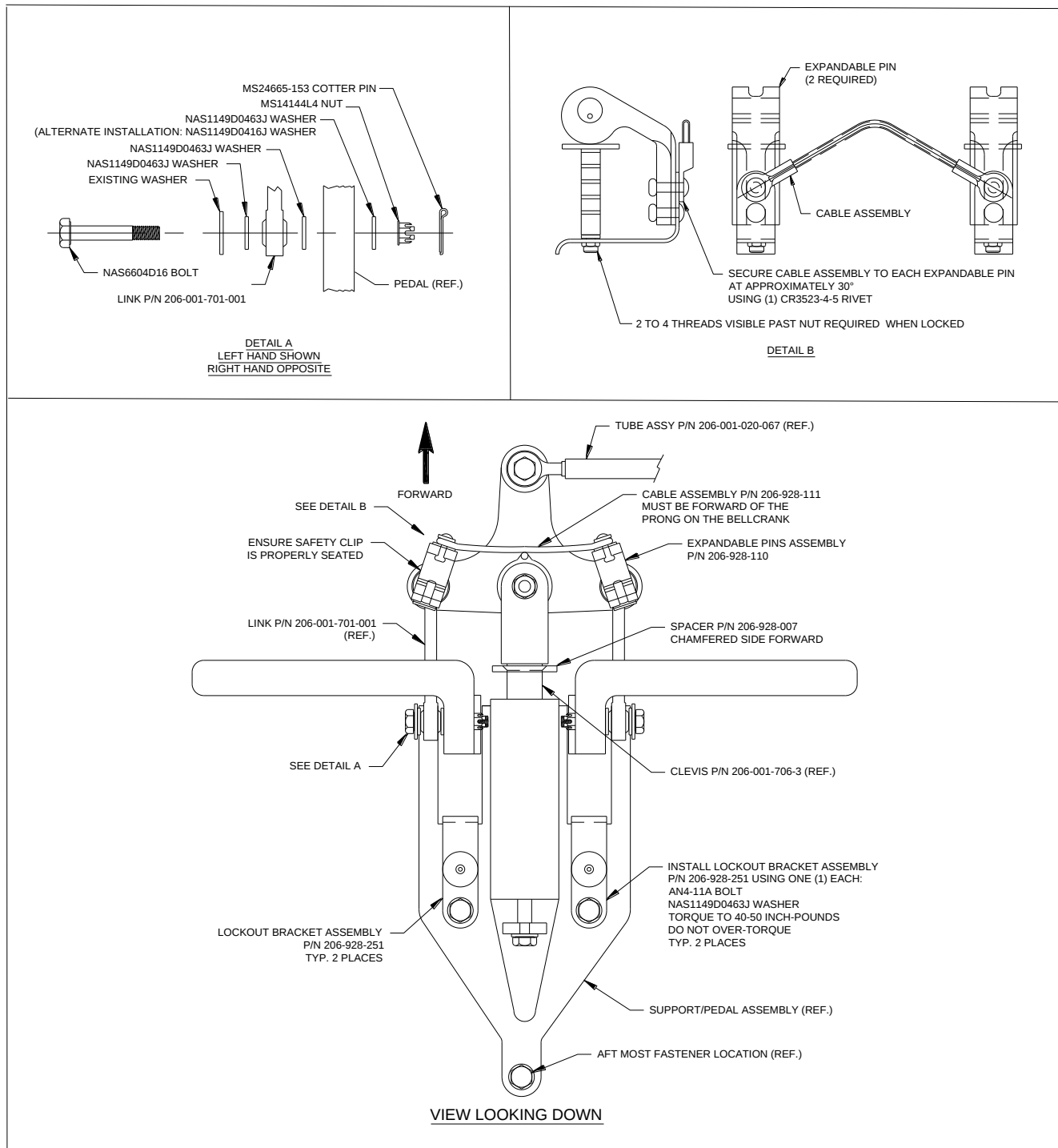


FIGURE 1. TAIL ROTOR PEDAL LOCKOUT KIT INSTALLATION

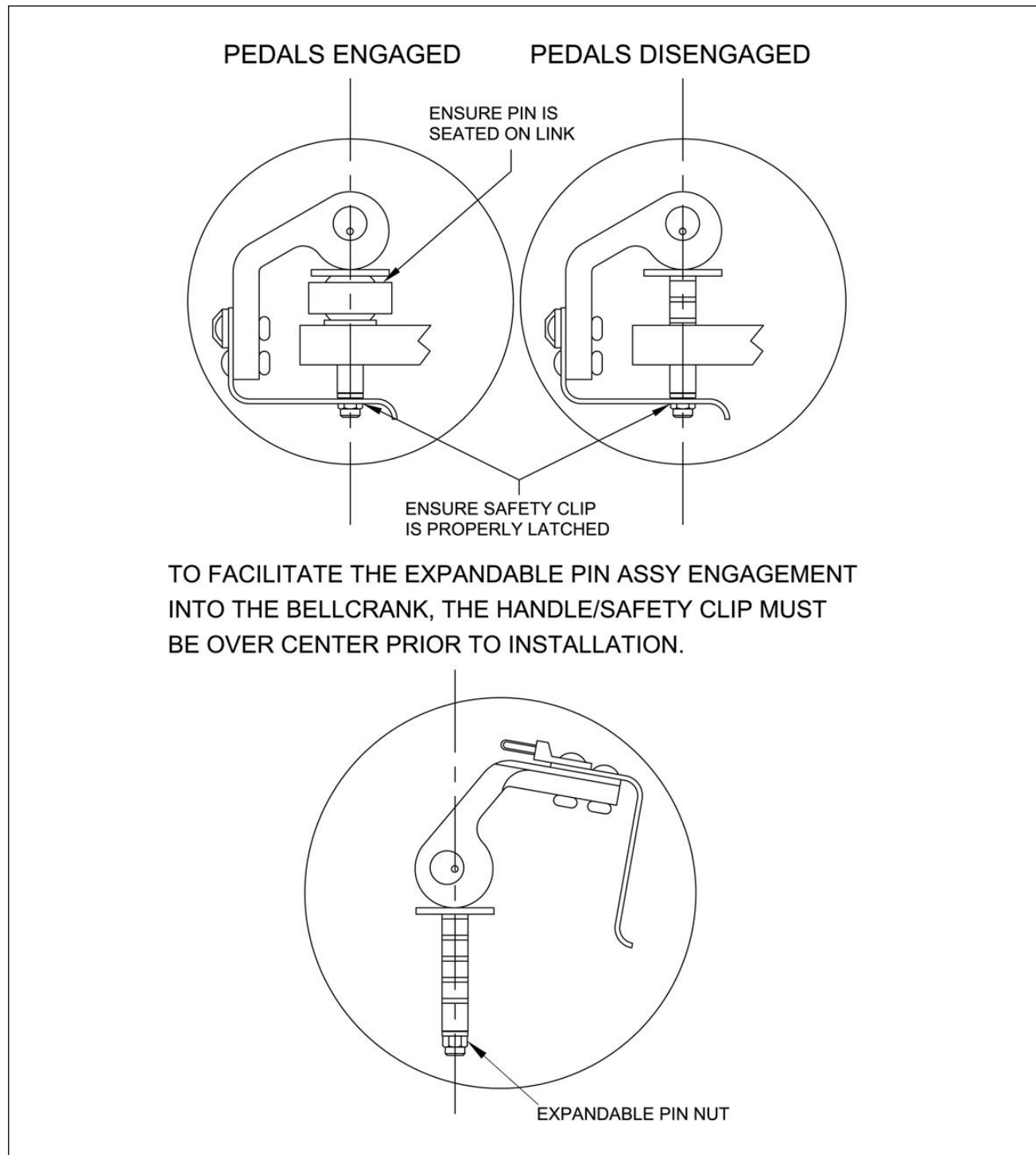


FIGURE 2. EXPANDABLE PIN ASSEMBLY ENGAGEMENT

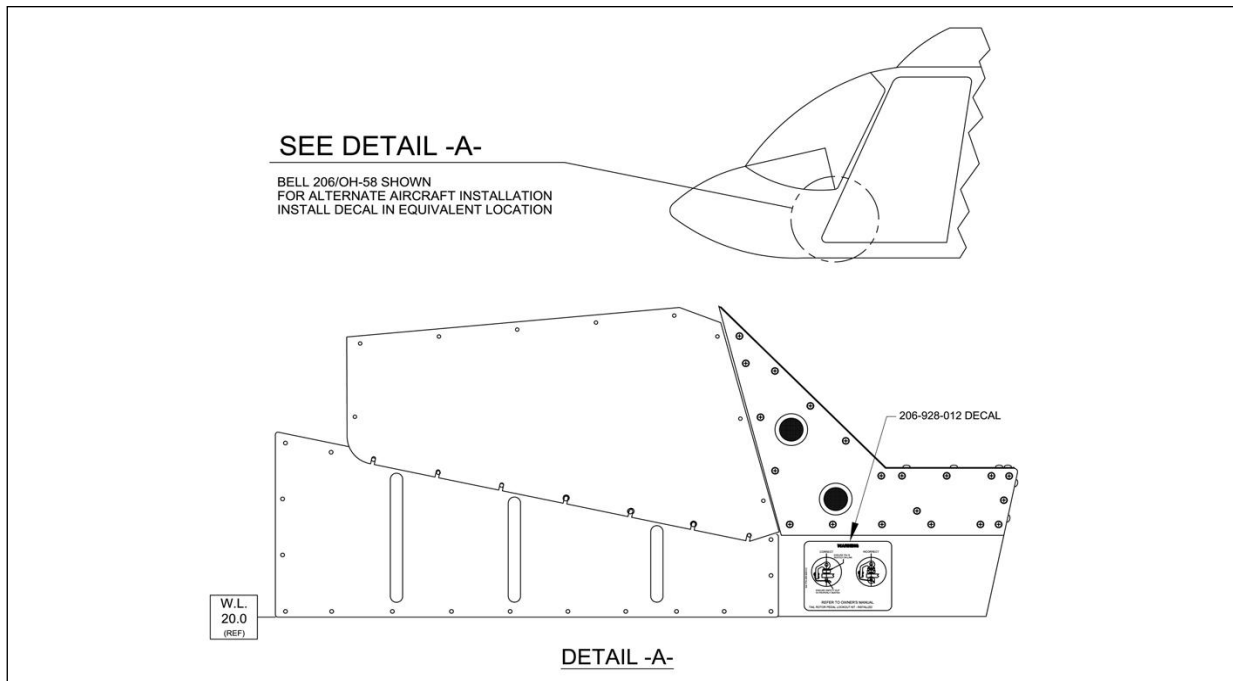


FIGURE 3. 206-928-012 DECAL INSTALLATION LOCATION

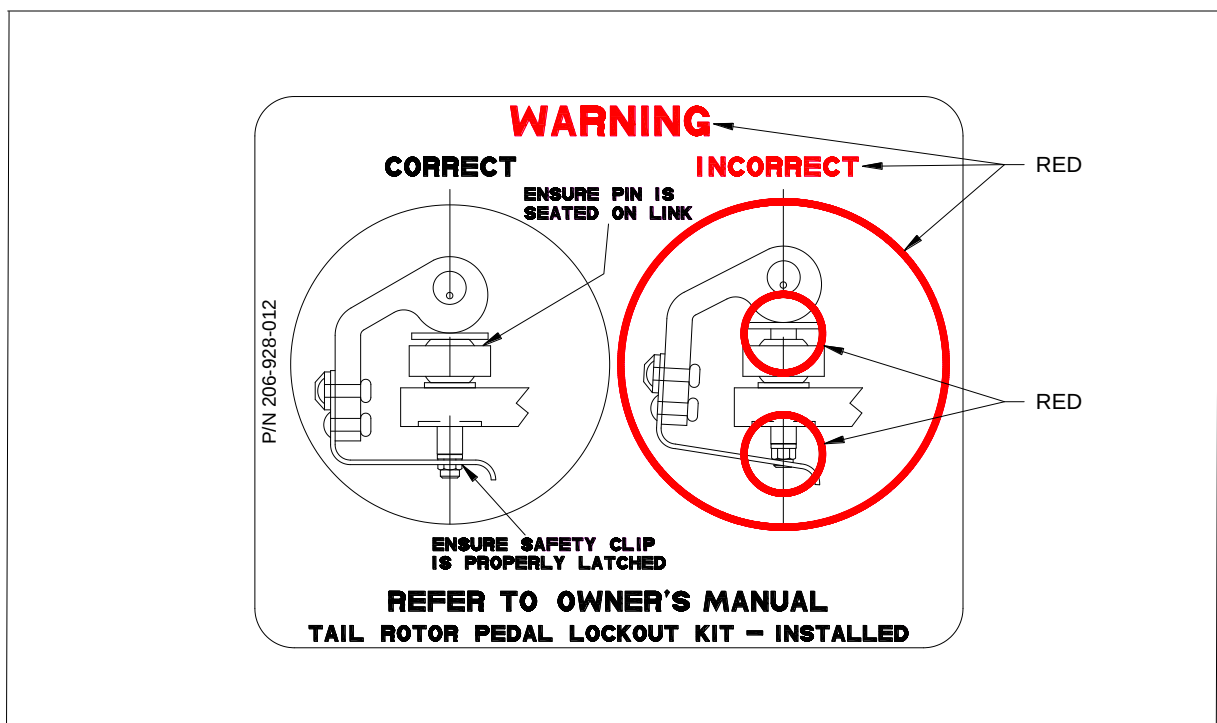


FIGURE 4. 206-928-012 DECAL

BHT 206A, 206B, 206L, **INSTRUCTIONS for CONTINUED AIRWORTHINESS**
206L-1, 206L-3, 206L-4,407, **TAIL ROTOR PEDAL LOCKOUT KIT**
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San Joaquin OH-58A, OH-58A+, OH-58C
Agusta SpA A109, A109A, A109A II,
A109C, A109K2, A109E, A119

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APPENDIX A

Inspection Record

Work Order Number: _____

Registration Number: _____

Serial Number: _____

Total Time: _____

Date: _____

Inspect in accordance with Section 4.2 Annual Inspection.

TAIL ROTOR PEDALS LOCKED OUT

1. Inspect Lockout Bracket Assembly for condition and security of attachment. _____
2. Verify the Expandable pins are properly positioned in the Bellcrank and Safety Clips are properly latched. _____
3. Verify the Links are fully seated and locked on the Lockout bracket Assembly. _____

TAIL ROTOR PEDALS ENGAGED

1. Inspect Warning Decal for condition and security of attachment. _____
2. Inspect Cable Assembly (Lanyard) for condition and security. _____
3. Verify the Expandable Pins are seated on top of the Links. _____
4. Verify the Safety Clips are properly latched. _____
5. Verify there is no play between the Expandable Pins, Links and Bellcrank. _____
6. Position each Tail Rotor Pedal, one at a time, to the full forward position. Verify there is no Pedal-to-Expandable Pin contact. Verify there is no right Expandable Pin contact with the Control Tube. _____

Signature _____ **A & P No.** _____

Signature _____ **Inspector** _____