

**KI-174 R44 & R66 D301-7 Empennage 3.0 Lb Ballast Installation Kit Instructions**

**NOTE**

Visit [www.robinsonheli.com](http://www.robinsonheli.com) to verify kit instructions are current revision. Review instructions before installation; contact [RHC Technical Support](#) with questions. Verify kit contents match list; contact [RHC Customer Service](#) if parts are missing or damaged.

**CAUTION**

Installation of this kit is prohibited on any R44 model with a tailcone battery installation.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-174 Instr.	Kit Instructions .....	1
2	B330-19	Palnut .....	2
3	D210-6	Nut .....	2
4	D301-2	Weight (1.5 lb) .....	2
5	NAS1149F0632P	Washer .....	2
6	NAS1149F0663P	Washer .....	4
7	NAS6606-78	Bolt .....	2

**Consumables**

Refer to R44 Maintenance Manual (MM) § 1.400 or R66 MM § 20-70 for approved materials list.

- Epoxy primer
- R8260 Touch-up paint kit (optional)

**Kit Instructions**

1. Remove ground handling wheel(s), if installed. Wiggle tailcone slightly at tail rotor gearbox to ensure helicopter rests firmly on ground. Position a padded stand lightly against underside of horizontal stabilizer in line with spar, and outboard of vertical stabilizers.
2. Remove horizontal stabilizer-to-tailcone attachment hardware.
3. Remove torque stripe and clean area around and between attachment holes on upper and lower surfaces of stabilizer. Solvent clean stabilizer and weight clamping surfaces.
4. Refer to Figure 1. Install weights using bolts, washers, and nuts provided. Standard torque per R44 MM § 1.320 or R66 MM § 20-32.
5. Install palnuts and standard torque per R44 MM § 1.320 or R66 MM § 20-32. Torque stripe per R44 MM Figure 2-1 or R66 MM Figure 5-1.

**KI-174 Kit Instructions (continued)**

6. Prime hardware. Topcoat weights and hardware with colored (touch-up) paint as desired.
7. Refer to Equipment List and Weight & Balance Record in Pilot's Operating Handbook (POH) Section 6. Amend basic empty weight and center of gravity using the following data as appropriate:

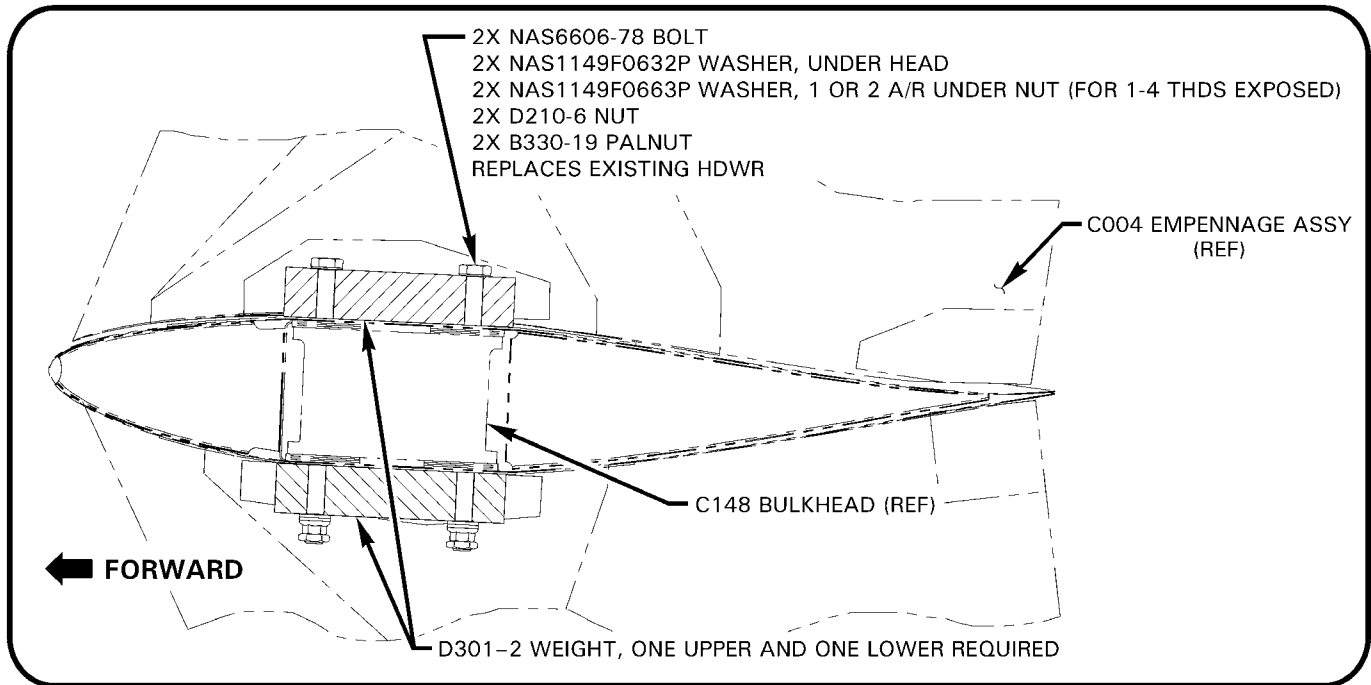
a. R44 POH:

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
D301-7 Ballast Inst'l	+3.0 lb	+325.30 in.	+975.90 in.-lb	N/A	N/A
				(lateral change is negligible)	

b. R66 POH:

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
D301-7 Ballast Inst'l	+3.0 lb	+325.30 in.	+975.90 in.-lb	N/A	N/A
				(lateral change is negligible)	

8. Make appropriate maintenance record entries.



**FIGURE 1**  
(view looking outboard)