

R44-series Ground Handling Wheel (Pop-Out Floats) Installation Kit Instructions
(upgrade to lever-style ground handling wheel assembly)

NOTE

Visit 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.

ITEM	PART NUMBER	KIT CONTENTS	QTY
1	KI-162 Instr.	Kit Instructions	1
2	C944-4	Float Retaining Strip – Mid, Long	4
3	C944-5	Float Retaining Strip – Mid, Short	4
4	D210-4	Nut	6
5	D724-1	Sleeve Weldment	4
6	MT561-1	Drill Template	1
7	MT980-1	Ground Handling Wheel Assembly – Pop-Out Floats (LH)	1
8	MT980-2	Ground Handling Wheel Assembly – Pop-Out Floats (RH)	1
9	091449	Precision Twist Drill Bit – 49/64-inch diameter	1
10	AN4-41A	Bolt	2
11	NAS1149F0432P	Washer	4
12	NAS6604-44	Bolt	4

Kit Instructions

1. Raise helicopter onto blocks to provide working area under and along both sides of skid tubes.

NOTE

Instructions given are for one skid tube. Instructions are to be completed on left-hand and right-hand skid tubes.

2. Refer to Figure 1. Drill out two rivets along bottom of skid tube using a 0.128-inch diameter drill bit. Remove and discard C944-2 strips and retain hardware.

CAUTION

Do not kink inflation hoses.

3. Refer to Figure 2. Locate two existing 0.191-inch diameter holes and two 0.250-inch diameter (sealant-filled) holes near aft strut. Tape float and float cover away from working area, both sides of skid.
4. Layout and drill (1) 0.191-inch diameter hole at 0.500-inch dimension and (1) 0.191-inch diameter hole at 0.700-inch dimension as shown, through each side of skid tube. (Layout and drill from each side of skid tube to ensure proper hole alignment).

Kit Instructions (continued)

5. Refer to Figure 3. Remove sealant from existing 0.250-inch diameter holes on each side of skid tube. Secure MT561-1 drill template using (2) AN4-41A bolts and (2) D210-4 nuts on **inboard** side of skid tube as shown. Torque to 35 in.-lb maximum.
6. Mark hole centers using (091449) 49/64-inch diameter drill bit. Do not attempt to drill through skid tube wall during this step.
7. Drill pilot hole at marked hole center using a 1/4-inch drill bit, drilling through near wall only. Enlarge hole incrementally using 1/2-inch and 5/8-inch drill bits. Enlarge hole to final dimension using 49/64-inch drill bit. Remove drill template.
8. Secure MT561-1 drill template on **outboard** side of skid tube as instructed in step 5. Perform steps 6 and 7.
9. Deburr holes and apply primer to all bare metal surfaces.
10. Refer to Figure 4. Using scissors, cut float and float cover as shown. Melt ends of webbing and rope on float girt with a soldering iron and sew loose material as required to prevent fraying. Punch 0.250-inch diameter holes through material in new locations as shown, using a leather punch or similar tool.
11. Refer to Figure 5. Enlarge mounting holes in D724-1 sleeve weldments to 0.250-inch diameter. Install sleeve weldments as shown using (2) NAS6604-44 bolts, (2) NAS1149F0432P washers, and D210-4 nuts. Torque to 35 in.-lb.
12. Re-attach float and float cover using C944-4 and C944-5 strips and existing hardware as shown in Figure 5. Torque bolts to 25 in.-lb.
13. Wheels are inserted from inboard side. Pull handle aft to lift helicopter.
14. Revise helicopter’s Weight and Balance Record in R44 Pilot’s Operating Handbook (POH) Section 6 to reflect this installation by incorporating the following data:

Install:

Item	Weight	Long. Arm	Long. Moment	Lat. Arm	Lat. Moment
KI-162 Ground Handling Wheel Kit	+0.65 lb	111.6 inches	+72.5 in.-lb	0 inch	0 in.-lb

NOTE

MT980 Ground Handling Wheel Assemblies weigh 8.4 lbs each.

15. Make appropriate maintenance record entries.

Kit Instructions (continued)

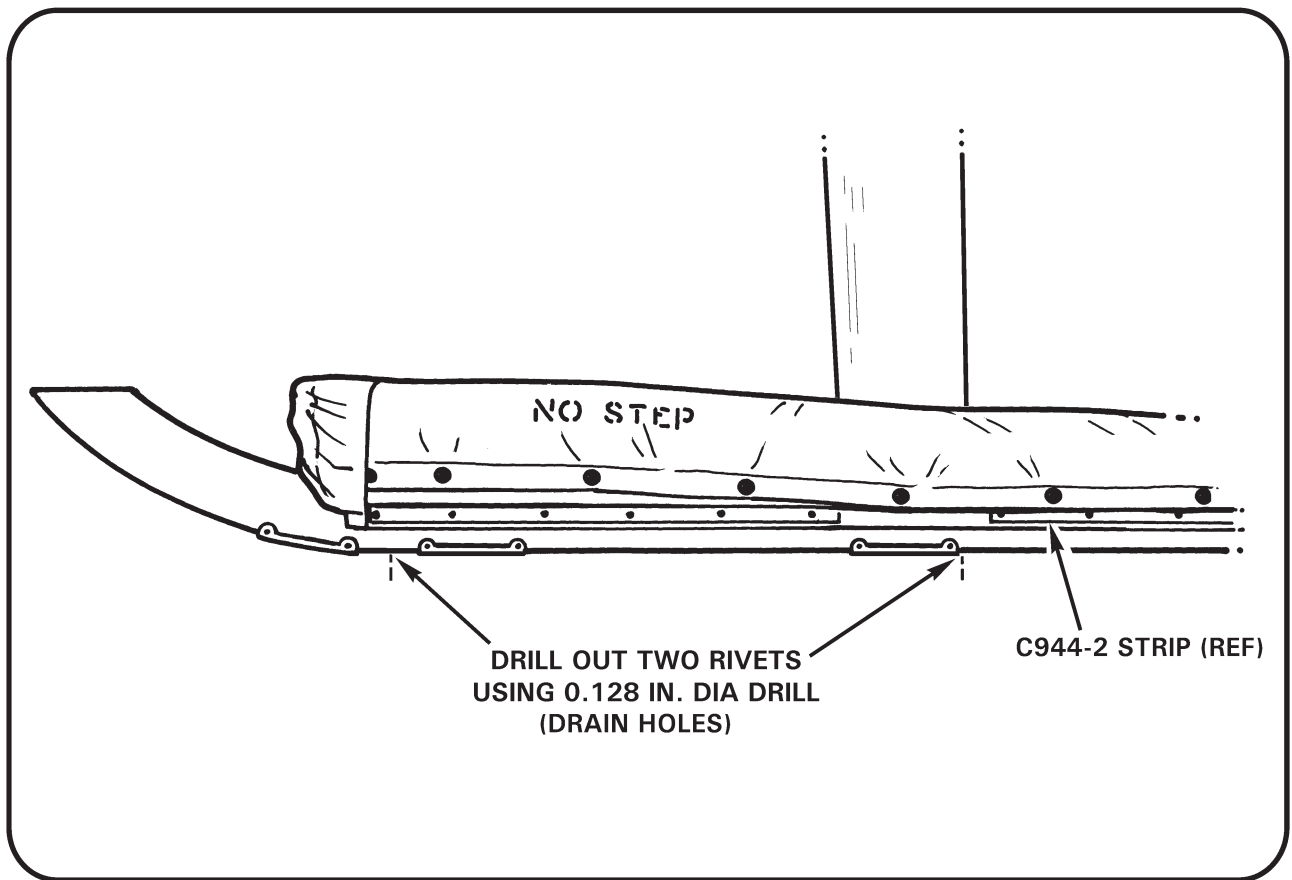


FIGURE 1

Kit Instructions (continued)

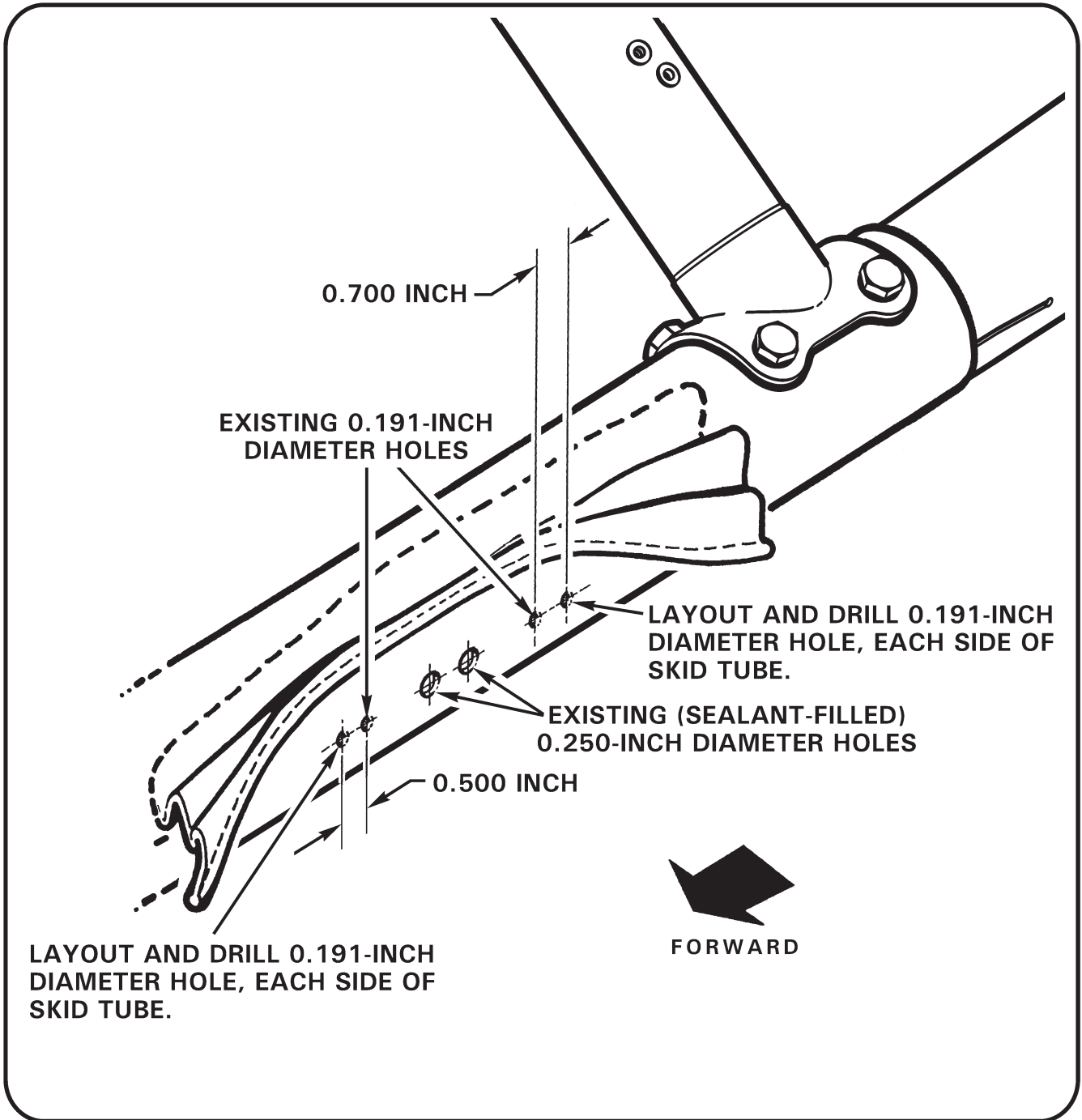


FIGURE 2
(left-hand skid tube shown)

Kit Instructions (continued)

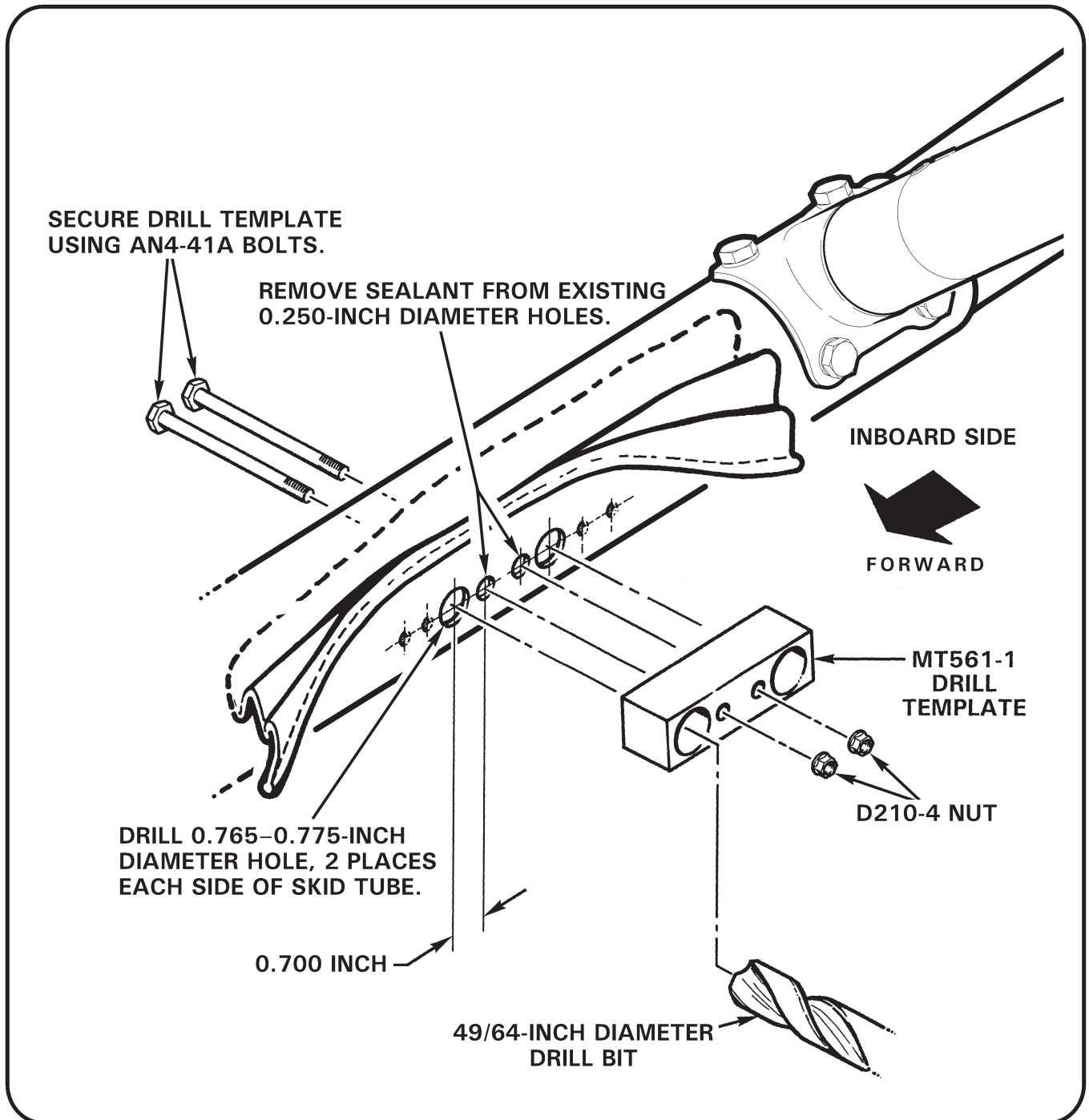


FIGURE 3
(right-hand skid tube shown)

Kit Instructions (continued)

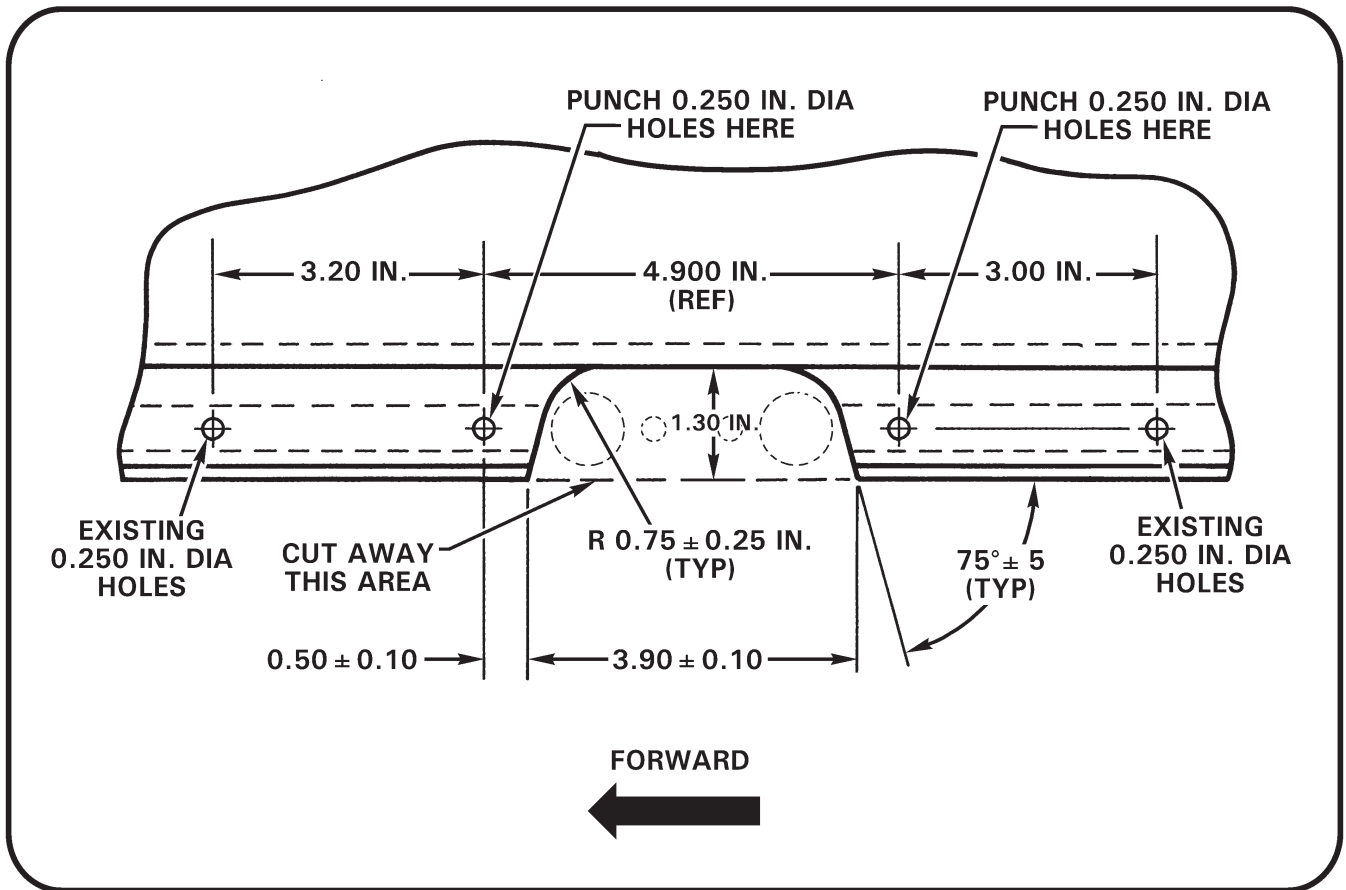


FIGURE 4

Kit Instructions (continued)

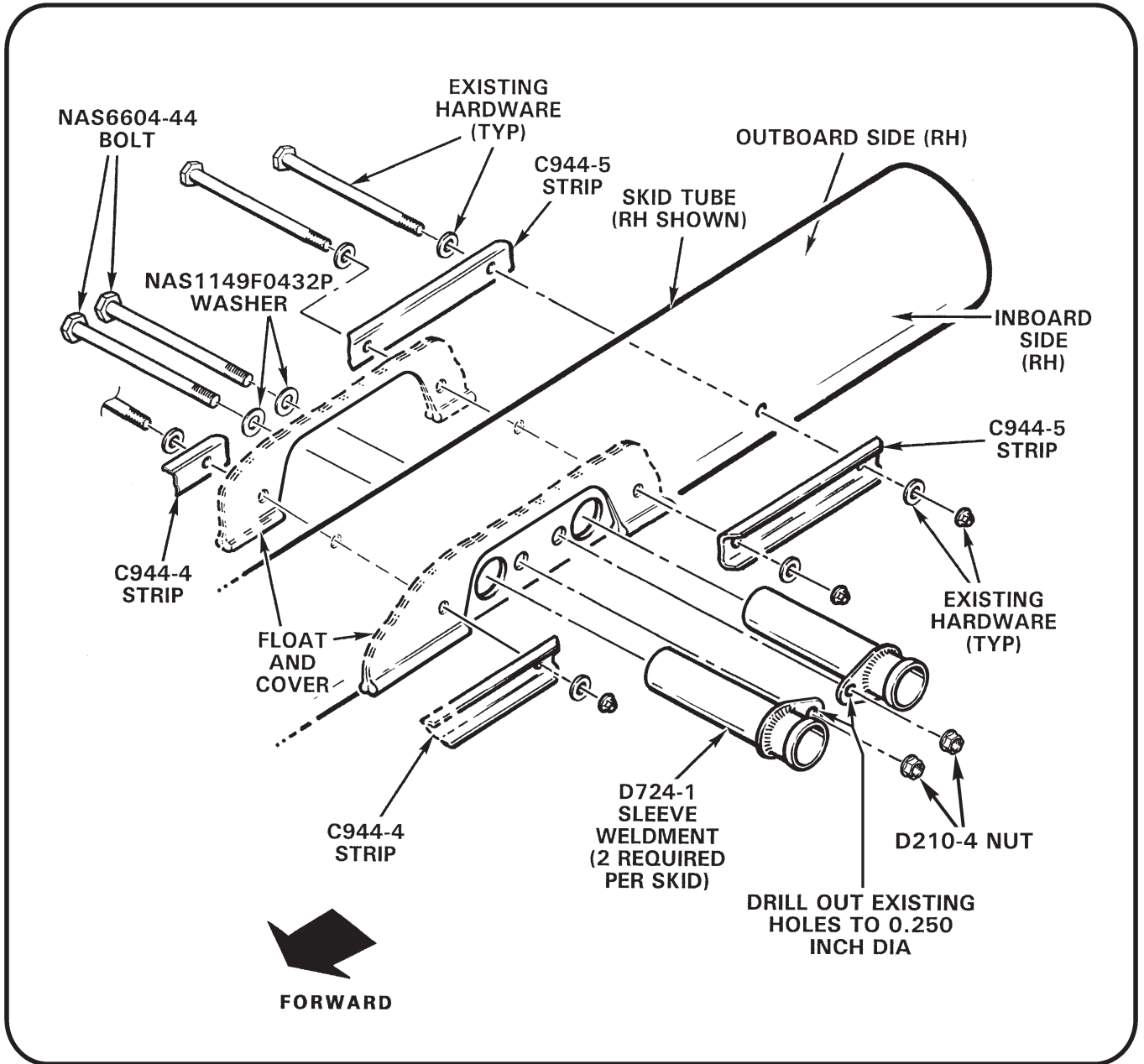


FIGURE 5