



GOODRICH De-Ice Boots Repair material and tools

Goodrich supplies various materials and tools that are designed to make permanent patch repairs to their pneumatic de-ice boots. These are available from Goodrich in a kit, p/n 74-451-AA, or as individual components from EMTC as described in the following.

Permanent patch repairs are not recommended for the following types of damages:

Cuts, tears or ruptures that cut the inflatable tube fabric and/or exceed 4 x 9 inches.

Broken stitch or thread

Damage that leaks air and exceeds the patch guidelines below:

3 small patches per 12" square, or

2 medium patches per 12" square, or

1 large patch per 12" square, or

2 small patches and 1 medium patch per 12" square

Patch application instructions

CAUTION: Patch adhesion is temperature sensitive. For best results, if the ambient temperature is below 10 degrees Celsius, warm de-icer surface prior to applying primer, and warm installed patch while drying. To warm, hold a plastic bag filled with hot water on de-icer surface, and on installed patch. If surface and installed patch are not warmed, patch may not adhere.

CAUTION: Patches have a one-way stretch across the width of the patch so that the patch will stretch as the deicer is inflated. The patch must be installed with the length parallel to the de-icer tubes. Failure to do so may result in the patch lifting when de-icers are inflated.

Note: Patches may be trimmed for small repairs, so long as patch extends a minimum of ½ inch around damaged area in all directions.

- a. Clean de-icer surface to be patched with detergent and hot water, using lint-free cloths to remove dirt, grease and cosmetic coatings. If oil or silicon contamination is present, repeat until removed.

- b. For black de-icers:

Buff de-icer surface with medium grit emery cloth (74-451-192E). Use buffing shield (74-451-87) or patch as template to outline damaged area or use buffing shield as shield during buffing.

For silver de-icers:

Using the buffing shield (74-451-87) or the selected patch as template, outline the damaged area and buff the area thoroughly with medium grit emery cloth (74-451-192) to remove silver coating down to the gray sub-ply. Do NOT buff through the gray sub-ply to the black resilient layer.

- c. Wipe de-icer surface with cloth dampened with cleaning solvent and allow to dry.

NOTE: Primer is applied by pressing tip of primer container against surface to be patched. Amount of primer delivered is controlled by amount of pressure applied on tip. If tip is dry when application is begun, press tip until primer is delivered. If tip is pressed too firmly during application, primer may drip, but can be smoothed out with a clean swab or brush.

- d. Apply one coat of primer to the de-icer surface. Allow to dry to touch (5-10 min.).
- e. Remove paper backing from patch and press patch onto de-icer surface over primer. Roll with rubber roller.
- f. Allow 30 minutes dry time before inflating de-icer.

NOTE: The instructions above are per Goodrich Corporation, De-Icing and Specialty Systems, ATA 30-10-25, 74-451-AA De-Icer FASTPatch Kit Instructions 30-10-25, Revision 5-16-02. The temperature mentioned above has been converted from 50 degrees Fahrenheit.

Repair material available from EMTC:

		Order as Required Per below	For Reference Only Below is Included in Goodrich P/N 74-451-AA
Primer	P/N 74-451-206	SPQ = 1 ea	1 ea
Large patch, 5" x 10",	P/N 74-451-189	SPQ = 1 ea	10 ea
Medium patch, 5" x 2,5",	P/N 74-451-188	SPQ = 1 ea	30 ea
Small patch, 2,5" x 1,25",	P/N 74-451-187	SPQ = 1 ea	30 ea
Emery cloth (3M P/N),	P/N 74-451-192	SPQ = 3 ea	3 ea
Buffing Shield	P/N 74-451-87	SPQ = 1 ea	1 ea
Rubber roller	P/N 74-451-74	not Stocked	not included

NOTES: Primer is **Hazardous Material** and requires special packaging and shipping. It has no shelf life limit and because of high shipping costs it may be of advantage to purchase more than one container at a time.

Patches should be stored at a dry place at maximum 27 degrees Celsius.

The patches are original Goodrich.

The **Rubber Roller** is the original Goodrich rubber roller, **P/N 74-451-74**. The rubber roller is also available. However, due to high cost it is not carried in our stock.