SERVICING THE SCRAPERS

Disc openers utilize three sets of scrapers on the disc blades and depth bands to prevent a buildup of soil that will affect disc operation and proper seed placement. For effective operation of the scrapers inspect frequently and adjust or repair as needed.

- The **inside scraper assembly** (part #AM11828) is a kit attached to the **boot (shoe) casting** (part #0888 - black) with a square headed full thread 1/4" x 2" **bolt** (part #B14-2sq.h) and self-locking **nut** (part #N14-FNL). Scrapers have a **right-hand** (part #50919A) and a **left-hand** (part #50919B) designation and are joined by a **clip** (part #50919D). Place the bolt through the boot casting. Place the clip, with scrapers attached, on the bolt; followed by a **concave plastic wedge** (part #JDN213158); followed by a "U" shaped flat **metal spring** (part #JDN213159); followed by a **convex plastic wedge** (part #JDN213160); followed by the self-locking nut. Tighten the nut leaving one thread exposed. **See Page 90-20, Item #58 for a diagram.**

  Inside scrapers must be positioned prior to installing the disc blades.

- The **outside scraper assembly** is attached to the boot (shoe) casting. There is a groove in the casting where the upper flange of the scraper sits. When facing the drill from the back, the 5/16" x 4 1/2" carriage **bolt** (part #CB516-4.5) is inserted through the **right side scraper**; through the **boot (shoe) casting** (part #0888 - black); through the **left side scraper**; through a 5/16" flat **washer** (part #W516); and through a **compression spring** (part #50919). A 5/16" flanged self-locking **nut** (part #N516-FNL) holds the assembly in place. Adjust the tension so the scrapers clean the disc blades (usually tighten so that one thread is exposed).

  The depth bands, outside scraper assembly, right-hand scrapers, and left-hand scrapers each have a unique part number. Refer to the chart below to determine the correct part numbers.

DEPTH BAND SIZE AND (PART #)	EXPOSED BLADE EDGE	PLANTING DEPTH	SCRAPER ASSEMBLY #	RIGHT-HAND SCRAPER #	LEFT-HAND SCRAPER #
9 1/2" (#1097F)	2"	1"	10845FA	10845F-RH	10845F-LH
11 1/2" (#1097)	1"	1/2"	10845A	10845	10845
12" (#1097C)	3/4"	3/8"	10845CA	10845C-RH	10845C-LH
12 1/2" (# 1097A)	1/2"	1/4"	10845BA	10845B-RH	10845B-LH

IMPORTANT: The ability of the double disc blades to penetrate is affected by mud build-up on the blades. **Keep outside scrapers in good working condition.**

- The **depth band scraper assembly** (part #10995A) is attached to the **boot (shoe) casting** (part #0888-black) with a 1/2" x 3" **bolt** (part #B12-3); 1-1/4" long **spacer** (part #S12-1.25); and a self-locking **nut** (part #N12-CL). **Scrapers** (part #10995 & part #109953) are attached to the assembly with 5/16" x 1-1/4" **bolts** (part #B516-1.25), 5/16" **washers** (part #W516), and self-locking flanged **nuts** (part #516-FNL). After 2/02 standard equipment is the **plastic scraper** (part #10995) with a **hardened metal scraper** (part #109953) as a backing to stiffen the depth band scraper. The scraper blades can be adjusted to the depth band as the scrapers wear. Scraper blades should touch the depth band without applying pressure that will prevent the disc blade from turning. Depth band scrapers should be checked regularly and adjusted or replaced as needed.

IMPORTANT: Bent depth bands affect scraper effectiveness and life. Straighten or replace any bent depth bands.

NOTE: On drills before March 03, as inside and outside scrapers wear, they develop "ears" which can be broken off with pliers and continue to be used. Replace when scrapers show excessive wear and are not keeping the disc blades clean.