



Customer Service Bulletin Commercial Business Group

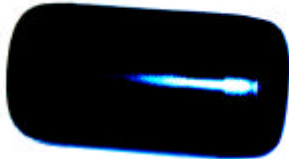
Greensmaster[®] 3000 and 3200 Traction and Cutting Units.

Subject: Miscellaneous Greensmaster Traction and Cutting Unit Maintenance Updates.

This bulletin identifies miscellaneous product maintenance updates that are available for purchase and installation. The bulletin also identifies new cross-references.



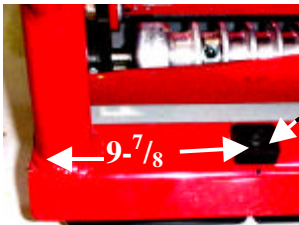
1. The center ball joint used on 1998 and older GR 3200's is now manufactured from stronger material for improved durability. Orders for the original part are now cross-referenced to part #104-7709.



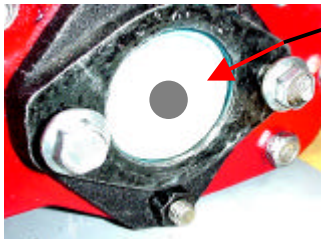
2. The carrier frame roller and shaft on 1999 (some) and older GR 3200's are now manufactured from stronger plastic and harder steel for improved durability. Orders for original parts will be cross-referenced to Shaft (104-2078) and Roller (104-2091).



3. Small (2 inch diameter) Plastic Rollers (104-8290) increase clearance between roller and grass basket (steering type suspension) preventing roller from jamming with clippings.



4. Rubber bumpers (94-1392) and Mounting Screw (12-5450) also reduce turf scuffing (GR 3200 fixed type suspension) by raising the basket and increasing clearance between rollers and basket. Drill a 5/32" (.166) mounting hole centered in the cross-piece. Locate holes 9-7/8 inches from frame edge.



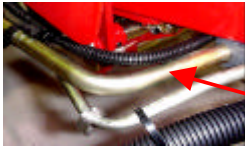
5. A grease displacing Plastic Ring (104-2067) is now available for all GR 3200 series cutting units. The hollow ring fits in the bearing cavity and reduces the quantity of grease required for reel bearing lubrication.



6. The powered rear roller brush has a reinforcement bracket kit (104-2066) available to strengthen the rear mounting frame. This kit is helpful when removing the reels for "bench" servicing. One kit includes 3 brackets and hardware.



7. In some applications, the GR 3200 series cutting units may contribute to aftercut turf color variations. A longer Bedknife (99-4299) and a smaller front Roller (99-6241) may help reduce this problem in some conditions. Do not install on cutting units equipped with the groomer accessory.



8. Some older GR 3100 and 3050's may have minor interference between the Tri-roller frame and a front hydraulic line when the roller frames are raised. New Tubes (100-6431) increase the clearance. Parts orders are automatically cross referenced.



9. The Drive Belt (104-7715) for the GR 3000 series ground driven rear roller brush was improved and is now a light tan color. Parts orders are automatically cross referenced.



10. When desiring higher heights of cut (HOC) with appropriate GR 3200 series cutting units, the High Height of Cut Kit (99-1496) is now available. This kit lowers the front roller and raises the front of the cutting unit. In some applications, maximum HOC range can extend to 1-7/16 inches.

11. When operating a GR 3100 or 3050 on greens with deep undulations, the center carrier frame basket rod may occasionally catch under the frame. A small Bracket (104-2083) is now available and can be clamped and welded to the frame as illustrated (either side or both). The Frame was extended on current production units. We suggest hiring a certified welder for this task.



Carrier Frame Basket Rod

Bracket (104-2083)