

# PARTS & SERVICE NEWS

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**SUBJECT:** TORQUE CONVERTER FREE WHEELING STATOR KIT

**PURPOSE:** To provide parts and installation instructions for the Free Wheeling Stator Kit

**APPLICATION:** GD530A-1 Motor Grader S/N 201114 thru 201440  
 GD530AW-1 Motor Grader S/N 201114 thru 201440  
 GD530A-2 Motor Grader S/N 202002 thru 202050  
 GD530AW-2 Motor Grader S/N 202002 thru 202050  
 GD650A-1 Motor Grader S/N 200840 thru 201491  
 GD650AW-1 Motor Grader S/N 200840 thru 201491  
 GD650A-2 Motor Grader S/N 202001 thru 202050  
 GD650AW-2 Motor Grader S/N 202001 thru 202050  
 GD670A-2 Motor Grader S/N 202011 thru 202050  
 GD670AW-2 Motor Grader S/N 202011 thru 202050  
 830 Motor Grader S/N 200417 thru 201506  
 830B Motor Grader S/N 202038 thru 202050  
 830C Motor Grader S/N 202038 thru 202050  
 850 Motor Grader S/N 200417 thru 201502  
 850B Motor Grader S/N 202013 thru 202050  
 850C Motor Grader S/N 202018 thru 202050  
 870 Motor Grader S/N 200417 thru 201506  
 870B Motor Grader S/N 202028 thru 202050  
 870C Motor Grader S/N 202028 thru 202050

## DESCRIPTION:

### Introduction:

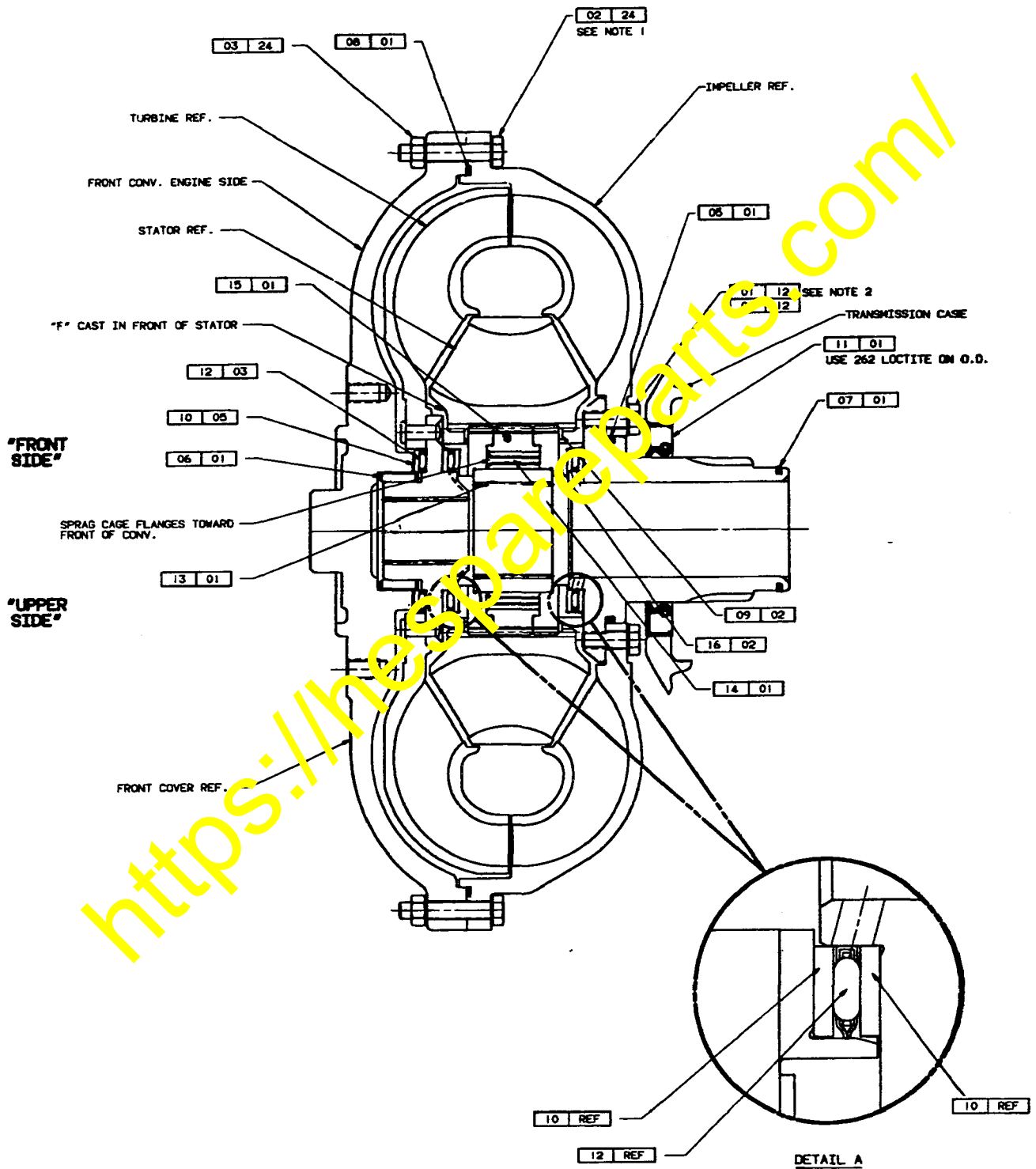
This **PARTS & SERVICE NEWS** presents the procedure for installing the Torque Converter Free Wheeling Stator Kit Part Number 1434 908 H91 in Transmission Part Number 1278 285 H91.

## Contents of Free Wheel Stator Kit

1434 908 H91

**This kit is intended for 1278 285 H91 Transmission ONLY**

ITEM	PART NUMBER	DESCRIPTION	QUANTITY
1	25-492-R1	Capscrew - 5/16-18 x 7/8	12
2	1271 246 H1	Capscrew - 3/8-16 x 1	24
3	25-521-R1	Nut - Hex	24
5	354-836-R1	O-Ring	1
6	1244 254 H1	Bearing	1
7	560 476 C1	Ring, Gear Seal	1
8	562-600-C1	O-Ring	1
9	133 102	Ring, Retaining	2
10	133 107	Washer, Thrust	5
11	1431 220 H1	Seal, Oil	1
12	625 060 C91	Bearing, Needle Thrust	3
13	562 602 C1	Race, Inner Clutch	1
14	562 612 C1	Clutch Assembly, Sprag	1
15	1434 895 H1	Race, Outer Clutch	1
16	1434 896 H1	Retainer, Clutch	2
4	309-161-R1	Dyna Seal Washer	12



### REWORK INSTRUCTIONS

1. Remove drive plate, clean Loctite from tapped holes and capscrews. (Not Shown)
2. Position converter with front cover-up.
3. Remove front cover, remove turbine. Remove stator assembly, flip impeller assembly over and replace capscrews (item 1) Dyna seal washers ( Item 4) and O-ring (Item 5). Apply Loctite #262 to capscrews at assembly and torque to 23 lb ft  $\pm$  2 lb ft (12 places)
4. Position stator assembly so front of stator (Cast "F") is up.
5. Remove top snap ring, remove solid stator adapter, remove bottom snap ring.
6. Install new lower snap ring (Item 9). Install new lower clutch retainer (item 16).
7. Sub-assemble new inner race (item 13) sprag clutch (item 14) and outer race (item 15). Install sub-assembly in stator with sprag cage flanges up (Toward cast "F").
8. Install new upper clutch retainer (item 16), and upper snap ring (item 9).
9. While viewing stator from front (Cast "F" side) hold inner race (item 13) stationary, stator must rotate clockwise.
10. Install new thrust washer (item 10) into impeller, (front side should be positioned up), install new needle thrust bearing (item 12), and second new thrust washer (item 10) into impeller per Detail A.
11. Install new stator assembly, ensure front of stator (Cast "F" side) is toward front cover.
12. Install new thrust washer (item 10). Install new needle thrust bearing (item 12) and second new thrust washer (item 10). Per Detail A. Install turbine.
13. Remove old bearing (item 6) from front cover, place new thrust washer (item 10) on thrust face of front cover, install new bearing (item 6) until flush with top of thrust washer. Remove thrust washer.
14. Install new thrust bearing (item 12) onto surface of turbine hub. Install new thrust washer (item 10). Note that only one thrust washer is used at this location.
15. Remove old o-ring and replace with new o-ring (item 8). Install front cover with new bolts (item 2) and hex nuts (item 3). Torque to 26 lb ft  $\pm$  2 lb ft (24 places) Ensure that needle bearing (item 6) previously installed in Step 13, pilots into I.D. of thrust washer (item 10).
16. Remove old ring gear seal and replace with new ring gear seal (item 7). Reinstall drive plate and apply Loctite #262 to capscrews. Torque to 30 lb. Ft..
17. Before reinstalling converter into transmission, remove old oil seal and replace with new oil seal (item 11)