Torque specs, wear limits and set-up numbers for Staffs/Elite Transaxles

Torque Specifications

1. Rear cover nuts (1/4”-28)	4 ft-lb
2. Bearing carrier and sideplate nuts (5/16”-24)	10-12 ft-lb
3. Main pinion shaft nut (7/8”-20, with blue loctite)	115 ft-lb
4. Layshaft nut (both 7/8”-20, with blue loctite)	115 ft-lb
5. Shift fork nuts (self locking with Red Loctite)	35 ft-lb
6. Main pinion bearing retainer plate bolts (with red Loctite)	20 ft-lb
7. Main pinion bearing nut (with red Loctite)	180 ft-lb

Note: check torque of pinion bearing nut at each gear change.

8. Ring gear bolts, (7/16”-20) steel diff (with red Loctite)	75 ft-lb
9. Ring gear bolts, (7/16”-20) aluminum diff (with red Loctite)	70 ft-lb

Wear limits

(normally the component is replaced when it reaches this limit)

1. Shift fork dog ring groove	.208”
2. 1st/reverse shift fork (thickness)	.130”
3. Dog lug maximum rounding (both gear and dog lugs)	25% of lug height
4. Rear layshaft bearing maximum axial play	.035”
5. Top hat wear	no pitting
6. Front layshaft bearing journal	no pitting
7. Maximum pinion gear tooth pitting	15% of tooth
8. Differential gears	no pitting
9. Shift linkage Apex joints (entire shift linkage)	5° max angular slop
10. Main pinion bearing	no play

Note: the main pinion bearing nut must be tight in order to perform this check.

Set-up numbers

1. Ring and Pinion backlash	as marked on R&P
2. Differential preload	.010”-.012”