

1/2/20

1966 Tucker Transfer Case

Factory uses 20-25 ft-lbs on
2000 XL Transfer Case, Do NOT
Now what size then Fasteners Are

5/16 - 24 UNF, Dry Threads
GRADE 5 bolts

- 1) FINGER TIGHT
- 2) SNUG TO 4.2 ft lb (50 in lb)
(30%)
- 3) TIGHTEN TO 8.4 ft lb (100 in lb)
(60%)
- 4) TIGHTEN TO 14 ft lb (168 in lb)
USED 16 ft lb (Final)

Bearing End play

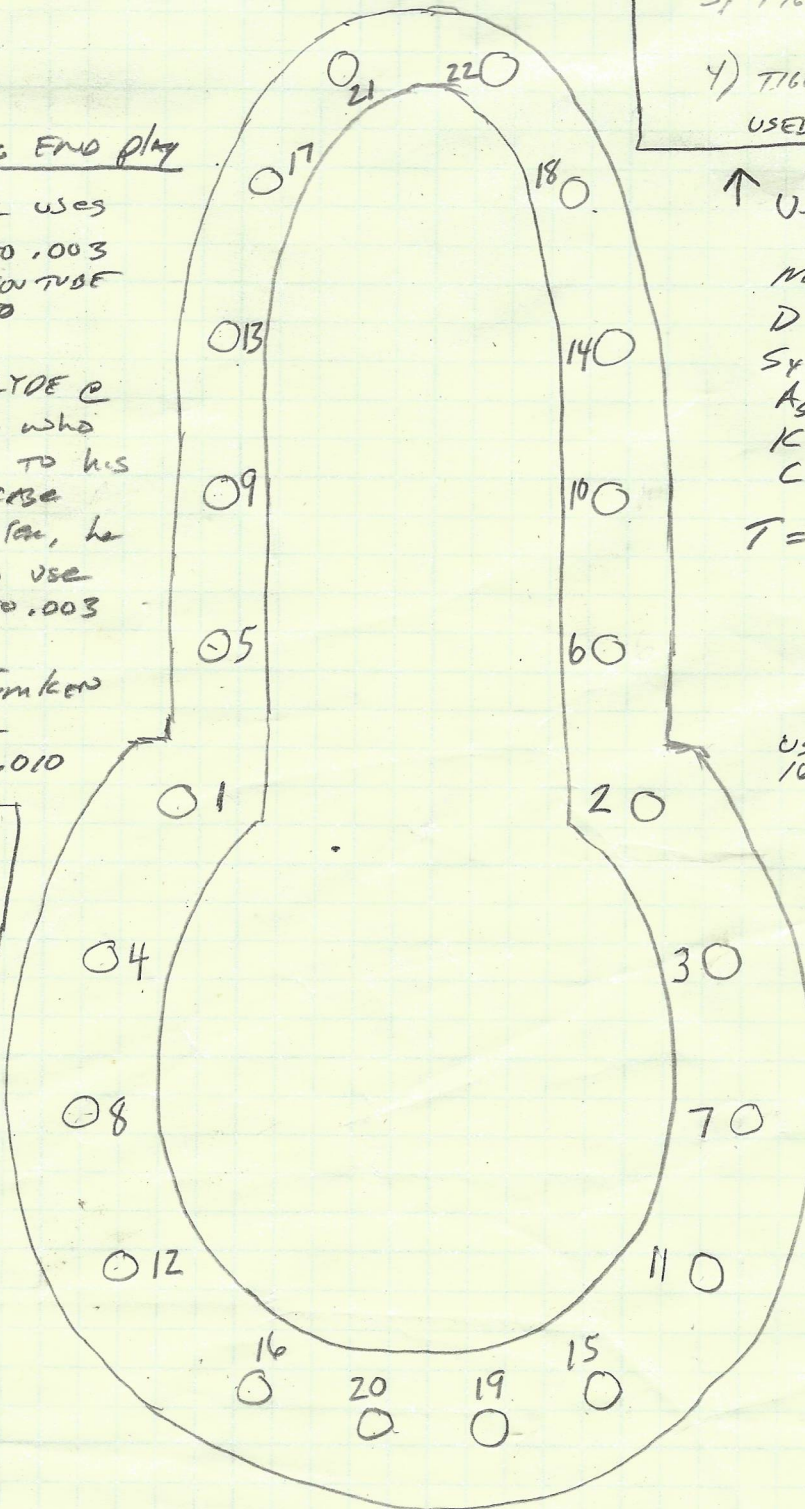
2000 XL uses
.001 TO .003
PER YOUTUBE
VIDEO

PER CLYDE @
Tucker who
talked to his
XFER CASE
Assemblies, he
said to use
.002 TO .003

PER Timken
Manual
.004 TO .010

USE
.002
TO
.004

↑
All 3
ENDED
UP @
± .002



↑ USE THIS TORQUE ↑

$$\begin{aligned}
 M &= .2 (\text{min}) \quad .5 (\text{max}) \\
 D &= .3125 \\
 S_y &= 92,000 \\
 A_s &= .0580 \\
 K &= .2 (\text{Dry}) \\
 C &= .0833
 \end{aligned}$$

$$T = M \times D \times S_y \times A_s \times K \times .0833$$

$$T_{\text{min}} = 5.6 \text{ ft lb}$$

$$T_{\text{max}} = 13.9 \text{ ft lb}$$

USED 16 ft lb
USE 14 ft lb
AS Final

For 3/4" shafts

$$\begin{aligned}
 D &= .750 \\
 S_y &= 60,000 \text{ OR } 35,000 \\
 A_s &= .373
 \end{aligned}$$

$$\begin{aligned}
 @ 60 \text{ ksi} \\
 T_{\text{min}} &= 56 \text{ ft lb} \\
 T_{\text{max}} &= 140 \text{ ft lb}
 \end{aligned}$$

$$\begin{aligned}
 @ 35 \text{ ksi} \\
 T_{\text{min}} &= 33 \text{ ft lb} \\
 T_{\text{max}} &= 82 \text{ ft lb}
 \end{aligned}$$

TORQUE Between
56 AND 82 ft lb

USE 82 ft lb
DRY

↑
Factory uses
80 ft lb on
the 2000 XL