

# 440 Double Stage Exploded View Drawing

| ITEM | QTY | DESCRIPTION                      | MODEL 440 RATIOS     |                      |                      |                      |
|------|-----|----------------------------------|----------------------|----------------------|----------------------|----------------------|
|      |     |                                  | 19:1<br>3.95<br>4.77 | 28:1<br>5.87<br>4.77 | 36:1<br>7.59<br>4.77 | 47:1<br>7.59<br>6.19 |
| 1    | 1   | Base A round                     | 42-004-3012          | 42-004-3012          | 42-004-3012          | 42-004-3012          |
|      |     | Base F flangeless                | 42-004-3022          | 42-004-3022          | 42-004-3022          | 42-004-3022          |
| 2    | 1   | Shaft output D1                  | 42-004-4012          | 42-004-4012          | 42-004-4012          | 42-004-4012          |
|      |     | Shaft output D2                  | 42-004-4022          | 42-004-4022          | 42-004-4022          | 42-004-4022          |
| 3    | 1   | SAE 'C' 2 Bolt and 4 Bolt        | 42-004-2012          | 42-004-2012          | 42-004-2012          | 42-004-2012          |
|      |     | SAE 'D' 4 Bolt                   | 42-004-2022          | 42-004-2022          | 42-004-2022          | 42-004-2022          |
|      |     | SAE 'E' 4 Bolt                   | 42-004-2032          | 42-004-2032          | 42-004-2032          | 42-004-2032          |
| 4    | 1   | Ring gear secondary              | 42-004-1032          | 42-004-1032          | 42-004-1032          | 42-004-1032          |
| 5    | 1   | Ring gear primary                | 42-004-1042          | 42-004-1042          | 42-004-1042          | 42-004-1042          |
| 6    | 3   | Planet gear - sec                | 42-004-1092          | 42-004-1092          | 42-004-1092          | 42-004-1242          |
| 7    | 3   | Planet gear - pri                | 42-004-1102          | 42-004-1112          | 42-004-1272          | 42-004-1272          |
| 8    | 1   | Carrier - secondary              | 42-004-1402          | 42-004-1402          | 42-004-1402          | 42-004-1392          |
| 9    | 1   | Carrier - primary                | 42-004-1062          | 42-004-1072          | 42-004-1282          | 42-004-1282          |
| 10   | 1   | Sun gear secondary               | 42-004-1132          | 42-004-1132          | 42-004-1132          | 42-004-1252          |
| 11   | 1   | Input gear 13 tooth, 8/16        | 42-004-1152          | 42-004-1162          | 42-004-1172          | 42-004-1172          |
|      | 3   | For 14 tooth, 12/24, use adapter | 98-005-1141          | 98-005-1141          | 98-005-1141          | 98-005-1141          |
| 12   | 1   | Planet shaft - sec               | 42-004-1332          | 42-004-1332          | 42-004-1332          | 42-004-1332          |
| 13   | 3   | Planet shaft - pri               | 42-004-1342          | 42-004-1342          | 42-004-1342          | 42-004-1342          |
| 14   | 6   | Planet thrust washer-sec         | 42-004-1362          | 42-004-1362          | 42-004-1362          | 42-004-1362          |
| 15   | 6   | Planet thrust washer - pri       | 42-004-1362          | 42-004-1362          | 42-004-1362          | 42-004-1362          |
| 16   | 180 | Roller sec-2 x 20, pri-1 x 20    | 01-106-0040          | 01-106-0040          | 01-106-0040          | 01-106-0040          |
| 17   | 3   | Roller spacer washer             | 42-004-1352          | 42-004-1352          | 42-004-1352          | 42-004-1352          |
| 18   | 1   | Retaining ring - secondary       | 01-160-0680          | 01-160-0680          | 01-160-0680          | 01-160-0680          |
| 19   | 1   | Retaining ring - sun gear        | 01-160-0690          | 01-160-0690          | 01-160-0690          | 01-160-0690          |
| 20   | 6   | Roll pin                         | 01-153-0220          | 01-153-0220          | 01-153-0220          | 01-153-0220          |
| 23   | 1   | Bearing outer cone (67388)       | 01-102-0290          | 01-102-0290          | 01-102-0290          | 01-102-0290          |
| 24   | 1   | Bearing outer cup (67322)        | 01-103-0290          | 01-103-0290          | 01-103-0290          | 01-103-0290          |
| 25   | 1   | Bearing inner cone (71450)       | 01-102-0280          | 01-102-0280          | 01-102-0280          | 01-102-0280          |
| 26   | 1   | Bearing inner cup (71750)        | 01-103-0280          | 01-103-0280          | 01-103-0280          | 01-103-0280          |
| 27   | *   | Shim                             | 42-004-1202          | 42-004-1202          | 42-004-1202          | 42-004-1202          |
| 28   | 1   | Lock ring                        | 42-004-1212          | 42-004-1212          | 42-004-1212          | 42-004-1212          |
| 29   | 1   | Split ring                       | 42-004-1222          | 42-004-1222          | 42-004-1222          | 42-004-1222          |
| 30   | 1   | Seal output shaft                | 01-405-0770          | 01-405-0770          | 01-405-0770          | 01-405-0770          |
| 31   | 2   | Thrust washer                    | 01-112-0400          | 01-112-0400          | 01-112-0400          | 01-112-0400          |
| 32   | 1   | Thrust bearing                   | 01-112-0410          | 01-112-0410          | 01-112-0410          | 01-112-0410          |
| 33   | 3   | O-ring                           | 01-402-0840          | 01-402-0840          | 01-402-0840          | 01-402-0840          |
| 34   | 20  | Hex head capscrew 5/8-11 X 8.5   | 01-150-1840          | 01-150-1840          | 01-150-1840          | 01-150-1840          |
| 35   | 20  | Lockwasher                       | 01-166-0040          | 01-166-0040          | 01-166-0040          | 01-166-0040          |
| 36   | 3   | Plug - 3/4 NPT magnetic          | 01-207-0090          | 01-207-0090          | 01-207-0090          | 01-207-0090          |
| 37   | 2   | Plug - sae -12 port              | 01-208-0030          | 01-208-0030          | 01-208-0030          | 01-208-0030          |
| 38   | 1   | Plug - 1/4 NPT                   | 01-207-0020          | 01-207-0020          | 01-207-0020          | 01-207-0020          |
|      |     | Grease Fitting 1/4 NPT           | 01-215-0040          | 01-215-0040          | 01-215-0040          | 01-215-0040          |

\* QUANTITY OF SHIMS DETERMINED BY BEARING PRE-LOAD REQUIRED

X440LD2-aa DATE:08-31-05

