

**NOTE**

- Apply molybdenum oil to the shifter gear grooves.
- Always install the thrust washers and snap rings with the chamfered (rolled) edge facing away from the thrust load.
- After installing a snap ring, slightly open the ring and rotate it in its groove to be sure it is fully seated.
- Do not use worn snap rings which could easily spin in the groove. They may be too loose to properly seat in the groove.
- Align the gap in the snap ring with the groove of spline.

**Requisite Service**

- Transmission removal/installation (page 10-8)

| Procedure |                                    | Q'ty | Remarks  |
|-----------|------------------------------------|------|--|
|           | <b>Mainshaft Disassembly Order</b> |      | Assembly is in the reverse order of disassembly.                         |
| (1)       | Needle bearing outer case          | 1    |  |
| (2)       | Needle bearing                     | 1    |  |
| (3)       | Washer                             | 1    |  |
| (4)       | M2 gear (15T)                      | 1    |  |
| (5)       | Lock plate                         | 1    |  |
| (6)       | Lock washer                        | 1    | At installation, align the tabs on the plate with cut out of the washer. |
| (7)       | M6 gear (22T)                      | 1    |  |
| (8)       | M6 gear spline bushing             | 1    |  |
| (9)       | Spline washer                      | 1    |  |
| (10)      | Snap ring                          | 1    |  |
| (11)      | M3/M4 gear (17/19T)                | 1    |  |
| (12)      | Snap ring                          | 1    |  |
| (13)      | Spline washer                      | 1    |  |
| (14)      | M5 gear (23T)                      | 1    |  |
| (15)      | M5 gear bushing                    | 1    |  |
| (16)      | Washer                             | 1    |  |
| (17)      | Mainshaft bearing                  | 1    | At installation, install it with bearing stopper on the outside.         |
| (18)      | Mainshaft/M1 gear                  | 1    |  |