

# Synchronizer Sleeve, Shift Shaft

## Shift Fork to Synchronizer Sleeve Clearance

1. Check clearance between each shift fork and its matching synchronizer sleeve.

### FORK-TO-SLEEVE CLEARANCE (ALL THREE FORKS & SLEEVES)

Standard (New): 0.35–0.65 mm  
(0.014–0.026 in.)

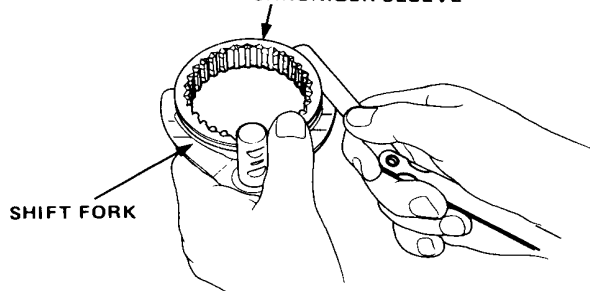
Service Limit: 1.0 mm (0.039 in.)

2. If fork-to-sleeve clearance is too great, measure width of groove in synchronizer sleeve.

Standard (New): 6.75–6.85 mm  
(0.266–0.270 in.)

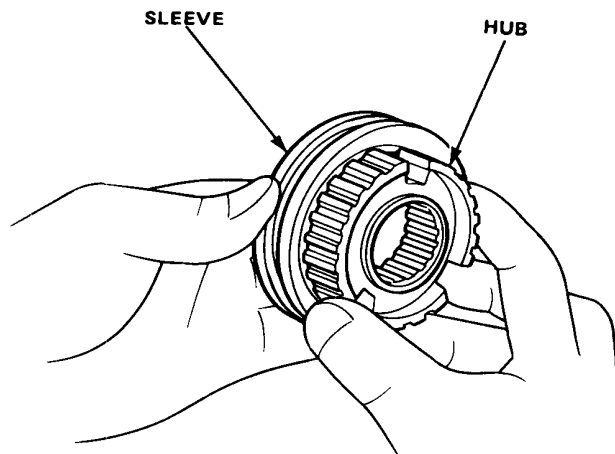
Service Limit: 6.00 mm (0.236 in.)

SYNCHRONIZER SLEEVE



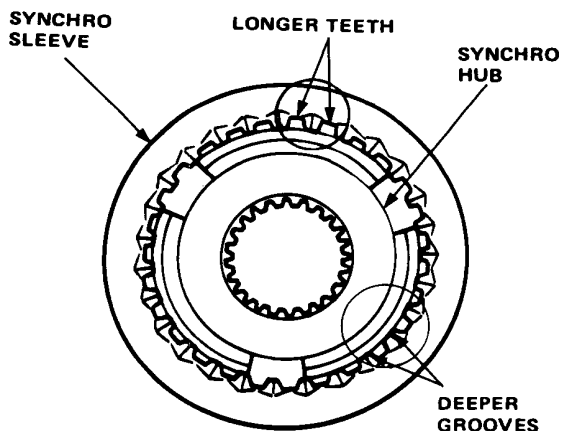
## Synchronizer Sleeve and Hub Inspections

1. Inspect gear teeth on all synchro hubs and sleeves for rounded off corners, indicating wear.
2. Install each hub in its mating sleeve and check for freedom of movement.



## Installing Synchronizer Hubs in Sleeves

Each synchronizer sleeve has three sets of longer teeth (120 degrees apart) that must be matched with the three sets of deeper grooves in the hub when assembled.



## Third/Fourth Shift Shaft to Shift Guide Clearance

1. Check third/fourth shift shaft-to-shift guide clearance as shown.

### SHAFT-TO-GUIDE CLEARANCE

Standard (New): 0.2–0.5 mm (0.008–0.02 in.)

Service Limit: 0.8 mm (0.03 in.)

2. If clearance is too great, measure width of shift guide tab.

Standard (New): 11.9–12.0 mm  
(0.469–0.472 in.)

