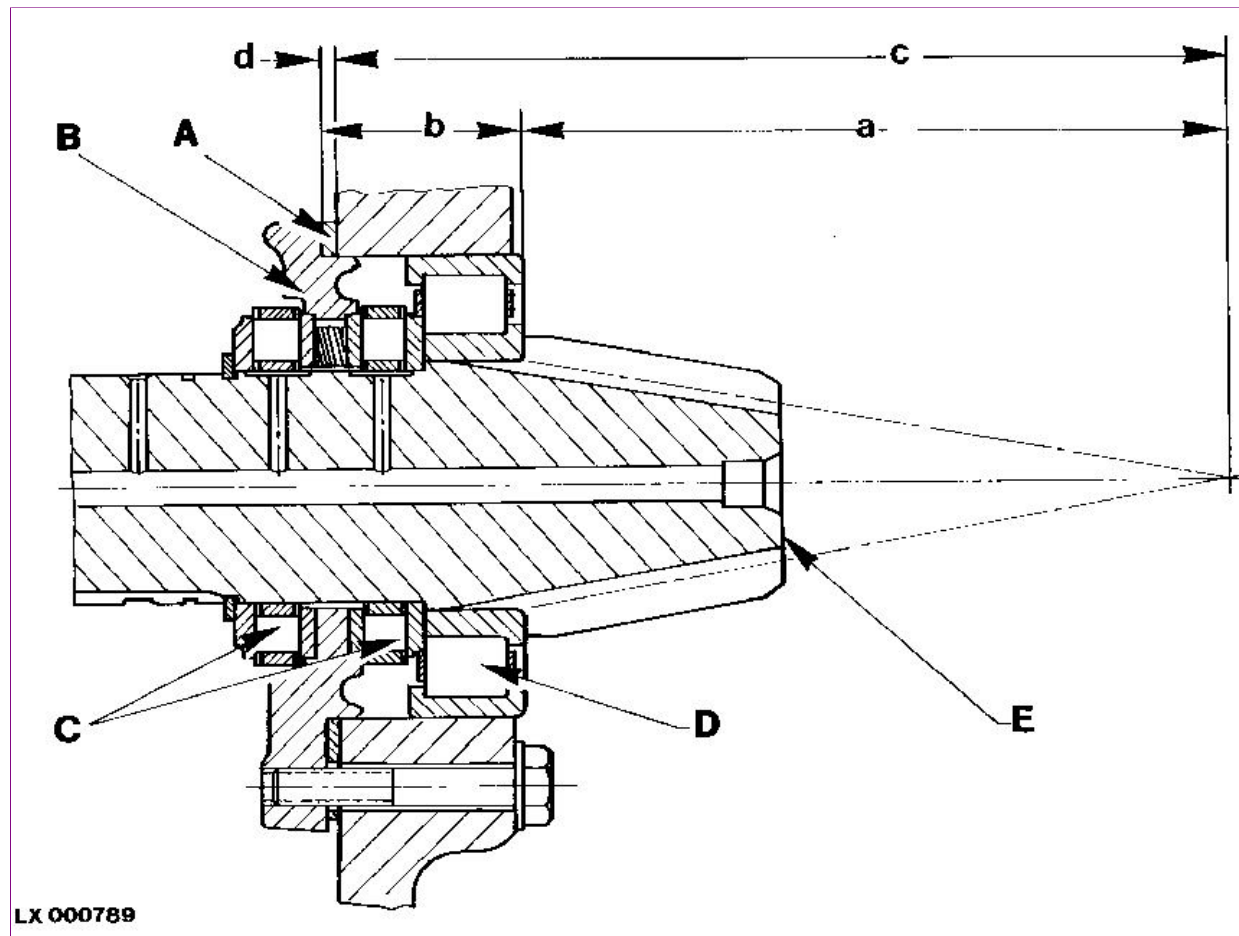


Cone Point Adjustment



LX 000789-UN: Cone Point Adjustment

LEGEND:

- A - Spacer washer (use as required)
- B - Bearing quill
- C - Axial bearing
- D - Needle bearing
- E - Differential drive shaft face

1. Record dimension (a) stamped into bevel gear face. In most cases this dimension is exactly 172,0 mm (6.772 in.).
2. Measure dimension (b) from needle bearing to bearing quill.
3. Cone point dimension (c) of differential housing is always 219,5 mm (8.642 in.).
4. Calculate spacer washer thickness (d).

$$d = a + b - c$$

∴ Spacer Washer Thickness

Thickness of Spacer Washers Available

0,2 mm (0.008 in.) 0,5 mm (0.020 in.)
0,3 mm (0.012 in.)

Example:

∴ Calculation Example

Dimension stamped into bevel gear face.....a=172,0 mm (6.772 in.)

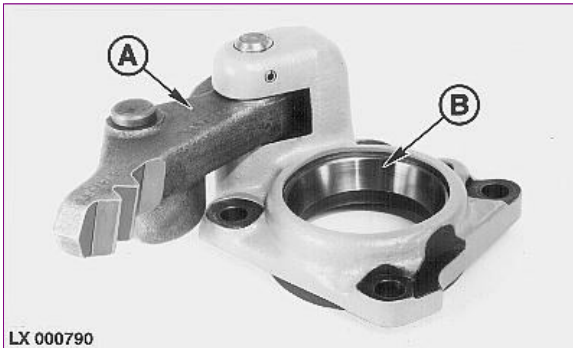
Dimension from needle bearing to bearing quill, measured.....b=48,1 mm (1.894 in.)

Cone point dimension on differential housing as specified.....c=219,5 mm (8.642 in.)

$$d = 172,0 \text{ mm} + 48,1 \text{ mm} - 219,5 \text{ mm}$$

- d = 0,6 mm
- d = 6.772 in. + 1.894 in. - 8.642 in.
- d = 0.024 in.

In the example two 0,3 mm (0.012 in.) spacer washers have to be used.

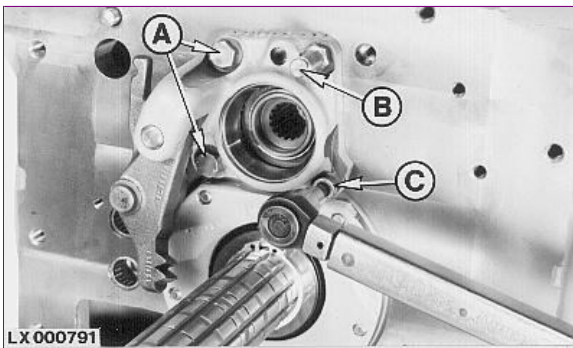


LX 000790

LX000790-UN: Locking Latch and Taper Roller Bearing Cup

Press taper roller bearing cup (B) into bearing quill.

Install locking latch (A).

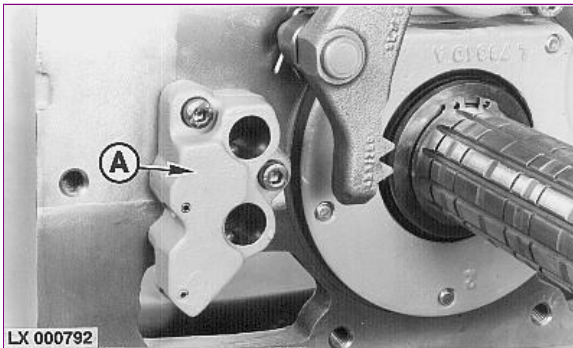


LX 000791

LX000791-UN: Tighten Screws and Bolt

Attach bearing quill.

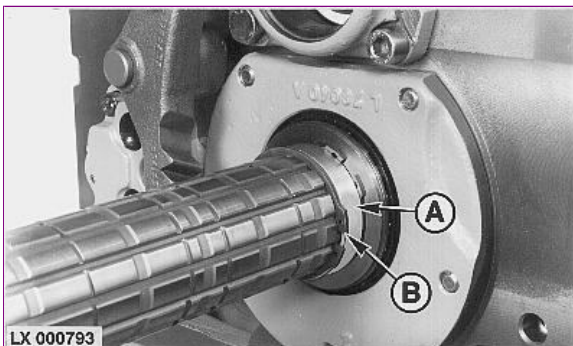
Tighten screws (A and C) and bolt (B) to 55 N·m (40 lb-ft).



LX 000792

LX000792-UN: Install Shifter Shaft Housing

Install shifter shaft housing (A).

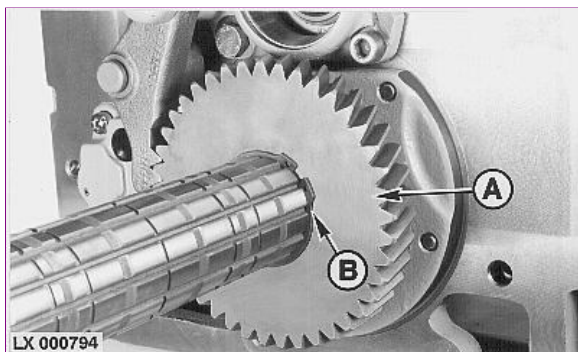


LX 000793

LX000793-UN: Install Spacer and Snap Ring

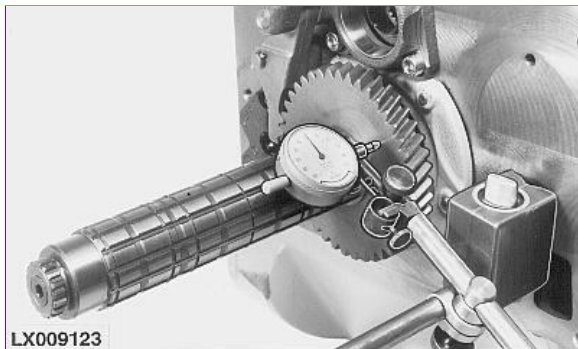
Install spacer [Older tractors only] (A).

Install snap ring (B).



LX 000794-UN: Front Wheel Drive Gear and Snap Ring

Install front wheel drive gear (A) and snap ring (B).



LX009123-UN: Check Axial Play

Check axial play of front wheel drive gear.

NOTE:

Front wheel drive gear axial play must be less than 0.1 mm (0.004 in.).

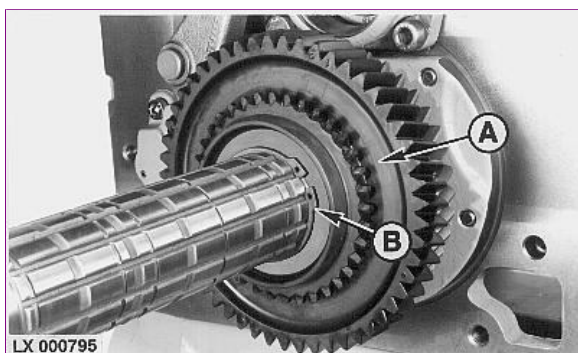
If axial play is not correct, use a different size snap ring to install the front wheel drive gear.

-: Snap Ring Thickness

Thickness of Snap Rings Available

2.0 mm (0.079 in.) 2.2 mm (0.087 in.)

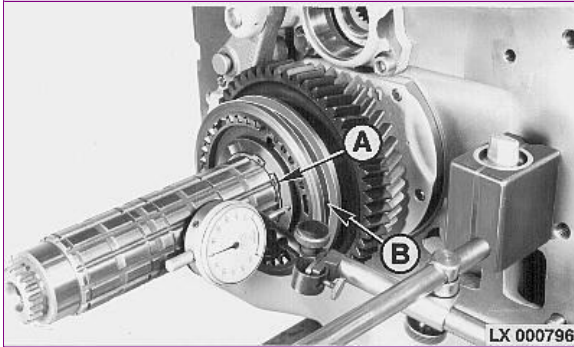
2.1 mm (0.083 in.) 2.3 mm (0.091 in.)



LX 000795-UN: Install Thrust Washer and Snap Ring

Install thrust washer and gear of range A (A).

Install snap ring (B).



LX000796-UN: Install Synchronizer Unit and Snap Ring

Install synchronizer unit (B) and snap ring (A).

NOTE:

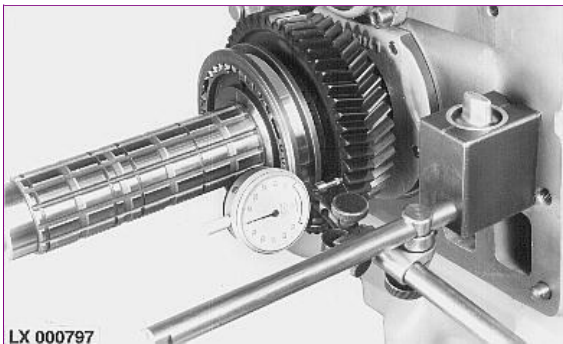
Axial play of synchronizer unit must be less than 0.1 mm (0.004 in.).

-: Snap Ring Thickness

Thickness of Snap Rings Available

2.0 mm (0.079 in.) 2.2 mm (0.087 in.)

2.1 mm (0.083 in.) 2.3 mm (0.091 in.)



LX 000797
LX000797-UN: Check Gear Axial Play

Check axial play of gear for range A.

IMPORTANT:

When measuring axial play, use both hands to guide the gear onto the shaft. Make sure the gear is straight (i.e. not skewed).

NOTE:

Axial play of gear must be 0.15 to 0.6 mm (0.006 to 0.024 in.).

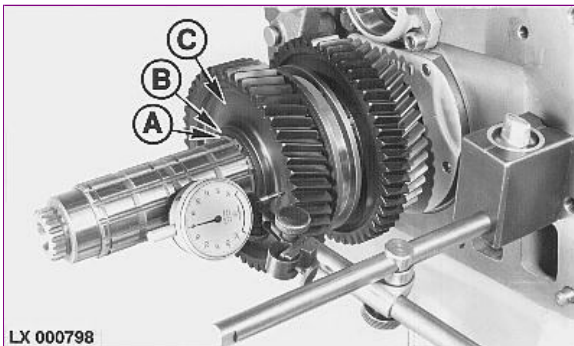
If axial play is not correct, use a different size thrust washer to install gear of range A.

-: Thrust Washer Thickness

Thickness of Thrust Washers Available

3.65 mm (0.144 in.) 3.95 mm (0.156 in.)

3.80 mm (0.150 in.)



LX 000798
LX000798-UN: Snap Ring, Thrust Washer and Gear

Install gear of range B (C) and thrust washer (B).

Install snap ring (A).

IMPORTANT:

When measuring axial play, use both hands to guide the gear onto the shaft. Make sure the gear is straight (i.e. not skewed).

NOTE:

Axial play of gear must be 0.15 to 0.6 mm (0.006 to 0.024 in.).

-: Thrust Washer Thickness

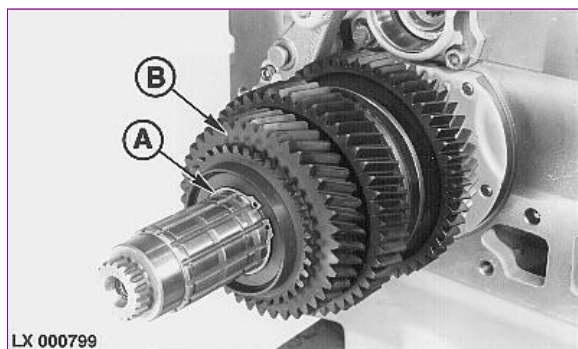
Thickness of Thrust Washers Available

3.65 mm (0.144 in.) 3.95 mm (0.156 in.)

3.80 mm (0.150 in.)

IMPORTANT:

Up to transmission serial no. 157465, snap ring (A) had a thickness of 2.0 mm (0.079 in.). When repairing, put additional washer L112108 on the outside of the snap ring.

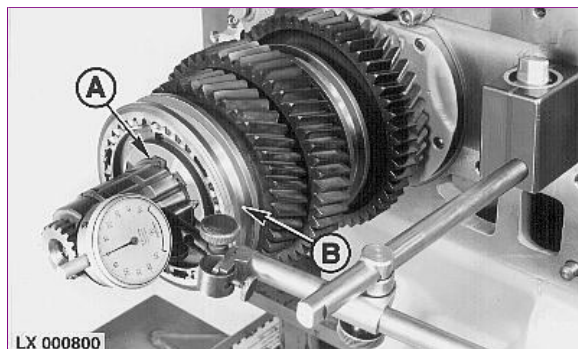


LX 000799

LX000799-UN: Install Snap Ring and Thrust Washer

Install thrust washer and gear of range C (B).

Install snap ring (A).



LX 000800

LX000800-UN: Install Synchronizer Unit & Snap Ring

Install synchronizer unit (B) and snap ring (A).

NOTE:

Axial play of synchronizer unit must be less than 0.1 mm (0.004 in.).

-: Snap Ring Thickness

Thickness of Snap Rings Available

2.0 mm (0.079 in.) 2.2 mm (0.087 in.)

2.1 mm (0.083 in.) 2.3 mm (0.091 in.)

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