Print Exit

H150F MANUAL TRANSMISSION / TRANSAXLE OUTPUT SHAFT DISASSEMBLY

PROCEDURE

■ 1.INSPECT 3RD GEAR THRUST CLEARANCE

Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION

2.INSPECT 5TH GEAR THRUST CLEARANCE

Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION

∃ 3,INSPECT 2ND GEAR THRUST CLEARANCE

Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION

4.INSPECT 1ST GEAR THRUST CLEARANCE

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■ 5.INSPECT 3RD GEAR RADIAL CLEARANCE

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6.INSPECT 5TH GEAR RADIAL CLEARANCE

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■ 7.INSPECT 2ND GEAR RADIAL CLEARANCE

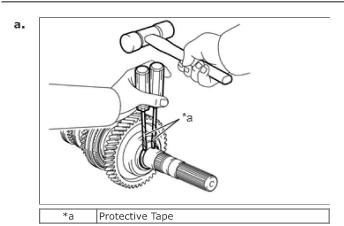
Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION

8.INSPECT 1ST GEAR RADIAL CLEARANCE

Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION

9.REMOVE OUTPUT SHAFT BEARING SHAFT SNAP RING

33321B



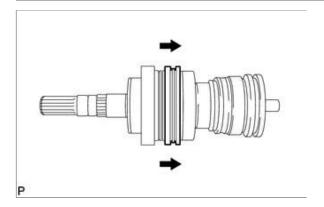
Using 2 screwdrivers and a hammer, tap out the output shaft bearing shaft snap ring. **NOTICE:**

- · Do not damage the output shaft.
- · Use a piece of cloth to prevent the snap ring from flying off.

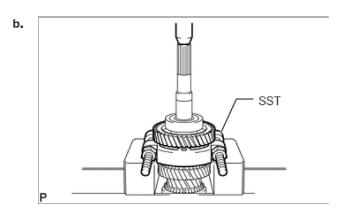
HINT:

Tape the screwdriver tip before use.

■ 10.REMOVE 1ST GEAR 33335



a. Shift the No. 1 transmission hub sleeve to the 2nd gear.



Using SST and a press, remove the rear output shaft bearing and 1st gear.

SST

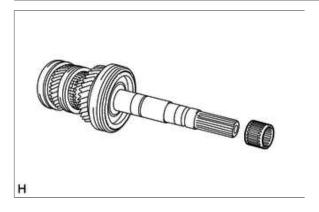
09555-55010

NOTICE:

Do not drop the output shaft.

■ 11.REMOVE 1ST GEAR NEEDLE ROLLER BEARING

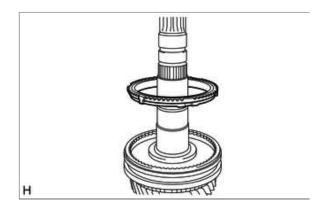
33335C



a. Remove the 1st gear needle roller bearing from the output shaft.

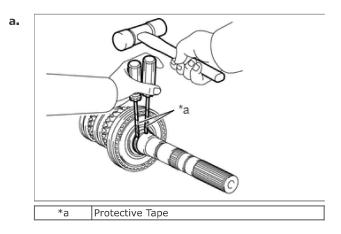
■ 12.REMOVE NO. 1 SYNCHRONIZER RING

33367



a. Remove the No. 1 synchronizer ring set from the No. 1 transmission clutch hub.

■ 13.INSPECT NO. 1 SYNCHRONIZER RING	33367	
Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION		
■ 14.INSPECT 1ST GEAR	33335	
Click hereDrivetrain>H150F (MANUAL TRANSMISSION / TRANSAXLE)>OUTPUT SHAFT>INSPECTION		
■ 15.REMOVE NO. 1 CLUTCH HUB SHAFT SNAP RING	33361B	



Using 2 screwdrivers and a hammer, tap out the No. 1 clutch hub shaft snap ring. ${\bf NOTICE:}$

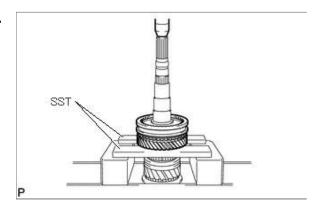
- · Do not damage the output shaft.
- · Use a piece of cloth to prevent the snap ring from flying off.

HINT:

Tape the screwdriver tip before use.

■ 16.REMOVE 2ND GEAR 33332

a.



Using SST and a press, remove the 2nd gear and No. 1 transmission clutch hub.

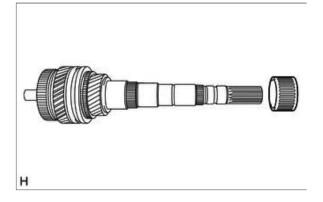
09527-20011

NOTICE:

Do not drop the output shaft.

17.REMOVE 2ND GEAR NEEDLE ROLLER BEARING

33332B



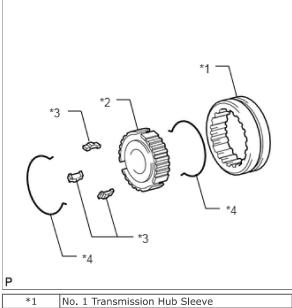
Remove the 2nd gear needle roller bearing from the output shaft. a.

18.REMOVE NO. 1 TRANSMISSION HUB SLEEVE

33363

a. Remove the No. 1 transmission clutch hub from the output shaft.

b.



*2	No. 1 Transmission Clutch Hub
*3	Shifting Key
*4	Spring

Using a screwdriver, remove the 2 springs, 3 shifting keys and No. 1 transmission hub sleeve from the No. 1 transmission clutch hub.

NOTICE:

- · Do not damage the No. 1 transmission hub sleeve and No. 1 transmission clutch hub.
- · Use a piece of cloth to prevent the snap ring from flying off.

19.INSPECT NO. 1 TRANSMISSION HUB SLEEVE

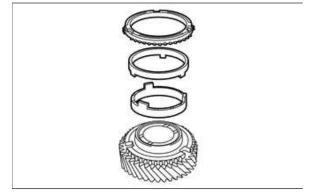
33363

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20.REMOVE NO. 2 SYNCHRONIZER RING SET

33038E





Remove the No. 2 synchronizer ring from the 2nd gear.

■ 21.INSPECT NO. 2 SYNCHRONIZER RING SET

33038E

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■ 22.INSPECT 2ND GEAR

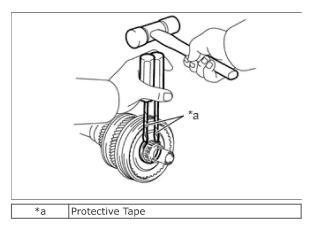
33332

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23.REMOVE NO. 2 CLUTCH HUB SETTING SHAFT SNAP RING

33362A

a.

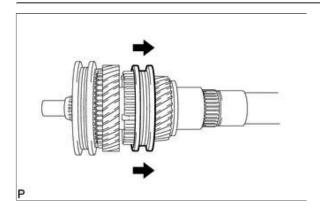


Using 2 screwdrivers and a hammer, tap out the No. 2 clutch hub setting shaft snap ring. **NOTICE:**

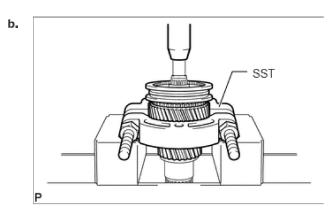
- Do not damage the output shaft.
- · Use a piece of cloth to prevent the snap ring from flying off.

Tape the screwdriver tip before use.

E 24.REMOVE 3RD GEAR 33333



a. Shift the No. 3 transmission hub sleeve to the 5th gear.



Using SST and a press, remove the 3rd gear, No. 3 synchronizer ring set and No. 2 transmission clutch hub. ${\it SST}$

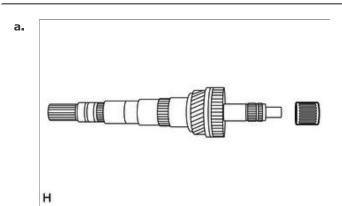
09555-55010

NOTICE:

Do not drop the output shaft.

25.REMOVE 3RD GEAR NEEDLE ROLLER BEARING

3333A



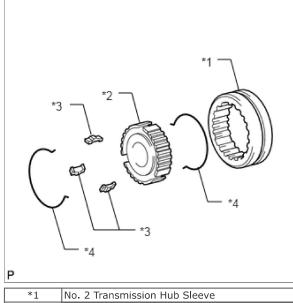
Remove the 3rd gear needle roller bearing from the output shaft.

26.REMOVE NO. 2 TRANSMISSION HUB SLEEVE

36235B

a. Remove the No. 2 transmission clutch hub from the 3rd gear.

b.



*1	No. 2 Transmission Hub Sleeve
*2	No. 2 Transmission Clutch Hub
*3	Shifting Key
*4	Spring

Using a screwdriver, remove the 2 springs, 3 shifting keys and No. 2 transmission hub sleeve from the No. 2 transmission clutch hub.

NOTICE:

- · Do not damage the No. 1 transmission hub sleeve and No. 1 transmission clutch hub.
- · Use a piece of cloth to prevent the snap ring from flying off.

■ 27.INSPECT NO. 2 TRANSMISSION HUB SLEEVE

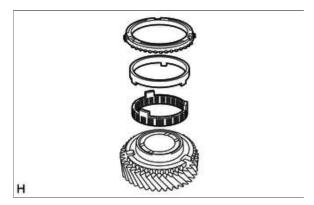
36235B

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28.REMOVE NO. 3 SYNCHRONIZER RING SET

33039

a.



Remove the No. 3 synchronizer ring set from the 3rd gear.

29.INSPECT NO. 3 SYNCHRONIZER RING SET

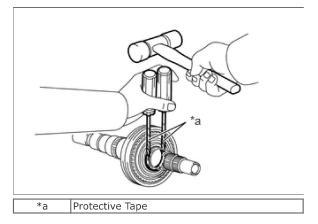
33039

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■ 30.INSPECT 3RD GEAR

33333

a.



Using 2 screwdrivers and a hammer, tap out the snap ring.

NOTICE:

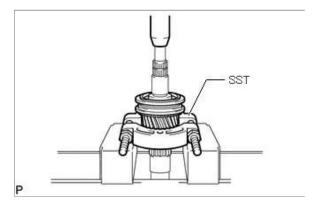
- \cdot Do not damage the output shaft.
- \cdot Use a piece of cloth to prevent the snap ring from flying off.

HINT:

Tape the screwdriver tip before use.

■ 32,REMOVE 5TH GEAR 33336

a.



Using SST and a press, remove the 5th gear, No. 3 synchronizer ring and No. 3 transmission clutch hub. **SST**

09950-00020

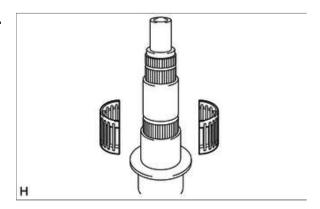
NOTICE:

Do not drop the output shaft.

33.REMOVE COUNTER 5TH GEAR BEARING

33428B





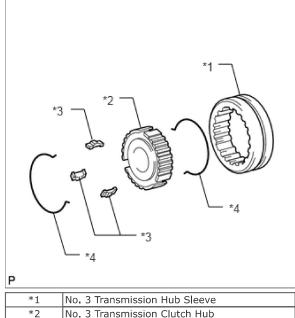
Remove the 5th counter gear bearing from the output shaft.

■ 34.REMOVE NO. 3 TRANSMISSION HUB SLEEVE

33395

a. Remove the No. 3 transmission clutch hub from the 3rd gear.





*1 No. 3 Transmission Hub Sleeve

*2 No. 3 Transmission Clutch Hub

*3 Shifting Key

*4 Spring

Using a screwdriver, remove the 2 springs, 3 shifting keys and No. 3 transmission hub sleeve from the No. 3 transmission clutch hub.

NOTICE:

- · Do not damage the No. 1 transmission hub sleeve and No. 1 transmission clutch hub.
- · Use a piece of cloth to prevent the snap ring from flying off.

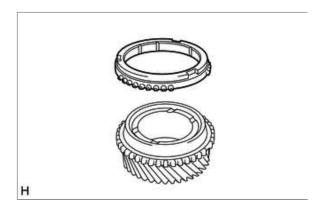
35.INSPECT NO. 3 TRANSMISSION HUB SLEEVE

33395

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■ 36.REMOVE NO. 3 SYNCHRONIZER RING

33369



a. Remove the No. 3 synchronizer ring from the 5th gear.

□ 37.INSPECT NO. 3 SYNCHRONIZER RING	33369
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■ 38.INSPECT 5TH GEAR	33336

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