

PROCEDURE

1.INSPECT 3RD GEAR THRUST CLEARANCE

Click here[Drivetrain>H150F MANUAL TRANSMISSION / TRANSAXLE>OUTPUT SHAFT>INSPECTION](#)

2.INSPECT 5TH GEAR THRUST CLEARANCE

Click here[Drivetrain>H150F MANUAL TRANSMISSION / TRANSAXLE>OUTPUT SHAFT>INSPECTION](#)

3.INSPECT 2ND GEAR THRUST CLEARANCE

Click here[Drivetrain>H150F MANUAL TRANSMISSION / TRANSAXLE>OUTPUT SHAFT>INSPECTION](#)

4.INSPECT 1ST GEAR THRUST CLEARANCE

Click here[Drivetrain>H150F MANUAL TRANSMISSION / TRANSAXLE>OUTPUT SHAFT>INSPECTION](#)

5.INSPECT 3RD GEAR RADIAL CLEARANCE

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6.INSPECT 5TH GEAR RADIAL CLEARANCE

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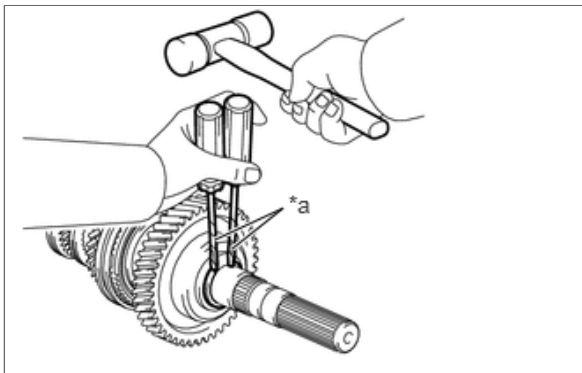
7.INSPECT 2ND GEAR RADIAL CLEARANCE

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8.INSPECT 1ST GEAR RADIAL CLEARANCE

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9.REMOVE OUTPUT SHAFT BEARING SHAFT SNAP RING

33321B**a.**

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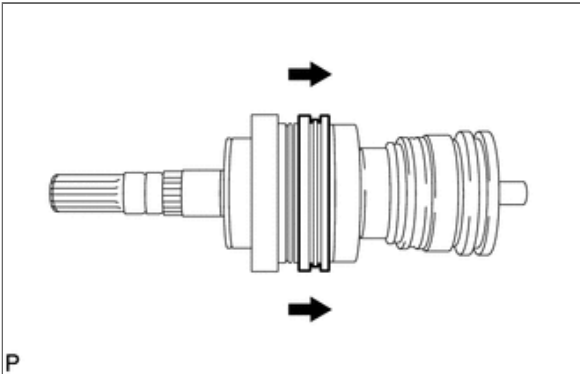
Using 2 screwdrivers and a hammer, tap out the output shaft bearing shaft snap ring.

NOTICE:

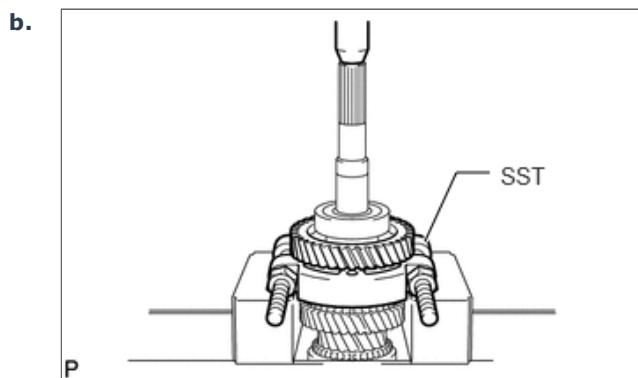
- Do not damage the output shaft.
- Use a piece of cloth to prevent the snap ring from flying off.

HINT:

Tape the screwdriver tip before use.



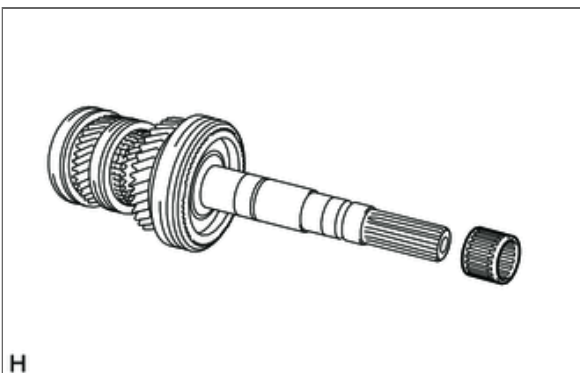
- a. Shift the No. 1 transmission hub sleeve to the 2nd gear.



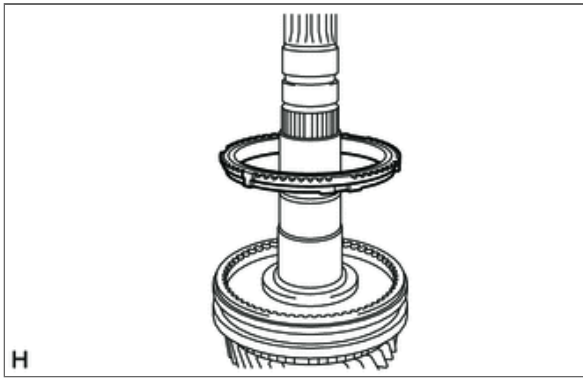
Using SST and a press, remove the rear output shaft bearing and 1st gear.

SST
09555-55010

NOTICE:
Do not drop the output shaft.



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



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

13.INSPECT NO. 1 SYNCHRONIZER RING

33367

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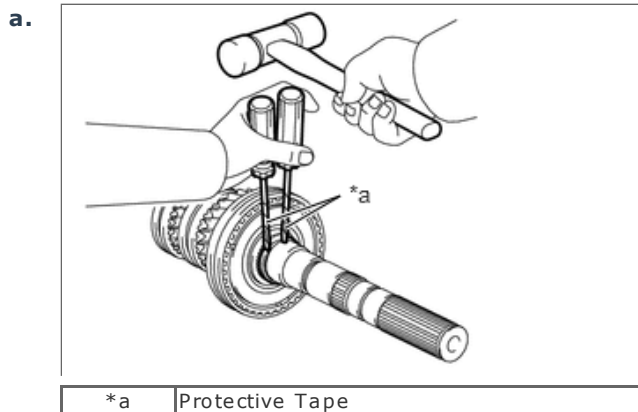
14.INSPECT 1ST GEAR

33335

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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.

NOTICE:

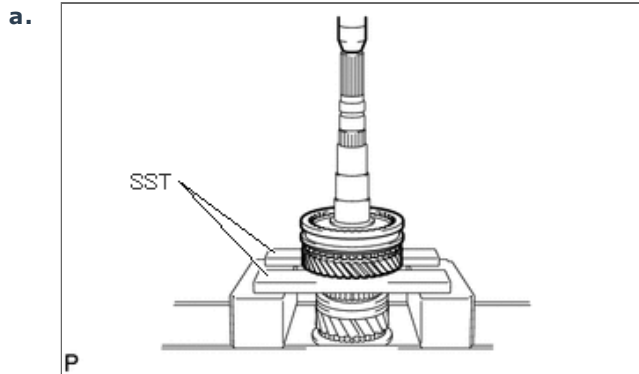
- Do not damage the output shaft.
- Use a piece of cloth to prevent the snap ring from flying off.

HINT:

Tape the screwdriver tip before use.

16.REMOVE 2ND GEAR

33332



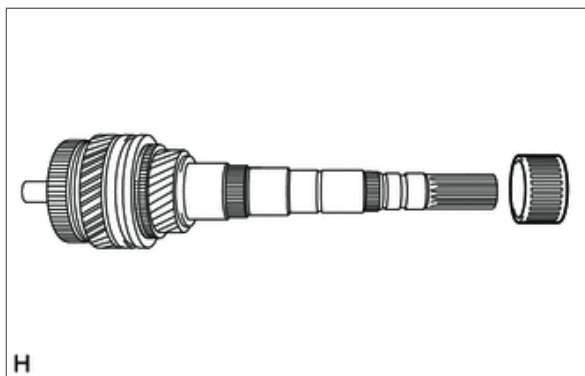
Using SST and a press, remove the 2nd gear and No. 1 transmission clutch hub.

SST
09527-20011

NOTICE:
Do not drop the output shaft.

17.REMOVE 2ND GEAR NEEDLE ROLLER BEARING

33332B

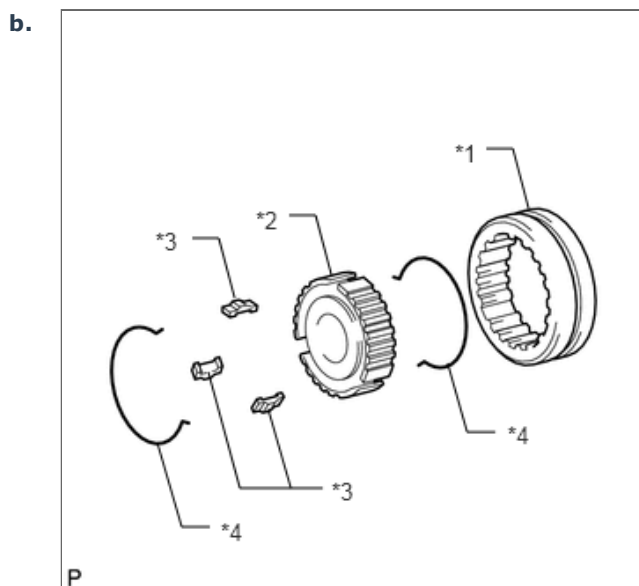


a. Remove the 2nd gear needle roller bearing from the output shaft.

18.REMOVE NO. 1 TRANSMISSION HUB SLEEVE

33363

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



*1	No. 1 Transmission Hub Sleeve
*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.

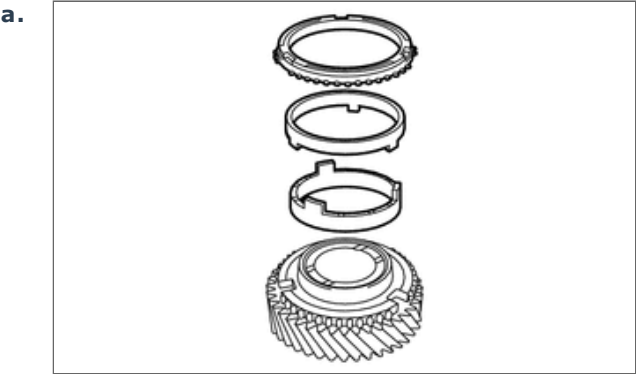
19.INSPECT NO. 1 TRANSMISSION HUB SLEEVE

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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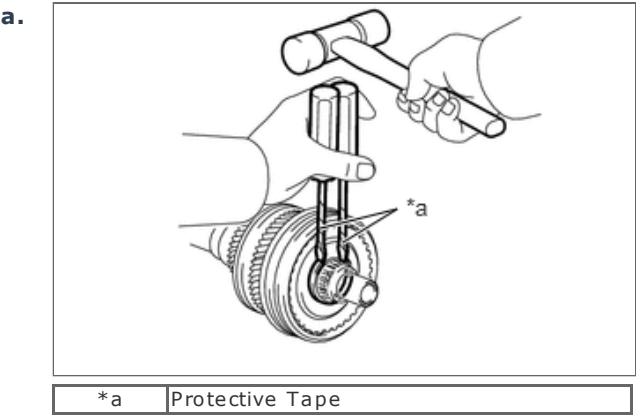
22.INSPECT 2ND GEAR

33332

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

33362A



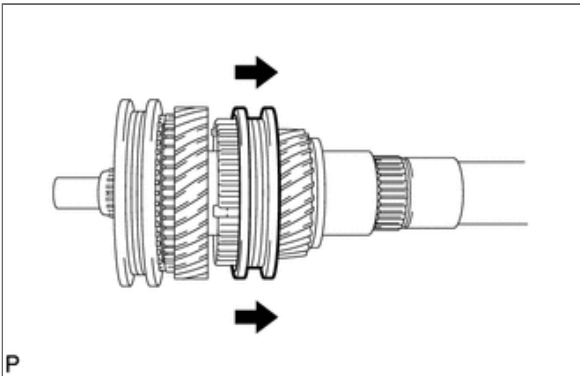
Using 2 screwdrivers and a hammer, tap out the No. 2 clutch hub setting shaft snap ring.

NOTICE:

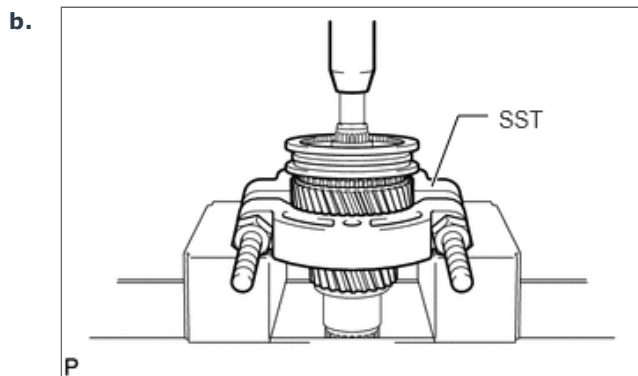
- Do not damage the output shaft.
- Use a piece of cloth to prevent the snap ring from flying off.

HINT:

Tape the screwdriver tip before use.

24.REMOVE 3RD GEAR**33333**

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



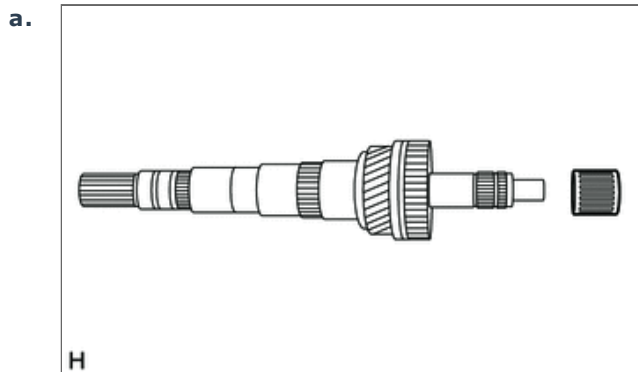
Using SST and a press, remove the 3rd gear, No. 3 synchronizer ring set and No. 2 transmission clutch hub.

SST

09555-55010

NOTICE:

Do not drop the output shaft.

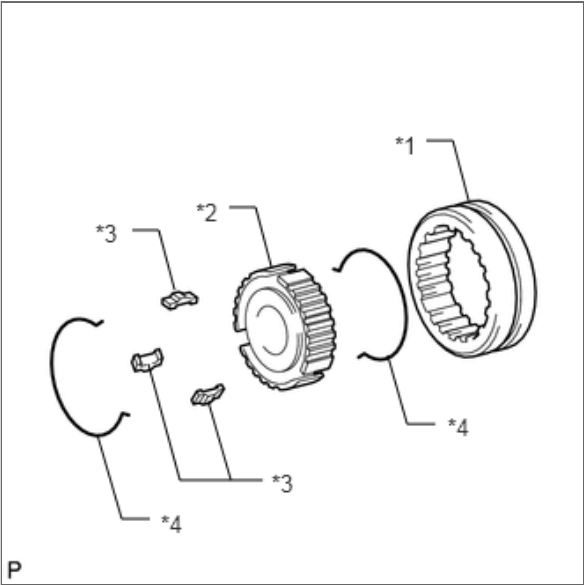
25.REMOVE 3RD GEAR NEEDLE ROLLER BEARING**33333A**

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

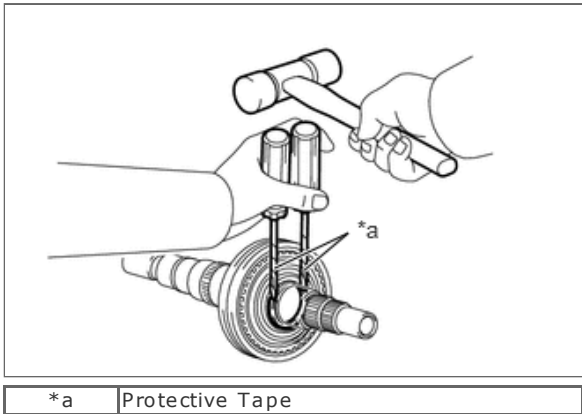
33333

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31.REMOVE TRANSMISSION CLUTCH HUB NO.3 SHAFT SNAP RING

33393A

a.



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

NOTICE:

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

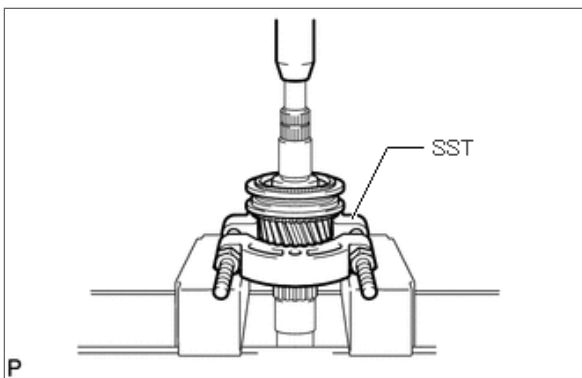
HINT:

Tape the screwdriver tip before use.

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

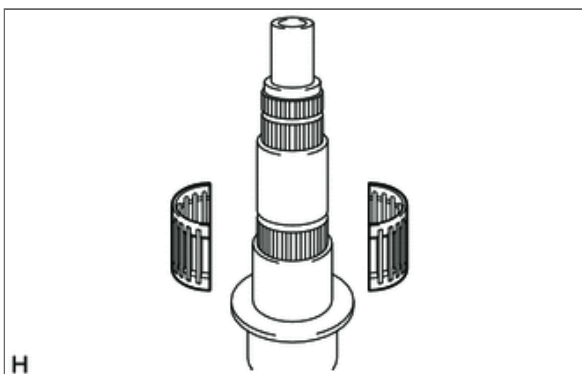
NOTICE:

Do not drop the output shaft.

33.REMOVE COUNTER 5TH GEAR BEARING

33428B

a.

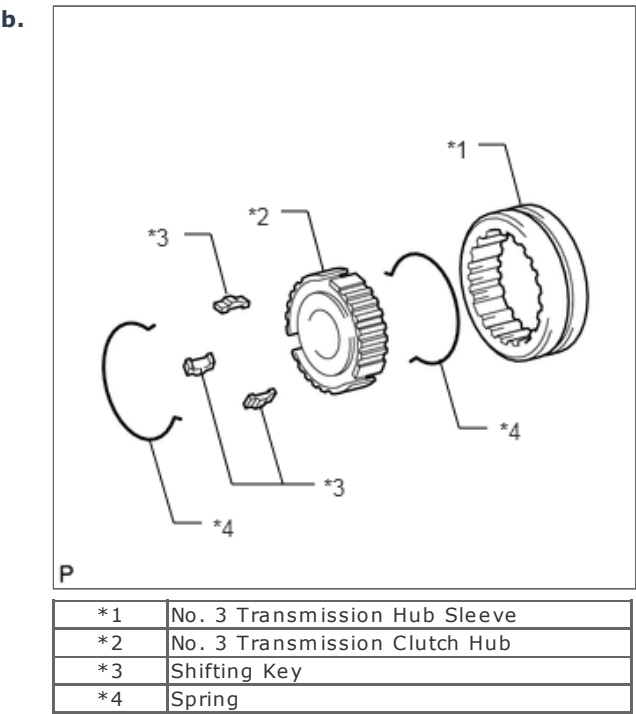


Remove the 5th counter gear bearing from the output shaft.

34.REMOVE NO. 3 TRANSMISSION HUB SLEEVE

33395

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



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.

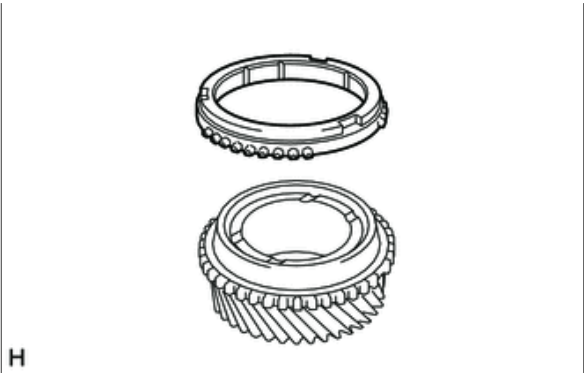
35.INSPECT NO. 3 TRANSMISSION HUB SLEEVE

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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