TOYOTA

SERVICE BULLETIN

Group: 12 No.: 51 Date: Dec 08

Yaris NCP90 / 91 / 93

Changes to Repair Manual SC00S5E

Changes have been made to the following Toyota Yaris Repair Manual SC00S5E.

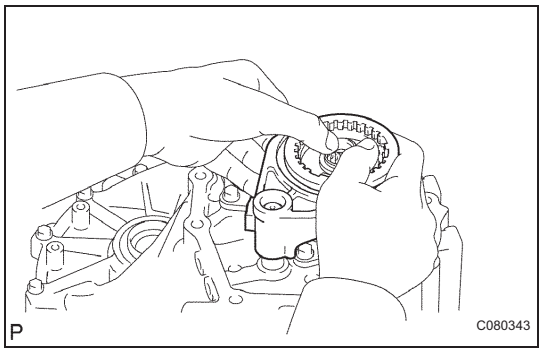
Publication	Section	Title	Paragraph
SC00S5E	C54 Manual Transaxle	Manual Transaxle Unit	Disassembly
			Disassembly / Preparation

Changes follow on from this page. Changes are indicated by an arrow.

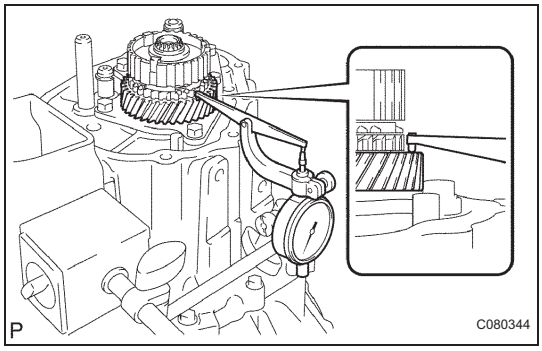
Please copy and file these pages with the above Repair manual.

KEEP THE FEELING!
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(b) Remove transmission hub sleeve No. 3 with gear shift fork No. 3 from transmission clutch hub No. 3.

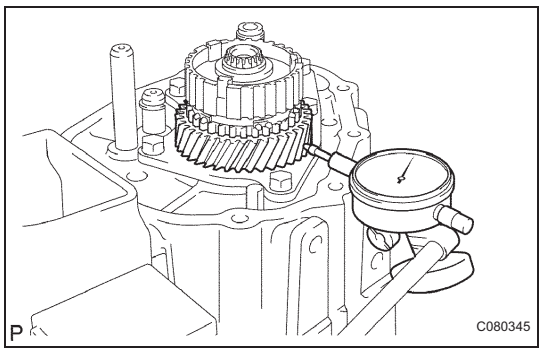


17. INSPECT 5TH GEAR THRUST CLEARANCE

(a) Using a dial indicator, measure the 5th gear thrust clearance.

Standard clearance:
0.10 to 0.55 mm (0.0039 to 0.0217 in.)
Maximum clearance:
0.55 mm (0.0217 in.)

If the clearance exceeds the maximum, replace transmission clutch hub No. 3, the 5th gear or input shaft rear radial ball bearing.



18. INSPECT 5TH GEAR RADIAL CLEARANCE

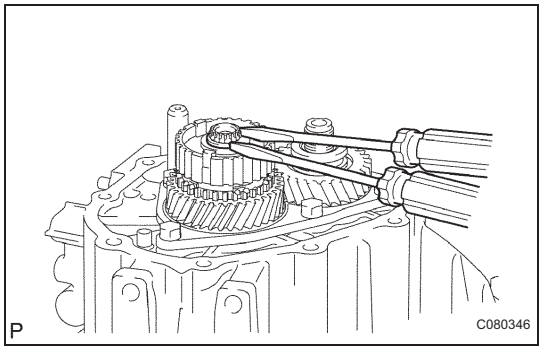
(a) Using a dial indicator, measure the 5th gear radial clearance.

Standard clearance:
KOYO made:
0.015 to 0.058 mm (0.0006 to 0.0023 in.)
NSK made:
0.015 to 0.056 mm (0.0006 to 0.0022 in.)
Maximum clearance:
KOYO made:
0.058 mm (0.0023 in.)
NSK made:
0.056 mm (0.0022 in.)

If the clearance exceeds the maximum, replace the 5th gear, 5th gear needle roller bearing or input shaft.

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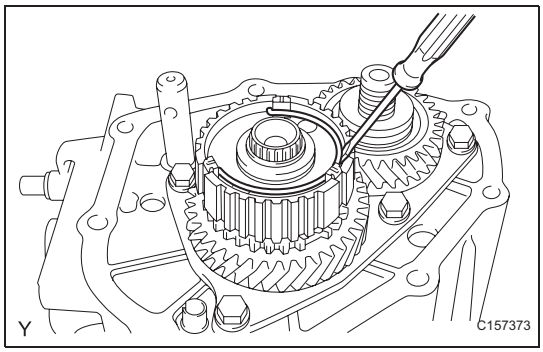
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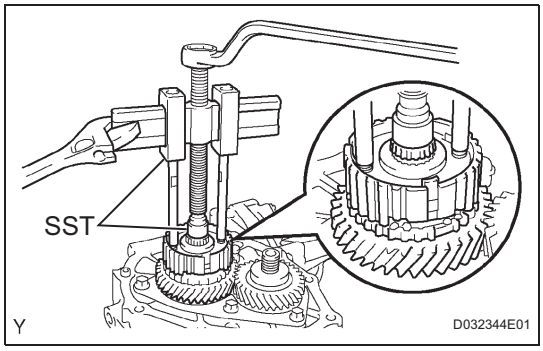
19. REMOVE TRANSMISSION CLUTCH HUB NO. 3

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

HINT:
Use a piece of cloth to keep the snap ring from flying off.

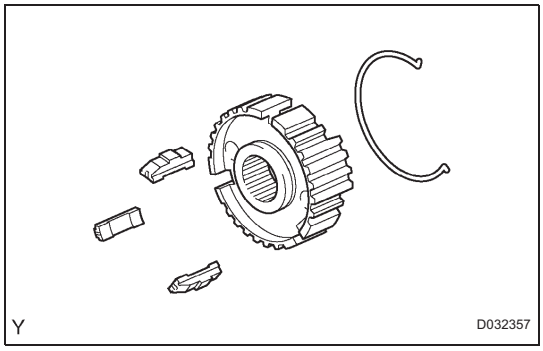


(b) Using a screwdriver, remove the synchromesh shifting key spring from the transmission clutch hub No. 3.



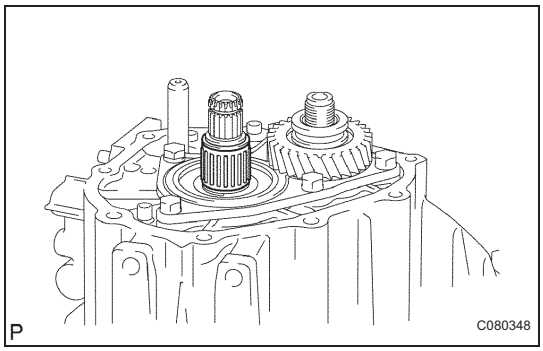
(c) Using SST, remove the transmission clutch hub No. 3, 5th gear, and synchronizer ring No. 3 from the input shaft.

SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05031, 09957-04010), 09950-60010 (09951-00200)



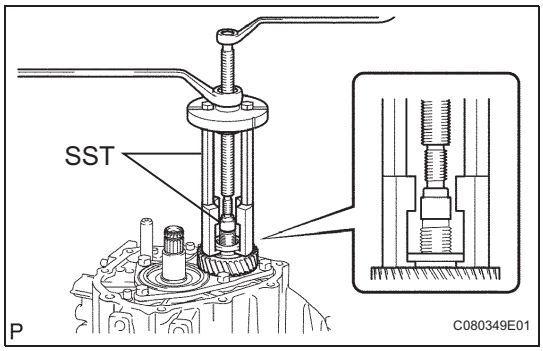
(d) Remove the 3 synchromesh shifting keys and synchromesh shifting key spring from the transmission clutch hub No. 3.

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20. REMOVE 5TH GEAR NEEDLE ROLLER BEARING

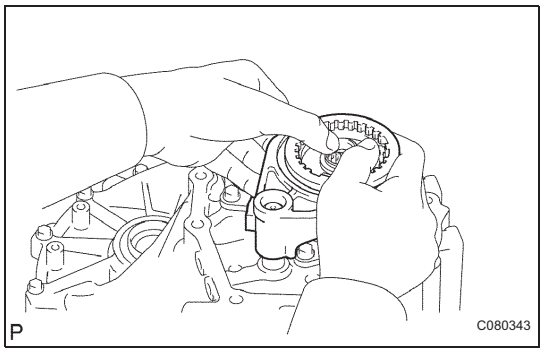
(a) Remove the 5th gear needle roller bearing and 5th gear bearing spacer from the input shaft.



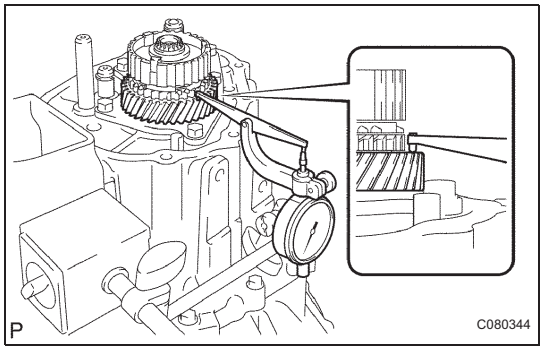
21. REMOVE 5TH DRIVEN GEAR

(a) Using SST, remove the 5th driven gear from the output shaft.

SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03021), 09950-60010 (09951-00180)



(b) Remove transmission hub sleeve No. 3 with gear shift fork No. 3 from transmission clutch hub No. 3.

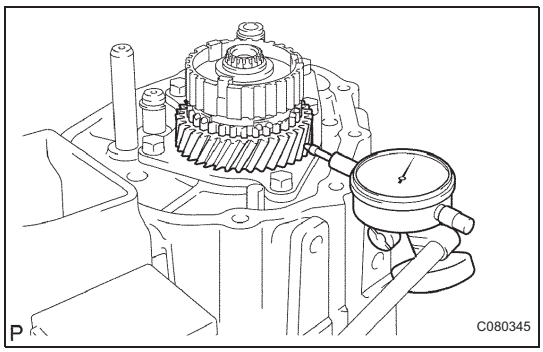


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If the clearance exceeds the maximum, replace transmission clutch hub No. 3, the 5th gear or input shaft rear radial ball bearing.



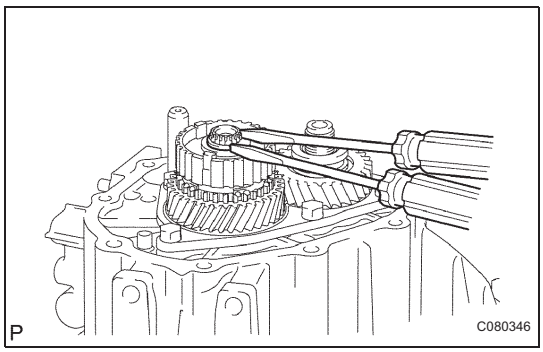
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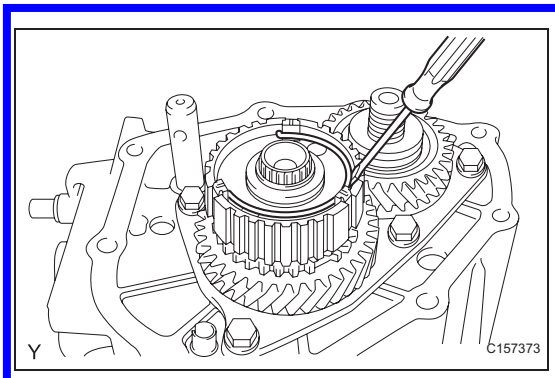
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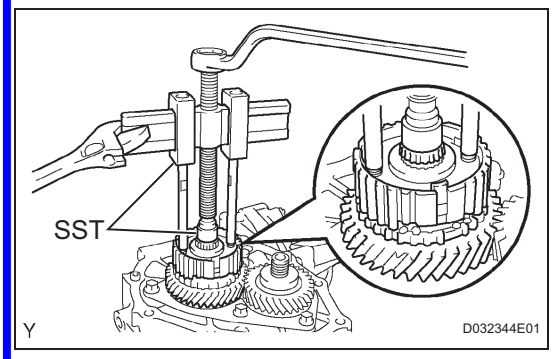
19. REMOVE TRANSMISSION CLUTCH HUB NO. 3

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

HINT:
Use a piece of cloth to keep the snap ring from flying off.

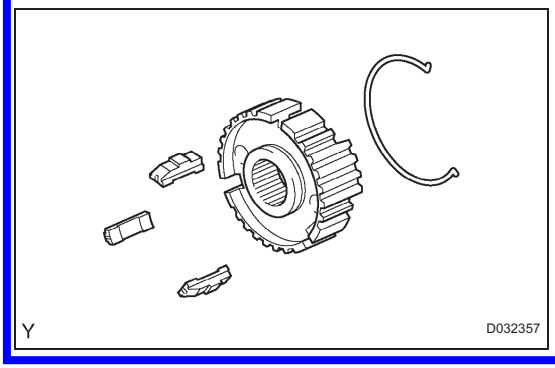


(b) Using a screwdriver, remove the synchromesh shifting key spring from the transmission clutch hub No. 3.



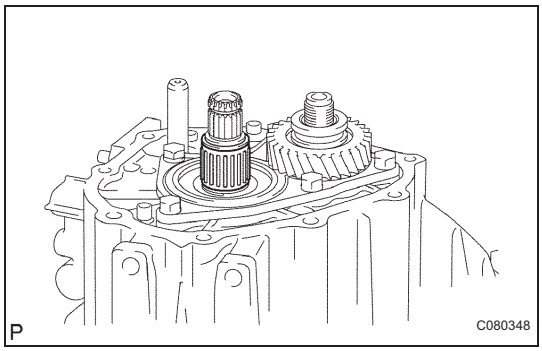
(c) Using SST, remove the transmission clutch hub No. 3, 5th gear, and synchronizer ring No. 3 from the input shaft.

SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05031, 09957-04010), 09950-60010 (09951-00200)



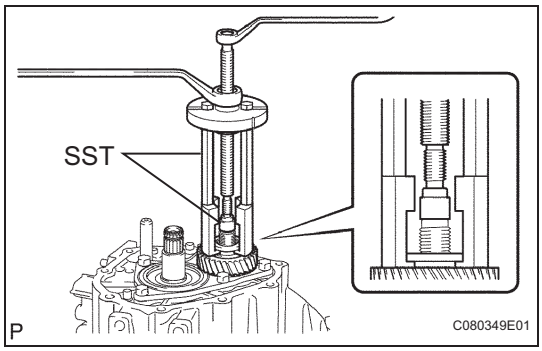
(d) Remove the 3 synchromesh shifting keys and synchromesh shifting key spring from the transmission clutch hub No. 3.

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20. REMOVE 5TH GEAR NEEDLE ROLLER BEARING

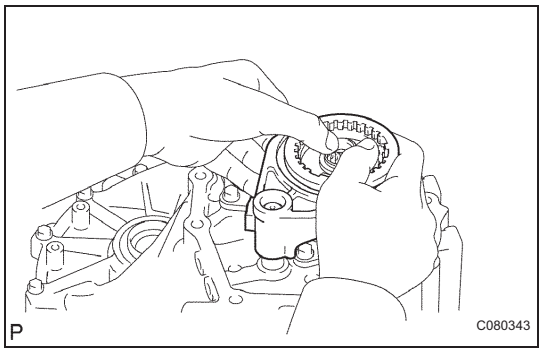
(a) Remove the 5th gear needle roller bearing and 5th gear bearing spacer from the input shaft.



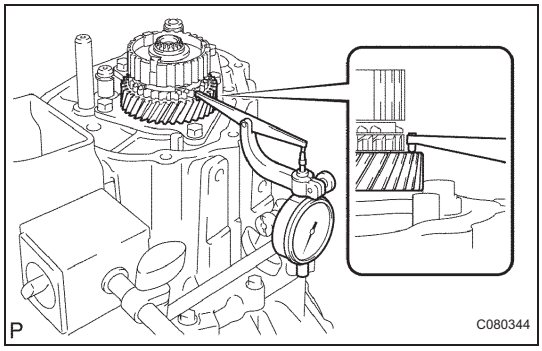
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SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03021), 09950-60010 (09951-00180)



(b) Remove the No. 3 transmission hub sleeve with the No. 3 gear shift fork from the No. 3 transmission clutch hub.

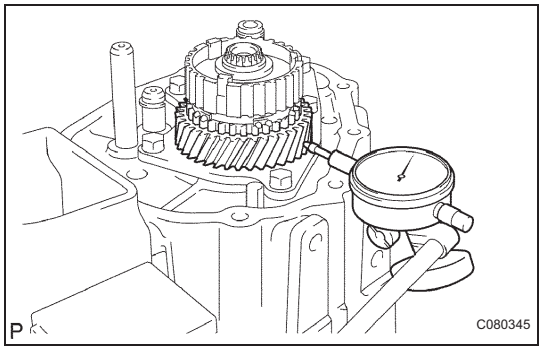


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If the clearance exceeds the maximum, replace the No. 3 transmission clutch hub, 5th gear or input shaft rear radial ball bearing.



18. INSPECT 5TH GEAR RADIAL CLEARANCE

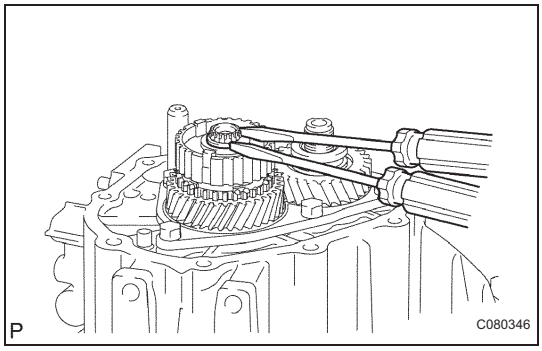
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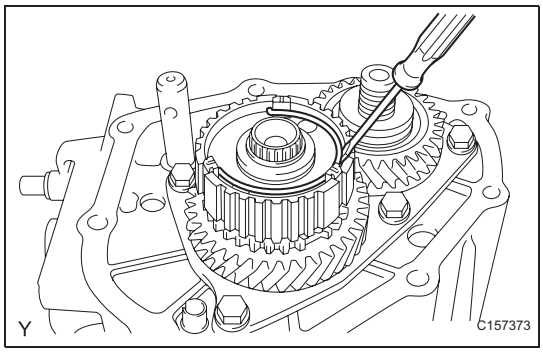
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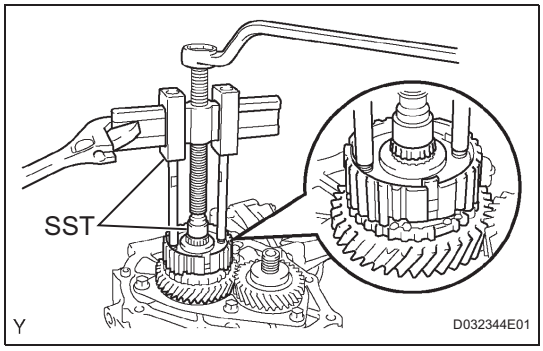
19. REMOVE NO. 3 TRANSMISSION CLUTCH HUB

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

HINT:
Use a piece of cloth to keep the snap ring from flying off.

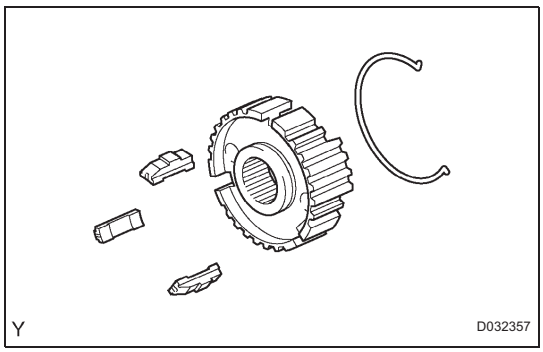


(b) Using a screwdriver, remove the synchromesh shifting key spring from the No. 3 transmission clutch hub.



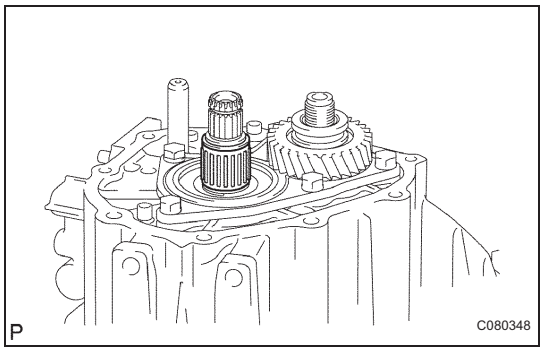
(c) Using SST, remove the No. 3 transmission clutch hub, 5th gear, and No. 3 synchronizer ring from the input shaft.

SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05031, 09957-04010), 09950-60010 (09951-00200)



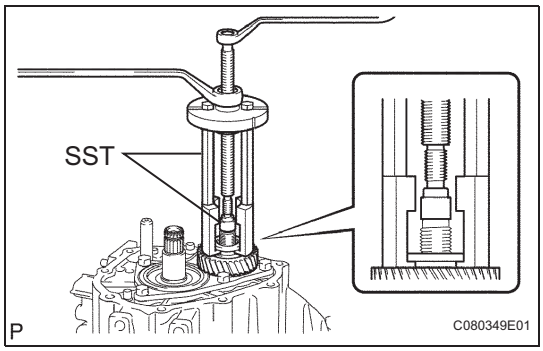
(d) Remove the 3 synchromesh shifting keys and synchromesh shifting key spring from the No. 3 transmission clutch hub.

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20. REMOVE 5TH GEAR NEEDLE ROLLER BEARING

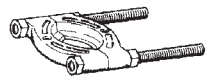
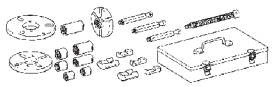
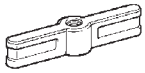
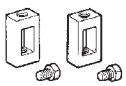
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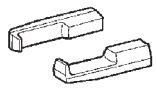
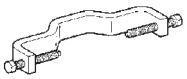
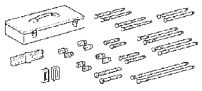
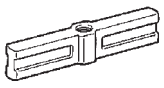
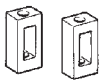
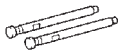
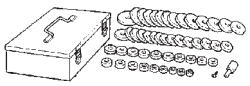


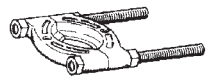
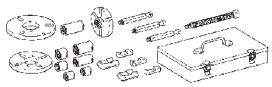
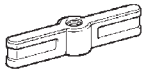
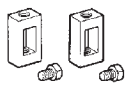
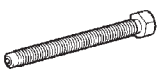
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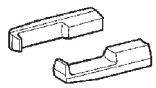
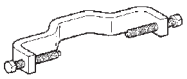
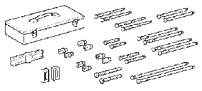
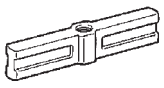
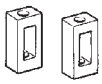
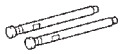
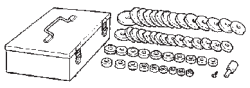
(a) Using SST, remove the 5th driven gear from the output shaft.

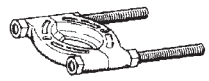
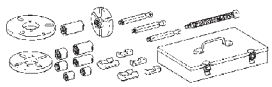
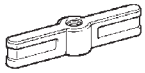
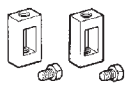
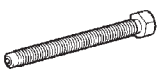
SST 09950-30012 (09951-03010, 09953-03010, 09954-03010, 09955-03021), 09950-60010 (09951-00180)

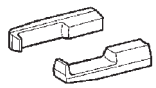
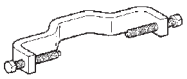
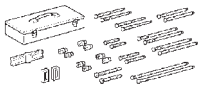
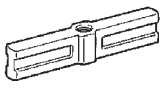
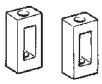
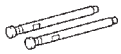
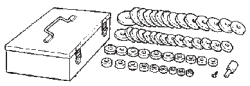
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	09950-00030	Bearing Remover Attachment	
	09950-30012	Puller A Set	
	(09951-03010)	Upper Plate	
	(09953-03010)	Center Bolt	
	(09954-03010)	Arm	
	(09955-03021)	Claw No.2	
	09950-40011	Puller B Set	
	(09951-04010)	Hanger 150	
[Deleted]	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
[Deleted]	(09954-04010)	Arm 25	
			
[Deleted]			

	(09955-04061)	Claw No. 6	
	(09957-04010)	Attachment	
	(09958-04011)	Holder [Added]	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05031)	Claw No.3	
	(09957-04010)	Attachment	
	09950-60010	Replacer Set	
	(09951-00180)	Replacer 18 [Added]	
	(09951-00200)	Replacer 20	

	09950-00020	Bearing Remover	
	09950-00030	Bearing Remover Attachment	
	09950-30012	Puller A Set	
	(09951-03010)	Upper Plate	
	(09953-03010)	Center Bolt	
	(09954-03010)	Arm	
	(09955-03021)	Claw No.2	
	09950-40011	Puller B Set	
	(09951-04010)	Hanger 150	
[Deleted]			
	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
[Deleted]			
	(09954-04010)	Arm 25	
[Deleted]			

	(09955-04061)	Claw No. 6	
	(09957-04010)	Attachment	
	(09958-04011)	Holder [Added]	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05031)	Claw No.3	
	(09957-04010)	Attachment	
	09950-60010	Replacer Set	
	(09951-00180)	Replacer 18 [Added]	
	(09951-00200)	Replacer 20	

	09950-00020	Bearing Remover	
	09950-00030	Bearing Remover Attachment	
	09950-30012	Puller A Set	
	(09951-03010)	Upper Plate	
	(09953-03010)	Center Bolt	
	(09954-03010)	Arm	
	(09955-03021)	Claw No.2	
	09950-40011	Puller B Set	
	(09951-04010)	Hanger 150	
[Deleted]			
	(09952-04010)	Slide Arm	
	(09953-04020)	Center Bolt 150	
[Deleted]			
	(09954-04010)	Arm 25	
[Deleted]			

	(09955-04061)	Claw No. 6	
	(09957-04010)	Attachment	
	(09958-04011)	Holder [Added]	
	09950-50013	Puller C Set	
	(09951-05010)	Hanger 150	
	(09952-05010)	Slide Arm	
	(09953-05020)	Center Bolt 150	
	(09954-05031)	Claw No.3	
	(09957-04010)	Attachment	
	09950-60010	Replacer Set	
	(09951-00180)	Replacer 18 [Added]	
	(09951-00200)	Replacer 20	