

Manual Table of Contents

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SPECIFICATIONS

Superseded by:SGML_id="n51785 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

General Specification

Item	Specification
Inspection Standards and Tolerances	
Synchronizer blocking ring to conical face runout	0.5 mm (0.02 in)
Assembly Standards	
Input shaft end play	0.02286 mm (0.0009 in) - 0.0508 mm (0.002 in)
Countershaft cluster gear end play	0.0 mm (0.0 in) - 0.076 mm (0.003 in)
Rev driven gear-to-rev synchro hub clearance	0.0508 mm (0.002 in) - 0.3048 mm (0.012 in)
Output shaft end play	0.0012 mm (0.0005 in) - 0.100 mm (0.004 in)
Output shaft pre-load	0.012 mm (0.0005 in) - 0.100 mm (0.004 in)
Lubrication/Adhesive/Cleaner Specifications	
Multi-Purpose Grease D0AZ-19584-AA	ESB-M1C93-B
Threadlock and Sealer E0AZ-19554-AA	WSK-M2G351-A5
Clear Silicone Rubber D6AZ-19562-AA	ESB-M4G92-A
Pipe Sealant with Teflon® D8AZ-19554-A	ESR-M18P7-A
MERCON® Multi-Purpose ATF Transmission Fluid XT-2-QDX	Mercon®
Lubricant Refill Capacities	
MERCON® Multi-Purpose ATF Transmission Fluid XT-2-QDX	3.1L (6.6 pt)

Torque Specifications

Description	Nm	lb-ft	lb-in
Bolt retaining gearshift lever to extension housing	18	13	—
Screw retaining inner shift boot to floor pan	10	—	89

(Continued)

Torque Specifications

Description	Nm	lb-ft	lb-in
Bolt retaining gear shift lever to gear shift stub shaft	37	27	—
Bolt retaining OSS to case	10	—	89
Bolt retaining reverse idler gear shift bracket to case	20	15	—
Interlock bolt	40	30	—
Fifth/reverse lever pivot bolt	40	30	—
Bolt retaining flywheel housing to case	27	20	—
Bolt retaining extension housing to case	54	40	—
Drain plug	23	17	—
Reversing lamp switch	37	27	—
Fill plug	17	13	—
Bolt retaining transmission to block	75	55	—
Bolt retaining engine plate to transmission	27	20	—
Bolt retaining crossmember to frame	41	30	—
Bolt retaining crossmember to transmission support	58	43	—
Bolt retaining driveshaft flange to pinion flange	112	83	—

DESCRIPTION AND OPERATION

Superseded by:SGML_id="n51684"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Manual Transmission(id=n144504)

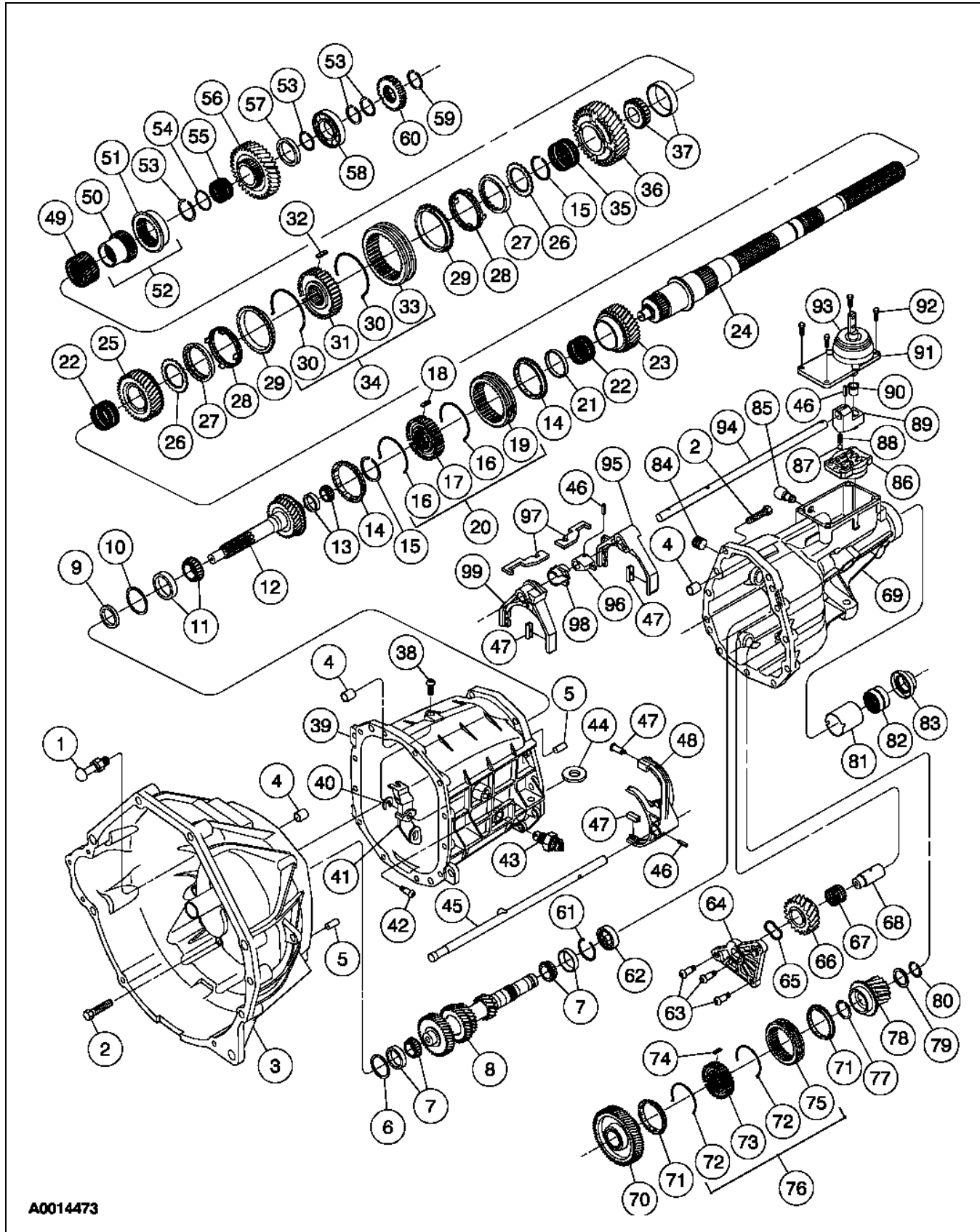
The T45 five-speed manual transmission features the following:

- The fifth speed gear functions as an overdrive gear.

- The forward gears are synchronized and helical cut.
- The reverse gear operates through a constant-mesh, double-disconnect system.
- The shift interlock system prevents the engagement of more than one gear.

DESCRIPTION AND OPERATION (Continued)

Manual Transmission—Five Speed



A0014473

DESCRIPTION AND OPERATION (Continued)

Item	Part Number	Description
1	7B602	Clutch release lever stud
2	7A771	Bolt
3	6392	Flywheel housing (includes tube)
4	7W425	Main shift rail bushing
5	7K315	Dowel
6	7L172	Countershaft front bearing shim
7	7025	Countershaft bearing assembly
8	7113	Countershaft cluster gear
9	7052	Seal
10	7L172	Shim
11	7025	Input shaft front bearing assembly
12	7017	Input shaft
13	7025	Input shaft pocket bearing
14	7107	Third/fourth synchronizer blocking ring
15	7064	Retaining ring
16	7109	Synchronizer blocking spring (also part of 7124)
17	—	Third/fourth synchronizer hub (part of 7124)
18	7A044	Third/fourth synchronizer strut (also part of 7124)
19	—	Third/fourth synchronizer sleeve (part of 7124)
20	7124	Third/fourth synchronizer assembly
21	7B320	Bearing spacer
22	7B369	Needle bearing
23	7B340	Third gear
24	7061	Output shaft
25	7102	Second gear
26	7Z491	Thrust washer
27	7175	First and second gear synchronizer inner cone
28	7174	First and second gear synchronizer outer cone
29	7107	First/second synchronizer blocking ring
30	7109	Synchronizer blocking spring (also part of 7124)
31	—	First/second synchronizer hub (part of 7124)

(Continued)

Item	Part Number	Description
32	7A044	First/second synchronizer strut (also part of 7124)
33	—	First/second synchronizer sleeve (part of 7124)
34	7124	First/second synchronizer assembly
35	7127	First gear bearing
36	7100	First gear
37	7065	Output shaft bearing assembly
38	7C211	Interlock bolt
39	7005	Case
40	7348	Fifth/reverse lever retaining clip
41	7K002	Fifth/reverse gear shift lever
42	7K024	Fifth/reverse lever pivot bolt
43	15520	Reversing lamp switch assembly
44	7L027	Magnet
45	7242	Fifth/reverse gear shift rail
46	357479-S15	Split pin
47	7L082	Gear shift fork insert
48	7230	Fifth/reverse gear shifter fork
49	7K316	Fifth driven gear
50	—	Reverse synchronizer hub (part of 7124)
51	—	Reverse synchronizer sleeve (part of 7124)
52	7124	Reverse synchronizer assembly
53	7030	Retaining ring
54	7C240	Bearing spacer
55	7N168	Needle bearing
56	7C238	Reverse driven gear
57	7738	Thrust washer
58	7025	Output shaft rear bearing
59	7064	Retaining ring
60	7H150	Tone wheel (output shaft speed)
61	7160	Retaining ring
62	7121	Countershaft bearing
63	7N011	Shoulder bolt
64	7723	Reverse idler shift bracket
65	7N037	Spring washer
66	7141	Reverse idler gear

(Continued)

DESCRIPTION AND OPERATION (Continued)

Item	Part Number	Description
67	7E139	Reverse idler gear bearing
68	7140	Reverse idler shaft
69	7A039	Extension housing (4.6L 2V)
70	7144	Fifth gear
71	7107	Fifth/Reverse Blocking ring
72	7109	Synchronizer blocking spring (also part of 7124)
73	—	Fifth/reverse synchronizer hub (part of 7124)
74	7A044	Fifth/reverse synchronizer strut (also part of 7124)
75	—	Fifth/reverse synchronizer sleeve (part of 7124)
76	7124	Fifth/reverse synchronizer assembly
77	7064	Retaining ring
78	7142	Reverse gear
79	7E245	Thrust washer
80	7M133	Retaining ring
81	—	Extension housing bushing (part of 7A039)

(Continued)

Transmission Identification

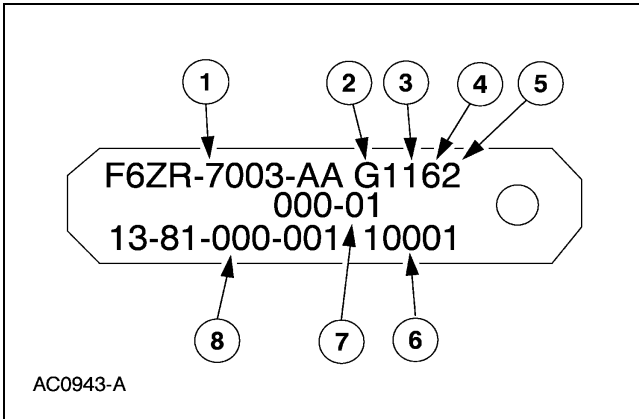
The transmission identification tag is located under the lower left bolt that retains the extension housing to the case.

Item	Part Number	Description
82	—	Full fill seal (part of 7A039)
83	7052	Seal
84	7A010	Case plug
85	7034	Vent
86	—	Detent plate (part of 7A039)
87	7E172	Detent ball
88	7234	Detent spring
89	7F018	Gearshift offset lever
90	7K453	Damper sleeve
91	7210	Gearshift lever
92	7A443	Bolt (4 req'd)
93	7277	Gearshift lever boot
94	7358	Main shift rail
95	7230	First/second gear shifter fork
96	7302	Selector assembly
97	7N232	Gear shift plate
98	7K201	Gear selector interlock sleeve
99	7230	Third/fourth gear shifter fork

The five speed overdrive (T45) transmission is the only manual transmission available for the Mustang 4.6L (2V) and the Mustang Cobra 4.6L (4V).

DESCRIPTION AND OPERATION (Continued)

Transmission Identification Tag

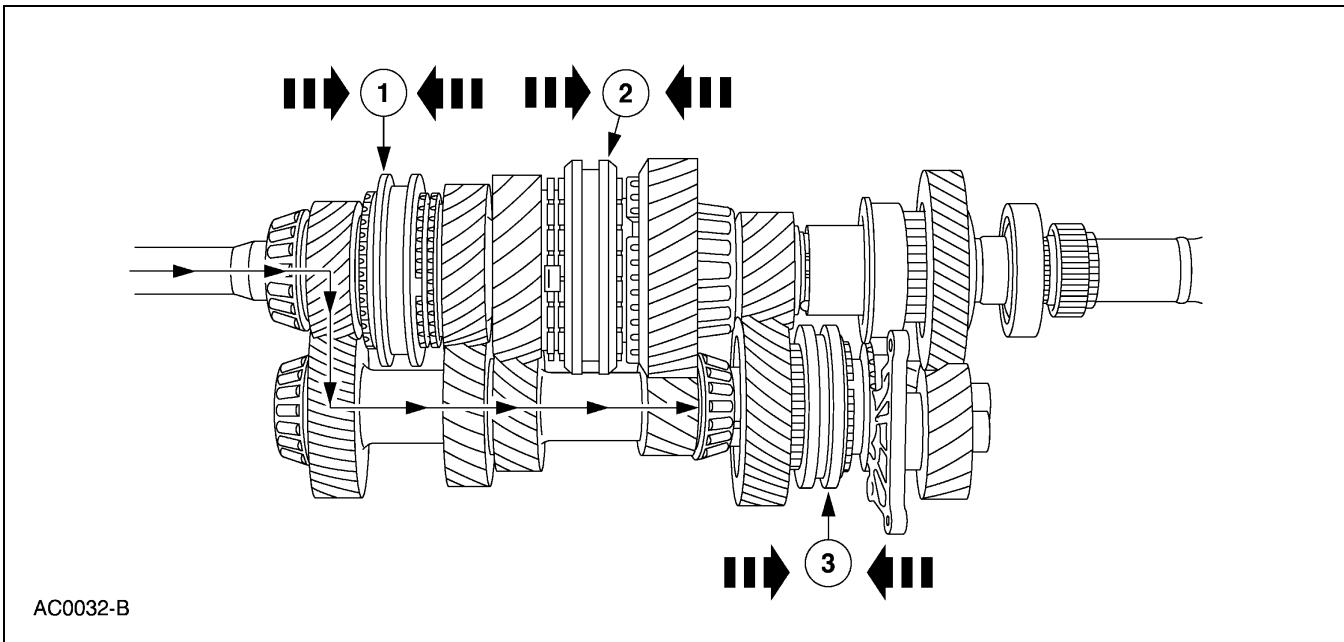


Item	Part Number	Description
3	—	Build date code—day
4	—	Build date code—year
5	—	Shift number
6	—	Serial number
7	—	Service repair code
8	—	Wg. identification number (located on the extension housing bolt on the LH side of the transmission)

Item	Part Number	Description
1	—	Transmission assembly number
2	—	Build date code—month

(Continued)

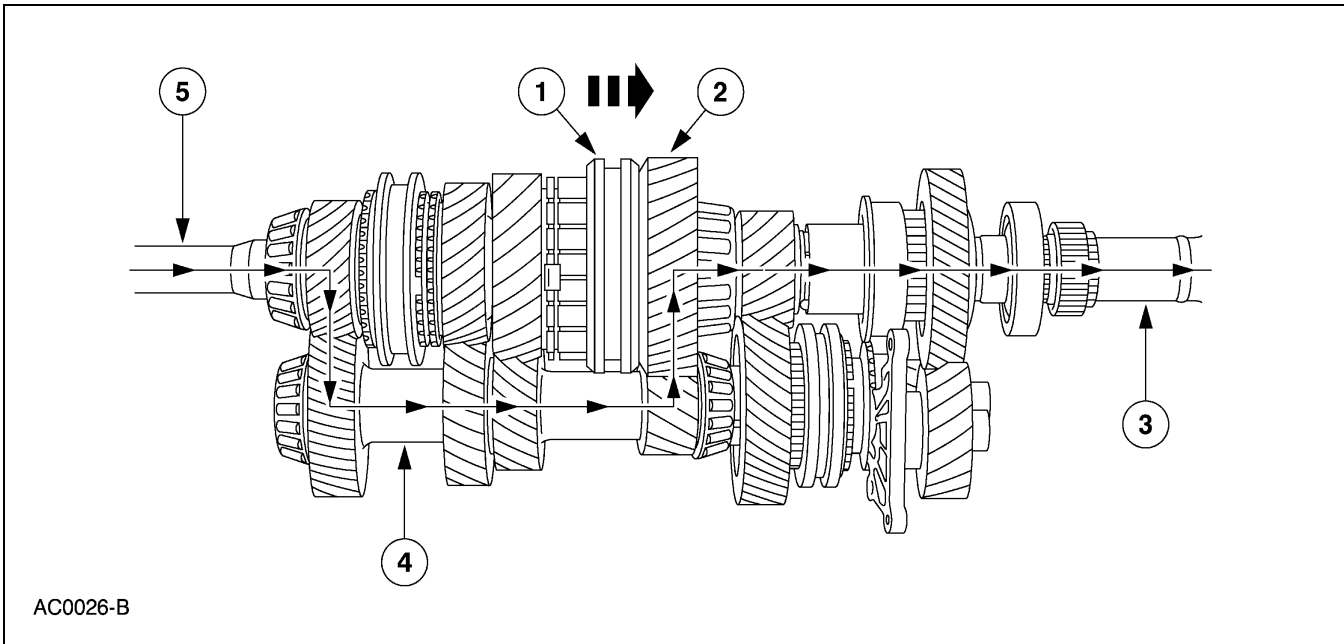
Powerflow in Neutral



Item	Part Number	Description
1	7124	3-4 synchronizer
2	7124	1-2 synchronizer
3	7124	Fifth/reverse synchronizer

DESCRIPTION AND OPERATION (Continued)

Powerflow in 1st Gear

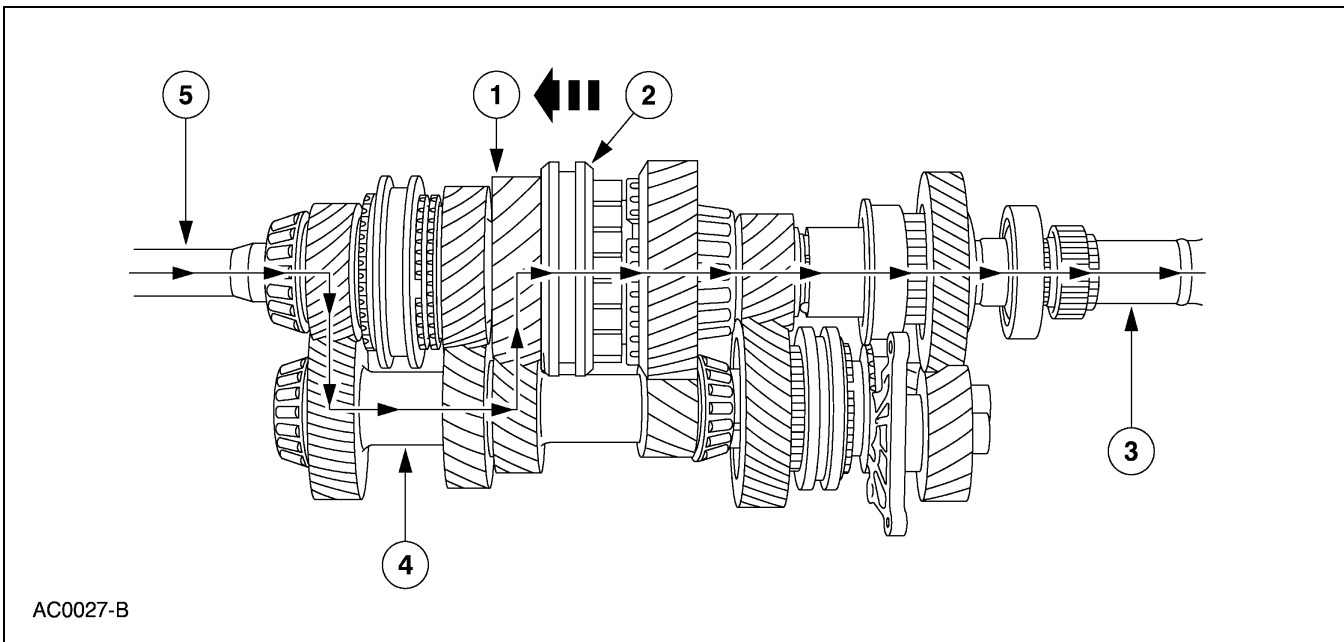


Item	Part Number	Description
1	7124	1-2 synchronizer
2	7100	1st gear driven
3	7061	Output shaft

Item	Part Number	Description
4	7113	Countershaft
5	7017	Input shaft

(Continued)

Powerflow in 2nd Gear



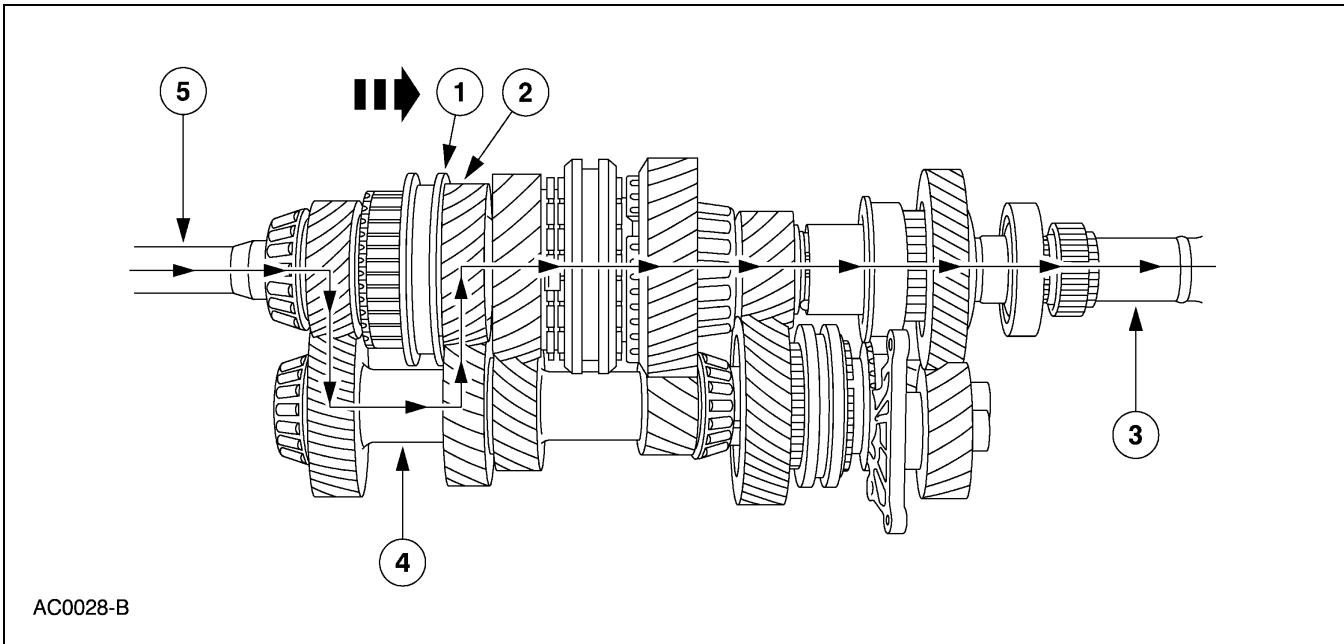
Item	Part Number	Description
1	7102	2nd gear driven
2	7124	1-2 synchronizer

Item	Part Number	Description
3	7061	Output shaft
4	7113	Countershaft
5	7017	Input shaft

(Continued)

DESCRIPTION AND OPERATION (Continued)

Powerflow in 3rd Gear

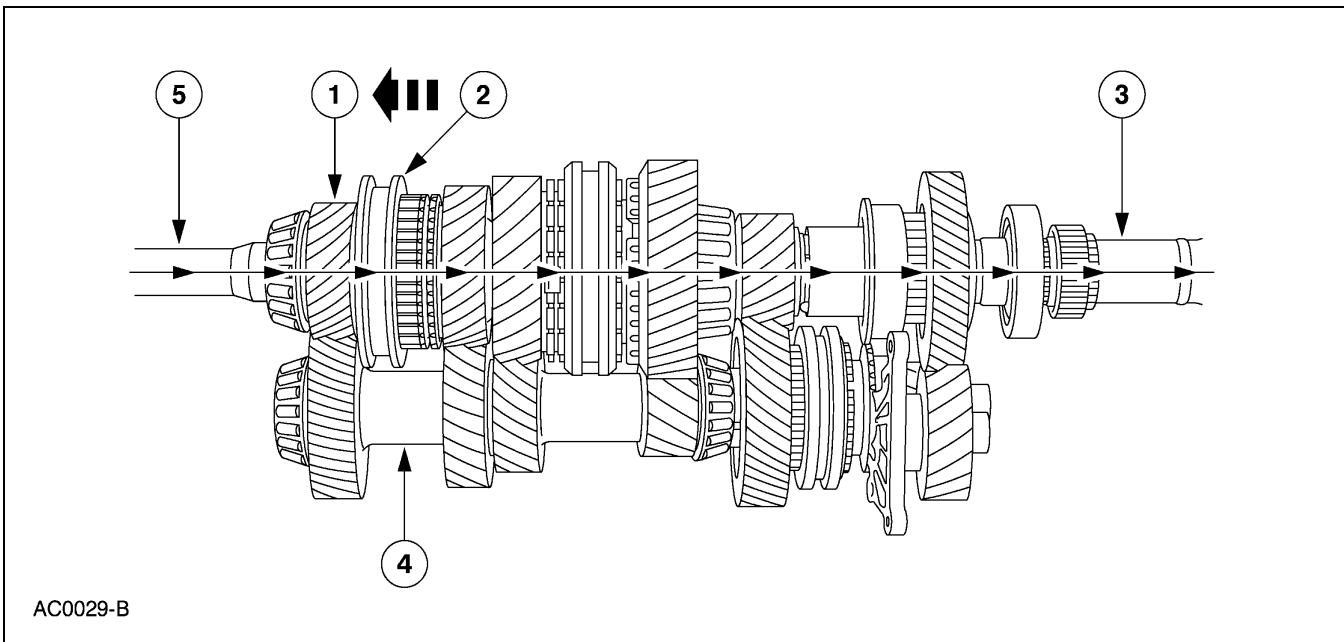


Item	Part Number	Description
1	7124	3-4 synchronizer
2	7B340	3rd gear driven
3	7061	Output shaft

Item	Part Number	Description
4	7113	Countershaft
5	7017	Input shaft

(Continued)

Powerflow in 4th Gear



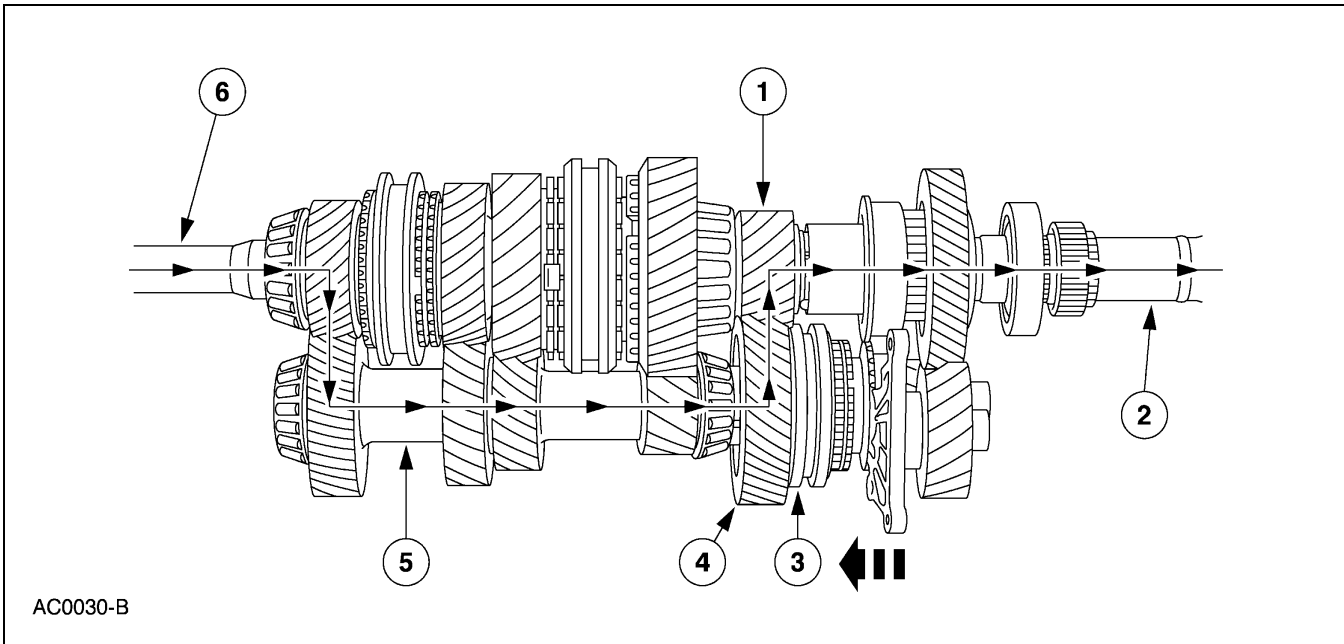
Item	Part Number	Description
1	7112	4th gear driven
2	7124	3-4 synchronizer

Item	Part Number	Description
3	7061	Output shaft
4	7113	Countershaft
5	7017	Input shaft

(Continued)

DESCRIPTION AND OPERATION (Continued)

Powerflow in 5th Gear

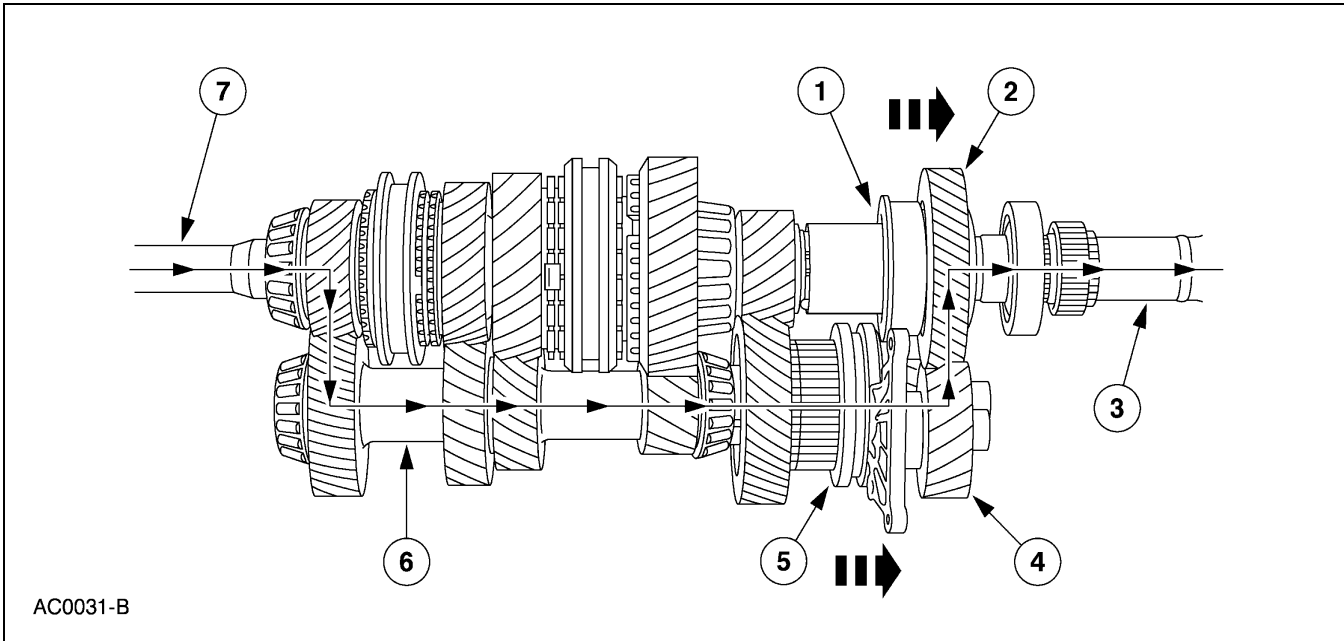


Item	Part Number	Description
1	7K316	5th gear driven
2	7061	Output shaft
3	7124	Fifth/reverse synchronizer

Item	Part Number	Description
4	7144	Fifth gear
5	7113	Countershaft
6	7017	Input shaft

(Continued)

Powerflow in Reverse Gear



DESCRIPTION AND OPERATION (Continued)

Item	Part Number	Description
1	—	Reverse gear synchronizer sleeve (part of 7124)
2	7C238	Reverse gear driven
3	7061	Output shaft

(Continued)

Item	Part Number	Description
4	7141	Reverse idler gear
5	7124	Fifth/reverse synchronizer
6	7113	Countershaft
7	7017	Input shaft

DIAGNOSIS AND TESTING*Superseded by:SGML_id="n51685 "**Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"**Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"**Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"**Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"**Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"**Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"**Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"**Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"**Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03C"**Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"**Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2003" "MUSTANG" "08" "03C"**Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"**Effect:Frozen: "N" "2004" "MUSTANG" "08" "03C"***Manual Transmission(id=n144505)**Refer to [Section 308-00](#).

GENERAL PROCEDURES

Superseded by:SGML_id="n51784 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

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Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"

Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"

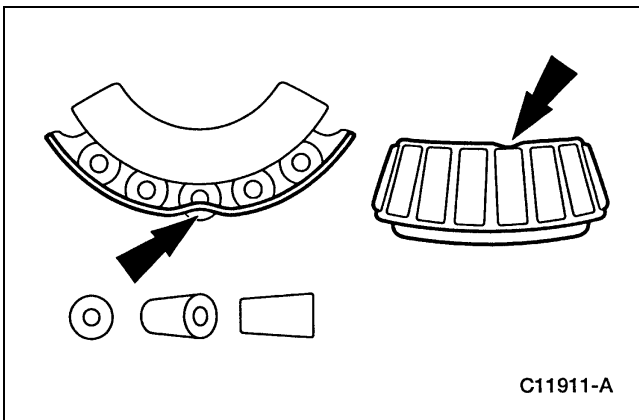
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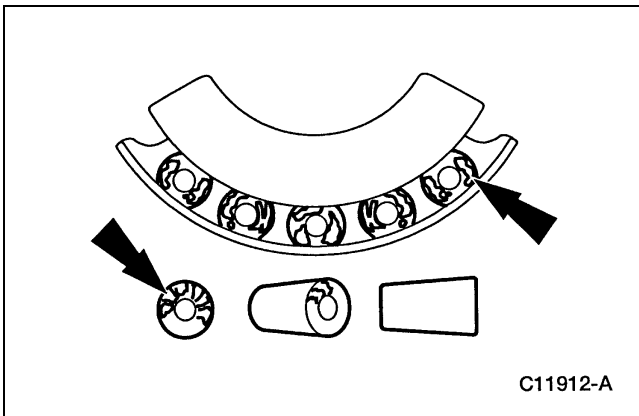
Bearings — Inspection(id=n144521)

NOTE: If any of the following conditions exist, install a new bearing.

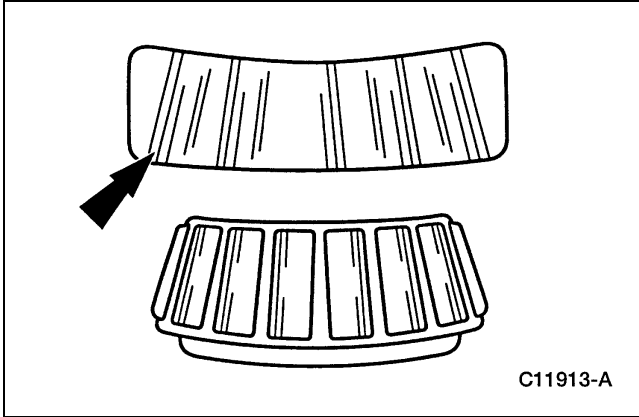
1. Inspect the bearing for a bent cage.



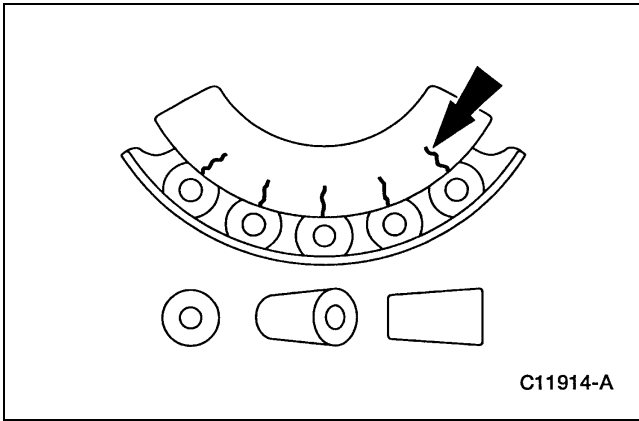
2. Inspect bearings for galling (metal smears on roller ends).
 - Galling is caused by overheating, poor lubrication or an overload situation.
 - If galling is found, install a new bearing and inspect the seals.



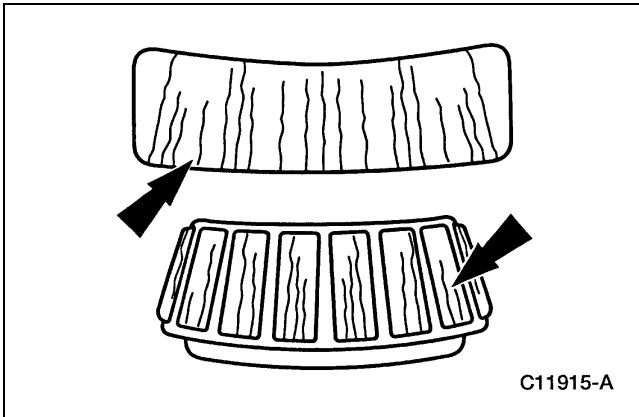
GENERAL PROCEDURES (Continued)



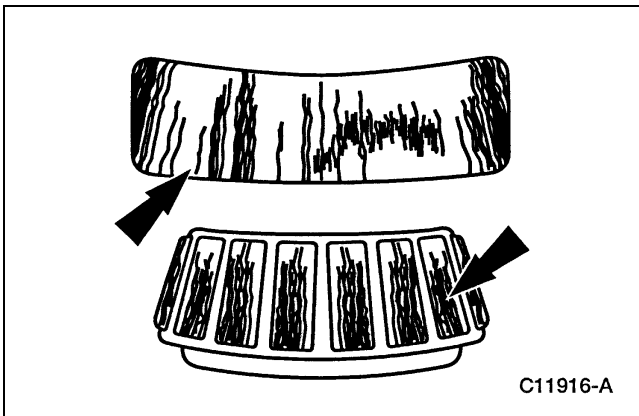
3. Inspect the bearing for brinelling (surface indentations in the raceway).



4. Inspect bearing for cracked inner race.

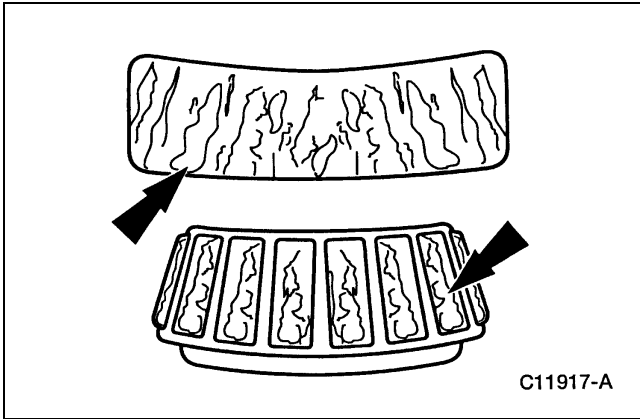


5. Inspect the bearing and raceway for etching.
 - If etching is present, inspect the seals.



6. Inspect the bearing for heat discoloration (dark blue).
 - If heat discoloration is evident, check the bearing and race for loss of temper. Draw a file across the component. If the file cuts the metal, there is a loss of temper.

GENERAL PROCEDURES (Continued)



- 7. Inspect the bearing for fatigue spalling (metal flaking).

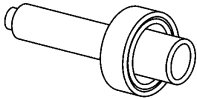
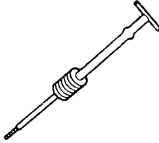
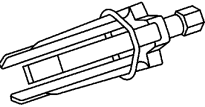
IN-VEHICLE REPAIR

Superseded by:SGML_id="n51712 "

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 Effect:Frozen: "N" "2000" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"
 Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2002" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2004" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"

Seal(id=n143130)

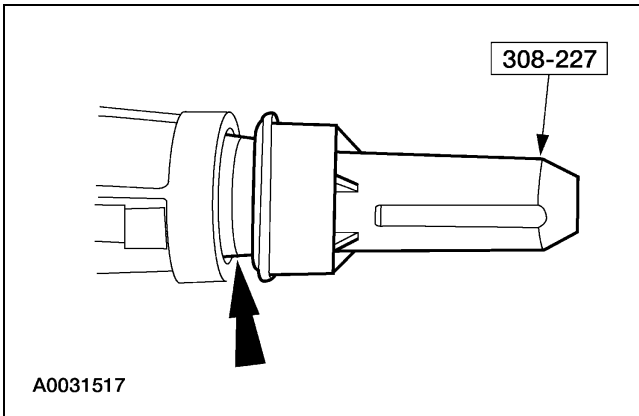
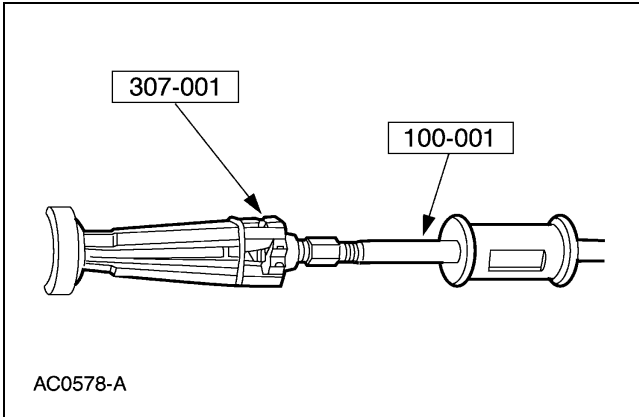
Special Tool(s)

 <p>ST2199-A</p>	<p>Installer, Transmission Extension Housing Oil Seal 308-227 (T94P-7657-A)</p>
 <p>ST1185-A</p>	<p>Slide Hammer 100-001 (T50T-100-A)</p>
 <p>ST2200-A</p>	<p>Remover, Bushing 307-001 (TOOL-1175-AC) or Equivalent</p>

Removal

1. With the vehicle in NEUTRAL, raise and support the vehicle. For additional information, refer to [Section 100-02](#).

IN-VEHICLE REPAIR (Continued)



2. **⚠ CAUTION: Index-mark the driveshaft flange and pinion flange, and the driveshaft slip yoke and transmission output shaft.**

Remove the driveshaft. For additional information, refer to [Section 205-01](#).

3. Using the special tools, remove the extension housing fluid seal.

Installation

1. Using the special tool, install the extension housing fluid seal.

2. **⚠ CAUTION: Align the index marks.**

Install the driveshaft. For additional information, refer to [Section 205-01](#).

3. Check the transmission fluid level, add fluid if necessary.
4. Lower the vehicle.

IN-VEHICLE REPAIR (Continued)

Superseded by:SGML_id="n165175 "

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03A"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03A"

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Effect:Frozen: "N" "2001" "MUSTANG" "08" "03A"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"

Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03A"

Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2002" "MUSTANG" "08" "03A"

Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03A"

Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03A"

Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "MUSTANG" "08" "03A"

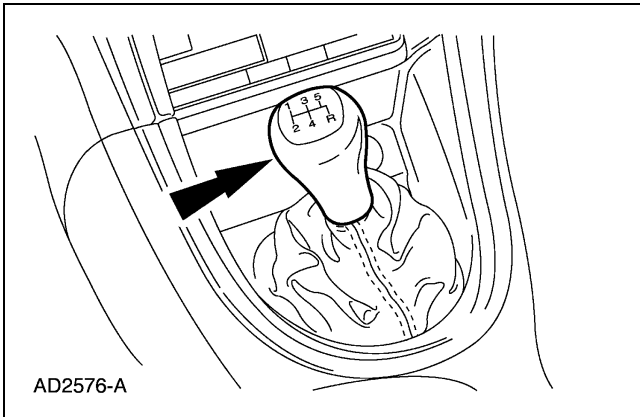
Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2004" "MUSTANG" "08" "03A"

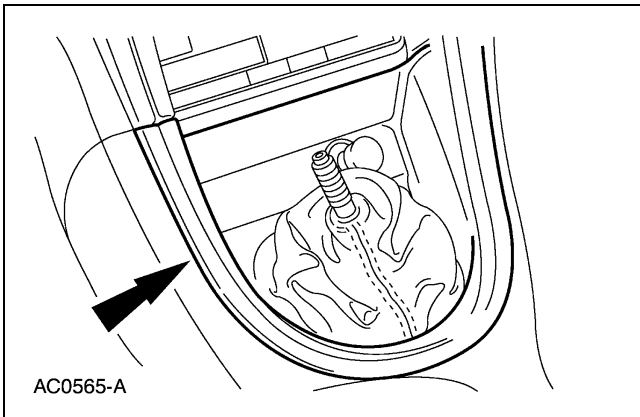
Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"

Gearshift Lever and Boot(id=n165178)**Materials**

Item	Specification
Clear Silicone Rubber D6AZ-19562-AA or equivalent	ESB-M4G92-A

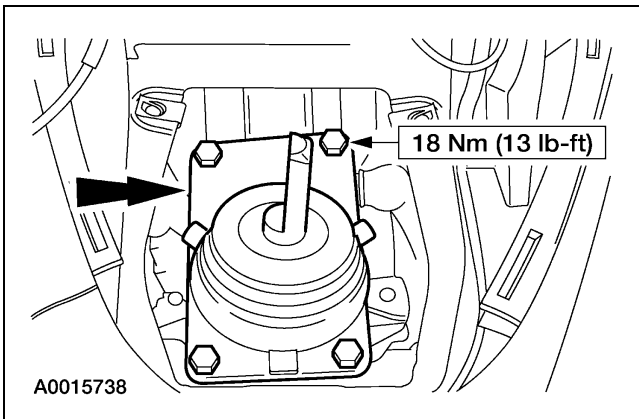
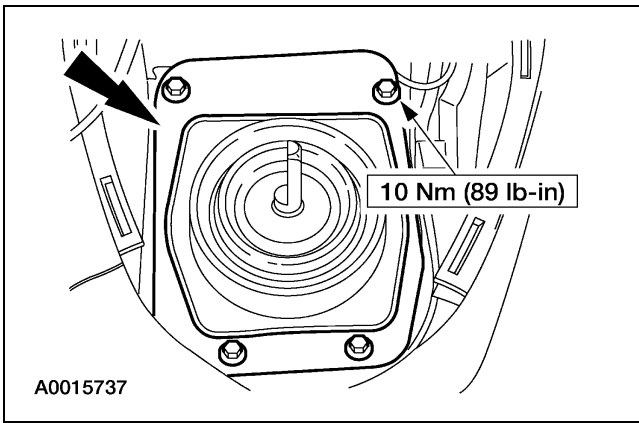
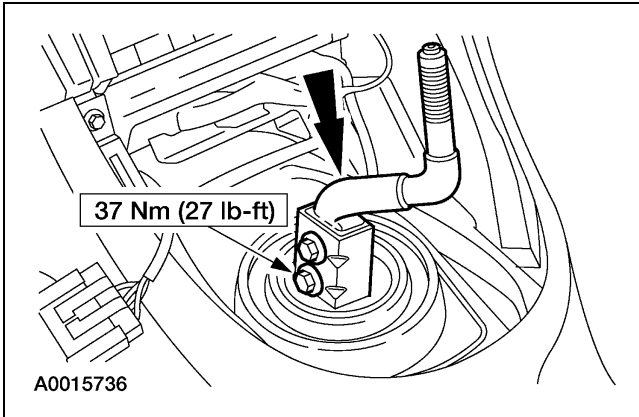
Removal and Installation

1. Remove the gearshift lever knob.



2. Remove the console panel gearshift plate. Lift the gearshift lever boot over the gearshift lever.

IN-VEHICLE REPAIR (Continued)




3. Remove the bolts and the shift lever.

4. Remove the screws and the inner shifter boot.

5. Remove the bolts and the gearshift lever.

6. Remove the gearshift lever boot.

7.  **CAUTION: Cover the opening in the extension housing to prevent contamination.**
Clean the gearshift lever mounting surfaces.

8. To install, reverse the removal procedure.

- Apply a 3.2-mm (1/8-in) bead of silicone rubber to the sealing surface on the gearshift lever.

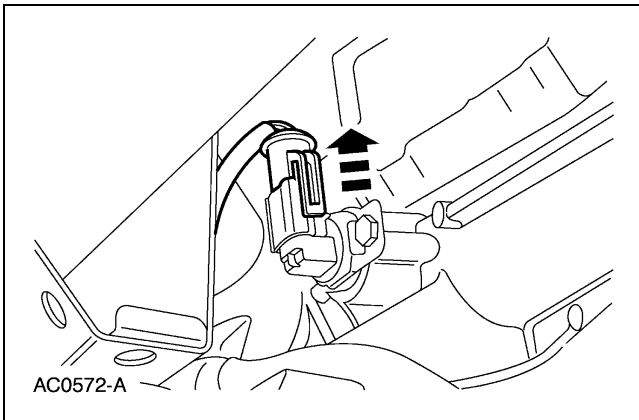
IN-VEHICLE REPAIR (Continued)

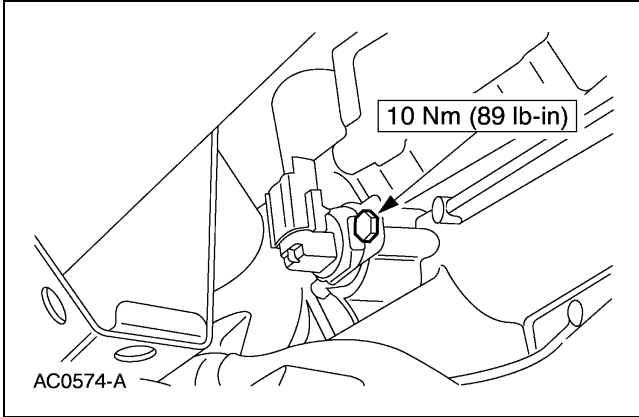
Superseded by:SGML_id="n147997 "

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 Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2000" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"
 Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2002" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "2003" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2004" "MUSTANG" "08" "03A"
 Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"

Output Shaft Speed (OSS) Sensor(id=n147998)**Removal and Installation**

1. With the vehicle in NEUTRAL, raise and support the vehicle. For additional information, refer to [Section 100-02](#).
2. Disconnect the electrical connector.



IN-VEHICLE REPAIR (Continued)

3. Remove the output shaft speed (OSS) sensor.

4. To install, reverse the removal procedure.

REMOVAL

Superseded by:SGML_id="n51714 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"

Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"

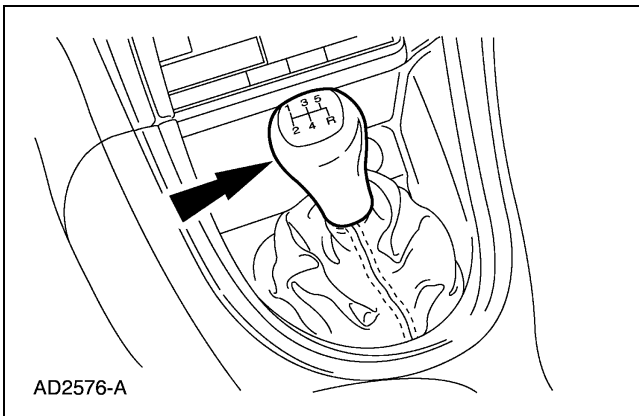
Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"

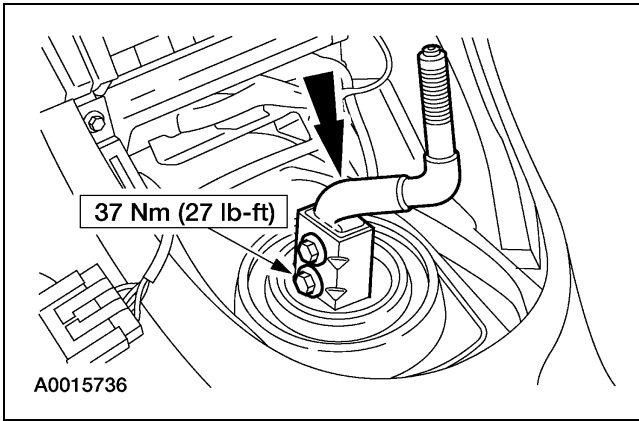
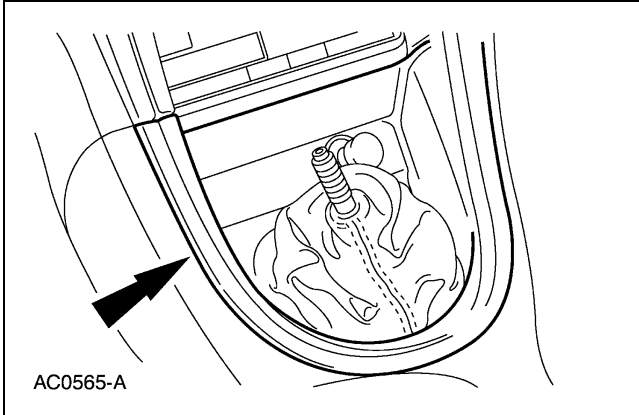
Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"

Transmission(id=n144509)

1. Disconnect the battery ground cable. For additional information, refer to [Section 414-01](#).



2. Remove the gearshift lever knob.

REMOVAL (Continued)

3. Remove the console panel gearshift plate. Lift the gearshift lever boot over the gearshift lever.

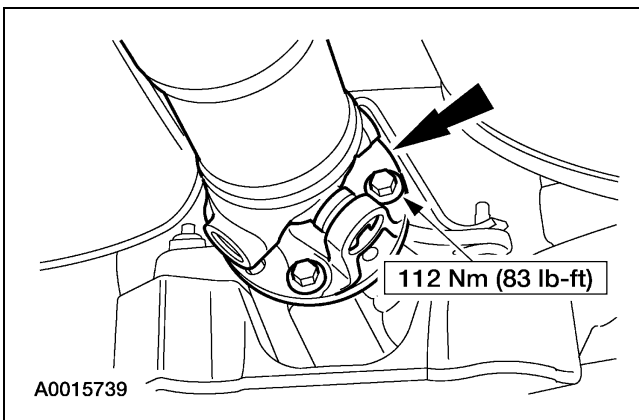
4. Remove the bolts and the shift lever.

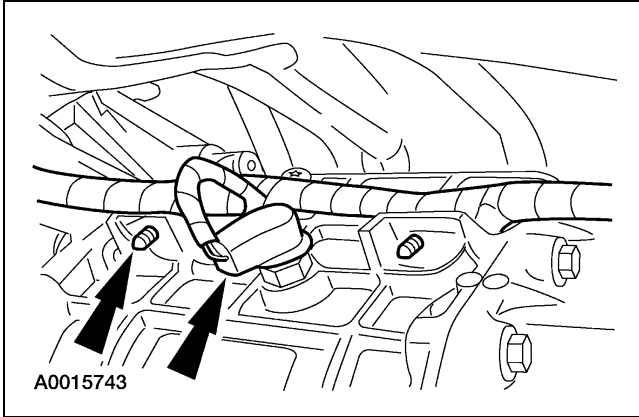
5. With the vehicle in NEUTRAL, raise and support the vehicle. For additional information, refer to [Section 100-02](#).

6. Remove the dual converter H-pipe. For additional information, refer to [Section 309-00](#).

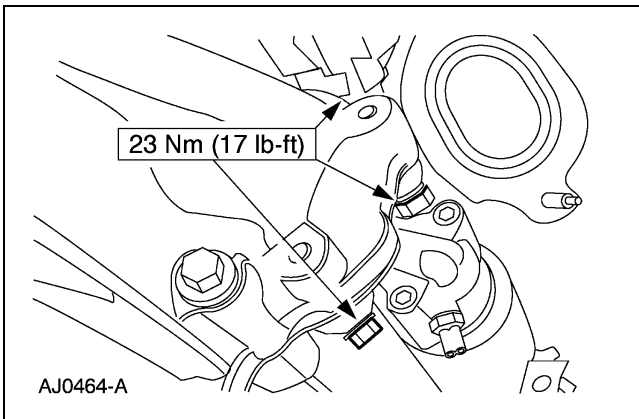
7. **⚠ CAUTION: Index-mark the driveshaft flange and pinion flange, and the driveshaft slip yoke and transmission output shaft.**

Remove the driveshaft. For additional information, refer to [Section 205-01](#).



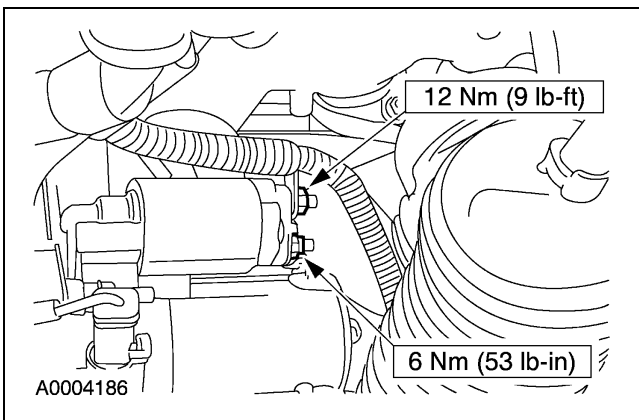
REMOVAL (Continued)

8. Disconnect the reversing lamp switch electrical connector. Disconnect the wiring harness from the transmission.



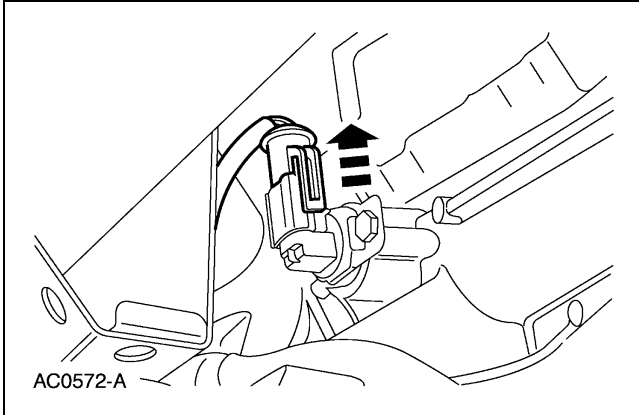
9. Remove the starter motor. For additional information, refer to [Section 303-06](#).

10. Remove the bolts.

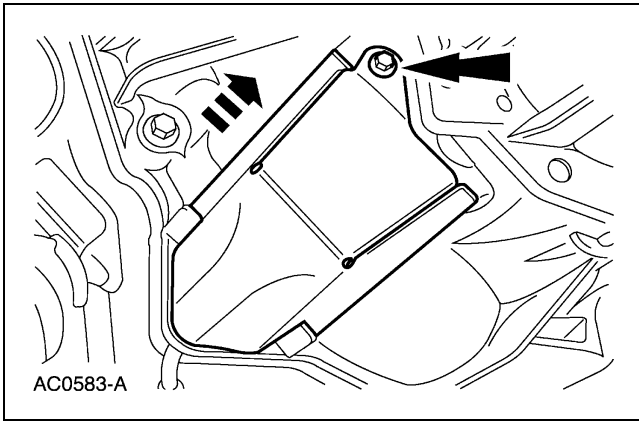


11. Remove the starter solenoid nuts and position the wires aside.

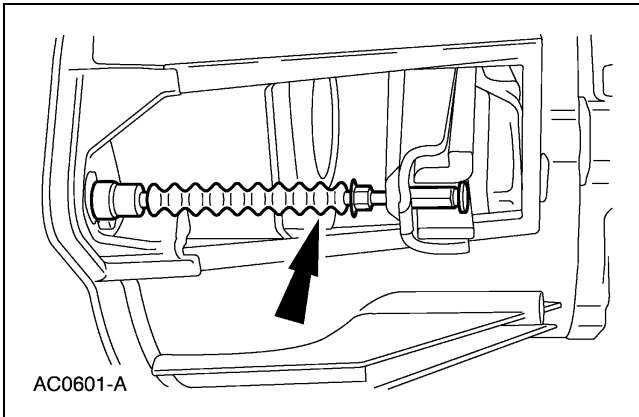
12. Remove the starter motor.

REMOVAL (Continued)

13. Disconnect the OSS sensor electrical connector. Disconnect the wiring harness from the transmission.

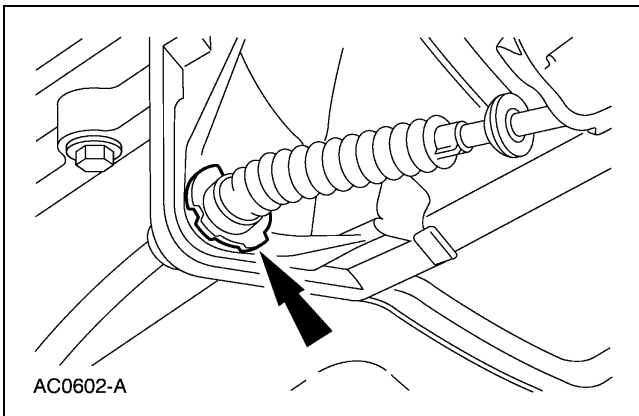


14. Remove the bolt and the clutch release lever cover.

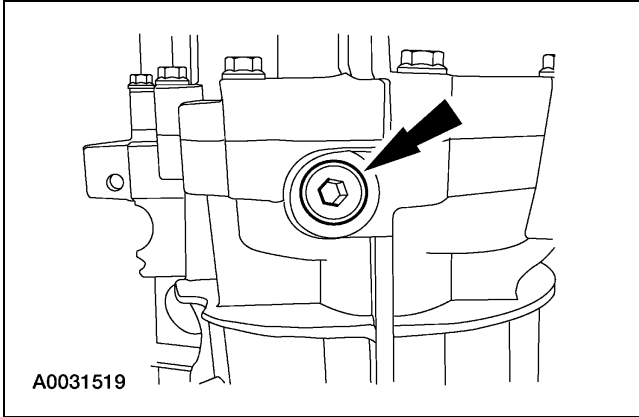


15. **⚠ CAUTION: To prevent component damage, do not depress the clutch pedal with the transmission removed.**

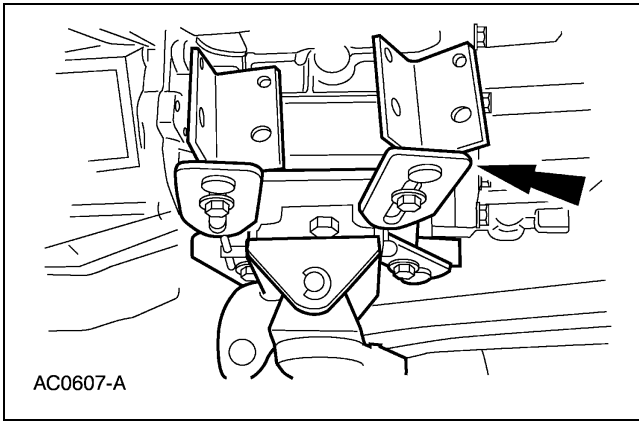
Disengage the clutch release cable from the clutch release fork.



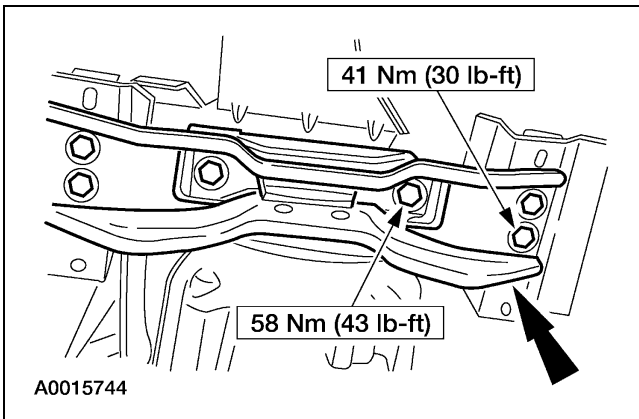
16. Remove the clutch cable retainer and remove the clutch cable from the transmission.

REMOVAL (Continued)

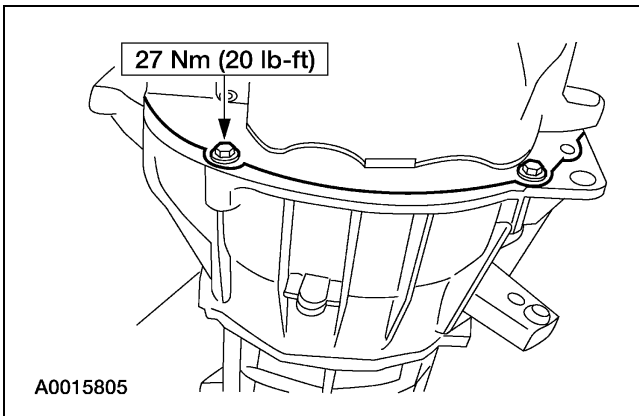
17. If transmission disassembly is necessary, drain the transmission fluid.



18. Position a transmission jack and support the transmission.

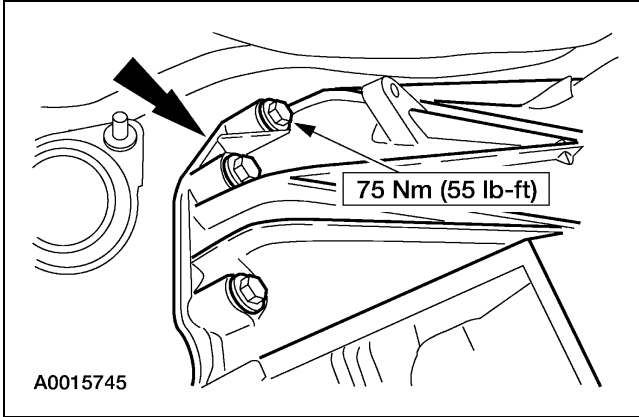


19. Remove the bolts and the transmission crossmember.



20. Remove the bolts.

REMOVAL (Continued)



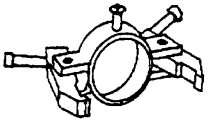
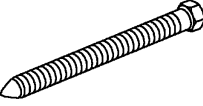
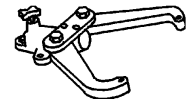
21. Lower the transmission and remove the five bolts.

DISASSEMBLY

Superseded by:SGML_id="n51715 "
 Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"
 Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"
 Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"
 Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"
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 Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"
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 Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

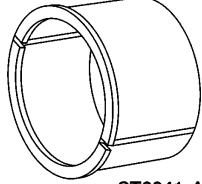
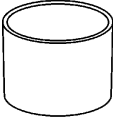
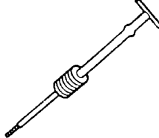
Transmission(id=n144510)

Special Tool(s)

 <p>ST1305-A</p>	<p>Bearing Puller 308-058 (T77J-7025-H)</p>
 <p>ST1304-A</p>	<p>Forcing Screw 308-092 (T84T-7025-B)</p>
 <p>ST1186-A</p>	<p>Holding Fixture 307-003 (T57L-500-B)</p>

(Continued)

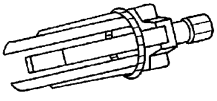
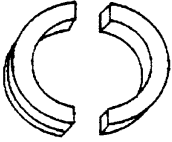
Special Tool(s)

 <p>ST2341-A</p>	<p>Hub Removal Collet 308-242 (T96P-7025-D)</p>
 <p>ST1084-B</p>	<p>Hub Remover Collet Sleeve 308-243 (T96P-7025-E)</p>
 <p>ST1185-A</p>	<p>Impact Slide Hammer 100-001 (T50T-100-A)</p>

(Continued)


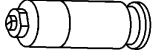
DISASSEMBLY (Continued)

Special Tool(s)

 <p style="text-align: center;">ST1213-A</p>	<p>Puller 307-001 (TOOL-1175-AC) or equivalent</p>
 <p style="text-align: center;">ST1306-A</p>	<p>Puller Ring 308-059 (T77J-7025-J)</p>

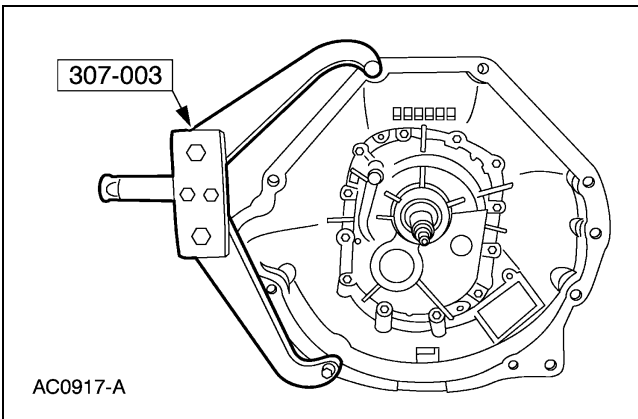
(Continued)

Special Tool(s)

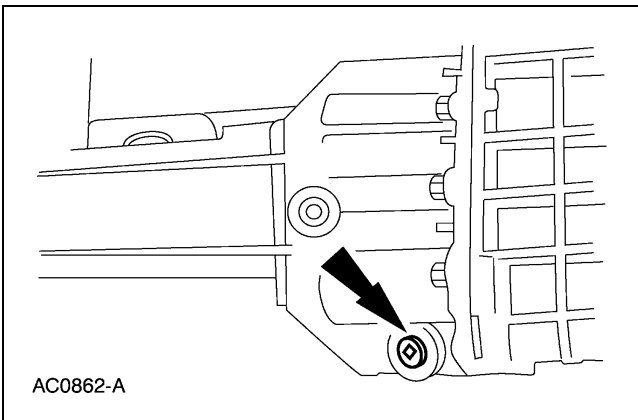
 <p style="text-align: center;">ST1303-A</p>	<p>Remover and Replacer Tube 308-024 (T75L-7025-B)</p>
 <p style="text-align: center;">ST2147-A</p>	<p>Remover and Replacer Tube 308-052 (T77J-7025-B)</p>

1. Remove the clutch release hub and bearing and the clutch release lever. For additional information, refer to [Section 308-01](#).

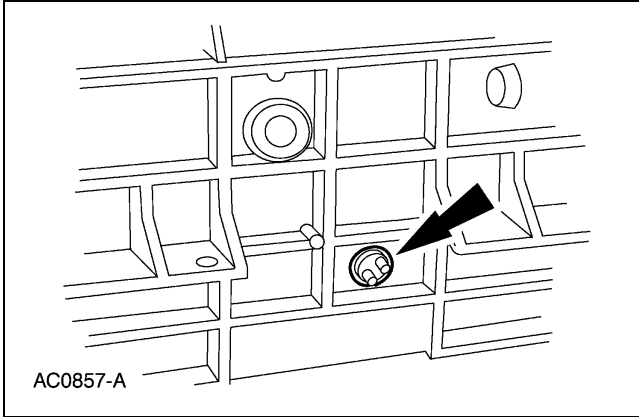
2. Attach the transmission to the special tool.



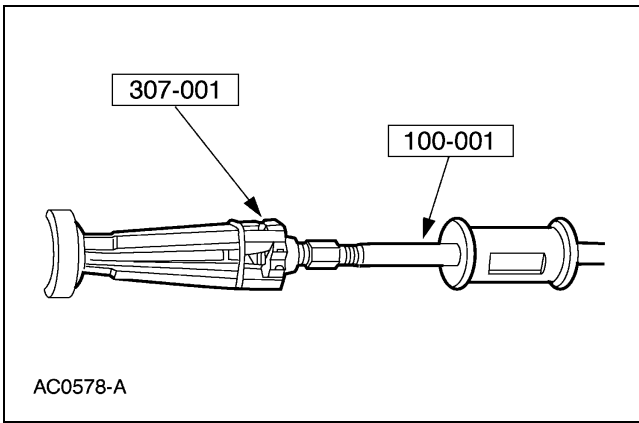
3. Remove the lower case plug (7A010).



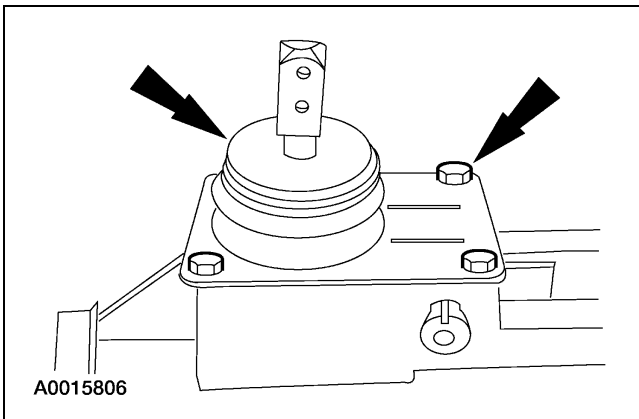
DISASSEMBLY (Continued)



4. Remove the reversing lamp switch assembly (15520).

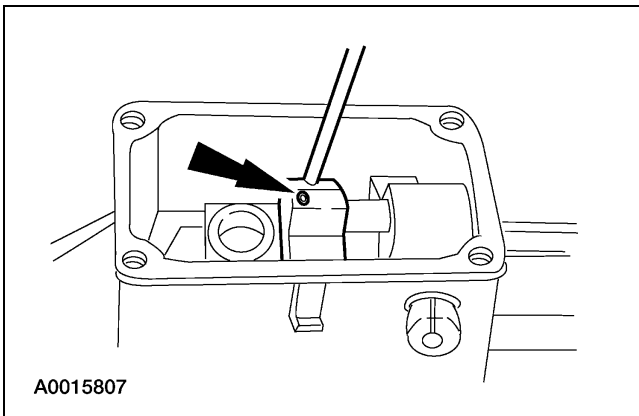


5. Using the special tools, remove the extension housing fluid seal (7052).



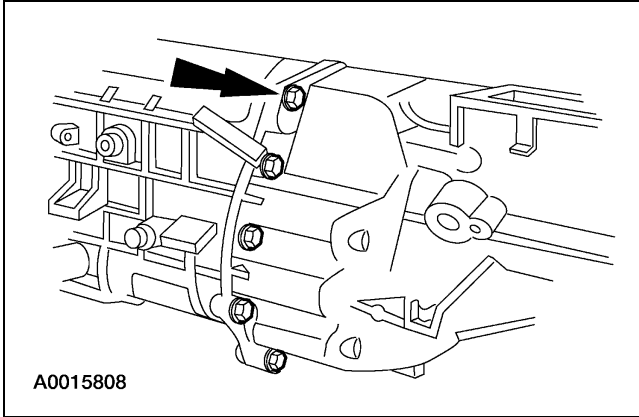
6. **NOTE:** Position the gearshift lever (7210) in NEUTRAL.

Remove the bolts and the gearshift lever.

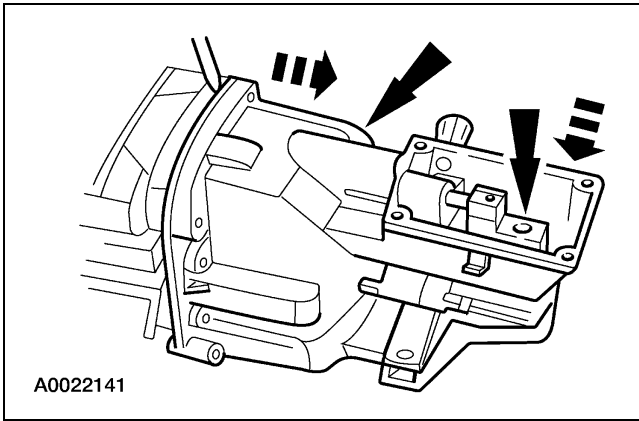



7. **⚠ CAUTION:** Do not attempt to remove the gearshift offset lever (7F018) with the extension housing (7A039) bolted in place. A lug, located on the bottom of the gearshift offset lever, meshes with the detent plate preventing enough rearward movement of the gearshift offset lever to allow removal.

Using a 5/32-inch drift and a hammer, drive the split pin downward as far as possible.

DISASSEMBLY (Continued)

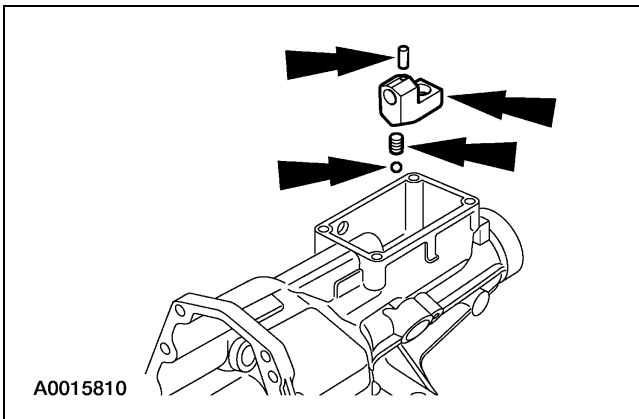
8. Remove the 11 bolts and the identification tag.



9.  **CAUTION: The gearshift offset lever is under spring pressure.**

NOTE: Use a flat-blade screwdriver to separate the extension housing from the transmission case.

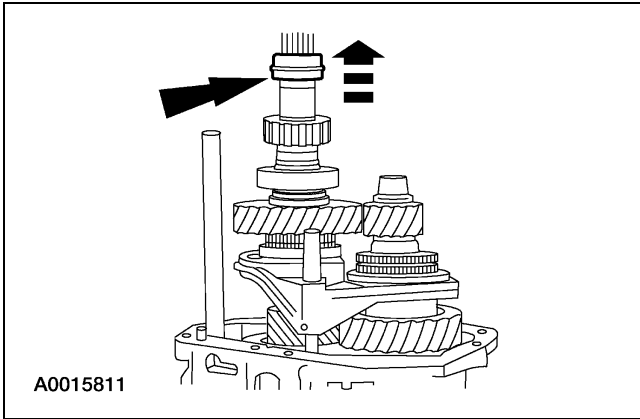
While applying downward pressure on the gearshift offset lever, remove the extension housing and the gearshift offset lever as an assembly.



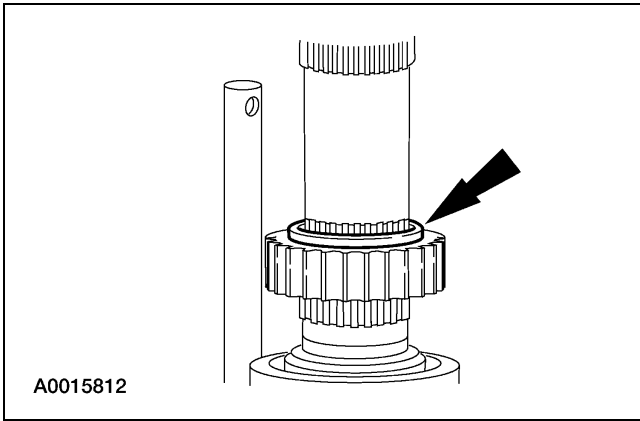
10. Remove the gearshift offset lever, the split pin, the detent spring (7234), and the detent ball (7E172).

11. Position the transmission with the output shaft (7061) facing upward.

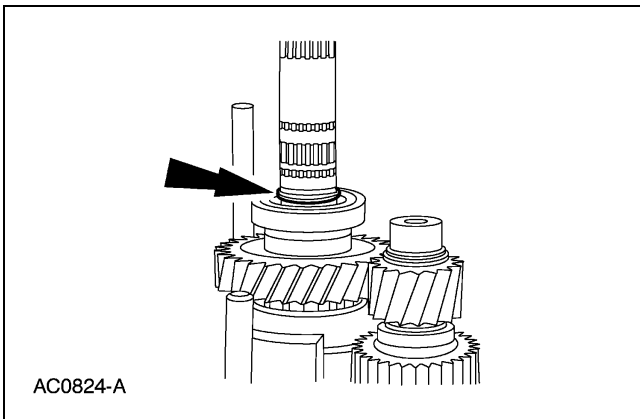
DISASSEMBLY (Continued)



12. Remove the full fill seal.



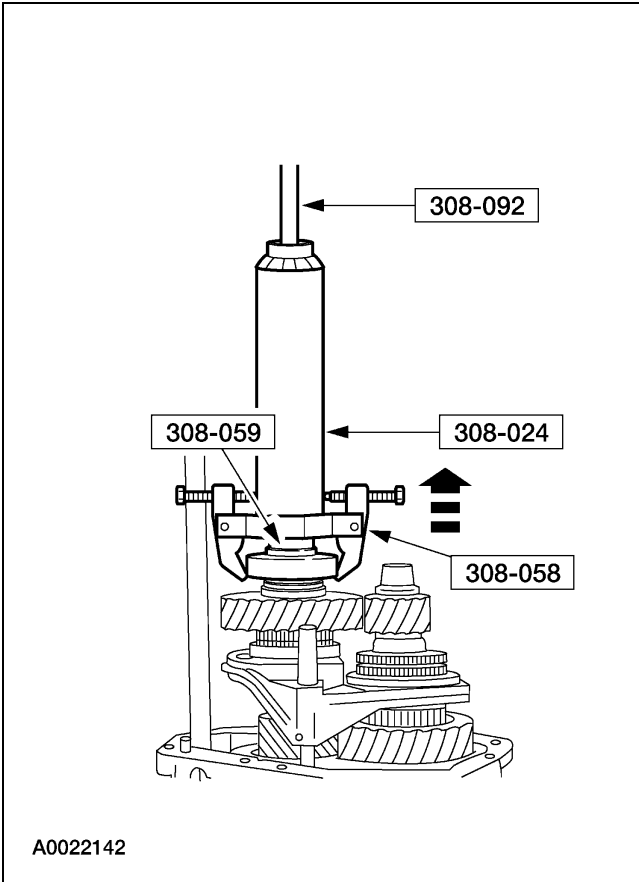
13. Remove the retaining ring, the OSS tone wheel (7H150), and the retaining ring.



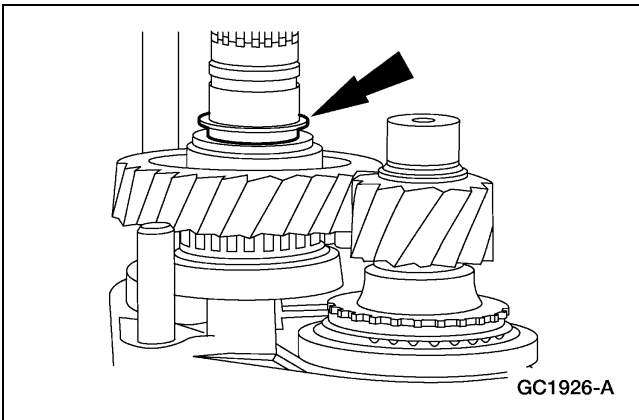
14. Remove the retaining ring.

DISASSEMBLY (Continued)

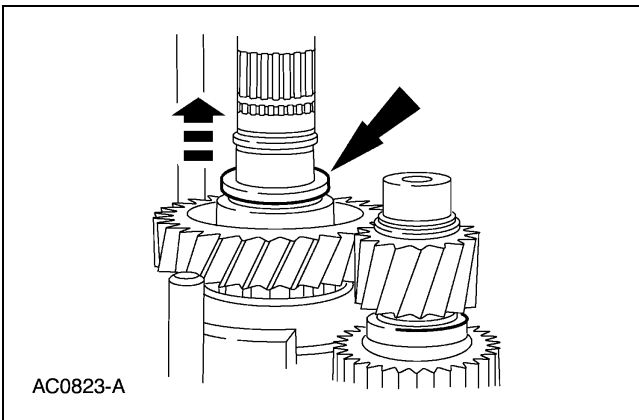
- 15. Using the special tools, remove the output shaft rear bearing (7025). Discard the bearing.

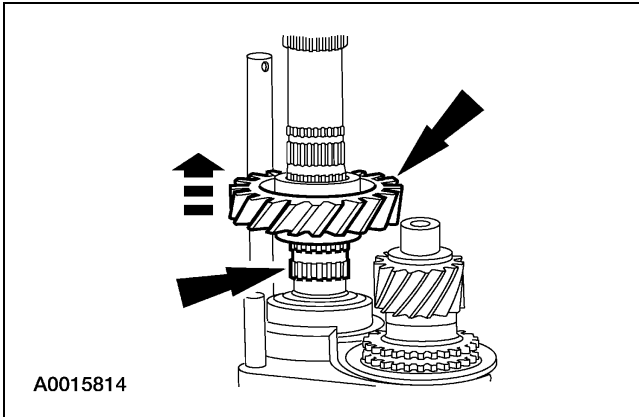


- 16. Remove the retaining ring.

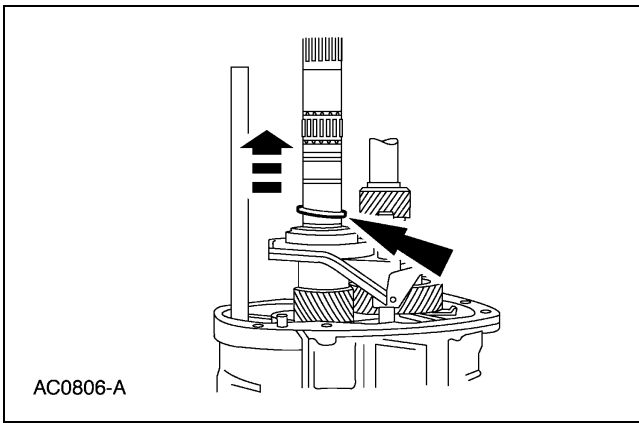


- 17. Remove the selectable thrust washer (7738).

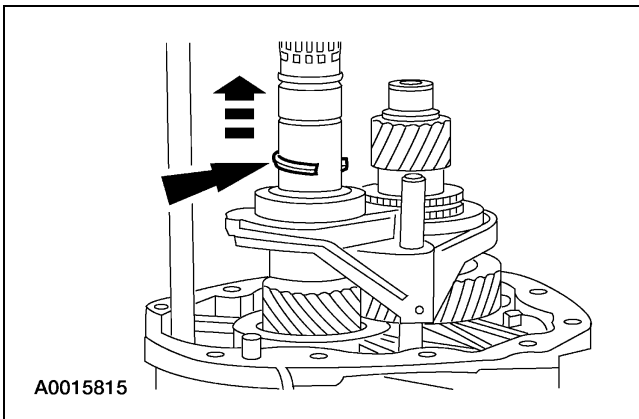


DISASSEMBLY (Continued)

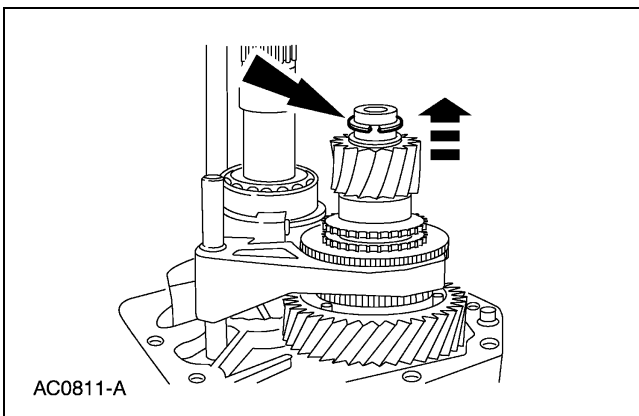
18. Remove the reverse driven gear (7C238) and the needle bearing (7N168).



19. Remove the bearing spacer (7C240).

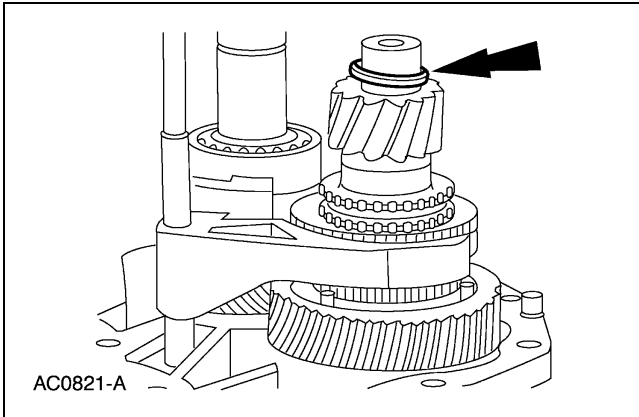


20. Remove the retaining ring.

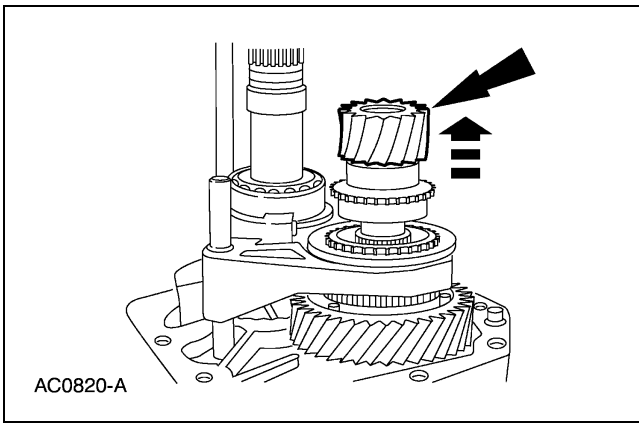


21. Remove the retaining ring.

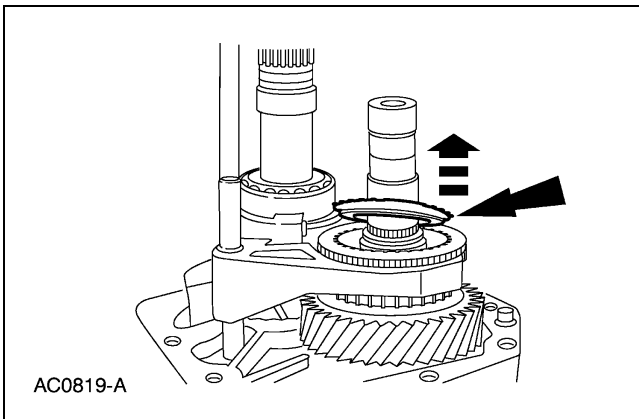
DISASSEMBLY (Continued)



22. Remove the thrust washer (7E254).

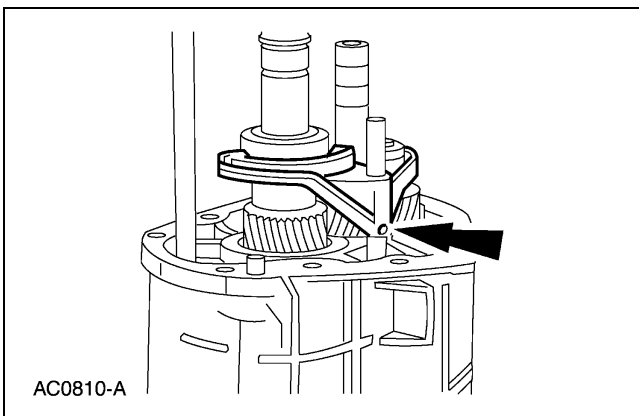


23. Remove the reverse gear (7142).



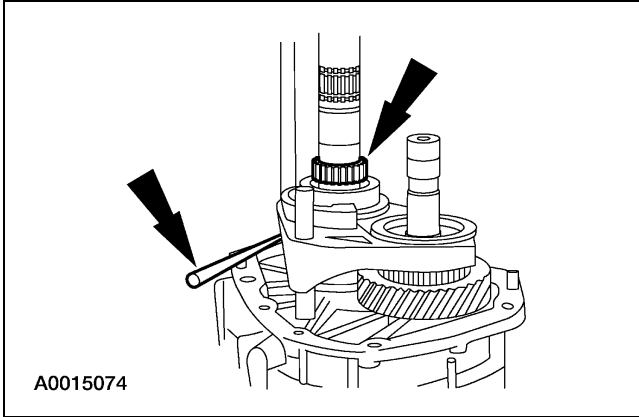
24. **NOTE:** Mark the location of the blocking ring (7107) for assembly.

Remove the reverse speed blocking ring.



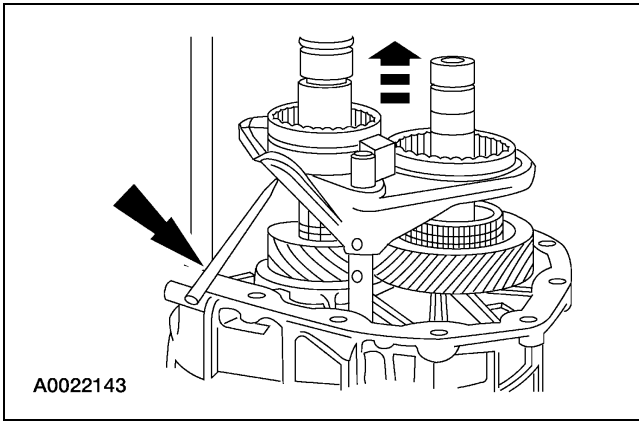
25. Remove the split pin from the fifth/reverse gear shifter fork (7230).

DISASSEMBLY (Continued)



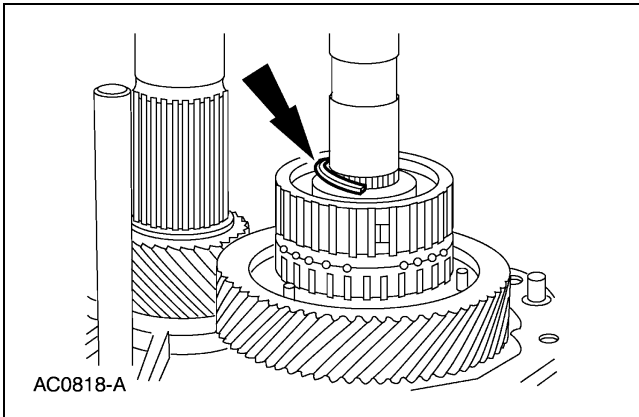
26. **CAUTION:** Do not damage the hub splines.

Using a brass drift and a hammer, remove the reverse synchronizer hub.

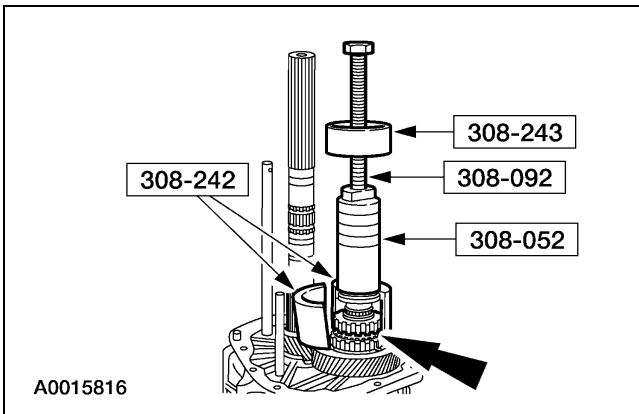


27. **CAUTION:** Prevent the assembly from binding and cocking.

Using a brass drift and a hammer, simultaneously remove the fifth/reverse synchronizer sleeve, the fifth/reverse gear shifter fork, and the reverse synchronizer sleeve.

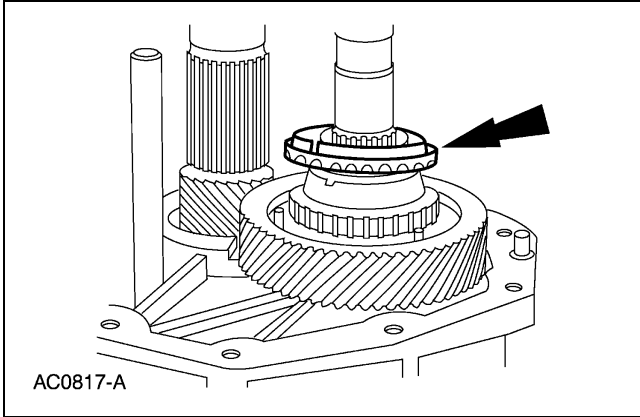


28. Remove the retaining ring.



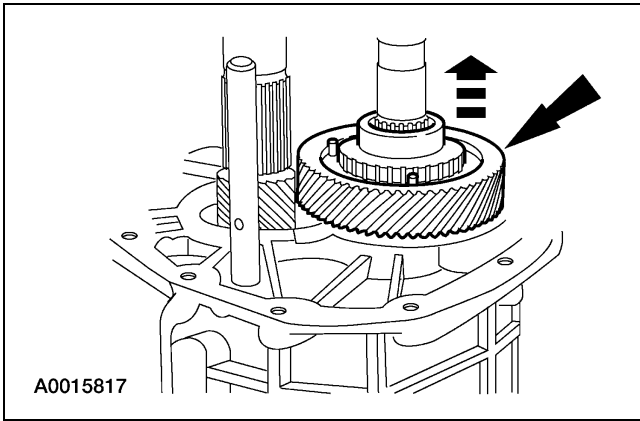
29. **NOTE:** Install the Hub Remover Collet Sleeve above the blocking ring.

Using the special tools, remove the fifth/reverse synchronizer hub.

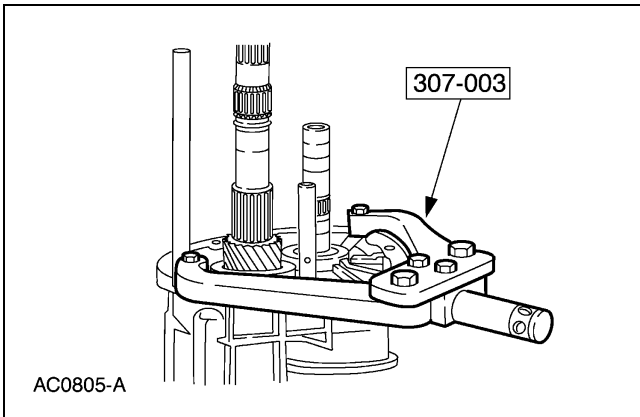
DISASSEMBLY (Continued)

30. **NOTE:** Mark the location of the blocking ring (7107) for assembly.

Remove the fifth speed blocking ring.

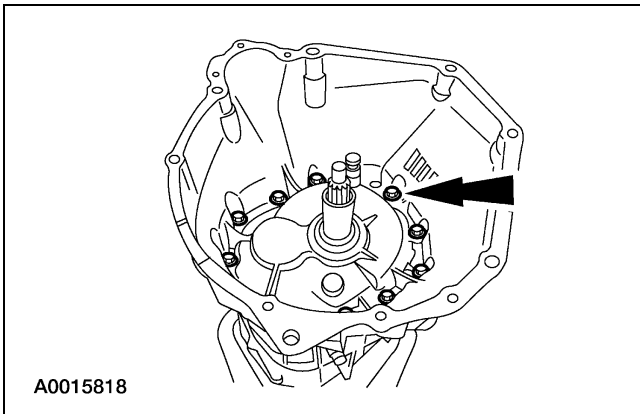


31. Remove the fifth gear (7144).



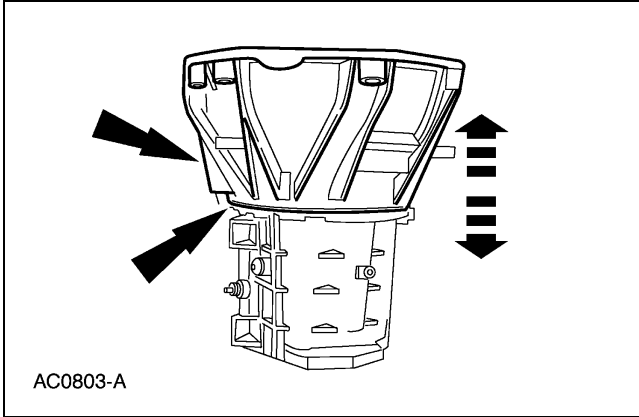
32. Place the transmission on a bench.

33. Remove the special tool from the front of the transmission and install it on the rear of the case (7005). Position the transmission with the flywheel housing (6392) facing upward.



34. Remove the 12 bolts.

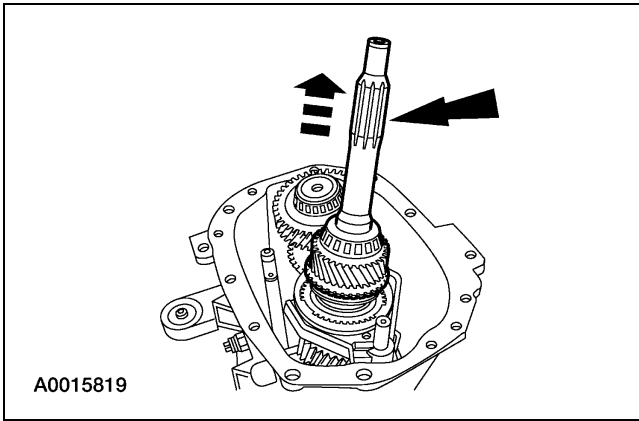
DISASSEMBLY (Continued)



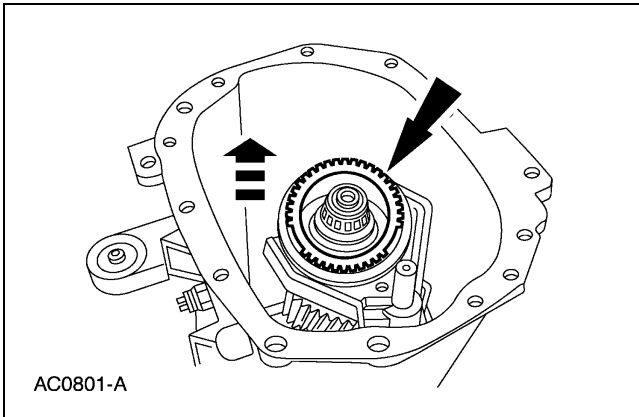
35. **CAUTION:** The countershaft bearing assembly cup and front bearing shim (7L172) may fall out of the flywheel housing.

CAUTION: Pry only in the areas shown to prevent damage to the case.

Separate the flywheel housing from the case.

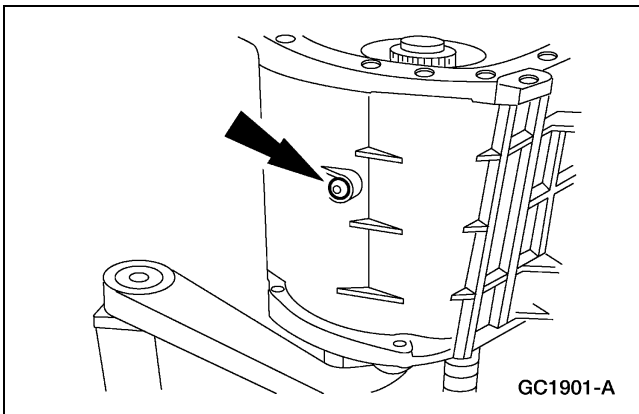


36. Remove the input shaft (7017).



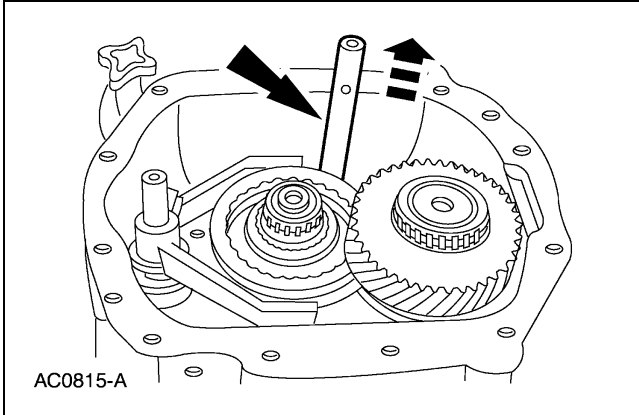
37. **NOTE:** Mark the location of the blocking ring (7107) for assembly.

Remove the fourth speed blocking ring.

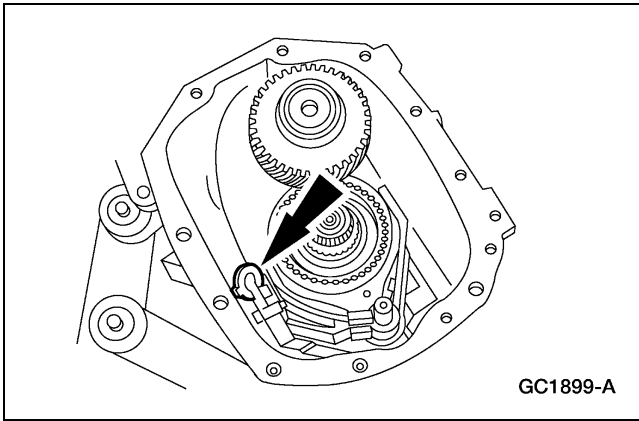


38. Remove the interlock bolt (7C211).

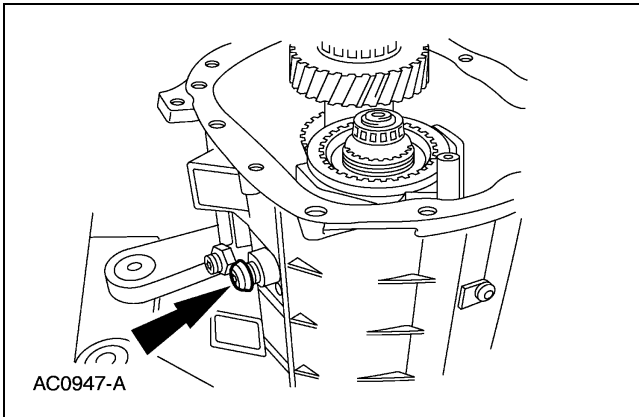
DISASSEMBLY (Continued)



39. Remove the fifth/reverse gear shift rail (7242).



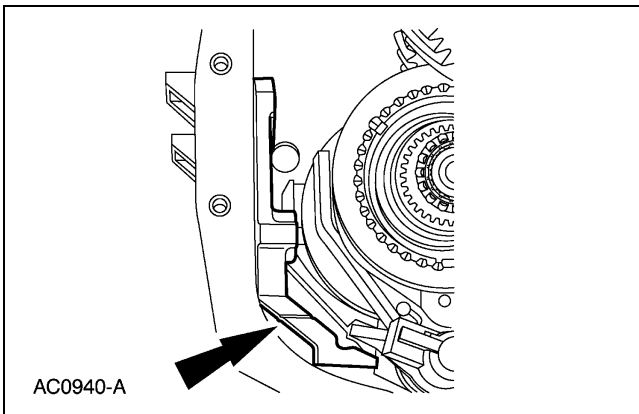
40. Remove the fifth/reverse lever retaining clip (7348).



41. **⚠ CAUTION:** The fifth/reverse lever pivot bolt threads have a thread lock coating on them. Significant break-away torque may be necessary to remove the bolt.

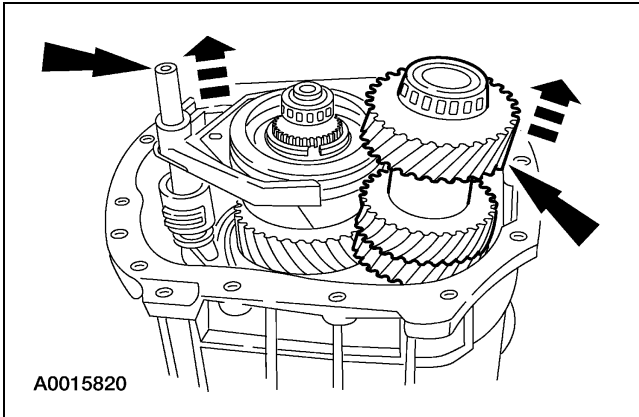
⚠ CAUTION: The fifth/reverse gear shift lever (7K002) may fall into the case after removing the pivot bolt.

Remove the fifth/reverse lever pivot bolt (7K024).



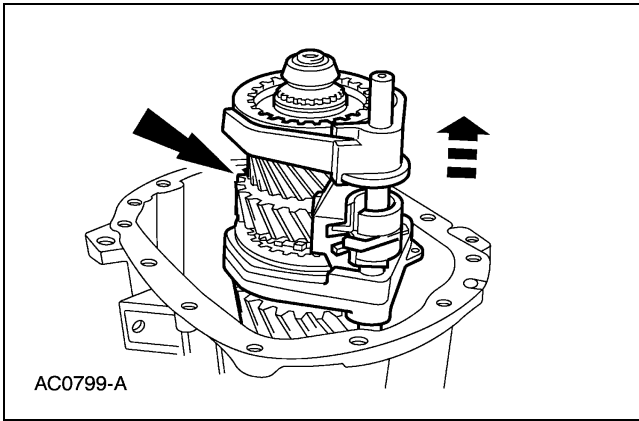
42. Remove the fifth/reverse gear shift lever.

DISASSEMBLY (Continued)



43. **⚠ CAUTION:** To prevent component damage, do not raise the output shaft assembly by lifting up on the third/fourth synchronizer assembly (7124).

Push the output shaft assembly upward approximately 25 mm (1 inch) and remove the countershaft cluster gear (7113).



44. **⚠ CAUTION:** To prevent component damage, do not lift the output shaft assembly by lifting up on the third/fourth synchronizer assembly.

Using two hands, lift the output shaft assembly out of the case.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES

Superseded by:SGML_id="n51720 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

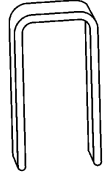
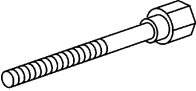
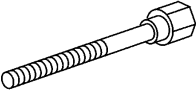
Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

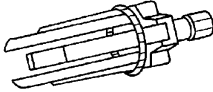
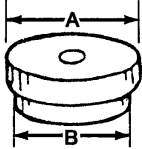
Extension Housing(id=n144517)

Special Tool(s)

 <p>ST2385-A</p>	<p>Bridge 303-D024 (D80L-100-V) or equivalent</p>
 <p>ST2386-A</p>	<p>Forcing Screw 303-D006 (D80L-100-B) or equivalent</p>
 <p>ST2386-A</p>	<p>Forcing Screw 303-D007 (D80L-100-C) or equivalent</p>

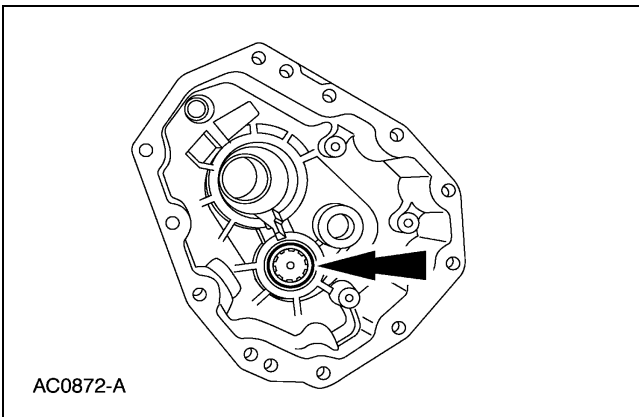
(Continued)

Special Tool(s)

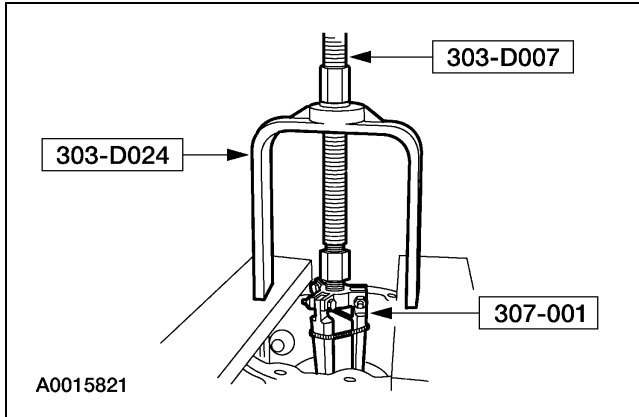
 <p>ST1213-A</p>	<p>Puller 307-001 (TOOL-1175-AC) or equivalent</p>
 <p>ST1650-A</p>	<p>Step Plate Adapter Set 205-DS011 (D80L-630-A) or equivalent</p>

Disassembly

1. Remove the retaining ring.

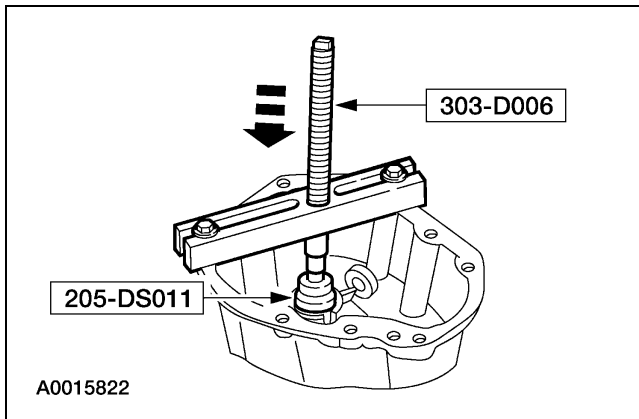


DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



- Using the special tools, remove the countershaft bearing (7121). Discard the bearing.

Assembly

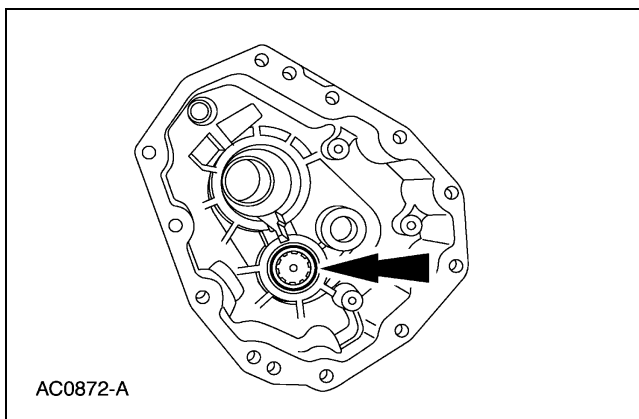


- ⚠ CAUTION: The funnel side of the bearing outer race must face inward toward the extension housing (7A039).**

Using the special tools, install the new countershaft bearing.

- Remove the special tools.

- Apply petroleum jelly to the countershaft bearing.
- Install the retaining ring.



DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Superseded by:SGML_id="n51717 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

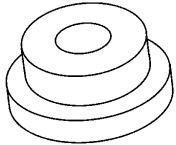
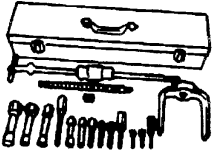
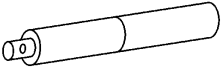
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Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

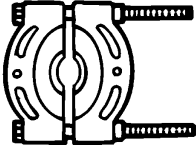
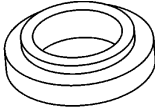

Input Shaft and Bearing(id=n144511)

Special Tool(s)

 <p>ST2389-A</p>	<p>Bearing Cup Replacer 204-038 (T77F-1217-A)</p>
 <p>ST1144-A</p>	<p>Blind Hole Puller Set 303-DS005 (D80L-100-A) or equivalent</p>
 <p>ST2336-A</p>	<p>Handle 205-D055 (D81L-4000-A) or equivalent</p>

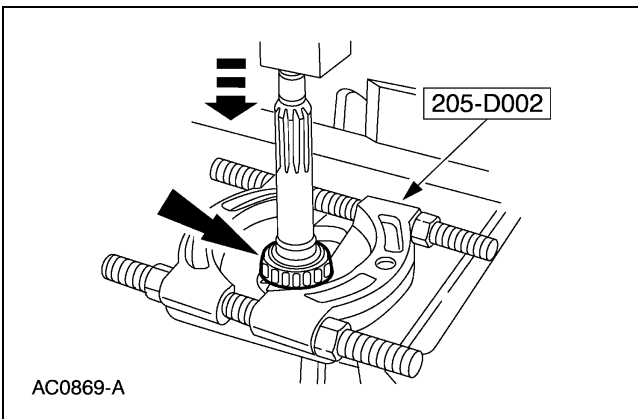
(Continued)

Special Tool(s)

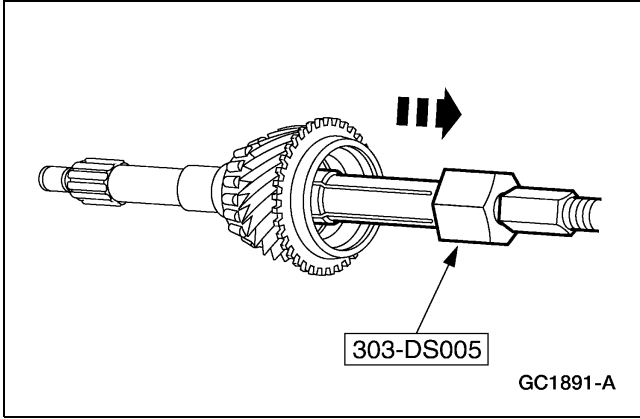
 <p>ST1895-A</p>	<p>Pinion Bearing Cone Remover 205-D002 (D79L-4621-A) or equivalent</p>
 <p>ST2388-A</p>	<p>Pinion Bearing Cone Replacer 205-011 (T57L-4621-B)</p>
 <p>ST1303-A</p>	<p>Remover and Replacer Tube 308-024 (T75L-7025-B)</p>

Disassembly

1. Using the special tool and a press, remove the input shaft front bearing assembly (7025). Discard the bearing.

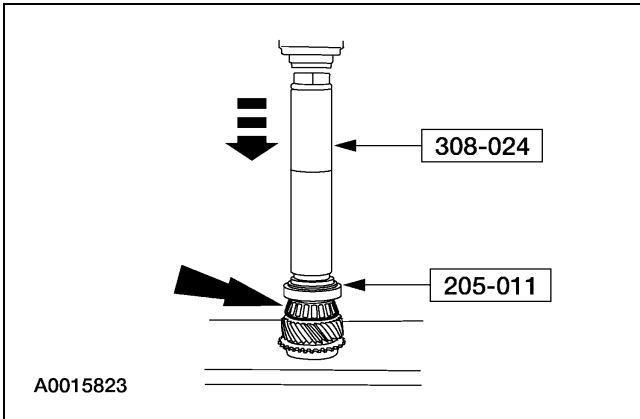


DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

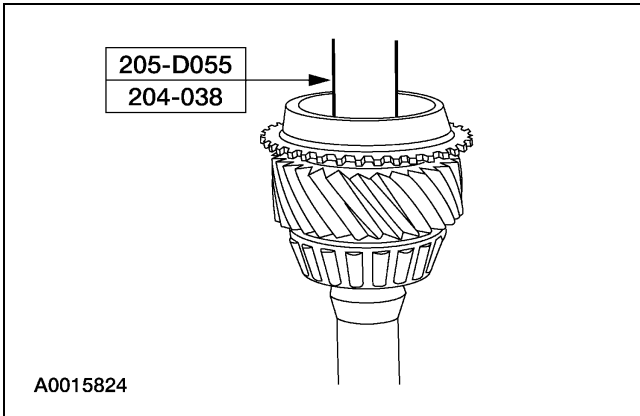


2. Using the special tool, remove the input shaft pocket bearing race. Discard the bearing race.

Assembly



1. Using the special tools and a press, install the new input shaft front bearing assembly.



2. Using the special tools, install the new input shaft pocket bearing race.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Superseded by:SGML_id="none"

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

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Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

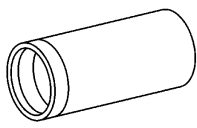
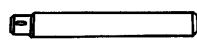
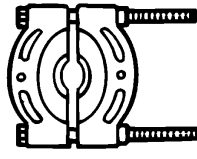
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Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

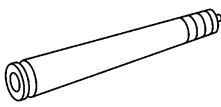
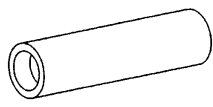
Output Shaft(id=n144512)

Special Tool(s)

 <p>ST2390-A</p>	<p>Bearing Replacer Tube 308-067 (T77L-7025-C)</p>
 <p>ST1255-A</p>	<p>Handle 205-153 (T80T-4000-W)</p>
 <p>ST1895-A</p>	<p>Pinion Bearing Cone Remover 205-D002 (D79L-4621-A) or equivalent</p>

(Continued)

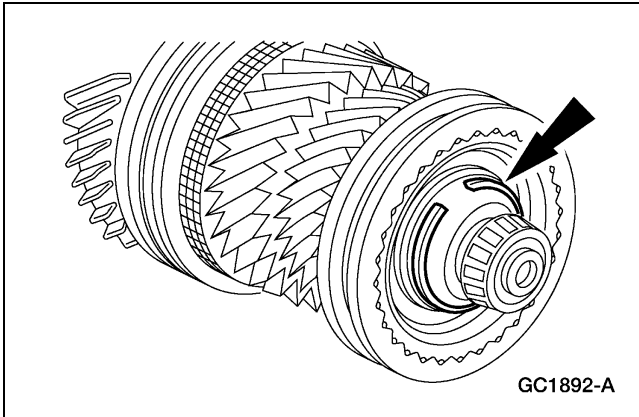
Special Tool(s)

 <p>ST1937-A</p>	<p>Remover and Replacer Tube 308-025 (T75L-7025-C)</p>
 <p>ST1332-A</p>	<p>Valve Stem Seal Replacer 303-383 (T91P-6571-A)</p>

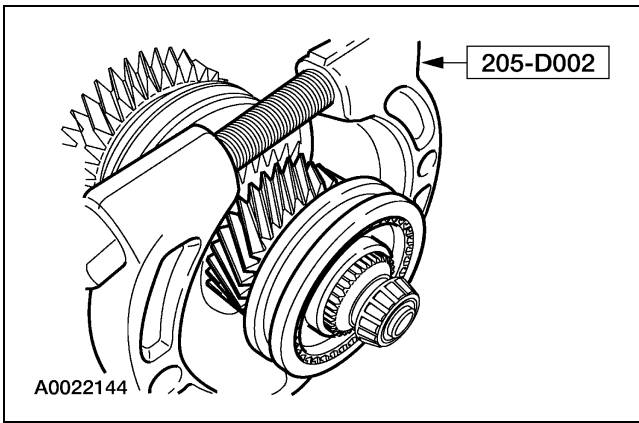
Disassembly

1. Remove the main shift rail (7358), the first/second gear shifter fork (7230), and the third/fourth gear shifter fork (7230) from the output shaft (7061) an assembly.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



2. Remove the retaining ring.

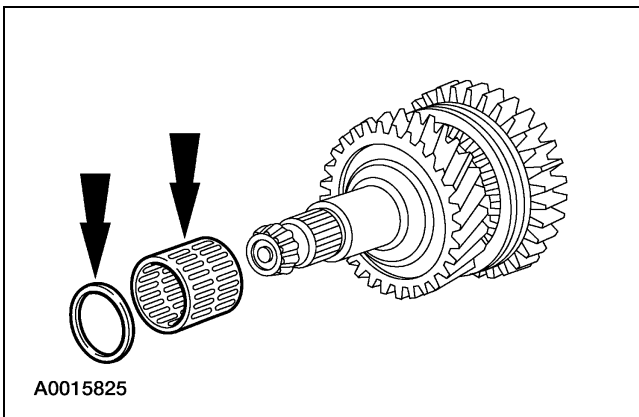


3. **⚠ CAUTION: Hand-tighten the special tool to prevent gear damage.**

⚠ CAUTION: Support the output shaft while using the press to prevent shaft damage.

NOTE: Install the special tool between the second gear (7102) and the third gear (7B340) with the flat side of the special tool facing second gear.

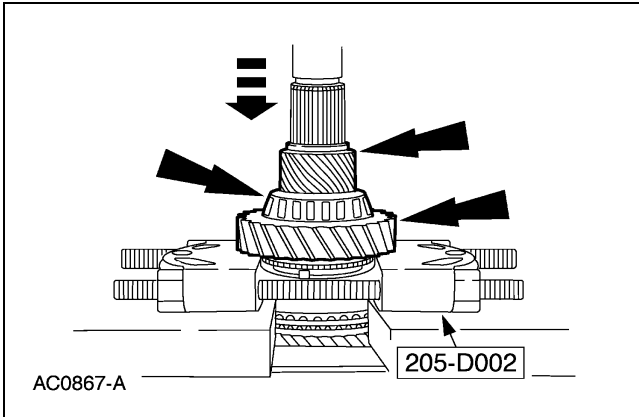
Using the special tool and a press, remove the third/fourth synchronizer assembly (7124), the third speed synchronizer blocking ring (7107), and the third gear as an assembly.



4. **NOTE:** The bearing spacer (7B320) may have already come off with the components removed in the previous step.

Remove the bearing spacer and the needle bearing (7B369).

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

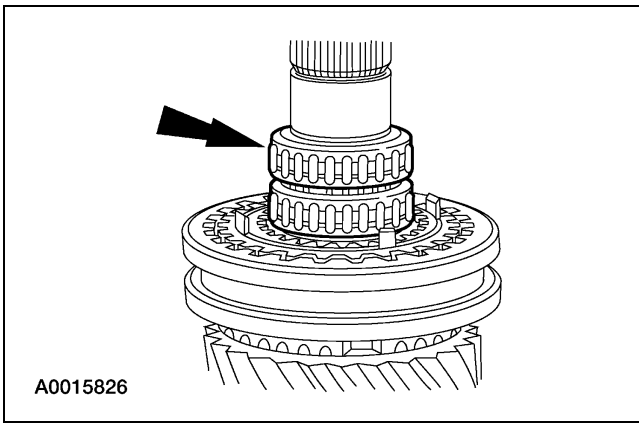


5.  **CAUTION: Hand-tighten the special tool to prevent gear damage.**

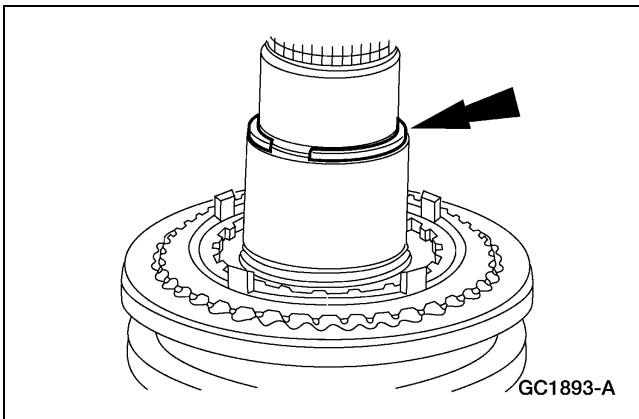
NOTE: Install the special tool with the flat side facing reverse gear.

Using the special tool and a press, remove the fifth driven gear (7K316), the output shaft bearing assembly (7065), and the first gear (7100).

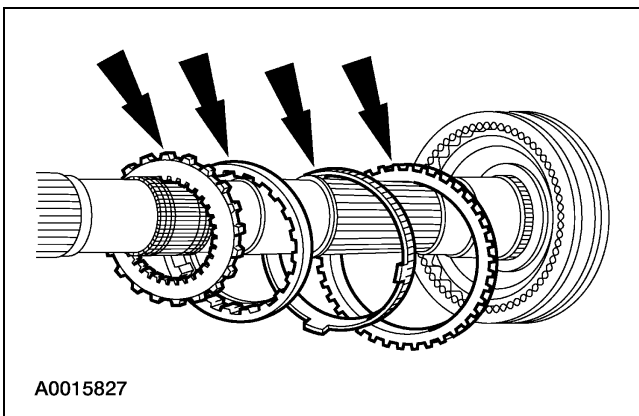
- Discard the tapered roller bearing.



6. Remove the first gear bearing (7127).

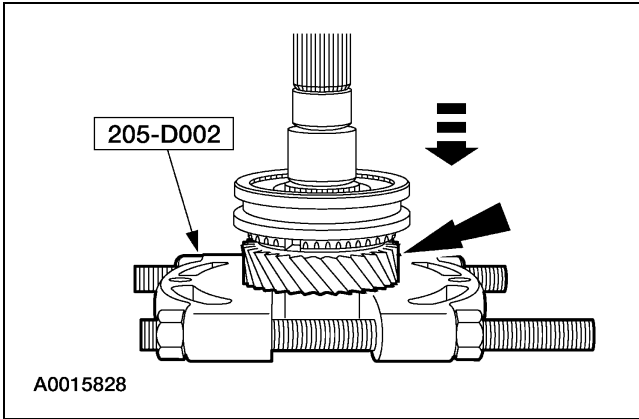


7. Remove the retaining ring.



8. Remove the thrust washer (7Z491), the first gear synchronizer inner cone (7175), the first gear synchronizer outer cone (7174), and the first speed synchronizer blocking ring (7107).

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



9. **⚠ CAUTION: Do not press on the output shaft thrust flange or damage will occur.**

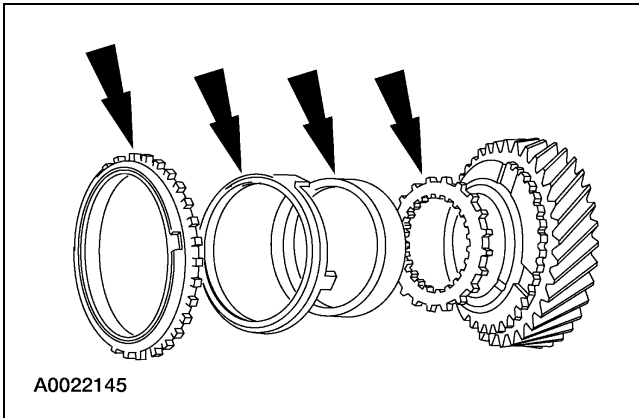
NOTE: Install the special tool behind the second gear (7102) with the flat side of the special tool facing second gear.

Using the special tool and a press, remove the first/second synchronizer assembly (7124) and the second gear.

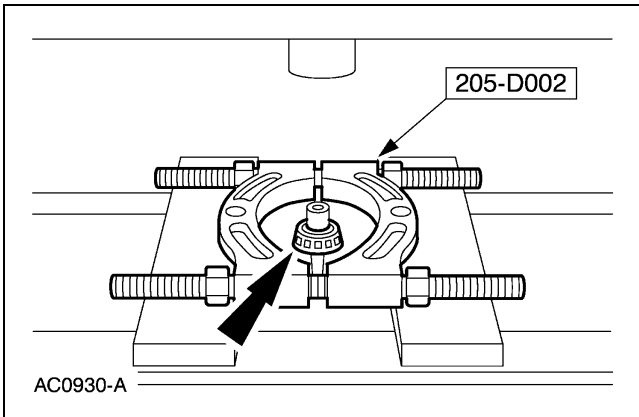
10. Remove the needle bearing (7B369).

11. **NOTE:** Tag all of the parts for correct assembly.

Remove the thrust washer (7Z491), the second gear synchronizer outer and inner cones (7174) (7175), and the second speed synchronizer blocking ring (7107).



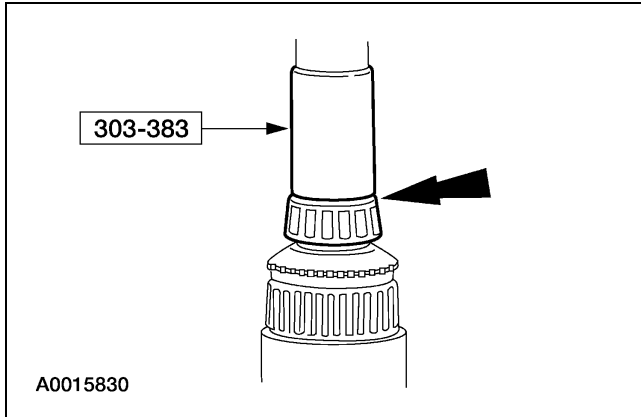
12. Using the special tool and a press, remove the input shaft pocket bearing (7025). Discard the bearing.




Assembly

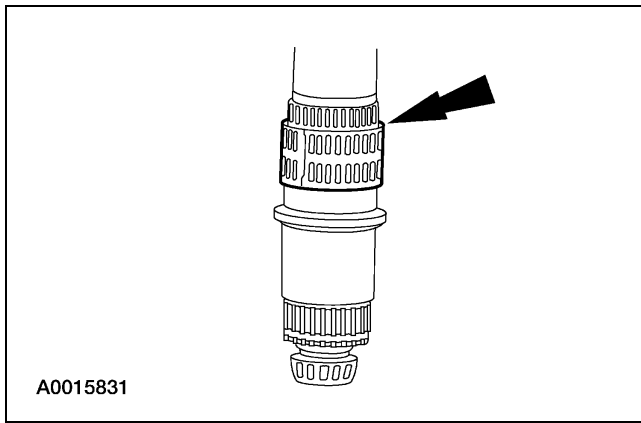
- Soak the blocking rings in transmission fluid for ten minutes.
 - Use MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

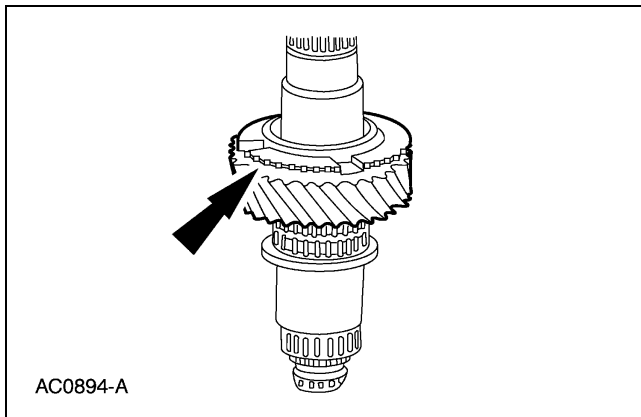


2.  **CAUTION: Do not support the output shaft by the thrust flange or damage can occur.**

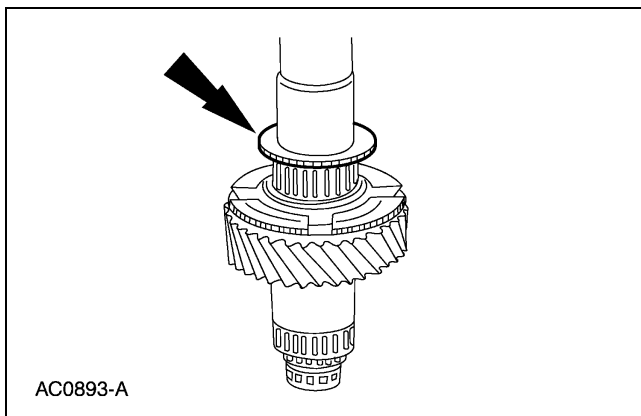
Using the special tool and a press, install the new input shaft pocket bearing.



3. Lubricate the needle bearing with petroleum jelly and install the bearing.

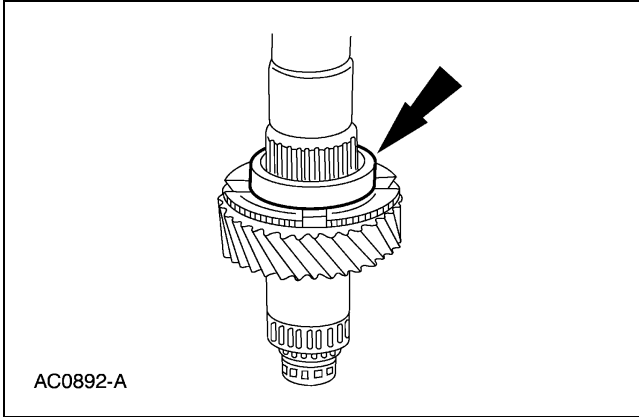


4. Install the second gear.

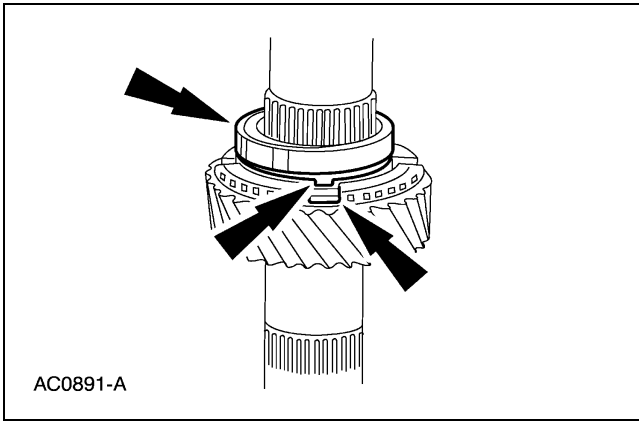


5. Install the thrust washer.

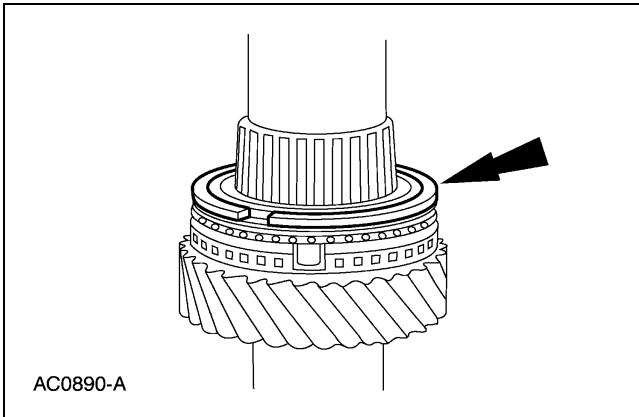
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



6. Install the second gear synchronizer inner cone.
 - Align the second gear synchronizer inner cone and the thrust washer.

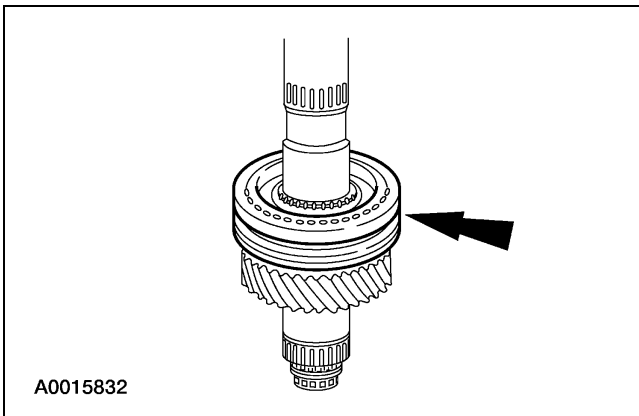


7. Install the second gear synchronizer outer cone.
 - Align the tabs on the cone with the pockets in the second gear.



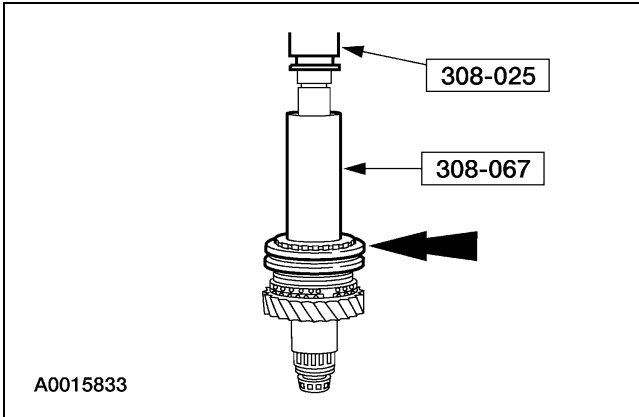
8. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

Install the second speed synchronizer blocking ring.



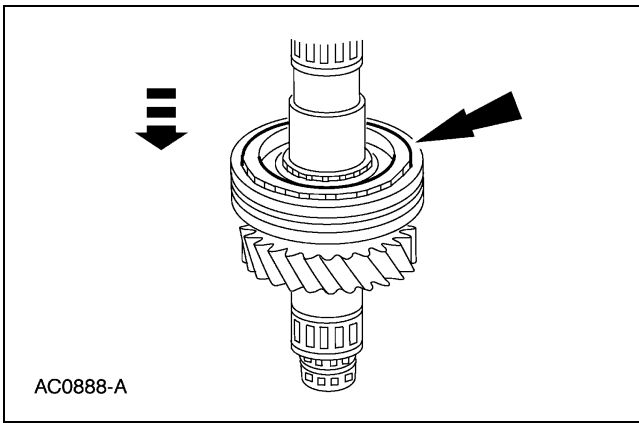
9. Install the first/second synchronizer assembly so that the groove on the sleeve faces the rear of the output shaft.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



10. **CAUTION:** The struts in the synchronizer must align with the pockets in the blocking ring.

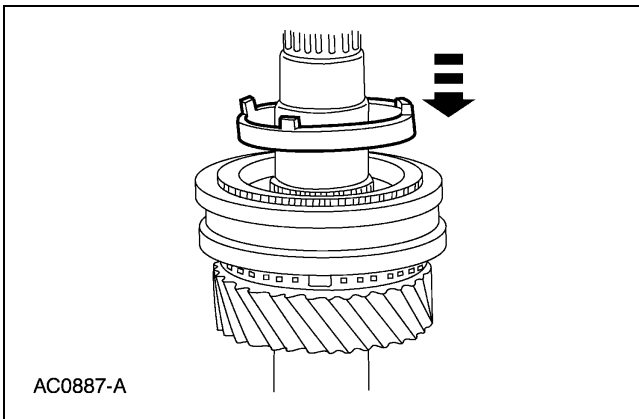
Using the special tools and a press, install the first/second synchronizer assembly.



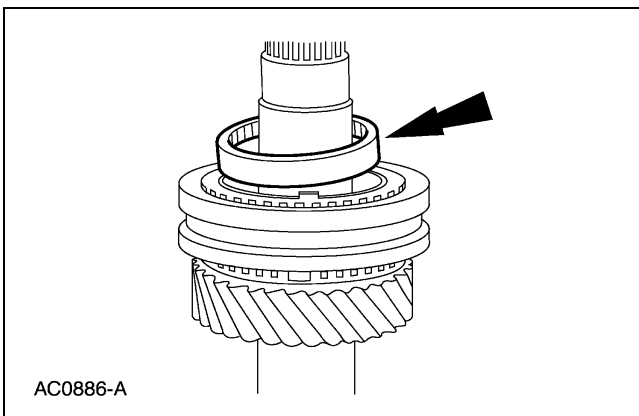
11. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

Install the first speed synchronizer blocking ring.

- Align the triangular marker on the blocking ring with the arrow on the synchronizer.

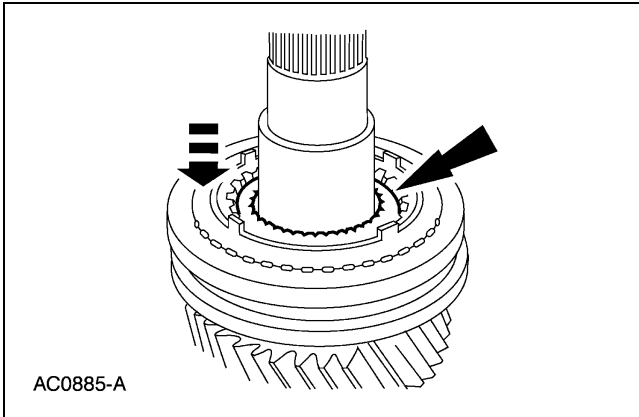


12. Install the first gear synchronizer outer cone with the tabs facing upward.

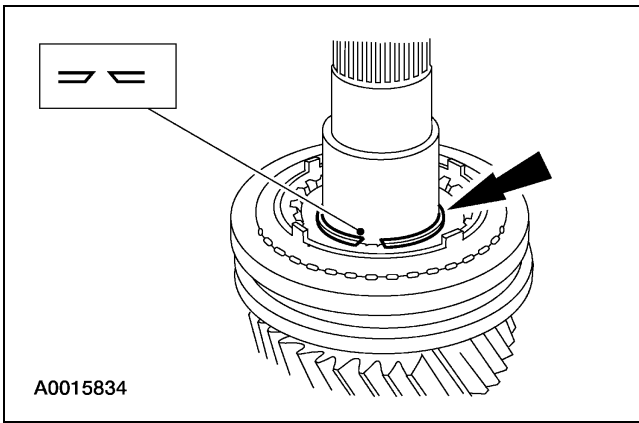


13. Install the first gear synchronizer inner cone.

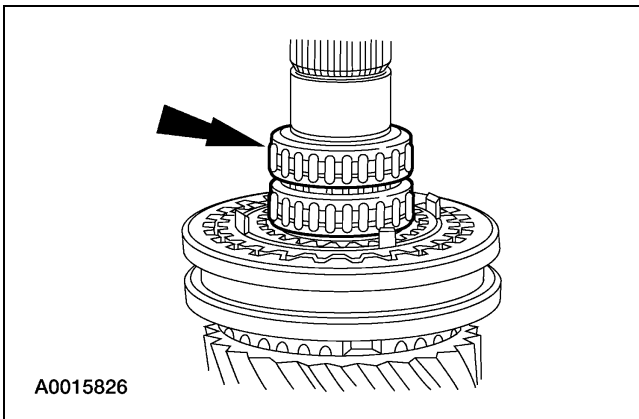
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



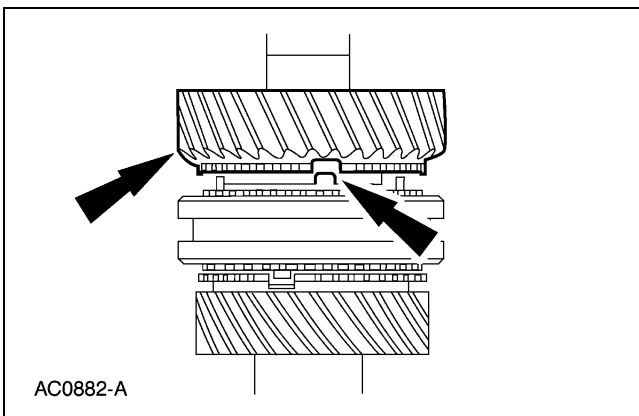
14. Install the thrust washer.



15. Install the retaining ring with the bevel at the gap facing the synchronizer hub.



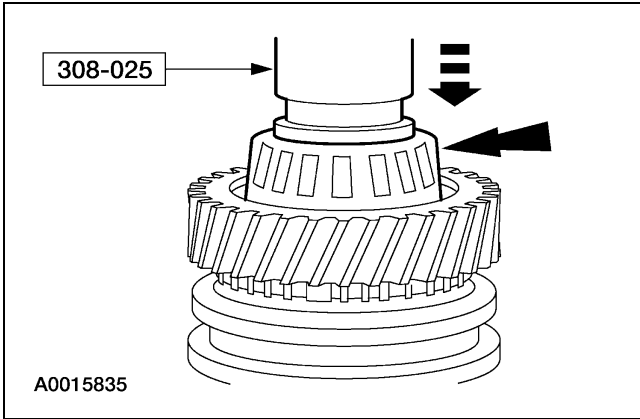
16. Lubricate the first gear bearing with petroleum jelly and install the bearing.



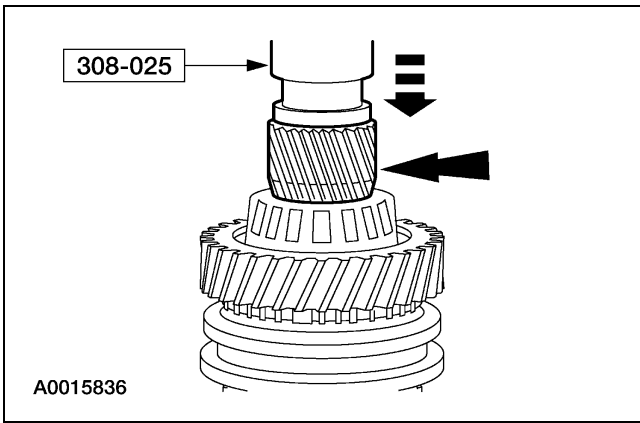
17. Install the first gear.

- Align the pockets in the first gear with the tabs on the outer cone.

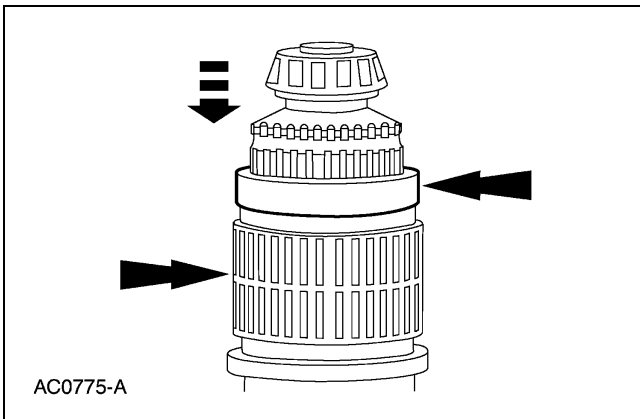
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



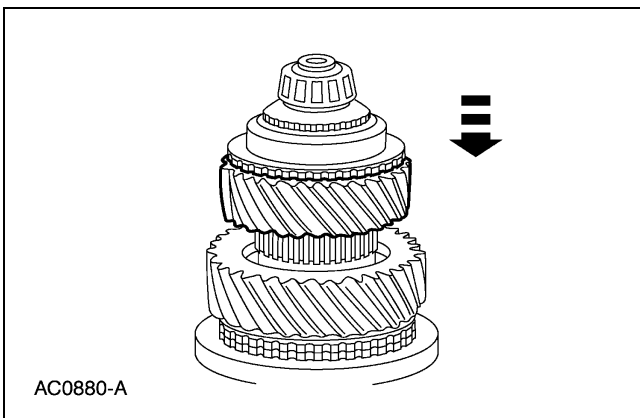
18. Using the special tool and a press, install a new output shaft bearing assembly.



19. Position the fifth driven gear with the chamfer facing the output shaft bearing assembly. Using the special tool and a press, install the fifth driven gear.

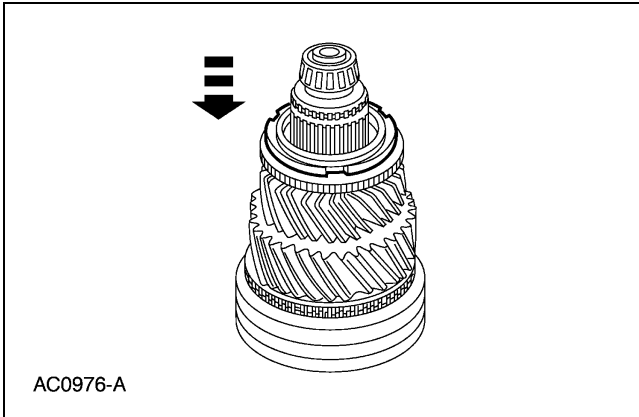


20. Install the needle bearing and the bearing spacer.



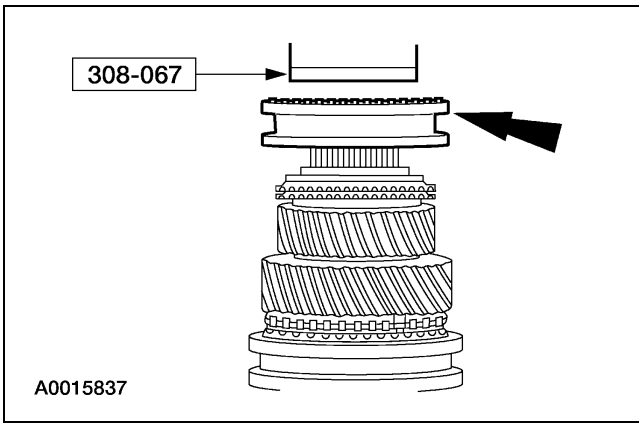
21. Install the third gear.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



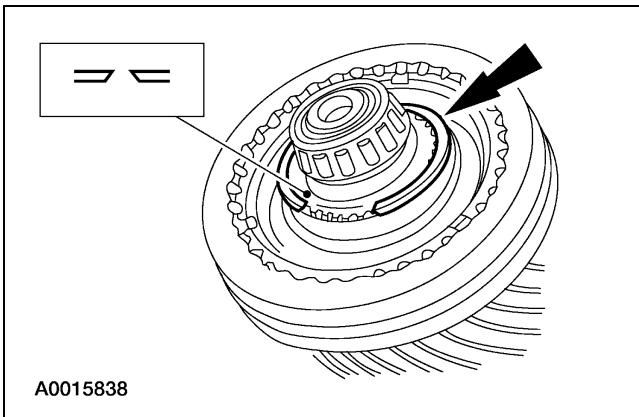
22. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

Install the third speed synchronizer blocking ring.



23. **CAUTION:** To prevent damage during installation, the struts in the synchronizer must index with the pockets in the third speed blocking ring.

Position the third/fourth synchronizer assembly with the groove facing rearward. Using the special tool and a press, install the synchronizer assembly.



24. Install the retaining ring with the gap bevel facing the synchronizer.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Superseded by:SGML_id="none"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

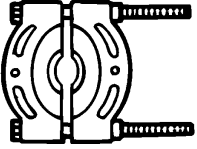
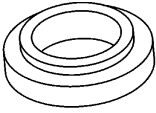
Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"



Countershaft Bearing(id=n165176)

Special Tool(s)

 <p>ST1895-A</p>	<p>Pinion Bearing Cone Remover 205-D002 (D79L-4621-A) or equivalent</p>
 <p>ST2388-A</p>	<p>Pinion Bearing Cone Replacer 205-011 (T57L-4621-B)</p>

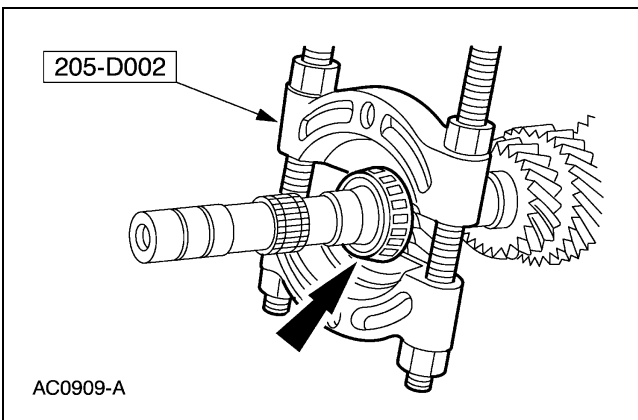
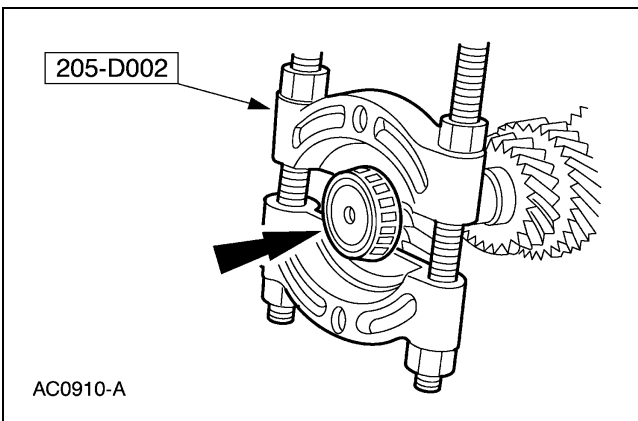
(Continued)

Special Tool(s)

 <p>ST2338-A</p>	<p>Remover/Adapter 308-239 (T96P-7025-A)</p>
 <p>ST1303-A</p>	<p>Remover and Replacer Tube 308-024 (T75L-7025-B)</p>

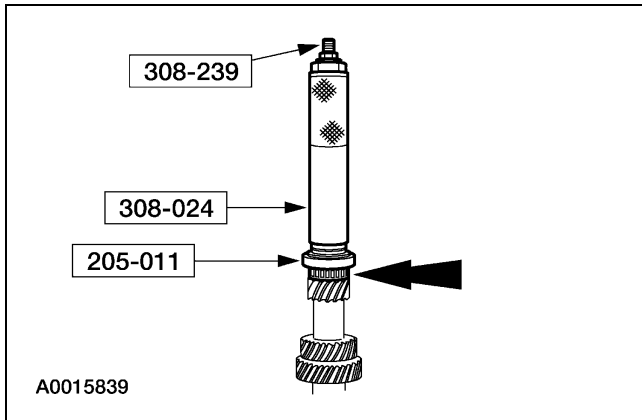
Disassembly

1. Using the special tool and a press, remove the countershaft bearing assembly (7025). Discard the bearing.
2. Using the special tool and a press, remove the countershaft bearing assembly (7025). Discard the bearing.

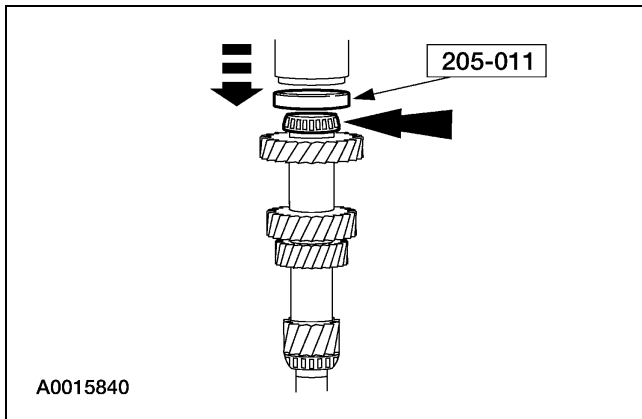


DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Assembly



1. Using the special tools, install the new countershaft bearing assembly.



2. Using the special tool and a press, install the new countershaft bearing assembly.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Superseded by:SGML_id="none"

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

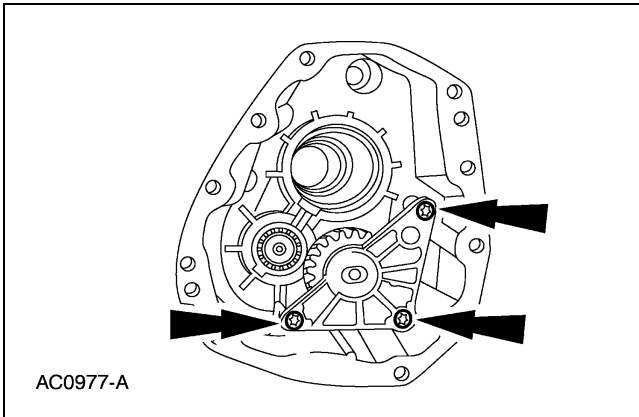
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Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

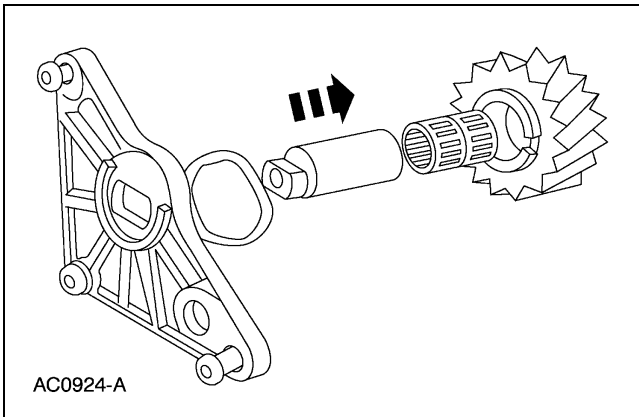
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Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

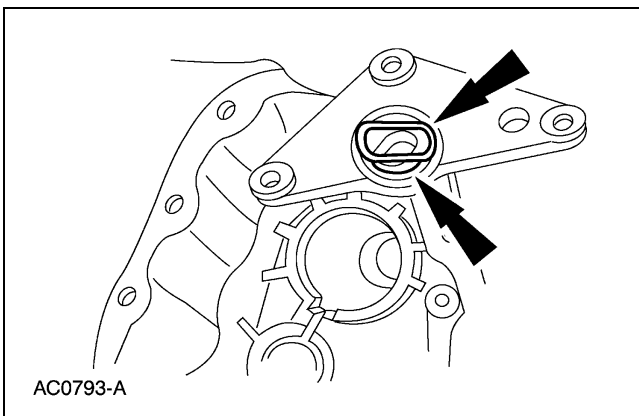
Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Reverse Idler Gear(id=n144513)**Disassembly**

1. Remove the bolts.

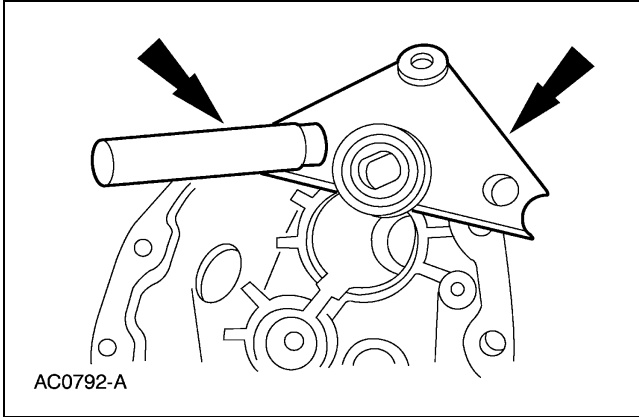


2. Remove the reverse idler shift bracket (7723), the spring washer (7N037), the reverse idler gear (7141), the reverse idler gear bearing (7E139), and the reverse idler shaft (7140).

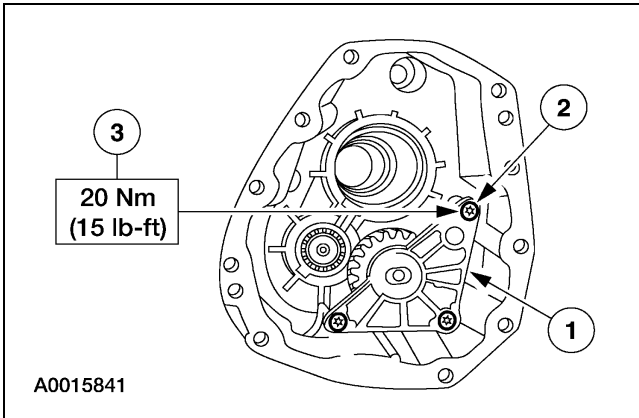
Assembly

1. Apply petroleum jelly to the groove in the reverse idler shift bracket. Install the spring washer in the groove.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



2. Align the flats and install the reverse idler shaft.



3. Install the reverse idler bearing and gear.
4. Install the reverse idler gear assembly.
 - 1 Position the reverse idler gear assembly.
 - 2 Hand-tighten the bolts.
 - 3 Tighten the bolts to specification.

Superseded by:SGML_id="none"

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

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Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

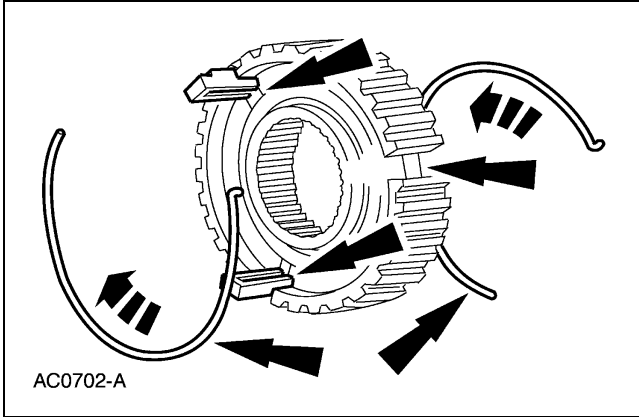
Synchronizers(id=n144514)

Disassembly

NOTE: This procedure applies to all synchronizer assemblies (7124). The synchronizers are slightly different in design. Notation is made where procedural differences occur.

1. On the first/second synchronizer and the third/fourth synchronizer, scribe an alignment mark on the sliding sleeve and the hub for assembly reference.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



2. **NOTE:** Only the synchronizer blocking spring (7109) and the synchronizer struts (7A044) are available separately.

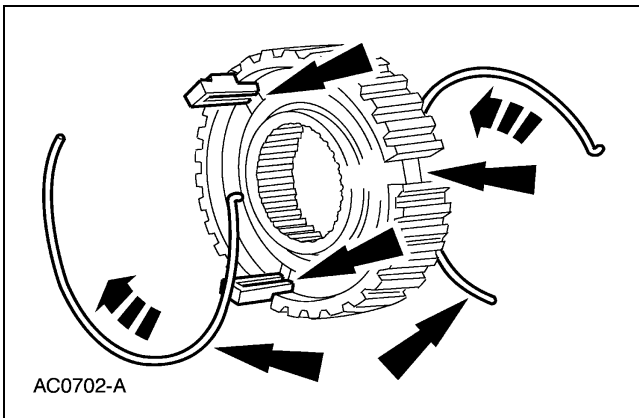
Remove the synchronizer struts and the blocking springs.

3. On the first/second synchronizer and the third/fourth synchronizer, remove the sliding sleeve.

Assembly

1. **NOTE:** Both synchronizer blocking springs engage the same synchronizer strut but rotate in the opposite direction.

Install the synchronizer struts and the blocking springs. Verify that the spring tabs are positioned over the struts.



2. **⚠ CAUTION:** Match the alignment marks made during disassembly. The sleeve and the hub have an extremely close fit. Hold the sleeve and hub square to prevent jamming. Do not force the sleeve onto the hub.

On the first/second synchronizer and the third/fourth synchronizer, install the sliding sleeve.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Superseded by:SGML_id="none"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Gearshift Rail Bushing(id=n165177)

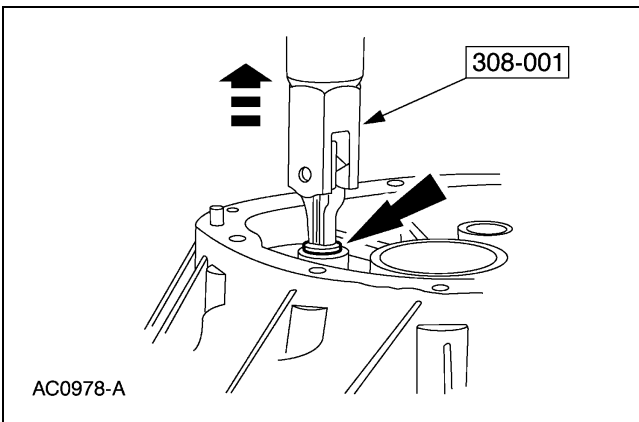
Special Tool(s)

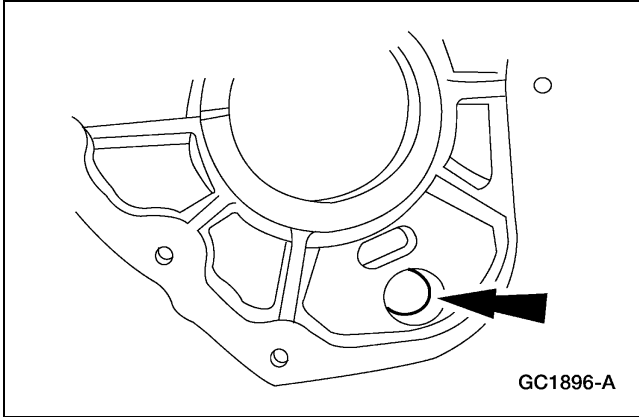
<p>ST1282-A</p>	<p>Puller with Slide Hammer 308-001 (T58L-101-B)</p>
<p>ST1085-B</p>	<p>Shift Rail Bushing Replacer 308-244 (T96P-7025-F)</p>

Disassembly

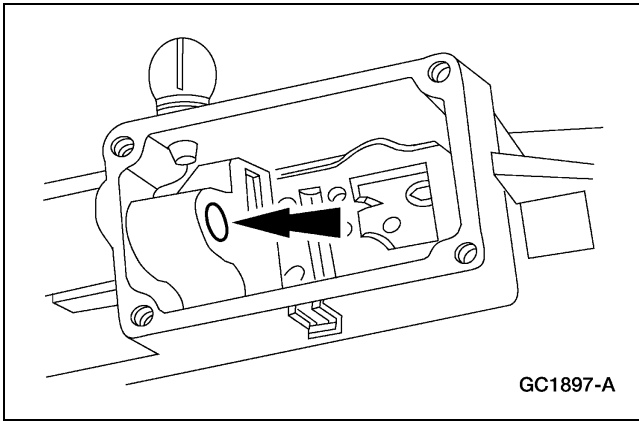
NOTE: Carry out this procedure only after carefully inspecting each bushing. Remove only those bushings requiring further inspection.

1. Using the special tool, remove the main shift rail bushing (7W425) from the flywheel housing (6392).

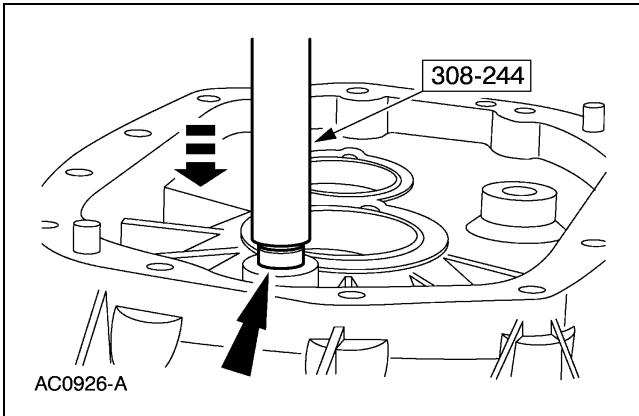


DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

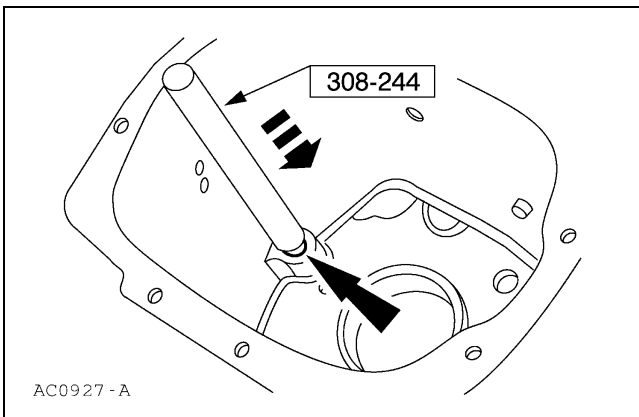
- Using a brass drift, remove the main shift rail bushing from the case (7005).



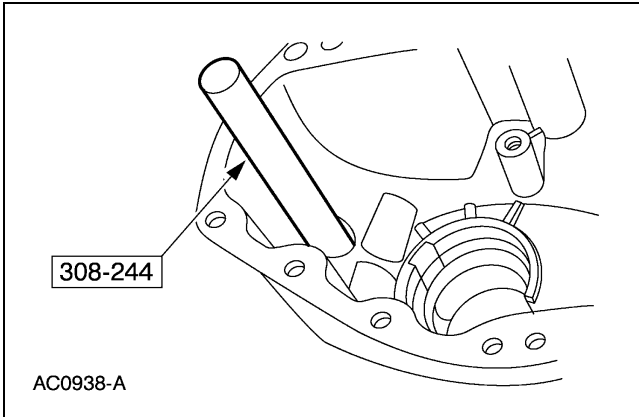
- Using a brass drift, remove the main shift rail bushing from the extension housing (7A039).

Assembly

- Using the special tool, install the main shift rail bushing.
 - Apply Threadlock and Sealer E0AZ-19554-AA or equivalent meeting Ford specification WSK-M2G351-A5 to the outside of the main shift rail bushing.



- Using the special tool, install the main shift rail bushing.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

- Using the special tool, install the main shift rail bushing.

Superseded by:SGML_id="none"

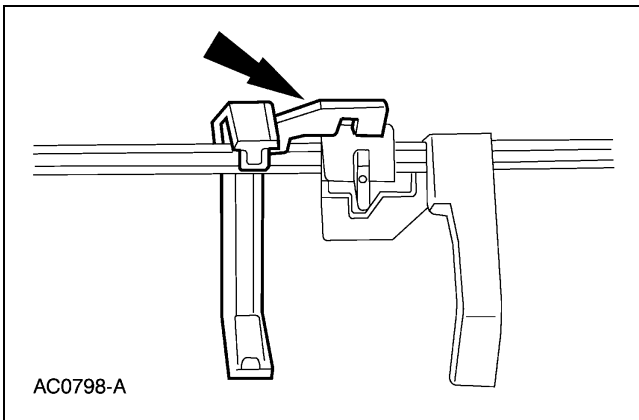
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Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

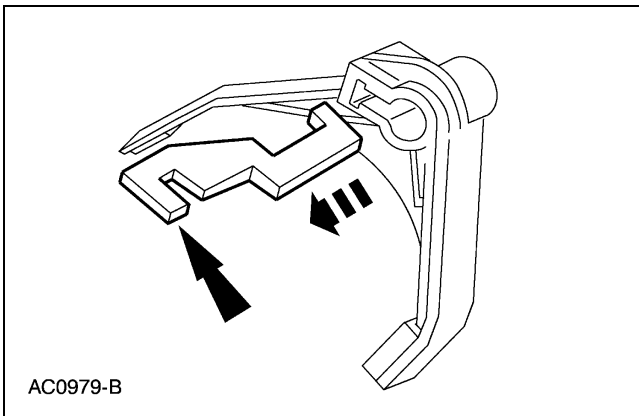
Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

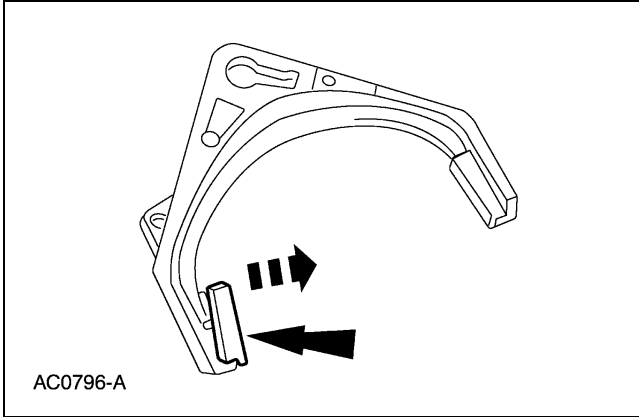
Gearshift Rail and Fork(id=n165185)**Disassembly**

- Rotate the third/fourth gear shifter fork (7230) and slide it off of the main shift rail (7358). Repeat for the first/second gear shifter fork (7230).

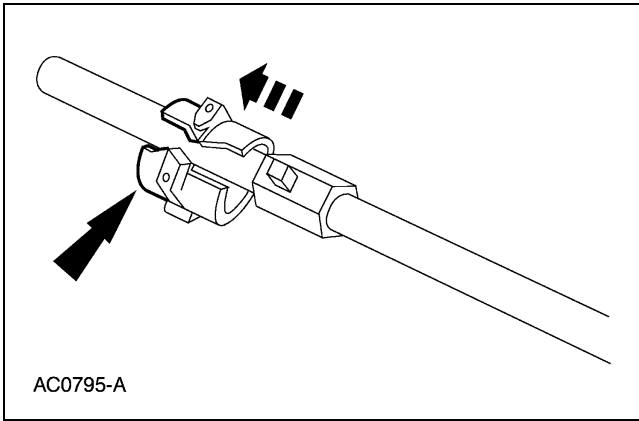


- Remove the gear shift plate (7N232).

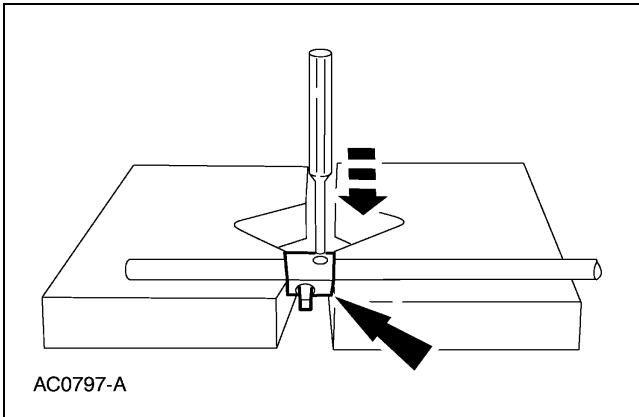
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



3. Remove the gearshift fork inserts (7L082).

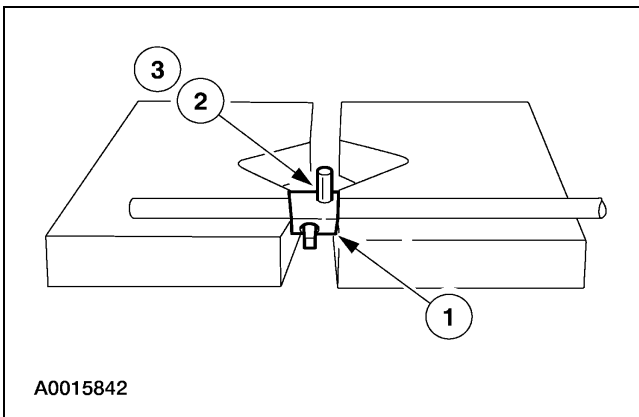



4. Remove the gear selector interlock sleeve (7K201).



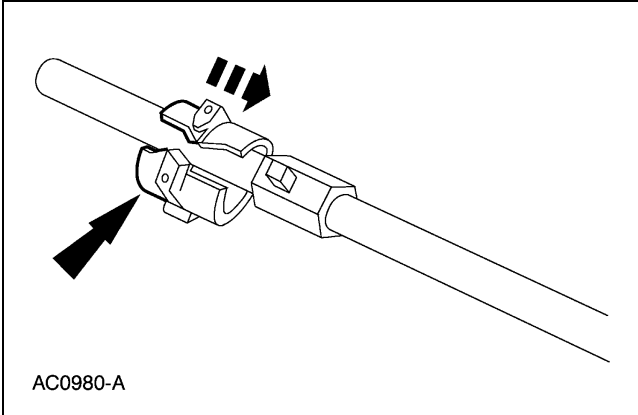
5. Remove the split pin and remove the selector assembly (7302).

Assembly

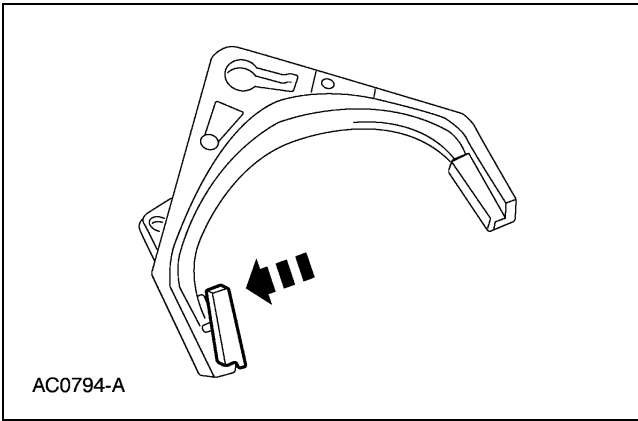


1.  **CAUTION: Support the shift rail to prevent damage to the parts.**
Install the selector body assembly.
 - 1 Position the selector body assembly on the shift rail with the split pin hole toward the long end of the shift rail.
 - 2 Align the split pin hole with the middle hole in the shift rail.
 - 3 Install the split pin.

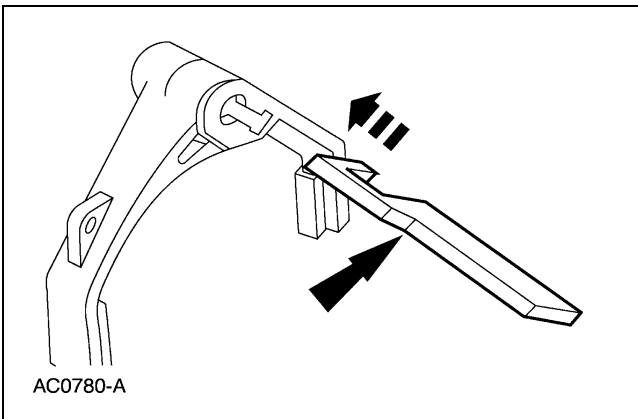
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



2. Install the gear selector interlock sleeve with the double chamfer collar at the top.

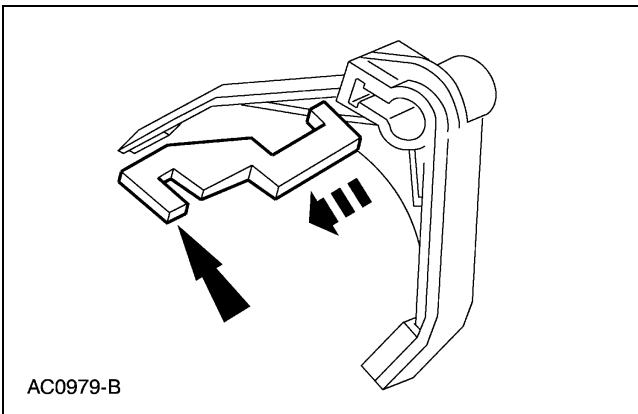


3. Install the gear shift fork inserts.



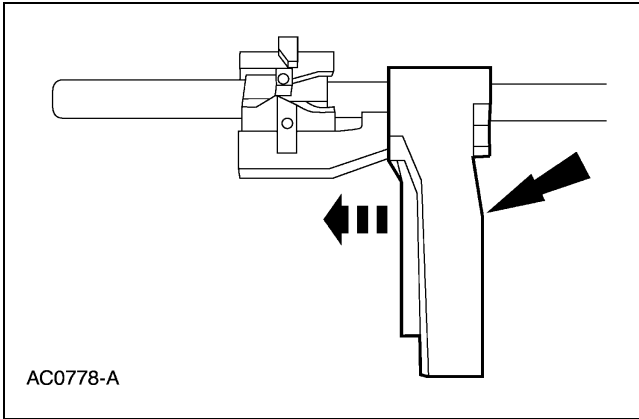
4. **NOTE:** The first/second gear shifter fork is the larger of the two gear shifter forks.

Insert the gear shift plate in the first/second gear shifter fork from the right and with the locating tab facing upward.

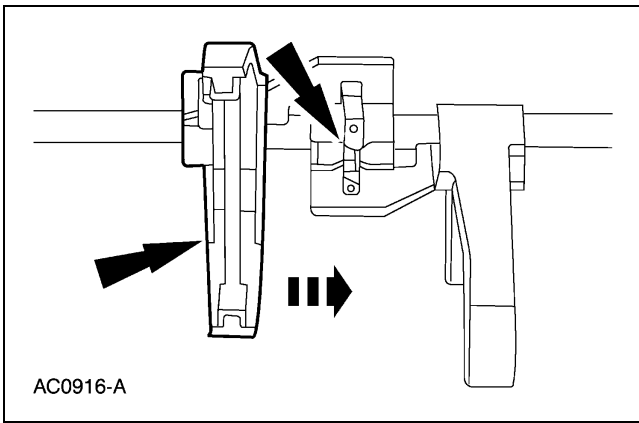


5. Insert the gear shift plate in the third/fourth gear shifter fork from the left and with the ridge facing left.

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



6. Install the first/second gear shifter fork from the long side of the main shift rail. Align the gear selector interlock sleeve with the gear shift plate.



7. **NOTE:** Position the first/second gear shift plate below the third/fourth gear shift plate as viewed with the gear shifter forks facing downward. Install the third/fourth gear shifter fork from the short end of the shift rail. Align the third/fourth gear shift plate with the gear selector interlock sleeve.

Superseded by:SGML_id="n52661 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

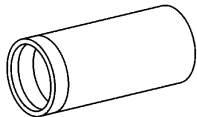
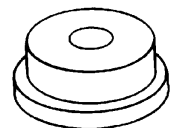
Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

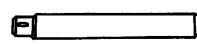
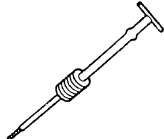
Transmission Case(id=n165186)

Special Tool(s)

 <p>ST2390-A</p>	<p>Bearing Replacer Tube 308-067 (T77L-7025-C)</p>
 <p>ST1555-A</p>	<p>Front Hub Bearing Cup 204-039 (T77F-1217-B)</p>

(Continued)

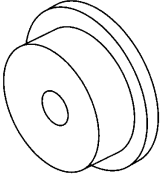
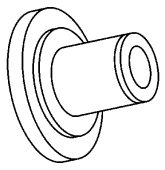
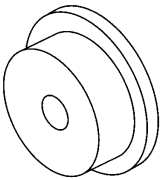
Special Tool(s)

 <p>ST1255-A</p>	<p>Handle 205-153 (T80T-4000-W)</p>
 <p>ST1185-A</p>	<p>Impact Slide Hammer 100-001 (T50T-100-A)</p>

(Continued)

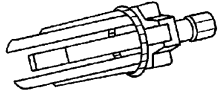
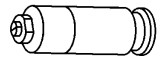
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)

Special Tool(s)

 <p>ST2340-A</p>	<p>Input Shaft Bearing Cup Replacer 308-241 (T96P-7025-C)</p>
 <p>ST2391-A</p>	<p>Input Shaft Seal Replacer 308-220 (T94P-7025-AH)</p>
 <p>ST2340-A</p>	<p>Mainshaft Bearing Cup Replacer 308-240 (T96P-7025-B)</p>

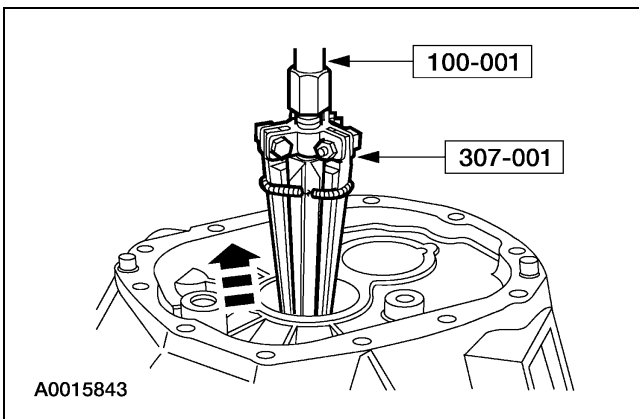
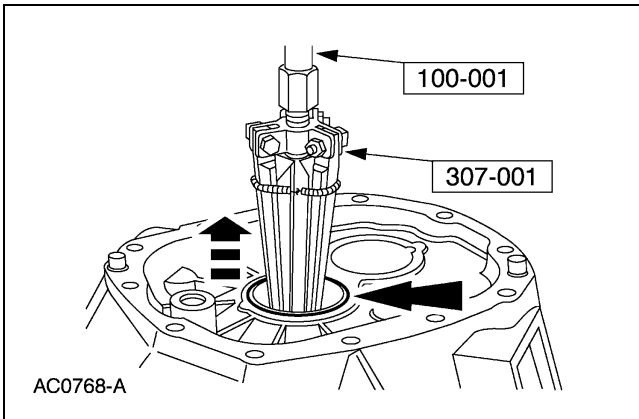
(Continued)

Special Tool(s)

 <p>ST1213-A</p>	<p>Puller 307-001 (TOOL-1175-AC) or Equivalent</p>
 <p>ST2147-A</p>	<p>Remover and Replacer Tube 308-052 (T77J-7025-B)</p>

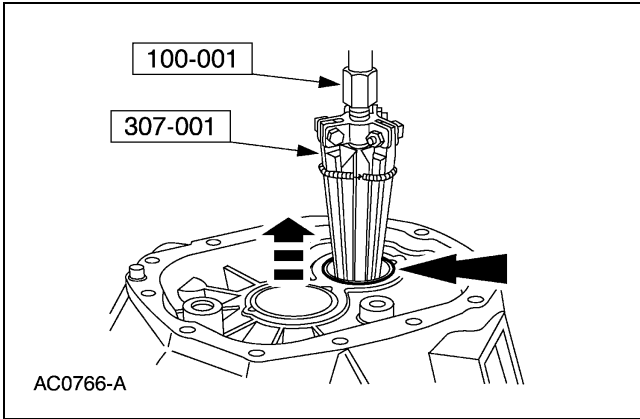
Disassembly

1. Using the special tools, remove the input shaft front bearing assembly cup and the shim (7L172).

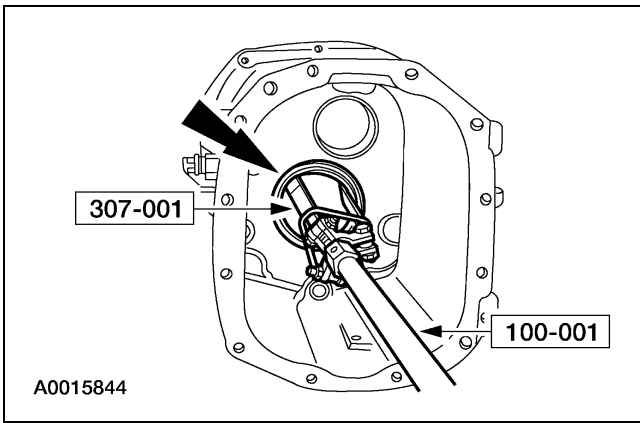


2. Using the special tools, remove the seal (7052).

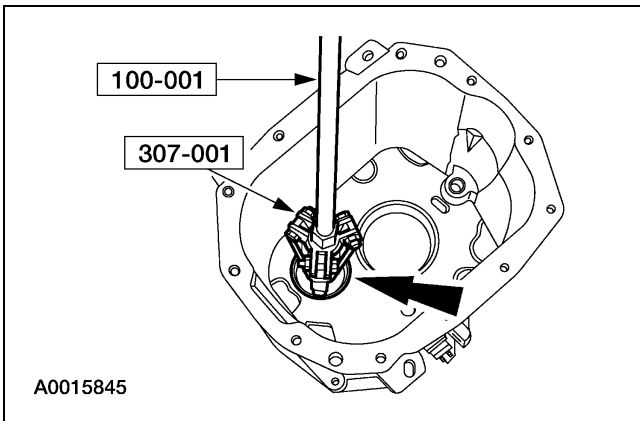
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



- Using the special tools, remove the countershaft bearing assembly cup and the countershaft front bearing shim (7L172).

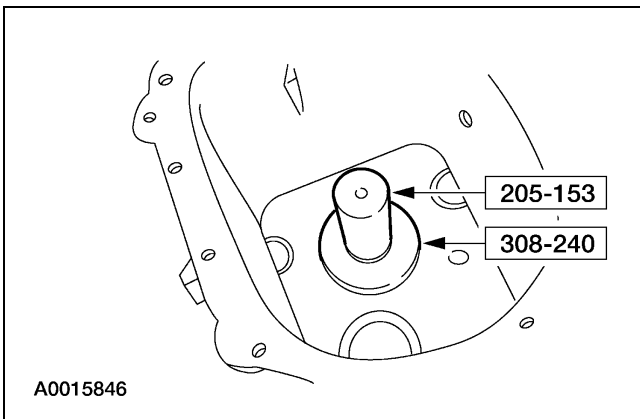


- Using the special tools, remove the rear output shaft bearing assembly cup.



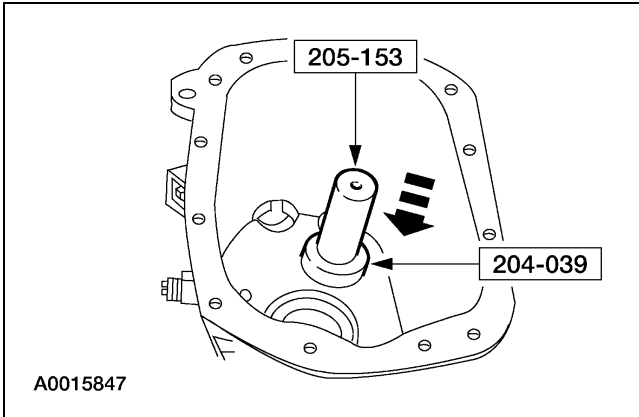
- Using the special tools, remove the countershaft bearing assembly cup.

Assembly

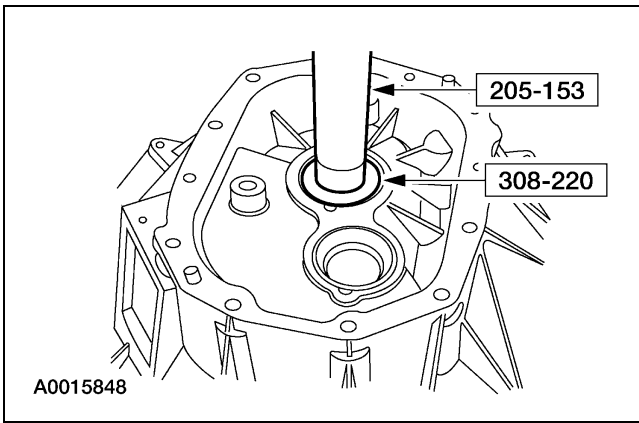


- Using the special tools and a press, install the rear output shaft bearing assembly cup.

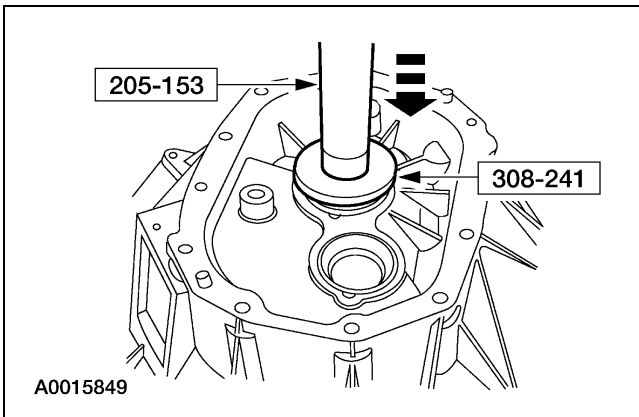
DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES (Continued)



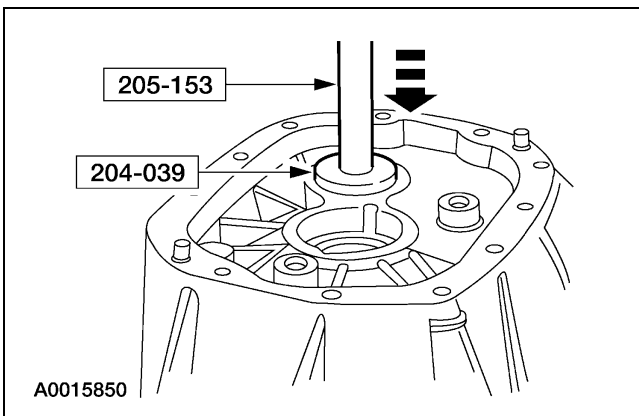
- Using the special tools and a press, install the countershaft bearing assembly cup.



- Using the special tools, install the seal.



- Using the special tools and a press, install the shim and the input shaft front bearing assembly cup.



- Using the special tools and a press, install the countershaft front bearing shim and the countershaft bearing assembly cup.

ASSEMBLY

Superseded by:SGML_id="n51722 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"


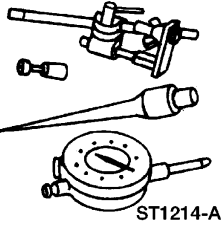
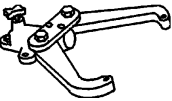
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Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"


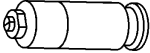

Transmission(id=n144519)

Special Tool(s)

 <p>ST2392-A</p>	<p>Bearing Cone Replacer 308-169 (T88T-7025-B)</p>
 <p>ST1214-A</p>	<p>Dial Indicator with Bracketry 100-002 (TOOL-4201-C) or equivalent</p>
 <p>ST1186-A</p>	<p>Holding Fixture 307-003 (T57L-500-B)</p>

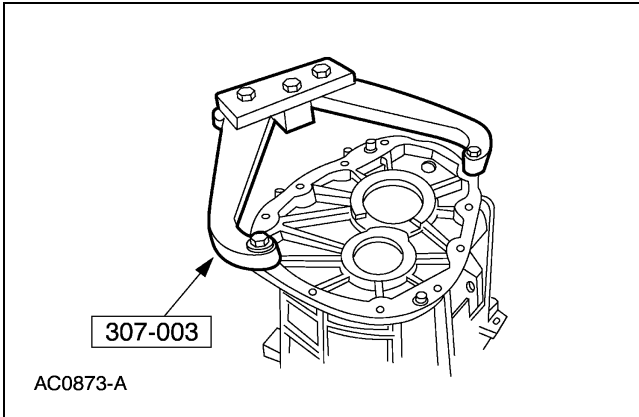
(Continued)

Special Tool(s)

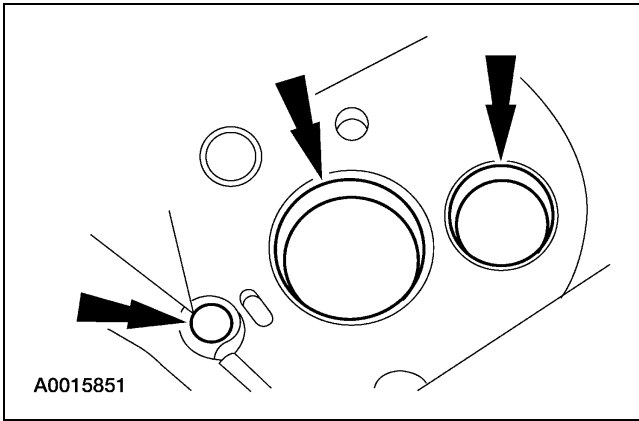
 <p>ST1303-A</p>	<p>Remover and Replacer Tube 308-024 (T75L-7025-B)</p>
 <p>ST2147-A</p>	<p>Remover Tube 308-052 (T77J-7025-B)</p>
 <p>ST2338-A</p>	<p>Replacer/Adapter 308-239 (T96P-7025-A)</p>

1. Soak the blocking rings (7107) in transmission fluid for ten minutes.
 - Use MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent.

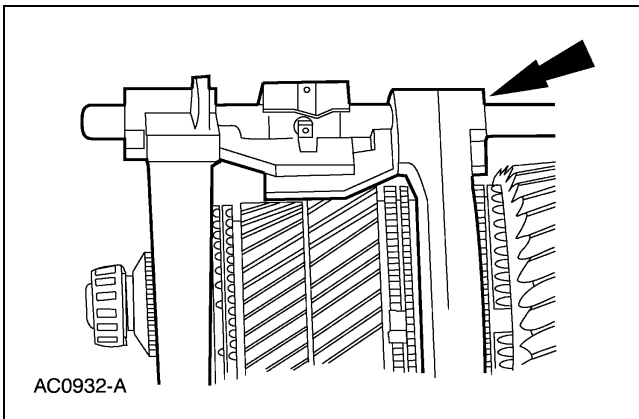
ASSEMBLY (Continued)



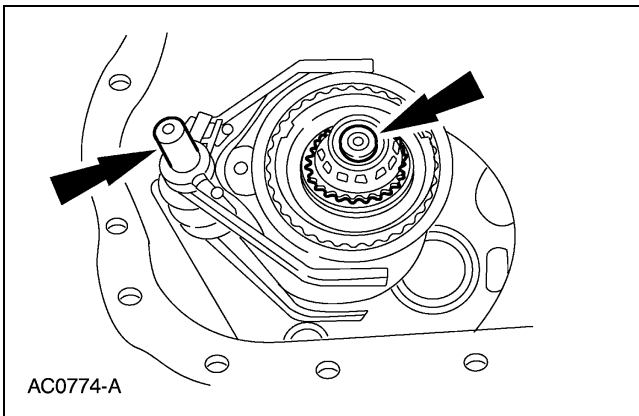
2. Attach the case (7005) to the special tool.



3. Lubricate the bearing cups and the main shift rail bushing (7W425) with petroleum jelly.



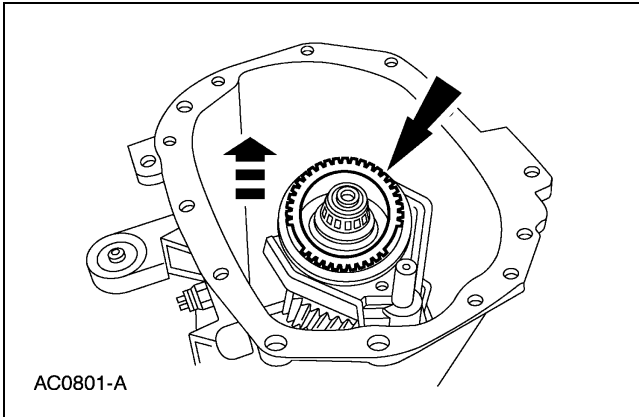
4. Install the main shift rail assembly onto the output shaft (7061).



5. **⚠ CAUTION:** To prevent component damage, do not lift the output shaft assembly by lifting up on the third/fourth synchronizer assembly (7124).

Position the assembly in the case.

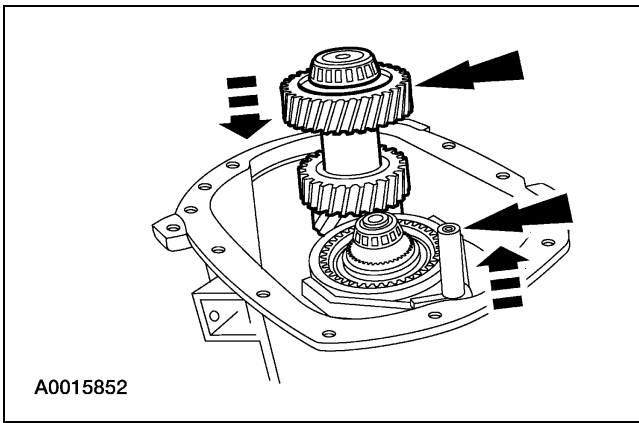
ASSEMBLY (Continued)



6. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

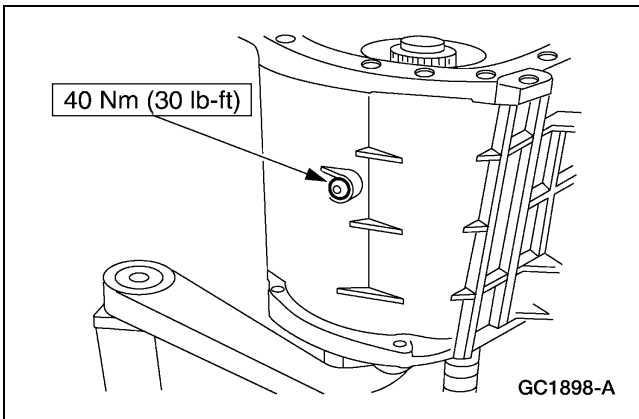
Install the fourth speed blocking ring.

- Align the pockets in the blocking ring with the struts in the synchronizer assembly.



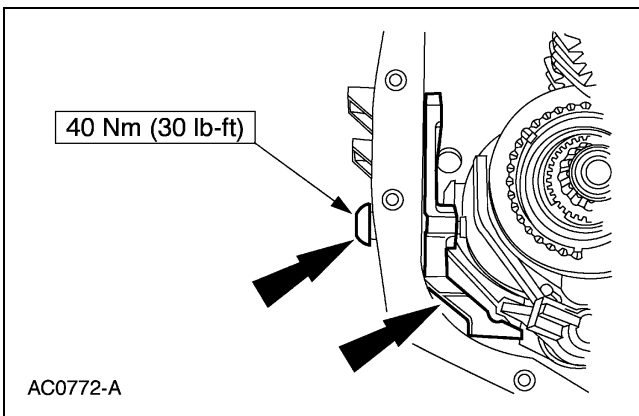
7. **CAUTION:** To prevent component damage, do not raise the output shaft assembly by lifting up on the third/fourth synchronizer assembly.

Push the output shaft assembly upward approximately 25 mm (1 in) and install the countershaft cluster gear (7113).



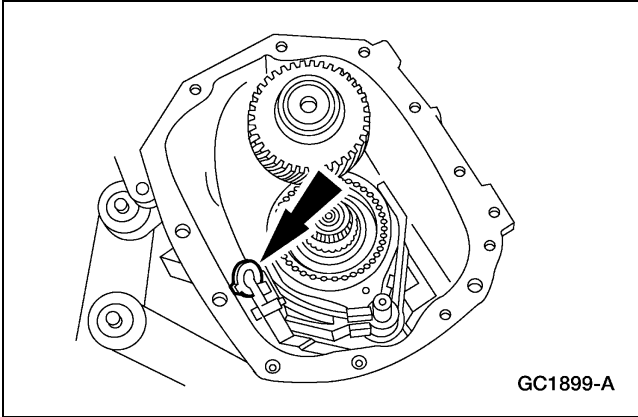
8. Apply sealant to the interlock bolt threads and install the bolt.

- Use Pipe Sealant with Teflon® D8AZ-19544-A or equivalent meeting Ford specification ESR-M18P7-A.

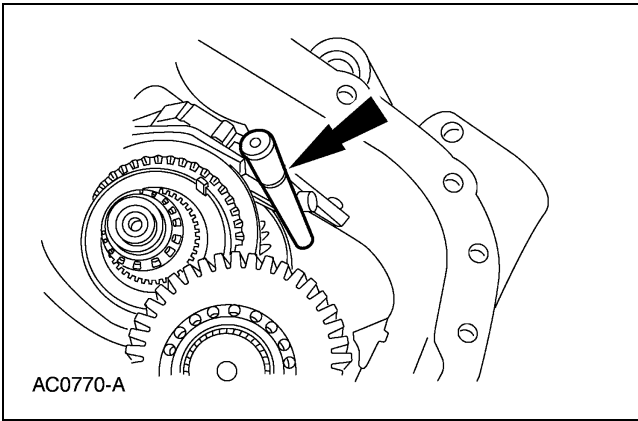


9. Install the fifth/reverse gear shift lever (7K002) and the fifth/reverse lever pivot bolt (7K024).

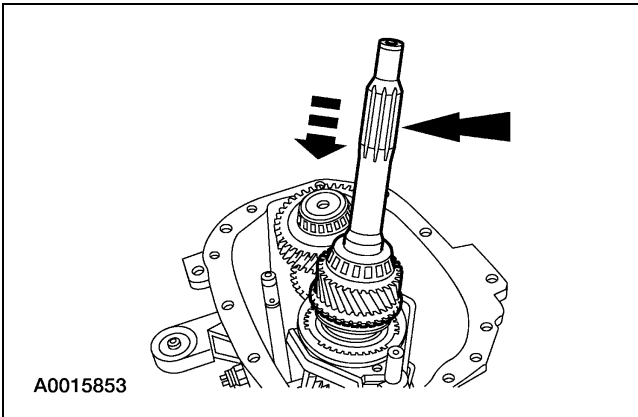
- Install a new pivot bolt or apply Pipe Sealant with Teflon® D8AZ-19554-A or equivalent meeting Ford specification ESR-M18P7-A to the existing bolt threads.

ASSEMBLY (Continued)

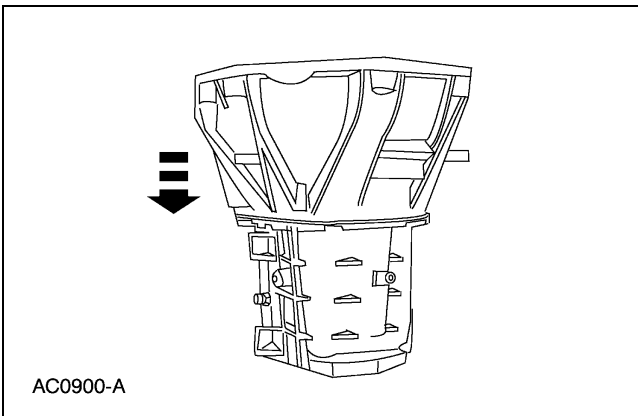
10. Install the fifth/reverse lever retaining clip (7348).



11. Install the fifth/reverse gear shift rail (7242).
 - Rotate the shift rail to insert the shift rail pin in the track in the fifth/reverse gear shift lever.

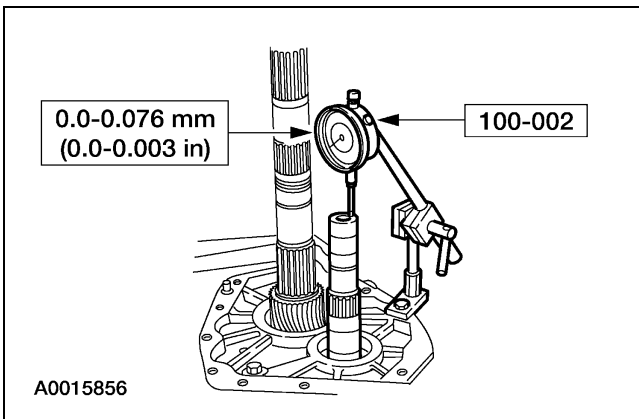
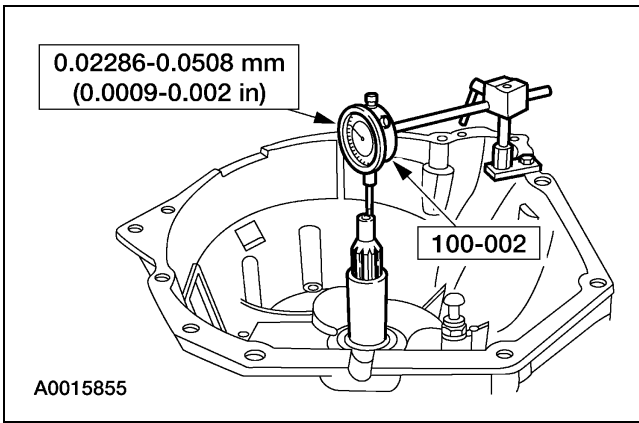
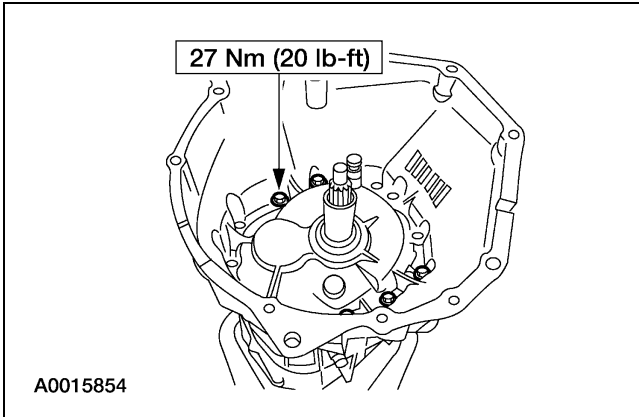


12. Install the input shaft (7017).
 - Lubricate the input shaft front bearing (7025) and the input shaft pocket bearing (7025) with petroleum jelly.



13. Align the shift rails and install the flywheel housing (6392).
 - Lubricate the bearing cups with petroleum jelly.

ASSEMBLY (Continued)

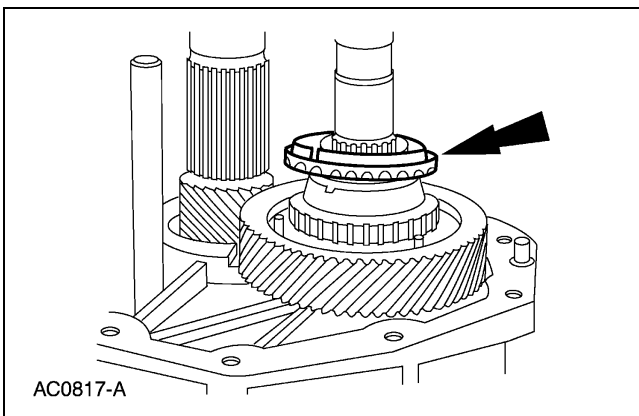
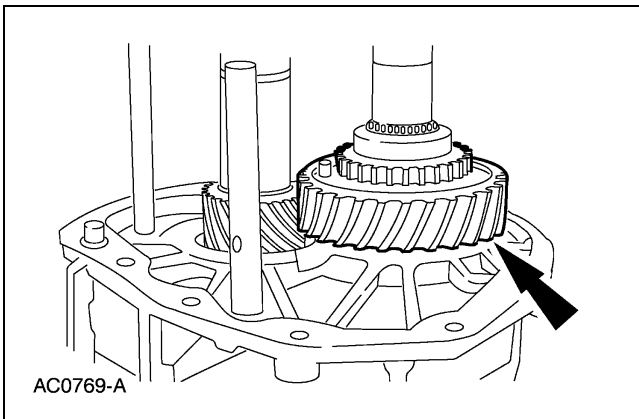
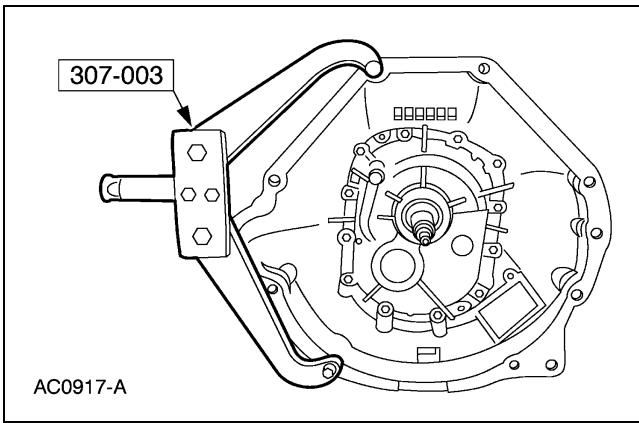
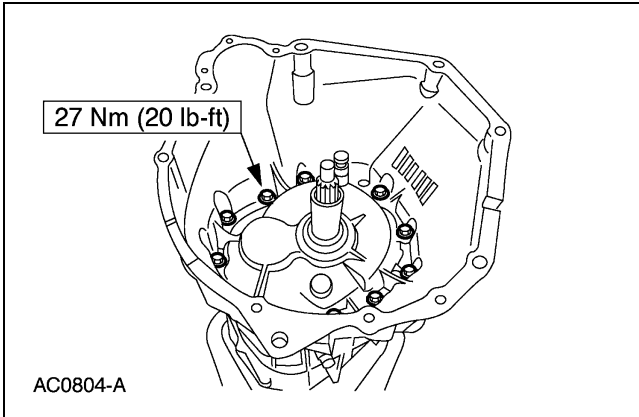


14. Install four opposing bolts.
 - Verify that the input shaft turns freely.

15. Using the special tool, measure the input shaft end play by applying an upward load on the output shaft.
 - If the end play is not within the specification, install a different thickness shim behind the input shaft front bearing assembly cup. For additional information, refer to [Transmission Case Idref=s9p8715q0](#) in this section.

16. Turn the case so that the input shaft is facing downward.
 - Verify that the countershaft cluster gear turns freely.

17. Using the special tool, measure the countershaft cluster gear end play by applying an upward load on the countershaft cluster gear.
 - If the end play is not within the specification, install a different thickness shim behind the front countershaft bearing assembly cup. For additional information, refer to [Transmission Case Idref=s9p8715q0](#) in this section.

ASSEMBLY (Continued)

18. Apply a 3.2-mm (1/8-inch) bead of silicone rubber to the sealing surface on the flywheel housing and install the flywheel housing. Tighten the bolts in a star pattern.

- Use Clear Silicone Rubber D6AZ-19562-AA or equivalent meeting Ford specification ESB-M4G92-A.

19. Attach the special tool to the flywheel housing. Position the transmission so that the input shaft is facing downward.

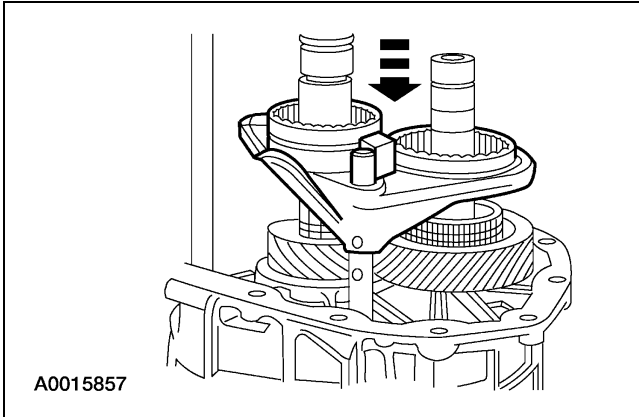
20. Install the fifth gear (7144) with the synchronizer cone facing the rear of the countershaft cluster gear.

21. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

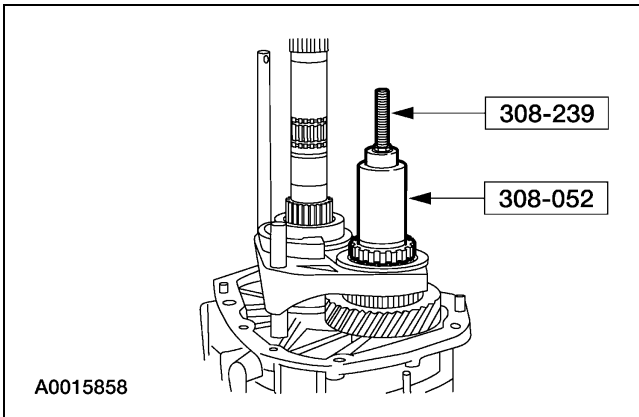
Install the fifth speed blocking ring.

ASSEMBLY (Continued)

22. Position the fifth/reverse synchronizer sleeve and the reverse synchronizer sleeve into the fifth/reverse gear shifter fork (7230).



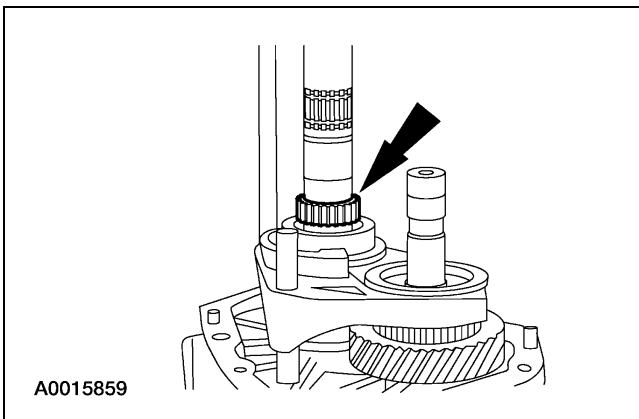
23. **NOTE:** Align the fifth/reverse synchronizer struts with the X on the synchronizer sleeve. Simultaneously slide the reverse synchronizer sleeve, the fifth/reverse gear shifter fork, and the fifth/reverse synchronizer sleeves onto the fifth/reverse gear shift rail, the output shaft, and the countershaft.



24. **NOTE:** The fifth/reverse synchronizer hub is reversible.

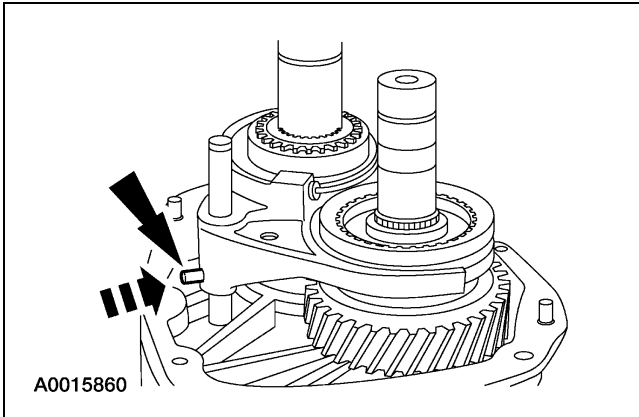
NOTE: Verify that the synchronizer struts are indexed with the pockets in the fifth speed blocking ring.

Using the special tools, install the fifth/reverse synchronizer hub.

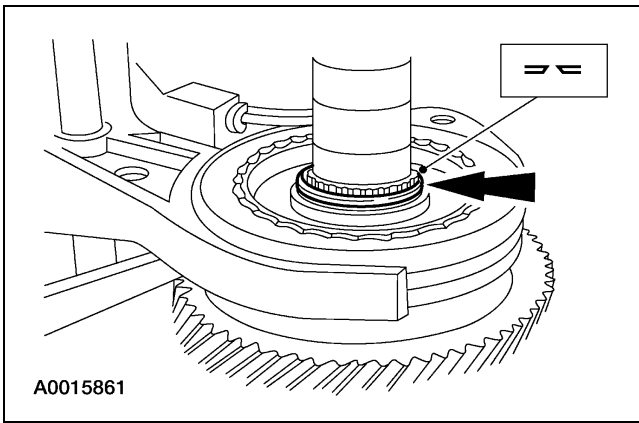


25. Install the reverse synchronizer hub with the hub splines facing the rear of the output shaft.

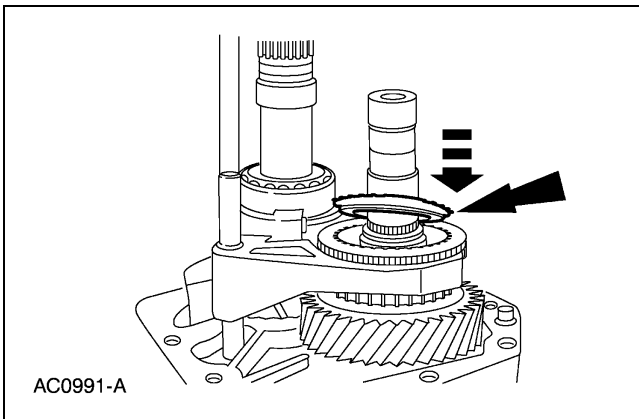
ASSEMBLY (Continued)



26. Align the fifth/reverse gear shifter fork and install the split pin.



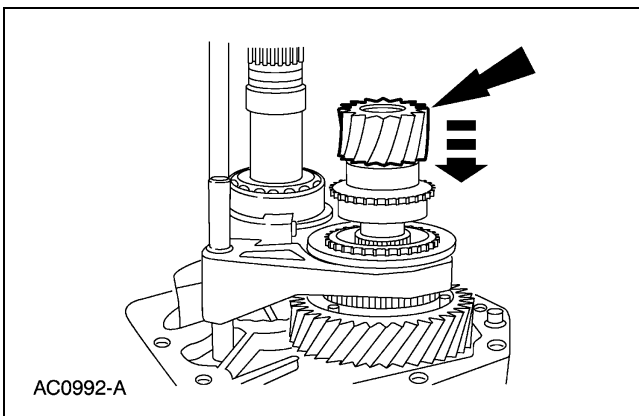
27. Install the retaining ring with the gap end bevel facing downward.



28. **NOTE:** If not done so previously, soak the blocking ring in MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX or equivalent for ten minutes.

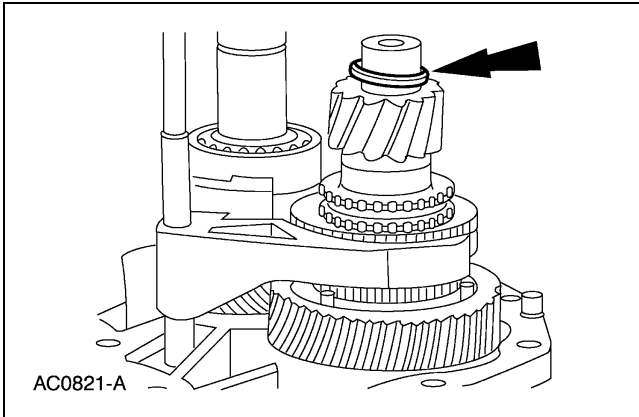
Install the reverse speed blocking ring.

- Align the pockets in the blocking ring with the struts in the synchronizer.

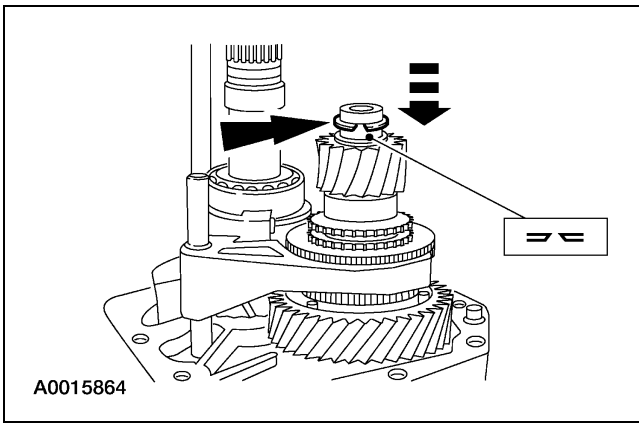


29. Install the reverse gear (7142).

ASSEMBLY (Continued)

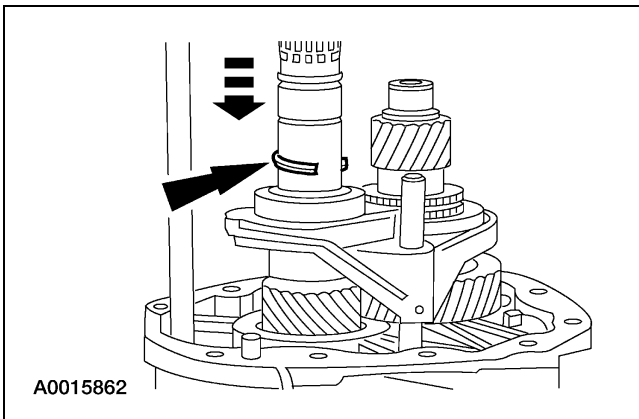


30. Install the thrust washer (7E254).

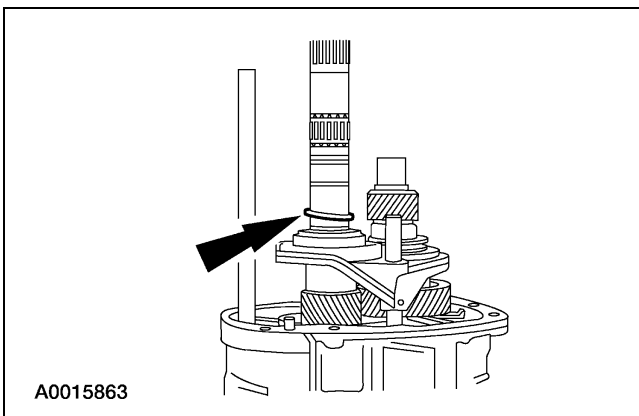


31. **NOTE:** Reverse gear end play of approximately 3.175 mm (0.12 in) is normal.

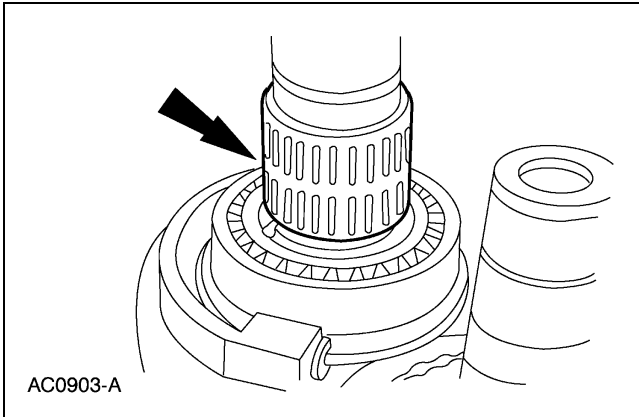
Install the retaining ring with the gap bevel facing downward.



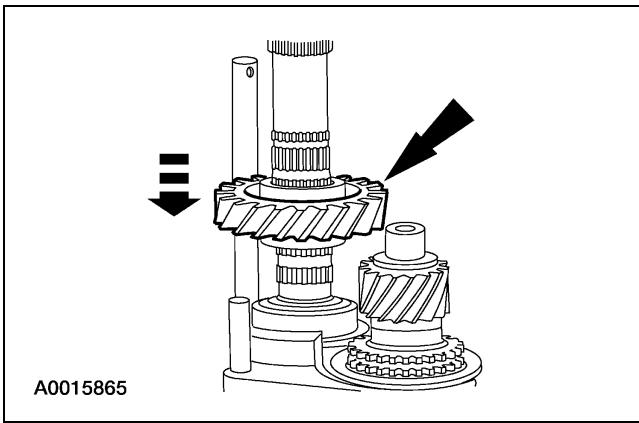
32. Install the retaining ring.



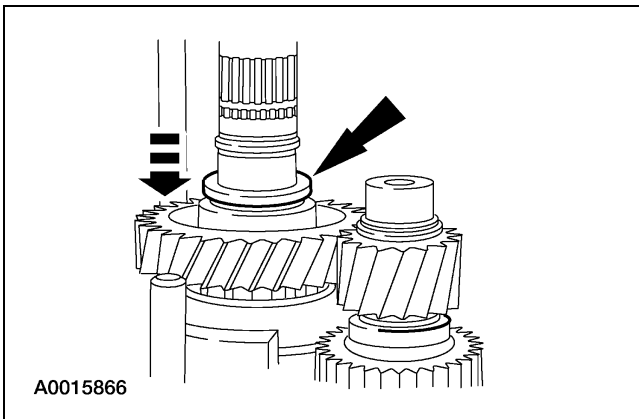
33. Install the bearing spacer (7C240).

ASSEMBLY (Continued)

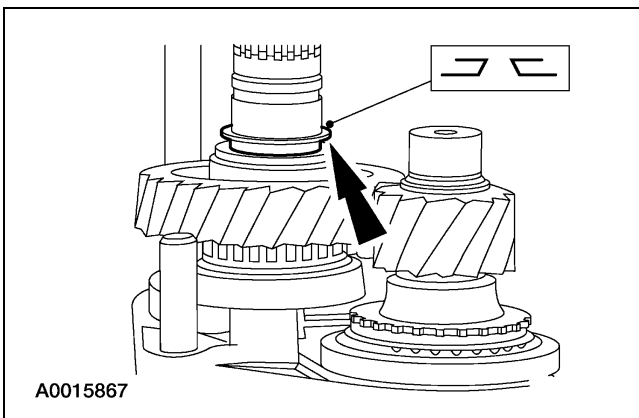
34. lubricate the needle bearing (7N168) with petroleum jelly and install the bearing.



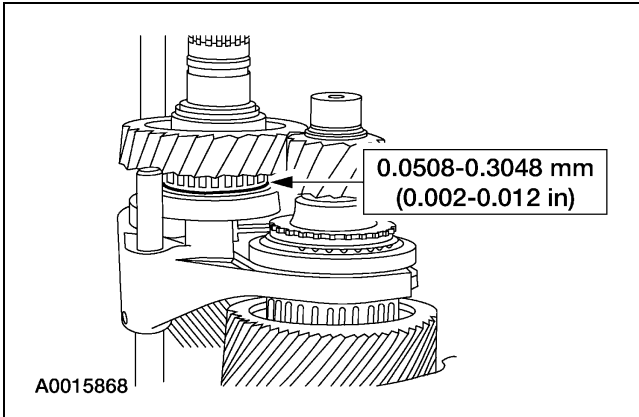
35. Install the reverse driven gear (7C238) with the clutching teeth facing the synchronizer.



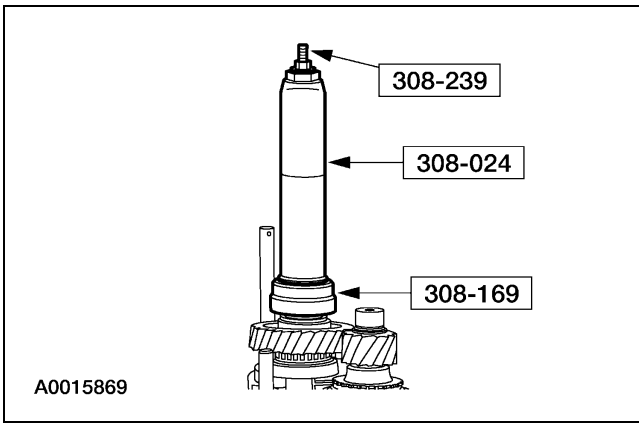
36. Install the thrust washer (7738).



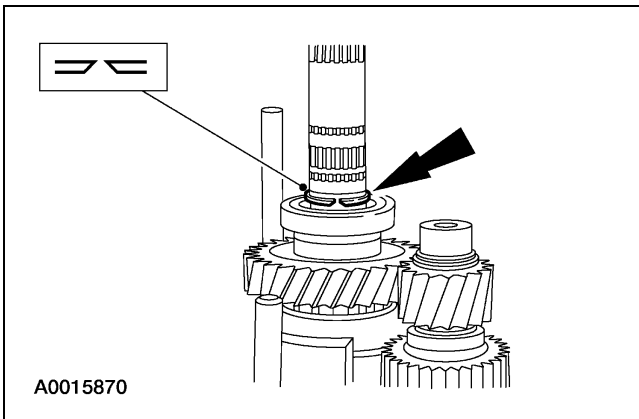
37. Install the retaining ring with the gap bevel facing downward.

ASSEMBLY (Continued)

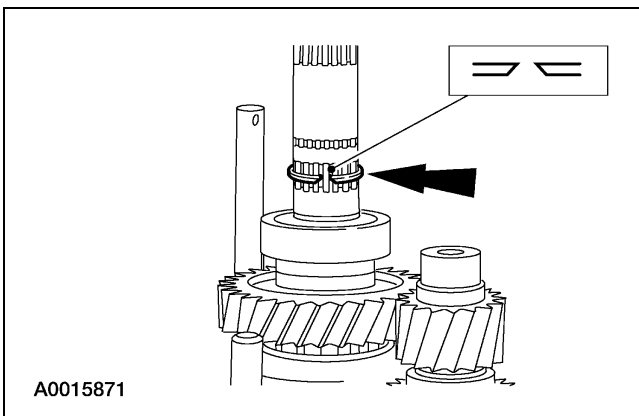
38. Measure the clearance between the reverse driven gear and the reverse synchronizer hub.
- Pull the reverse driven gear toward the rear of the shaft until it bottoms on the spacer and retaining ring.
 - If the clearance is not within the specification, install a new bearing spacer.



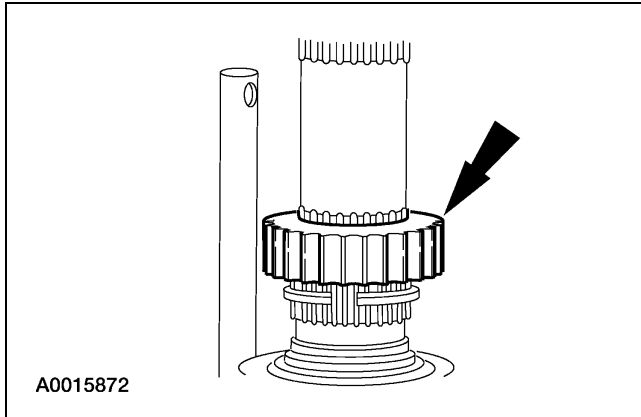
39. Using the special tools, install the new output shaft rear bearing (7025).



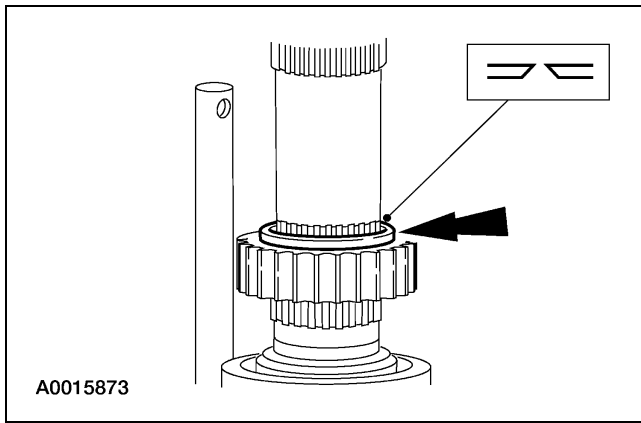
40. Install the retaining ring with the gap bevel facing downward.



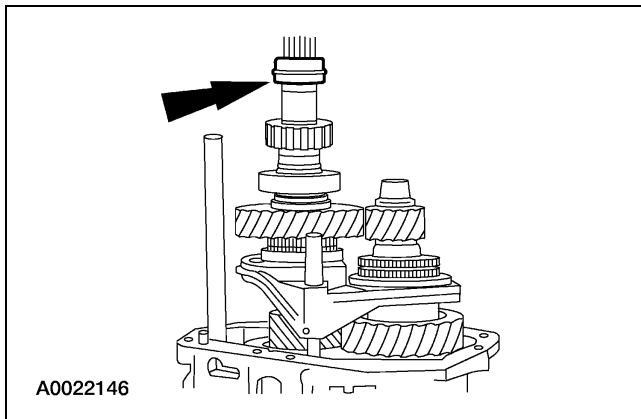
41. Install the retaining ring with the gap bevel facing downward.

ASSEMBLY (Continued)

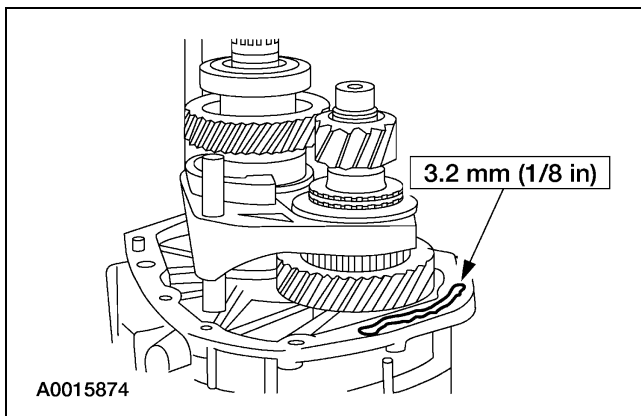
42. Install the tone wheel (7H150) with the chamfer facing downward.



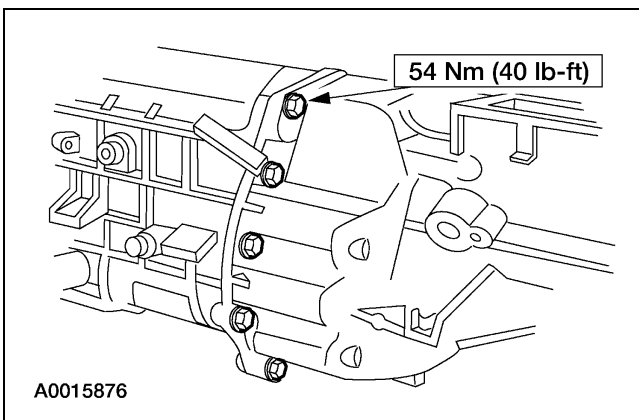
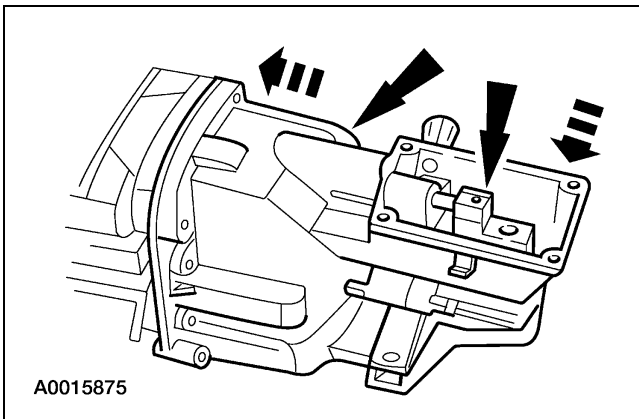
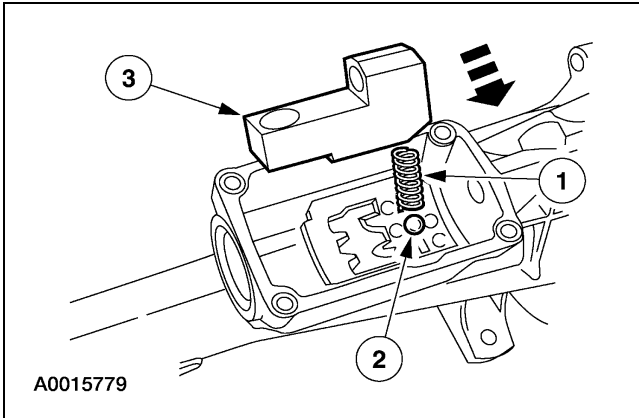
43. Install the retaining ring with the gap bevel facing downward.



44. Lubricate the full fill seal with petroleum jelly and install it with the chamfer facing forward. Position the seal approximately 25 mm (1 inch) from the rear of the output shaft.

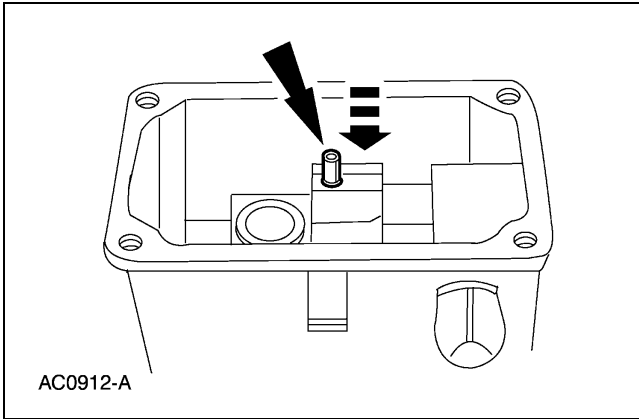


45. Apply a 3.2-mm (1/8-inch) bead of silicone rubber to the sealing surface on the case.
- Use Clear Silicone Rubber D6AZ-19562-AA or equivalent meeting Ford specifications ESB-M4G92-A.

ASSEMBLY (Continued)

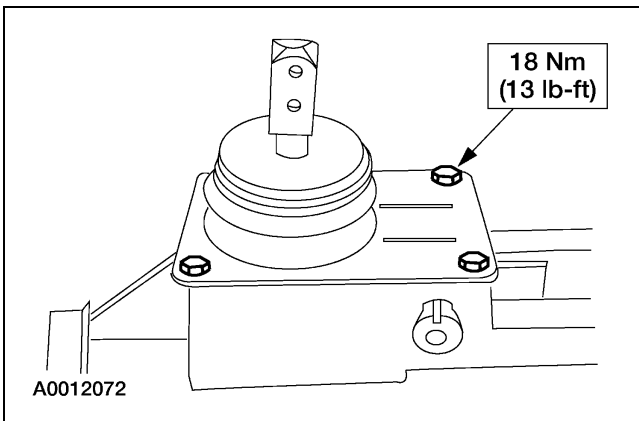
46. Rotate the transmission to the horizontal position.
47. Position the gearshift offset lever (7F018) in the extension housing (7A039).
 - 1 Coat the detent spring (7234) with petroleum jelly and install it into the gearshift offset lever.
 - 2 Lubricate the detent plate and install the detent ball (7E172) into the neutral position on the plate.
 - 3 Position the gearshift offset lever in the extension housing with the detent spring over the detent ball.
48. Slide the gearshift offset lever and the extension housing into place as an assembly. Press downward on the gearshift offset lever to compress the detent spring and push the gearshift offset lever and extension housing into place.
49. Install the identification tag and the bolts.

ASSEMBLY (Continued)

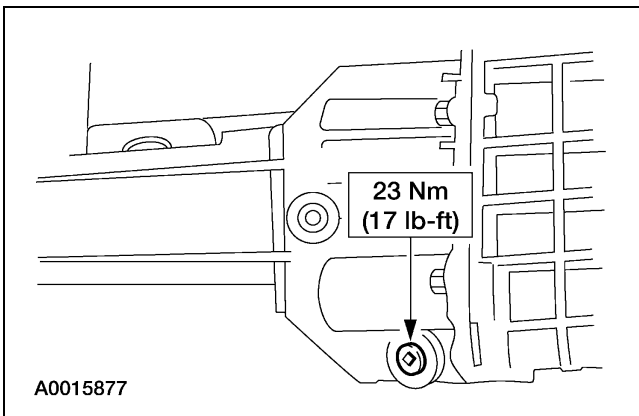


50. Align the gearshift offset lever pin hole and the main shift rail pin hole and install the split pin.

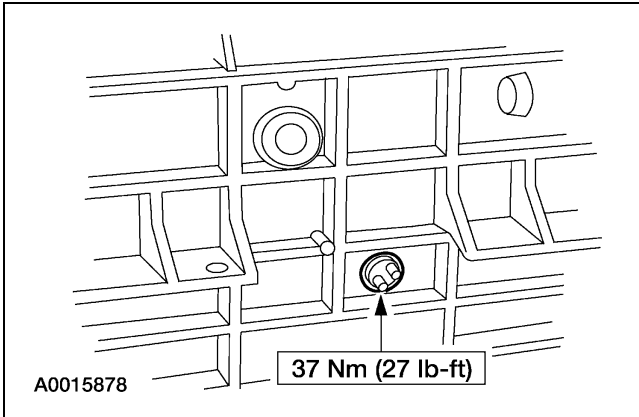
51. Apply a 3.2-mm (1/8-inch) bead of silicone rubber to the sealing surface on the gearshift lever (7210).
- Use Clear Silicone Rubber D6AZ-19562-AA or equivalent meeting Ford specifications ESB-M4G92-A.



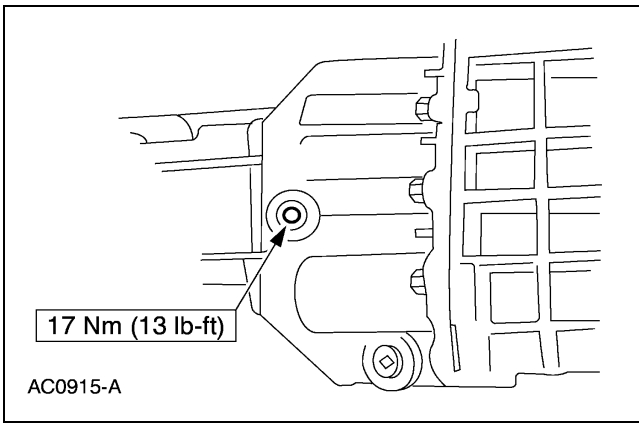
52. Align the shifter ball and the gearshift offset lever socket and install the gearshift lever.



53. Apply sealant to the case plug threads and install the plug (7A010).
- Use Pipe Sealant with Teflon® D8AZ-19554-A or equivalent meeting Ford specification ESR-M18P7-A.

ASSEMBLY (Continued)

54. Apply sealant to the reversing lamp switch threads and install the switch (15520).
- Use Pipe Sealant with Teflon® D8AZ-19554-A or equivalent meeting Ford specification ESR-M18P7-A.



55. Install the fill plug.

56. **NOTE:** Before installing the transmission, the ball stud, clutch release lever and the input shaft must be cleaned and lubricated. Use Motorcraft Premium Long-Life Grease XG-1-C or XG-1-K or equivalent meeting Ford specification ESA-M1C75-B.

Install the clutch release hub and bearing and the clutch release lever. For additional information, refer to [Section 308-01](#).

INSTALLATION

Superseded by:SGML_id="n51783 "

Effect:Frozen: "N" "1999" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "1999" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2000" "SUPPFOJMUST" "08" "03B"

Effect:Frozen: "N" "2001" "FOJMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2001" "MUSTANG" "08" "03C"

Effect:Frozen: "N" "2002" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2002" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOCMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "FOMMUSTANG" "08" "03B"

Effect:Frozen: "N" "2003" "MUSTANG" "08" "03B"

Effect:Frozen: "N" "2004" "MUSTANG" "08" "03B"

Transmission(id=n144520)

Materials

Item	Specification
Motorcraft MERCON® Multi-Purpose (ATF) Transmission Fluid XT-2-QDX	MERCON
Pipe Sealant with Teflon® D8AZ-19554-A or equivalent	WSK-M2G350-A2
Premium Long Life Grease XG-1-C, K or T or equivalent	ESA-M1C75-B

- NOTE:** Before installing the transmission, the ball stud, clutch release lever and the input shaft must be cleaned and lubricated. Use Motorcraft Premium Long-Life Grease XG-1-C or XG-1-K or equivalent meeting Ford specification ESA-M1C75-B.

To install, reverse the removal procedure. For additional information, refer to [Transmission Idref=s7p282q0](#) in this section.

- Check, and as necessary, fill the transmission with transmission fluid. The total fill capacity is 3.6L (7.5 pt).
- Apply sealant to the fill plug threads and install the fill plug.
 - Use pipe sealant with Teflon®.

Job Completion Statistics

There was an error in this job. Please check your Pager log file (.plg). Be sure to check the error message(s) below for any errors caused by markup or tagging. If you are unable to correct the errors, please contact your support staff. Keep this sheet along with the rest of the output so that we can determine the cause of this problem. Thank you.

Datalogics, Inc.

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