

DISASSEMBLY AND ASSEMBLY OF SUBASSEMBLIES

FORWARD/OVERDRIVE CLUTCH ASSEMBLY - DISASSEMBLY

Material

MATERIAL SPECIFICATION

Item	Specification
MERCON® SP Automatic Transmission Fluid XT-6-QSP	MERCON® SP

Disassembly & Assembly

1. Remove the direct clutch outer shell retaining ring.

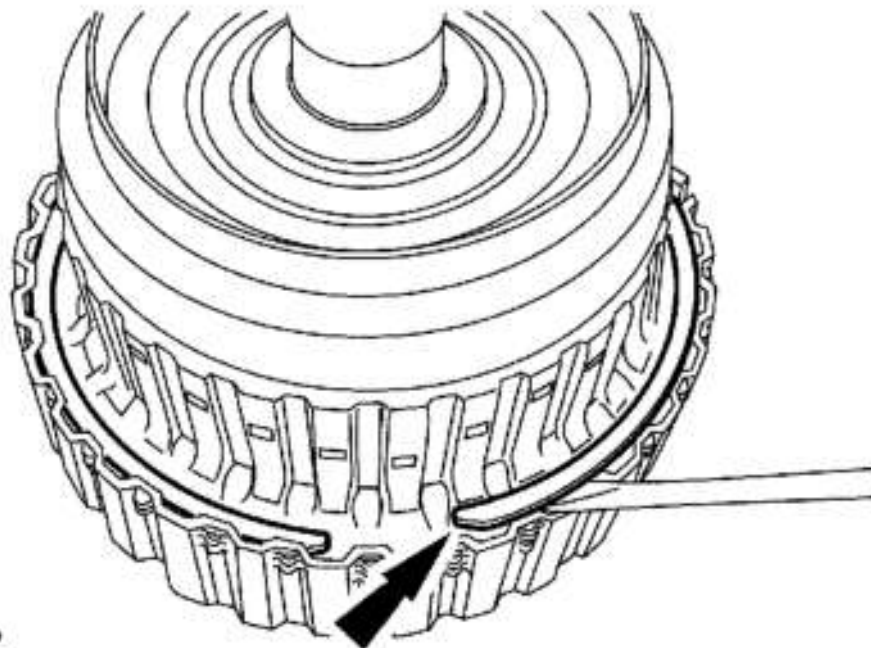
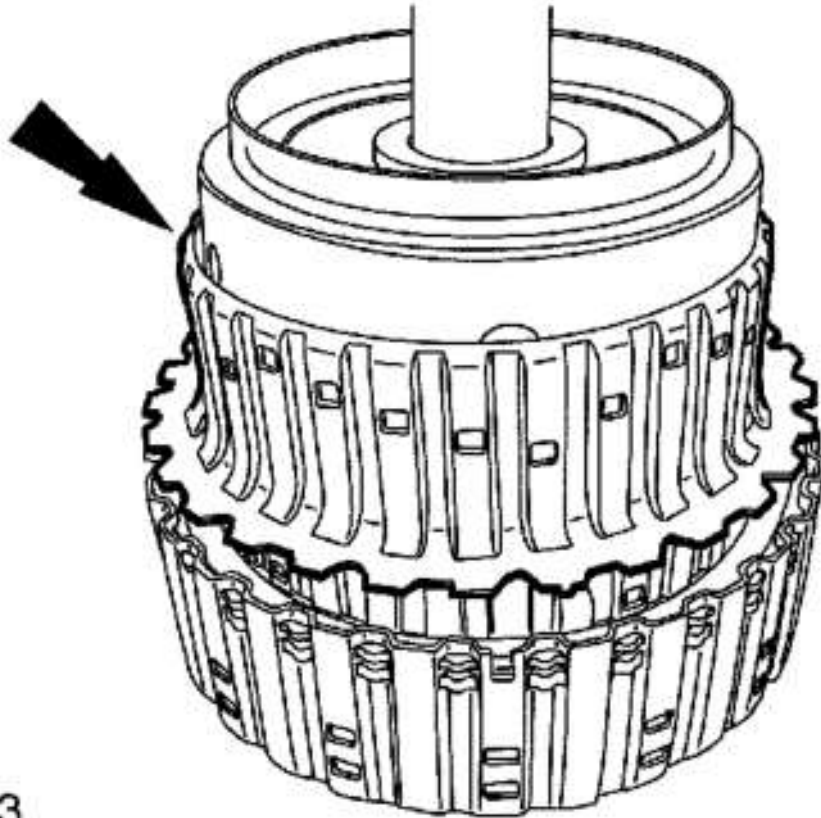


Fig. 188: Removing Direct Clutch Outer Shell Retaining Ring
Courtesy of FORD MOTOR CO.

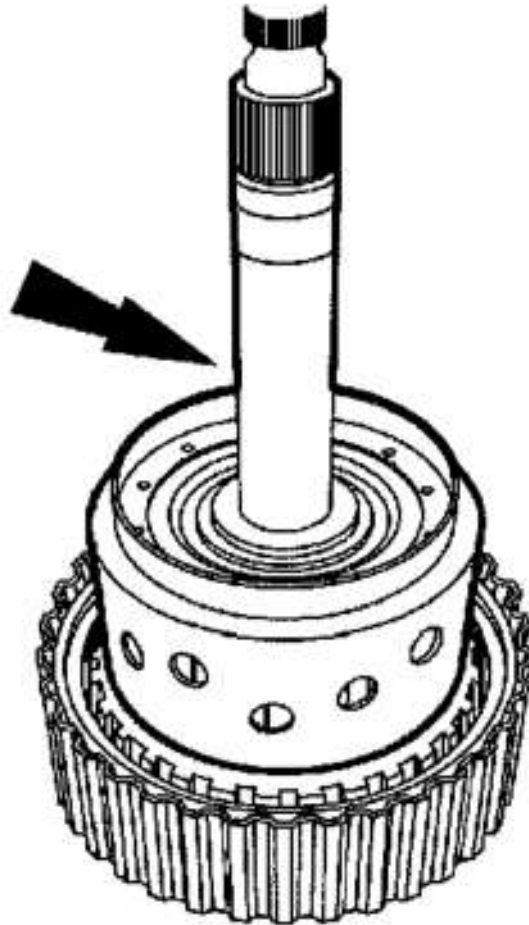
2. Remove the direct clutch outer shell.



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Fig. 189: Removing Direct Clutch Outer Shell
Courtesy of FORD MOTOR CO.

3. Remove the forward clutch drum.



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Fig. 190: Removing Forward Clutch Drum
Courtesy of FORD MOTOR CO.

NOTE: The bearing may stick in the forward clutch drum.

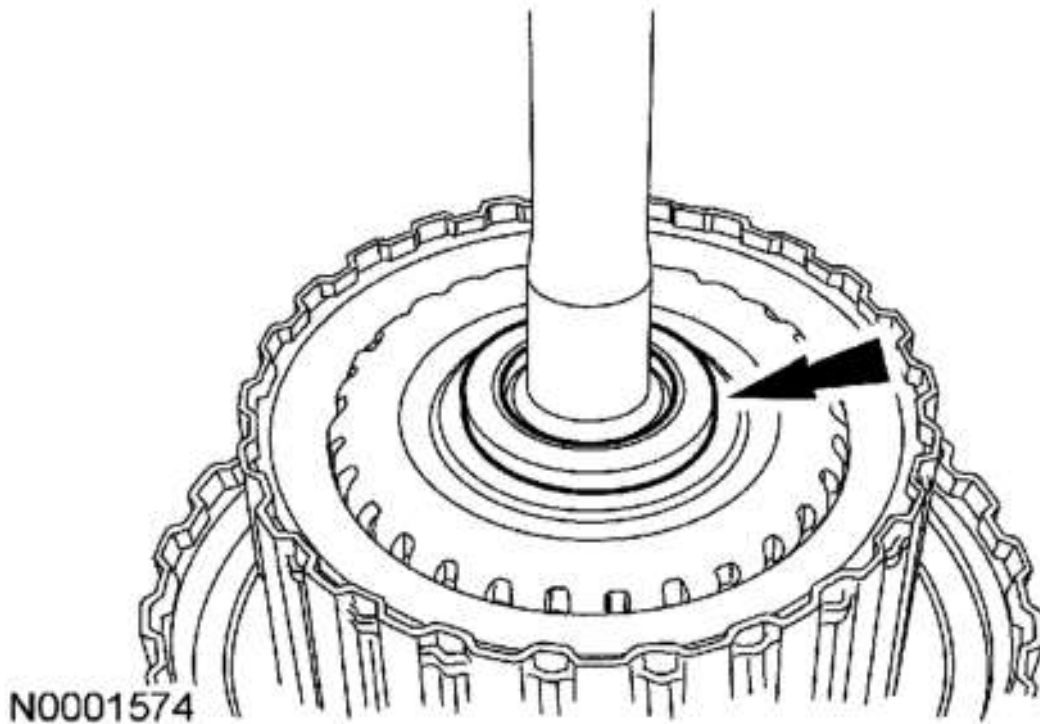


Fig. 191: Removing Intermediate Shaft Bearing
Courtesy of FORD MOTOR CO.

4. Remove the intermediate shaft bearing.
5. Remove the intermediate shaft assembly.

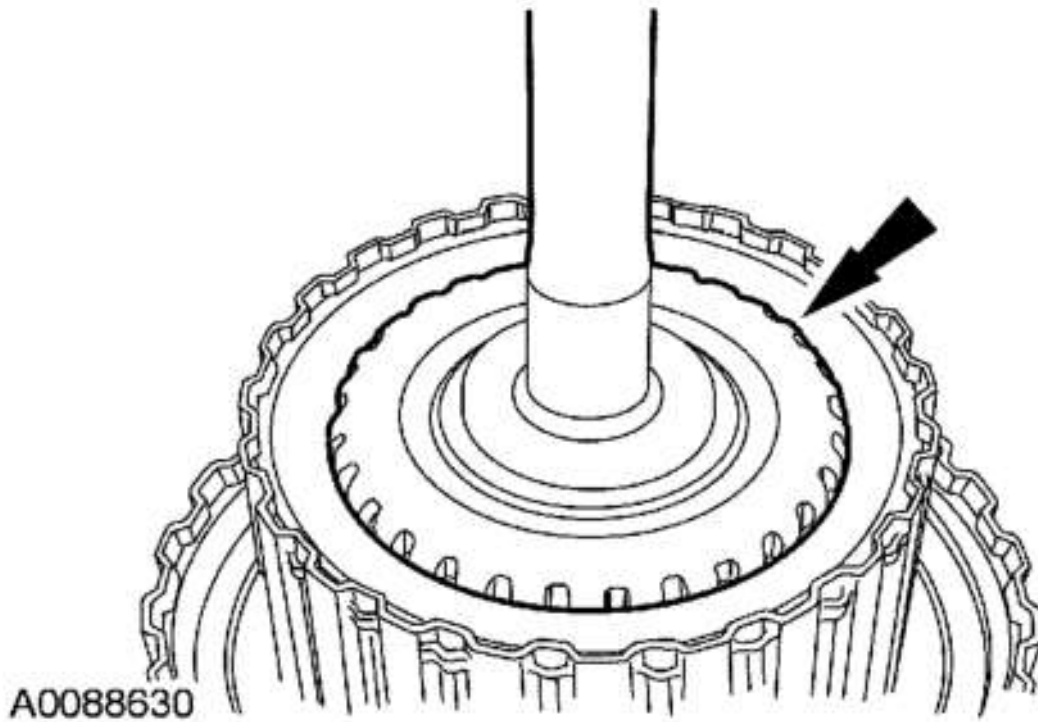
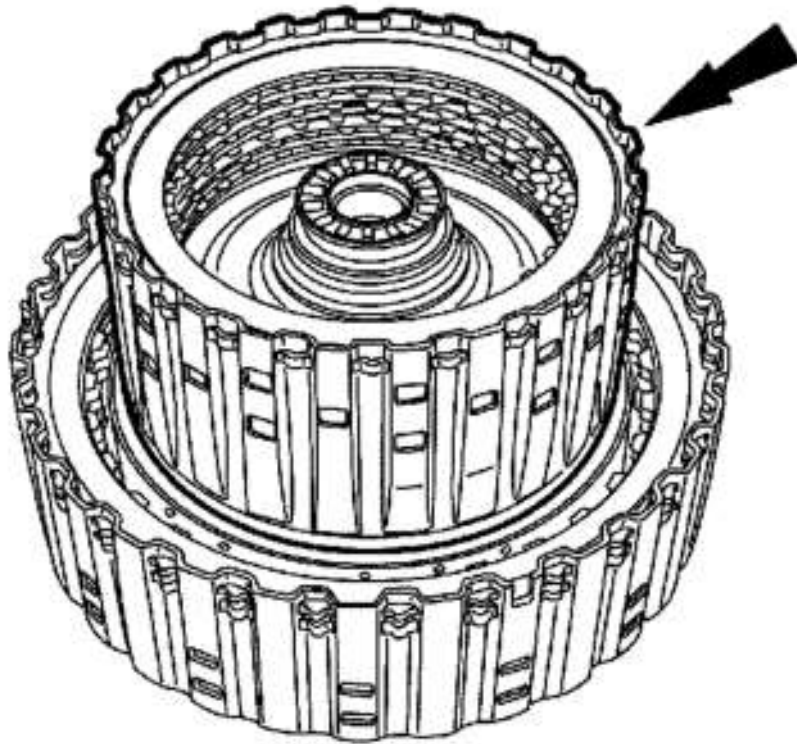


Fig. 192: Removing Intermediate Shaft Assembly
Courtesy of FORD MOTOR CO.

6. Remove the overdrive clutch pack from the forward clutch pack.



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Fig. 193: Removing Overdrive Clutch Pack
Courtesy of FORD MOTOR CO.

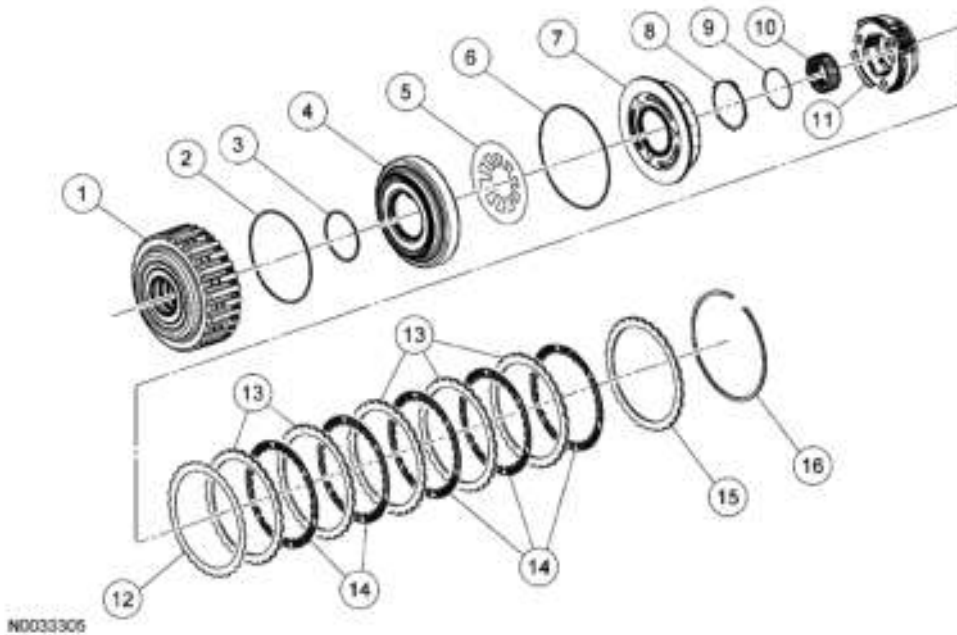
FORWARD CLUTCH ASSEMBLY

Material

MATERIAL SPECIFICATION

Item	Specification
MERCON® SP Automatic Transmission Fluid XT-6-QSP	MERCON® SP

Disassembly

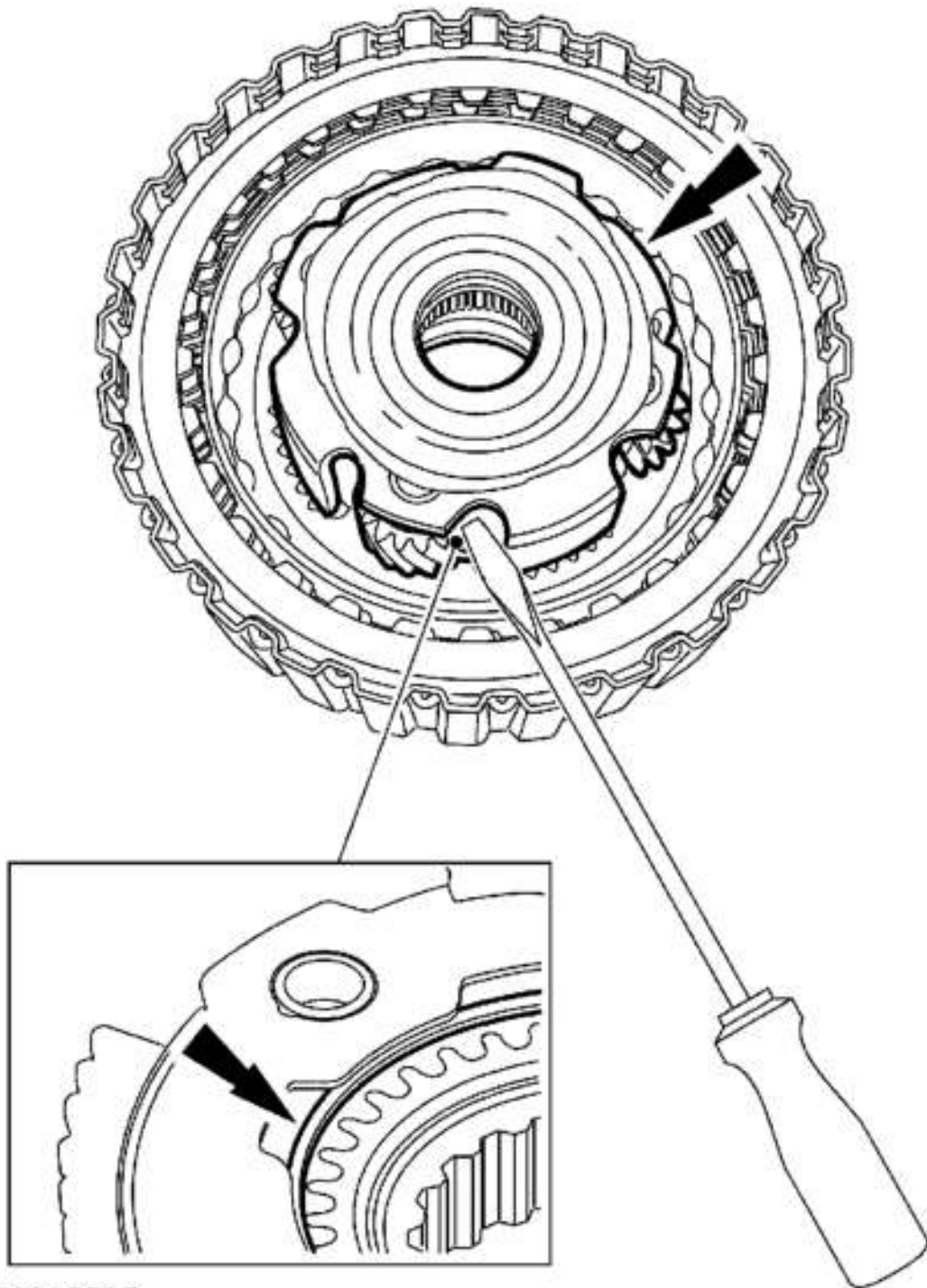


Item	Part Number	Description
1	7J011	Forward clutch drum
2	7F227	Forward clutch piston outer O-ring seal
3	7G242	Forward clutch piston inner O-ring seal
4	7L140	Forward clutch piston
5	7F230	Forward clutch piston return spring
6	7F227	Forward clutch balance dam O-ring seal

Item	Part Number	Description
7	7J032	Forward clutch balance dam
8	—	Forward clutch balance dam retaining ring
9	7H365	Sun gear retaining ring
10	7G231	Sun gear
11	7G219	Planetary gear
12	7E457	Forward clutch wave spring
13	7E314	Forward clutch external splined steel plates (quantity model dependent)
14	7B164	Forward clutch internal splined friction plates (quantity model dependent)
15	—	Forward clutch pressure plate
16	7B421	Forward clutch plate retaining ring

Fig. 194: Exploded View Of Forward Clutch Assembly (A Clutch)
 Courtesy of FORD MOTOR CO.

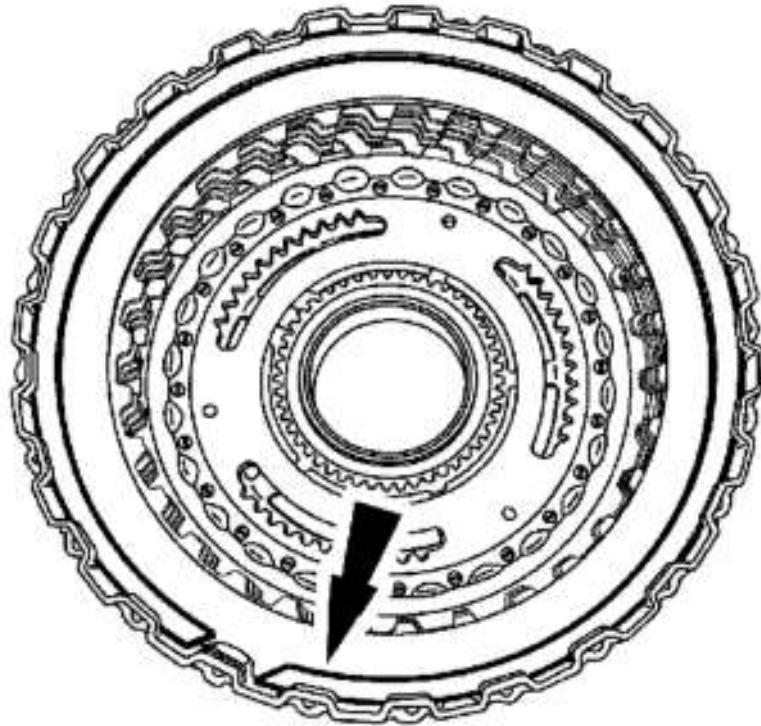
1. Remove the sun gear from the forward clutch assembly.
 - With a small screwdriver inserted into the sun gear push on the retaining ring in 3 places, while lifting up on the sun gear to remove.



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Fig. 195: Removing Sun Gear From Forward Clutch Assembly
Courtesy of FORD MOTOR CO.

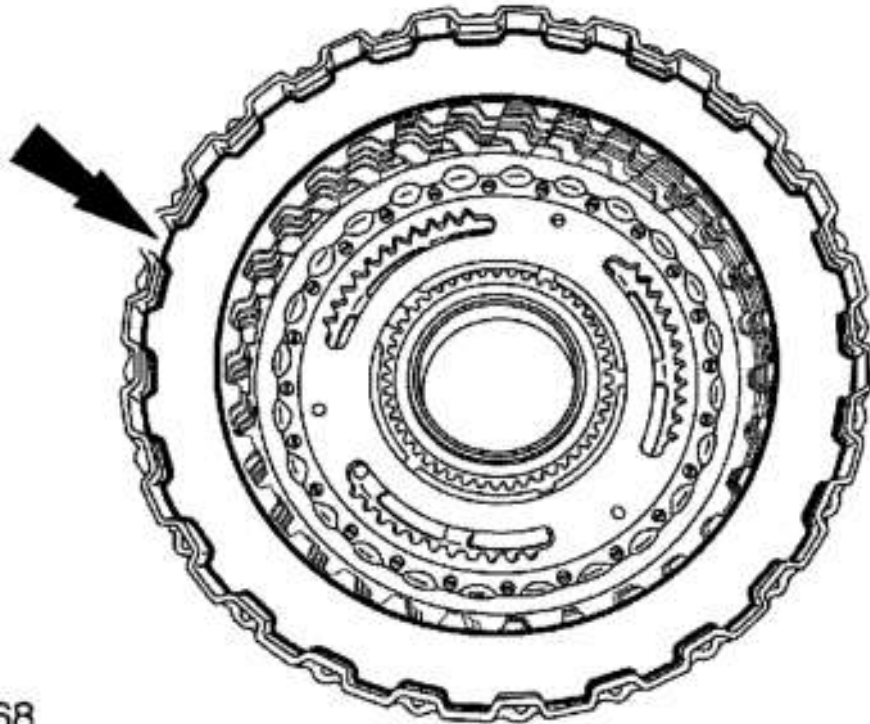
2. Remove the forward clutch pack snap ring.



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Fig. 196: Removing Forward Clutch Pack Snap Ring
Courtesy of FORD MOTOR CO.

NOTE: Inspect the forward clutch drum, friction plates and steel plates for damage. No new components are installed at this time. If new components are required, a new forward clutch assembly is required.



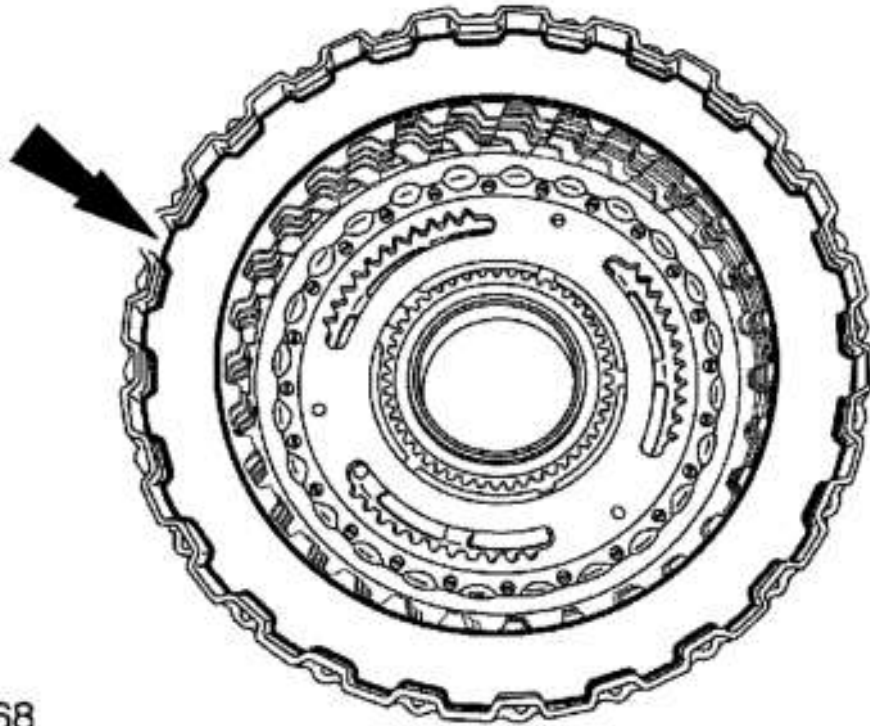
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Fig. 197: Removing Forward Clutch Plates
Courtesy of FORD MOTOR CO.

3. Remove the forward clutch plates, steel and friction. Inspect the steel and friction plates for damage. If damage is indicated, a new forward clutch assembly will be required.
 - If no damage is indicated the forward clutch can be re-assembled.

Assembly

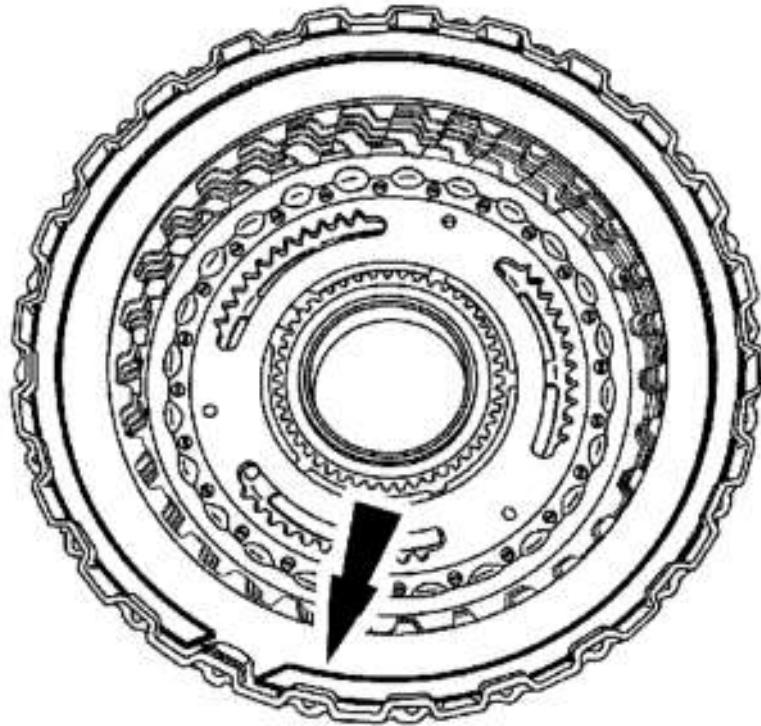
1. Install the forward clutch plates, starting with the wave spring then a steel plate and alternating between friction and steel plates, and ending up with the pressure plate.



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Fig. 198: Installing Forward Clutch Plates
Courtesy of FORD MOTOR CO.

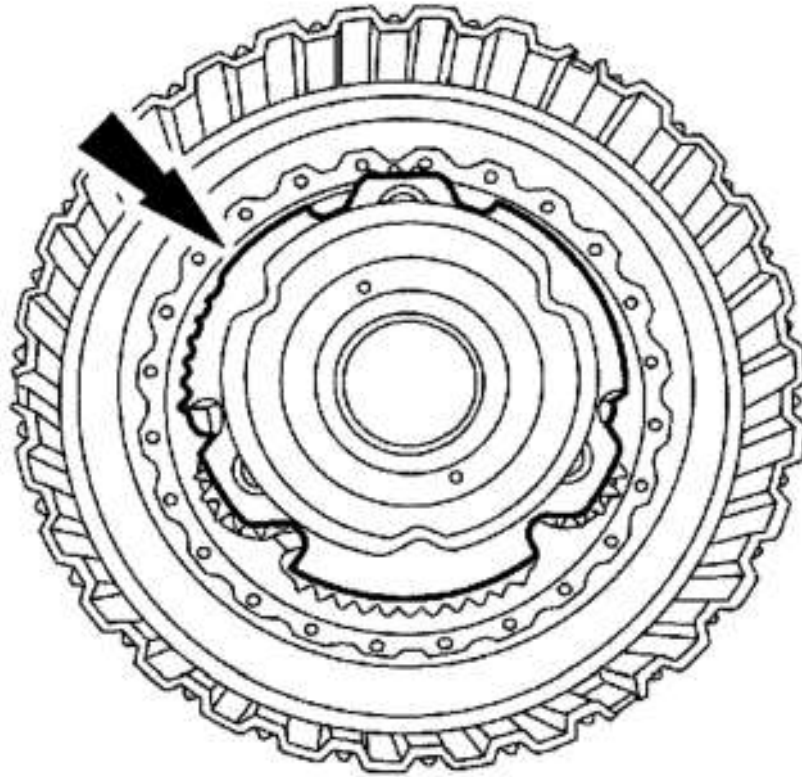
2. Install the forward clutch plate snap ring.



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Fig. 199: Installing Forward Clutch Plate Snap Ring
Courtesy of FORD MOTOR CO.

3. Install the sun gear into the forward clutch drum. Make sure that it snaps and locks in place.



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Fig. 200: Installing Sun Gear Into Forward Clutch Drum
 Courtesy of FORD MOTOR CO.

OVERDRIVE CLUTCH ASSEMBLY

Material

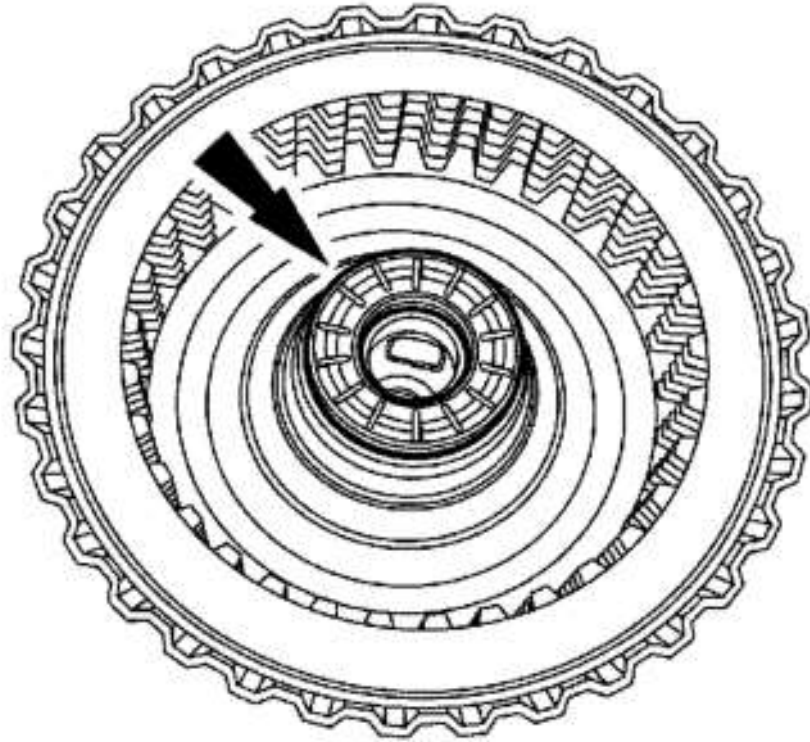
MATERIAL SPECIFICATION

Item	Specification
MERCON® SP Automatic Transmission Fluid XT-6-QSP	MERCON® SP

Disassembly

NOTE: Overdrive clutch also referred to as E-clutch.

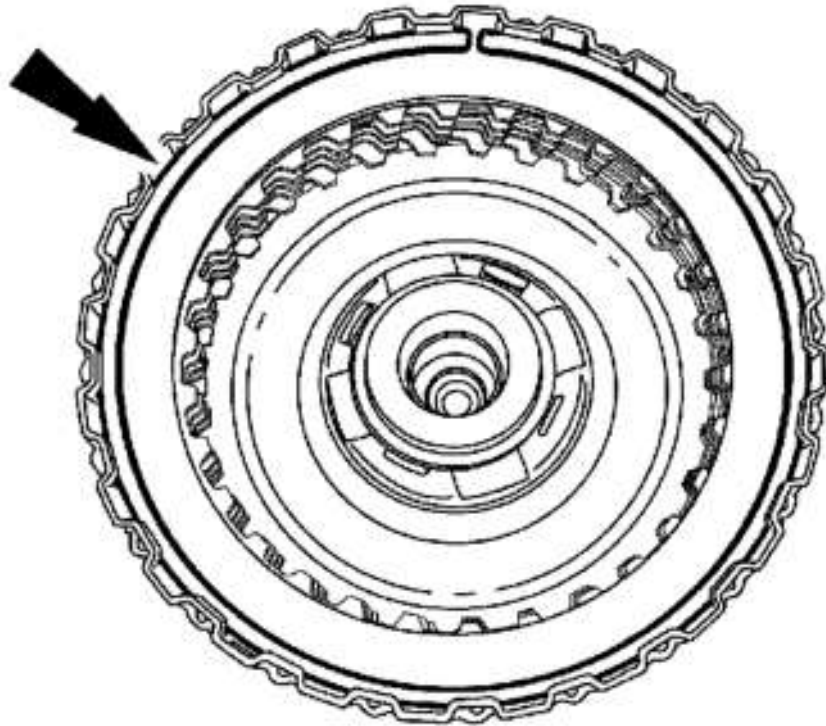
1. Remove the roller bearing. Clean and inspect the roller bearing.
 - If damage is indicated, a new overdrive clutch assembly will be required.



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Fig. 201: Removing Roller Bearing
Courtesy of FORD MOTOR CO.

2. Remove the overdrive clutch pack snap ring.



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Fig. 202: Removing Overdrive Clutch Pack Snap Ring
Courtesy of FORD MOTOR CO.

NOTE: Inspect the overdrive clutch drum, friction plates and steel plates for damage. No new components are installed at this time. If new components are required, a new overdrive clutch assembly is required.

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