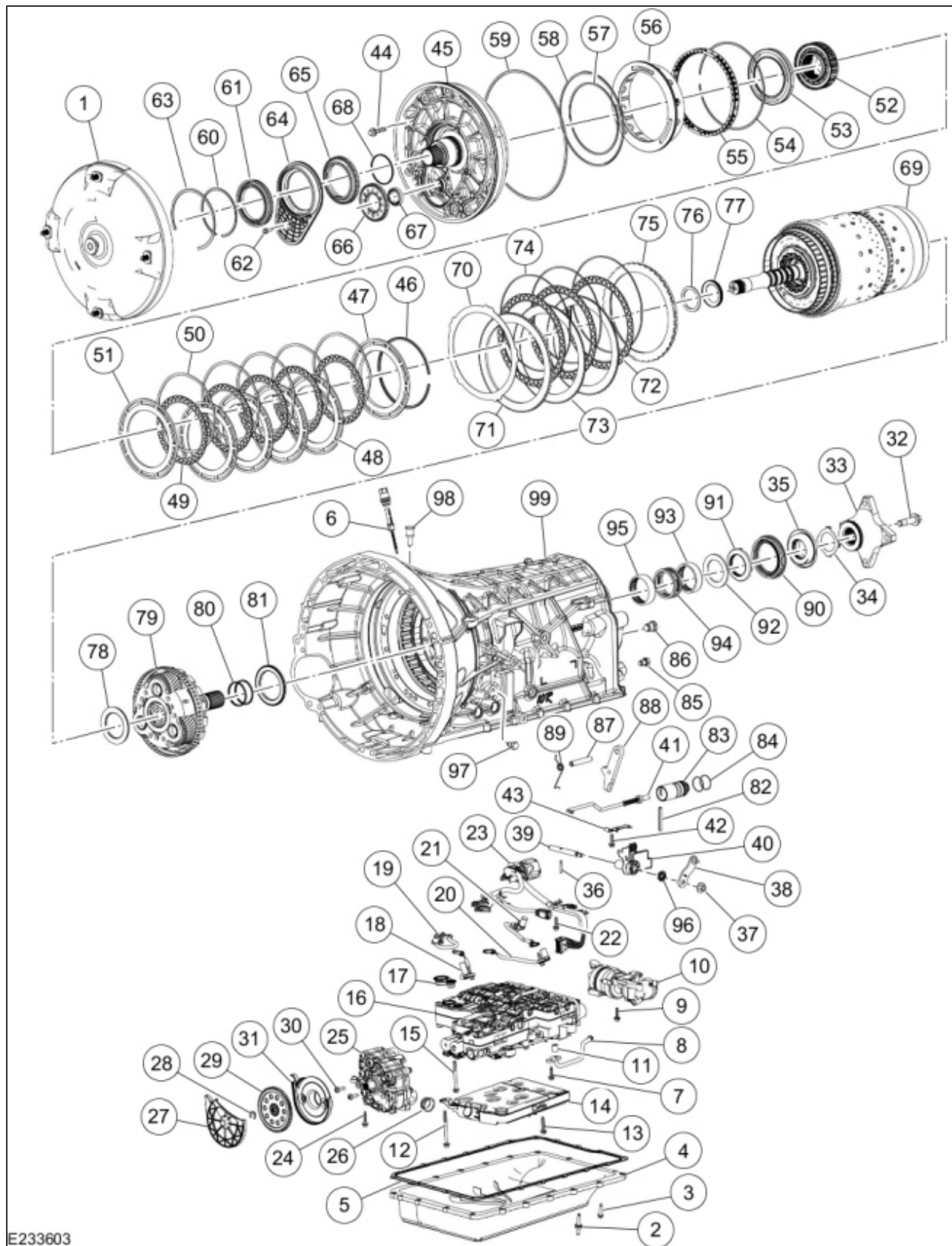


307-01 Automatic Transmission - 10-Speed Automatic Transmission - 10R80
Description and Operation

2019 Ranger
Procedure revision date: 09/27/2018

Transmission Description

Transmission Assembly

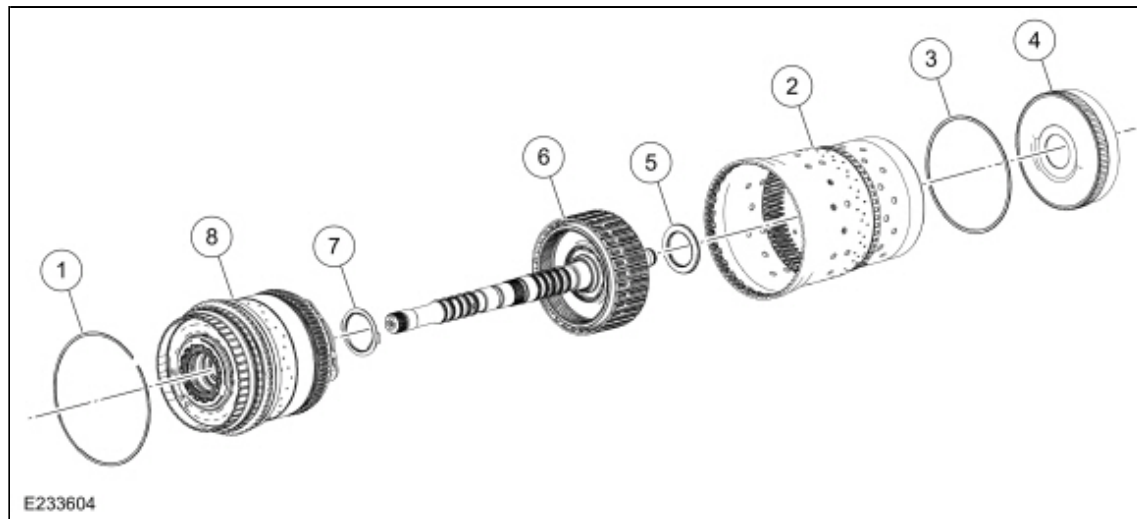


Item	Part Number	Description
1	7902	Torque converter
2	W714629	Transmission fluid pan stud bolts (6 required)
3	W500215	Transmission fluid pan bolts (12 required)
4	7A194	Transmission fluid pan
5	7A191	Transmission fluid pan gasket
6	7E389	Transmission fluid level indicator and plug assembly
7	W708500	Transmission fluid auxiliary pump tube bolt (model dependent)
8	7A209	Transmission fluid auxiliary pump tube (model dependent)
9	W718548	Transmission fluid auxiliary pump bolts (3 required) (model dependent)
10	7P086	Transmission fluid auxiliary pump (model dependent)
11	7J135	Transmission fluid auxiliary pump tube seal (model dependent)
12	W700123	Transmission fluid filter bolt (71 mm length)
13	W500214	Transmission fluid filter bolt (20 mm length)
14	7G186	Transmission fluid filter
15	W708500	Main control-to-transmission case bolts (68 mm length) (8 required)
16	7A100	Main control assembly
17	7N265	Main control-to-transmission fluid pump seal
18	7M183	Intermediate Speed A (ISSA) sensor
19	7M101	Turbine Shaft Speed (TSS) sensor
20	7H103	Intermediate Speed B (ISSB) sensor
21	7H103	Output Shaft Speed (OSS) sensor
22	W500213	Transmission internal wiring harness bolts (2 required)
23	7G276	Transmission internal wiring harness
24	W500215	Transmission fluid pump bolts (quantity model dependent)
25	7A103	Transmission fluid pump
26	7Z302	Transmission fluid pump seal
27	6658	Transmission fluid pump driven gear outer cover
28	W718158	Transmission fluid pump retaining ring
29	7A080	Transmission fluid pump driven gear
30	W504755	Transmission fluid pump driven gear inner cover bolts (2 required)
31	6658	Transmission fluid pump driven gear inner cover
32	7N134	Output shaft flange bolt (RWD only)

33	7K177	Output shaft flange (RWD only)
34	7N135	Output shaft flange anti-ting ring (RWD only)
35	7085	Output shaft nut (RWD only)
36	7G100	Manual control shaft-to-Transmission Range (TR) sensor roll pin
37	W712713 -S442	Manual control lever nut
38	7A256	Manual control lever (model dependent)
39	7C493	Manual control shaft
40	7H557	Transmission Range (TR) sensor (model dependent)
41	7D410	Park pawl actuator rod
42	W716607	Transmission Range (TR) sensor detent spring bolt
43	7E332	Transmission Range (TR) sensor detent spring
44	7N134	Front support assembly bolts (12 required)
45	7G033	Front support assembly
46	7M157 -C	B clutch (overdrive) snap ring
47	7C576	B clutch (overdrive) pressure plate
48	7B442 -A	B clutch (overdrive) steel plates (quantity model dependent)
49	7B164	B clutch (overdrive) friction plates (quantity model dependent)
50	7J402	B clutch (overdrive) separating springs (quantity model dependent)
51	7B442 -B	B clutch (overdrive) apply plate
52	7G206	One-Way Clutch (OWC)
53	7G418	B clutch (overdrive) piston
54	7N169	A clutch (intermediate) piston return spring snap ring
55	7G297	A clutch (intermediate) piston return spring
56	7J015	A clutch (intermediate) piston
57	7F225	A clutch (intermediate) piston inner seal
58	7F224	A clutch (intermediate) piston outer seal
59	7B031	Front support-to-case seal
60	7M157 -J	Torque converter hub seal snap ring
61	7A248	Torque converter hub seal
62	7N134 -C	Front support cover and seal assembly bolt
63	7M157	Front support cover and seal assembly snap ring
64	7570	Front support cover and seal assembly
65	7F073	Transmission fluid pump drive gear

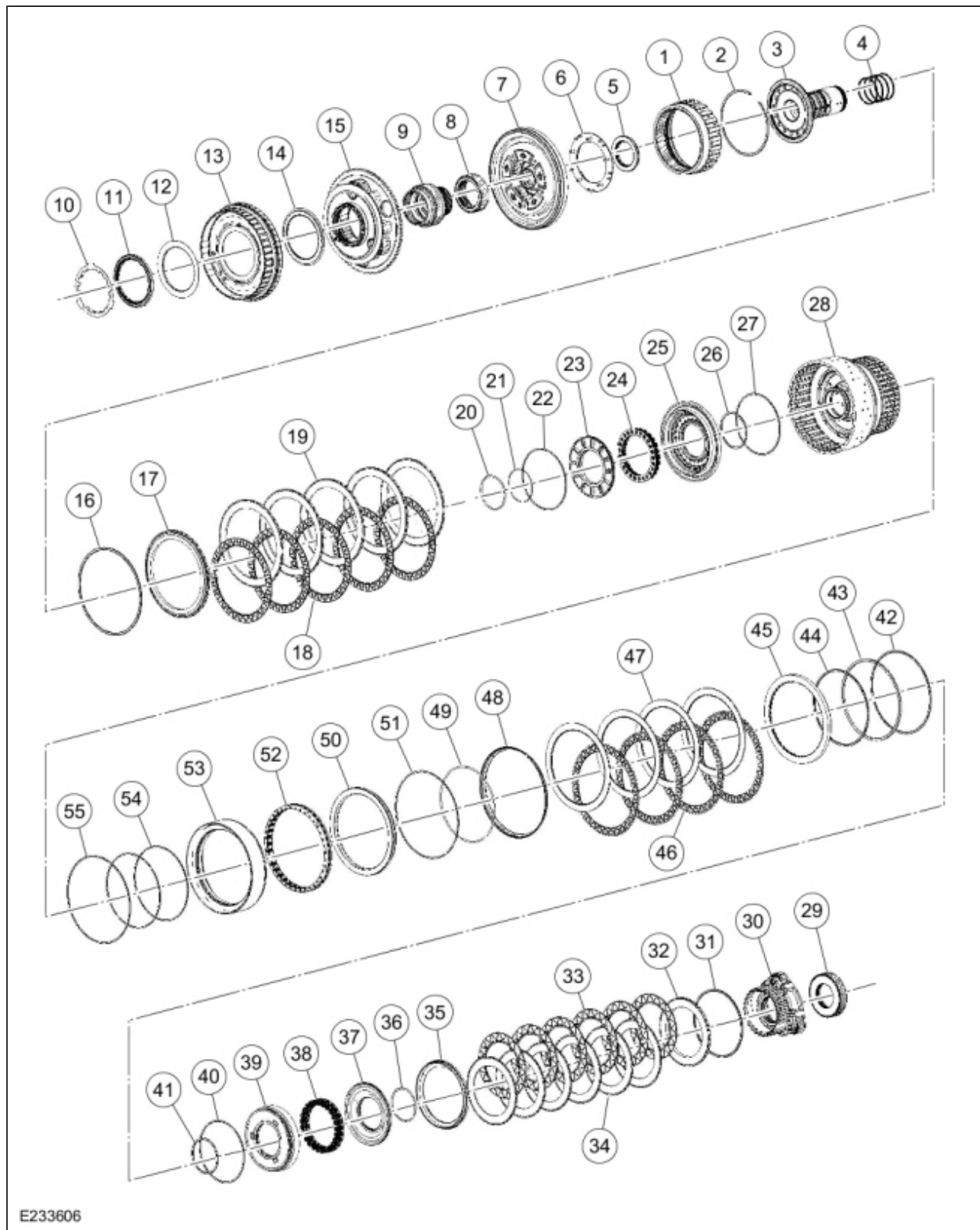
66	6651	Transmission fluid pump idler gear
67	7Z426	Transmission fluid pump idler gear bearing
68	7G090	Stator support seal
69	—	Clutch and planetary assembly
70	7P080	A clutch (intermediate) wave spring
71	7A406	A clutch (intermediate) apply plate (select fit)
72	7F219	A clutch (intermediate) friction plates (quantity model dependent)
73	7F220	A clutch (intermediate) steel plates (quantity model dependent)
74	7G159	A clutch (intermediate) separating springs (quantity model dependent)
75	7B437	A clutch (intermediate) pressure plate
76	7J300	Selective shim
77	7H032	Thrust bearing (T3)
78	7M152 -A	Thrust bearing (T9)
79	7P198	Output shaft and planetary carrier No. 4 assembly (model dependent)
80	7D019	Output shaft seals (2 required)
81	7D146	Thrust bearing (T10)
82	7G100	Park pawl actuator rod sleeve roll pin
83	2N613	Park pawl actuator rod sleeve
84	2D330	Park pawl actuator rod sleeve seals (2 required)
85	W715937	Plug assembly transmission case
86	W716240	Plug assembly park pawl shaft
87	7D071	Park pawl shaft
88	7A441	Park pawl
89	7D070	Park pawl return spring
90	7052	Output shaft seal (model dependent)
91	7G355	Thrust bearing (T11) (RWD only)
92	7A433	Thrust washer (RWD only)
93	7A415 -B	Output shaft bearing (outer)
94	7B314	Fluid passage sleeve
95	7A415 -A	Output shaft bearing (inner)
96	7F337	Manual control shaft seal
97	W715937	Plug (line pressure tap)
98	7G063	Transmission case vent assembly
99	7006	Transmission case

Clutch and planetary assembly



Item	Part Number	Description
1	7H579	Planetary carrier No.1 snap ring
2	7B177	Cylinder (clutch and planetary container)
3	7B002	Ring gear No. 4 snap ring
4	7D163	Ring gear No. 4
5	7M152	Thrust bearing (T8)
6	—	E clutch and input shaft assembly
7	7F373	Thrust bearing (T6)
8	—	CDF clutch and planetary carrier assembly

CDF Clutch and planetary carrier assembly

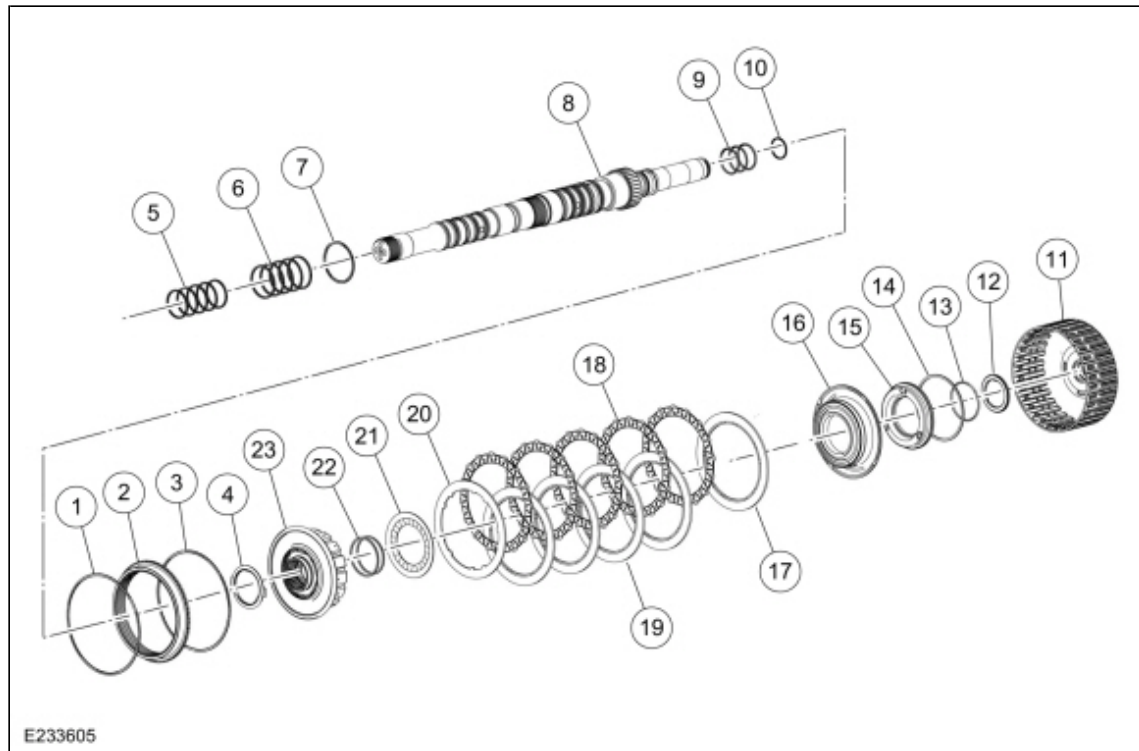


Item	Part Number	Description

1	7D392	Ring gear No. 2
2	7H379	Ring gear No. 2 snap ring
3	7D159	Shaft (sun gear No 3)
4	7B399	Shaft (sun gear No 3) Teflon® seals (4 required)
5	7D283	Thrust bearing (T5)
6	7H578	Fluid collector
7	7A398	Planetary carrier No. 2
8	7H580	Sun gear No. 2
9	7G230	Sun gear No. 1
10	1195	Ring gear No. 1 bearing support locking ring
11	7P074	Ring gear No. 1 bearing support
12	7C096	Ring gear No. 1 bearing
13	7P136	Ring gear No. 1
14	7C096	Ring gear No. 1 bearing
15	7G218	Planetary carrier No. 1
16	7H076	C clutch (direct) snap ring
17	7B477	C clutch (direct) pressure plate
18	7H095	C clutch (direct) friction plates (quantity model dependent)
19	7F238	C clutch (direct) steel plates (quantity model dependent)
20	7B492	C clutch (direct) balance dam retainer
21	7F234	C clutch (direct) balance dam inner seal
22	7C000	C clutch (direct) balance dam outer seal
23	7H359	C clutch (direct) balance dam
24	7B488	C clutch (direct) piston return spring
25	7C117	C clutch (direct) piston
26	7G444	C clutch (direct) piston inner seal
27	7C000	C clutch (direct) piston outer seal
28	7P182	CDF clutch cylinder
29	7D063	Sun gear No. 3
30	7D006	Planetary carrier No. 3
31	7B421	D clutch (low) snap ring
32	7G486	D clutch (low) pressure plate
33	7E312	D clutch (low) friction plates (quantity model dependent)
34	7G474	D clutch (low) steel plates (quantity model dependent)
35	7P176	D clutch (low) apply ring
36	7B492	D clutch (low) balance dam retainer
37	7D343	D clutch (low) balance dam

38	7D405	D clutch (low) piston return spring
39	7D402	D clutch (low) piston
40	7G445	D clutch (low) piston outer seal
41	7G444	D clutch (low) piston inner seal
42	7P200	F clutch (high) keeper snap ring
43	7H318	F clutch (high) snap ring keeper
44	7P174	F clutch (high) snap ring
45	7A450	F clutch (high) pressure plate
46	7E313	F clutch (high) friction plates (quantity model dependent)
47	7E316	F clutch (high) steel plates (quantity model dependent)
48	7P175	F clutch (high) apply ring
49	7P172	F clutch (high) balance dam retainer
50	7P171	F clutch (high) balance dam
51	7A590	F clutch (high) balance dam outer seal
52	7C295	F clutch (high) piston return spring
53	7R247	F clutch (high) piston
54	7A590 -B	F clutch (high) piston and balance dam seals (2 required)
55	7A590 -A	F clutch (high) piston seal

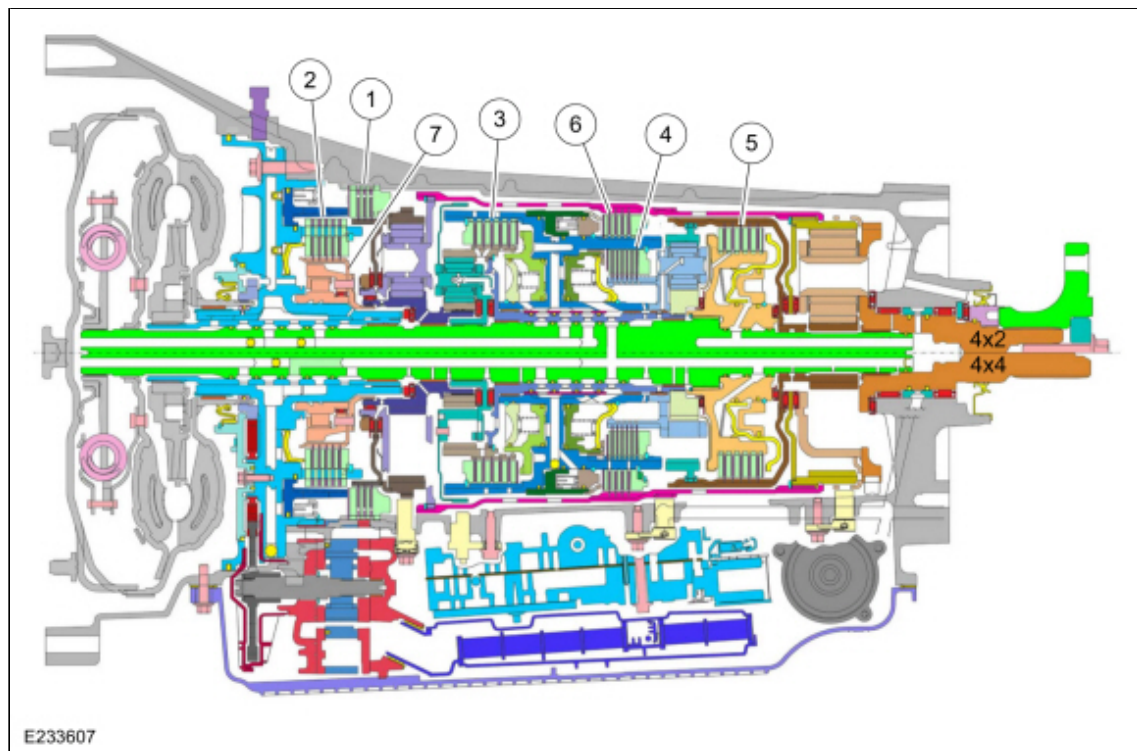
E Clutch and input shaft assembly



Item	Part Number	Description
1	7H361	Ring gear No. 3 outer snap ring
2	7H053	Ring gear No. 3
3	7H361	Ring gear No. 3 inner snap ring
4	7F373	Thrust bearing (T6)
5	7G091 -A	Input shaft front Teflon® seals (5 required)
6	7G091 -B	Input shaft-to-sun gear No 3 shaft Teflon® seals (5 required)
7	7J410	Input shaft snap ring
8	7015	Input shaft
9	7G242	Input shaft D-ring seals (3 required)
10	7G091	Input shaft Teflon® seal
11	7D062	Shell and sun gear No. 4
12	7G008	Thrust bearing (T7)
13	7H365	E clutch (forward) balance dam retainer
14	7F227	E clutch (forward) balance dam outer seal
15	7P169	E clutch (forward) balance dam
16	7A262	E clutch (forward) piston
17	7B066	E clutch (forward) apply plate (2.9-3.0 mm)
18	7H091	E clutch (forward) friction plates (quantity model dependent)

19	7H089	E clutch (forward) steel plates (quantity model dependent)
20	7B066	E clutch (forward) pressure plate (select fit)
21	7B070	E clutch (forward) piston return spring
22	7G242	E clutch (forward) piston and balance dam inner seals (2 required)
23	7P211	E clutch (forward) hub

Component Location



Item	Part Number	Description
1	—	A clutch assembly
2	—	B clutch assembly
3	—	C clutch assembly
4	—	D clutch assembly
5	—	E clutch assembly
6	—	F clutch assembly
7	—	One-Way Clutch (OWC)

