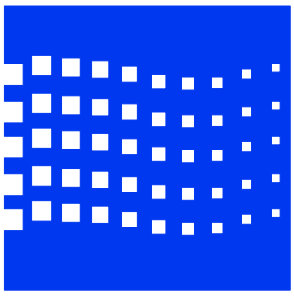

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Technology for a cleaner environment

10420 Rising Court Woodridge, IL 60517

Customized Parts Catalog for Transmission Model

M365-502-01

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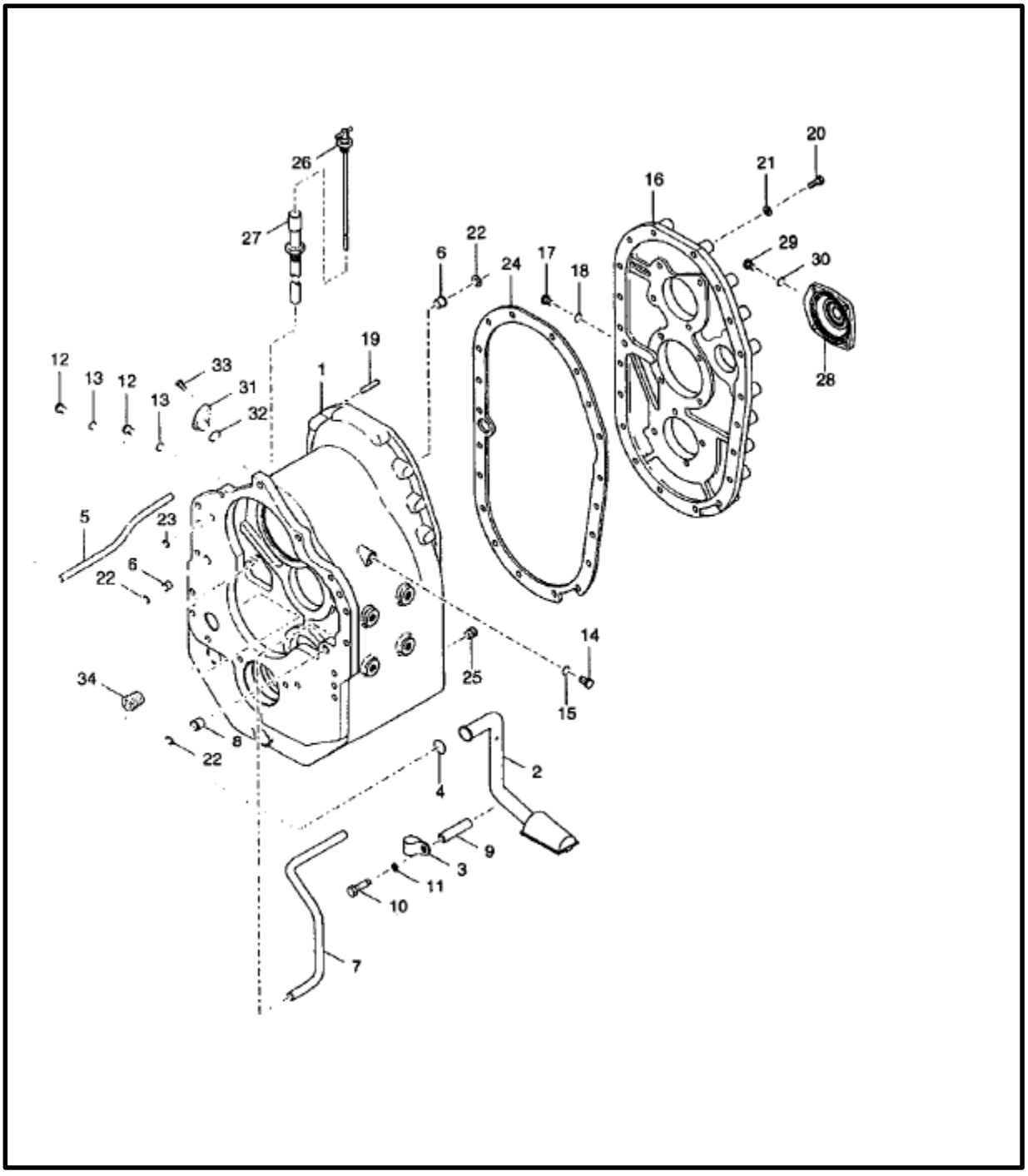
M365-502-01

GROUP – CASE & REAR COVER



Dry Systems® Technologies

M365-502-01

GROUP – CASE & REAR COVER

Item	Qty	Part Number	Description
1	1	M365-502-03	ASSY – TRANSMISSION CASE
2	1	M365-502-04	ASSY – SUCTION TUBE
3	1	M365-502-05	CLIP - CLOSED
4	1	M365-502-06	O-RING – SUCTION TUBE ASSEMBLY
5	1	M365-502-07	TUBE – LOW CLUTCH
6	2	M350-501-19	SLEEVE – PRESSURE & LUBRICATION TUBE
7	1	M365-502-08	TUBE - LUBE
8	1	M365-502-09	TUBE SLEEVE
9	1	M365-502-10	SPACER – TUBE CLIP
10	1	M365-502-11	SCREW – TUBE CLIP
11	1	M350-500-71	LOCKWASHER – TUBE CLIP SCREW
12	2	M365-502-12	PLUG – FWD & 3RD PORT – INCLUDES ITEM 13
13	2	M365-502-13	O-RING – PLUG – PART OF ITEM 12
14	1	M365-502-14	PLUG – LUBE PORT – INCLUDES ITEM 15
15	1	M365-502-15	O-RING – PLUG – PART OF ITEM 14
16	1	M365-502-16	ASSY – REAR COVER & PLUG – INCLUDES ITEM 17
17	1	M365-502-12	PLUG – INCLUDES ITEM 18
18	1	M365-502-13	O-RING – PLUG – PART OF ITEM 17
19	2	M365-502-17	PIN – TRANS CASE TO REAR COVER DOWEL
20	20	M365-502-18	SCREW – REAR COVER TO CASE
21	20	M350-500-71	LOCKWASHER – REAR COVER TO CASE SCREW
22	3	M350-501-55	O-RING – CLUTCH PRESSURE TUBE
23	2	M350-500-15	O-RING – CLUTCH PRESSURE
24	1	M365-502-19	GASKET – REAR COVER TO TRANS CASE
25	2	M350-501-56	PLUG – MAGNETIC DRAIN

Item	Qty	Part Number	Description
26	1	M365-502-20	DIPSTICK
27	1	M365-502-21	ASSY - DIPSTICK
28	1	M365-502-22	ASSY – LOW SHAFT BEARING CAP – INCLUDES ITEM 29
29	1	M365-502-12	PLUG – INCLUDES ITEM 30
30	1	M365-502-13	O-RING – PLUG – PART OF ITEM 29
31	1	M365-502-23	PLUG – SPEED SENSOR PORT
32	1	M365-502-24	O-RING – SPEED SENSOR
33	1	M365-502-25	SCREW – SPEED SENSOR
34	1	M365-502-26	PLUG – DRAIN BACK HOLE

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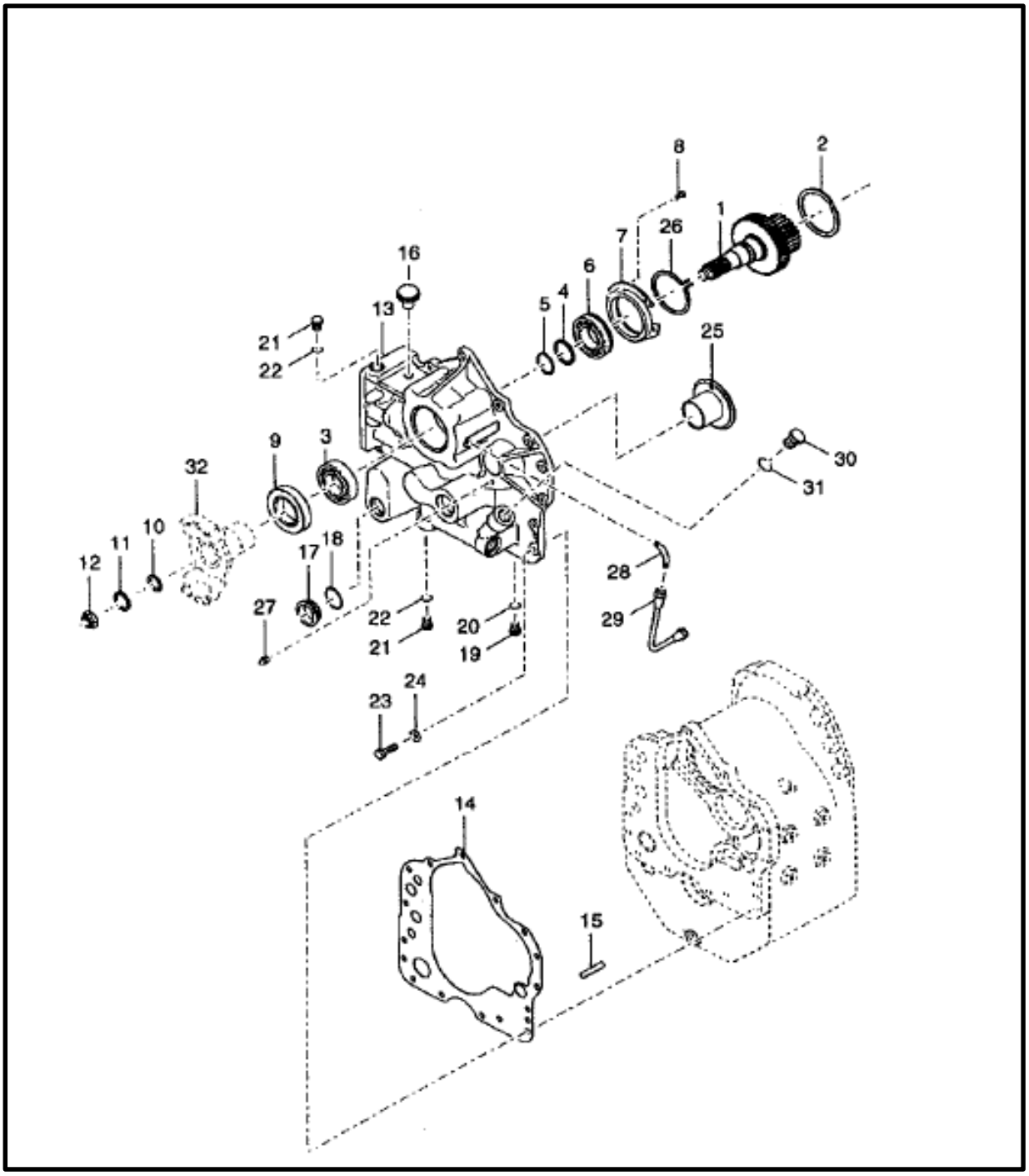
M365-502-01

GROUP – INPUT SHAFT & FRONT COVER



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M365-502-01

GROUP – INPUT SHAFT & FRONT COVER

Item	Qty	Part Number	Description
1	1	M365-502-27	ASSY – INPUT SHAFT, HUB & RET. RING – INCLUDES ITEM 2
2	1	M365-502-28	RING – RETAINING – PART OF ITEM 1
3	1	M350-501-24	BEARING – INPUT SHAFT FRONT
4	1	M365-502-29	WASHER – REAR BEARING
5	1	M365-502-30	SNAP RING - BEARING
6	1	M365-502-31	BALL BEARING
7	1	M365-502-32	PLATE – INPUT SHAFT REAR BEARING RETAINING
8	6	M365-502-33	SCREW – BEARING RETAINING PLATE
9	1	M350-501-29	SEAL – INPUT FLANGE OIL
10	1	M508-550-01	O-RING
11	1	M508-548-01	WASHER - FLANGE
12	1	M508-549-01	NUT - FLANGE
13	1	M365-502-34	COVER - FRONT
14	1	M365-502-35	GASKET – CONV. HOUSING TO TRANSMISSION CASE
15	1	M365-502-17	PIN – FRONT COVER DOWEL
16	1	M350-501-08	AIR - BREATHER
17	1	M350-501-32	PLUG – FRONT COVER
18	1	M350-501-33	GASKET – FRONT COVER PLUG
19	1	M365-502-12	PLUG – INCLUDES ITEM 20
20	1	M365-502-13	O-RING – PLUG – PART OF ITEM 19
21	2	M365-502-14	PLUG – INCLUDES ITEM 22
22	2	M365-502-15	O-RING – PLUG – PART OF ITEM 21
23	16	M365-502-36	SCREW – FRONT COVER TO CASE SCREW
24	16	M350-500-71	LOCKWASHER – FRONT COVER TO CASE SCREW
25	1	M365-502-37	SLEEVE – CONVERTOR HOUSING

Item	Qty	Part Number	Description
26		N.S.S.	RING – REAR BRG RETAINING – PART OF ITEM 6
27	1	M365-502-38	FITTING – CONNECTOR MALE PIPE
28	1	M365-502-39	FITTING – ELBOW 90 DEG MALE PIPE
29	1	M365-502-40	TUBE - LUBE
30	1	M365-502-41	PLUG – INCLUDES ITEM 31
31	1	M365-502-42	O-RING – PLUG – PART OF ITEM 30
32	1	M507-655-01	FLANGE - INPUT

N.S.S – Not Sold Separately

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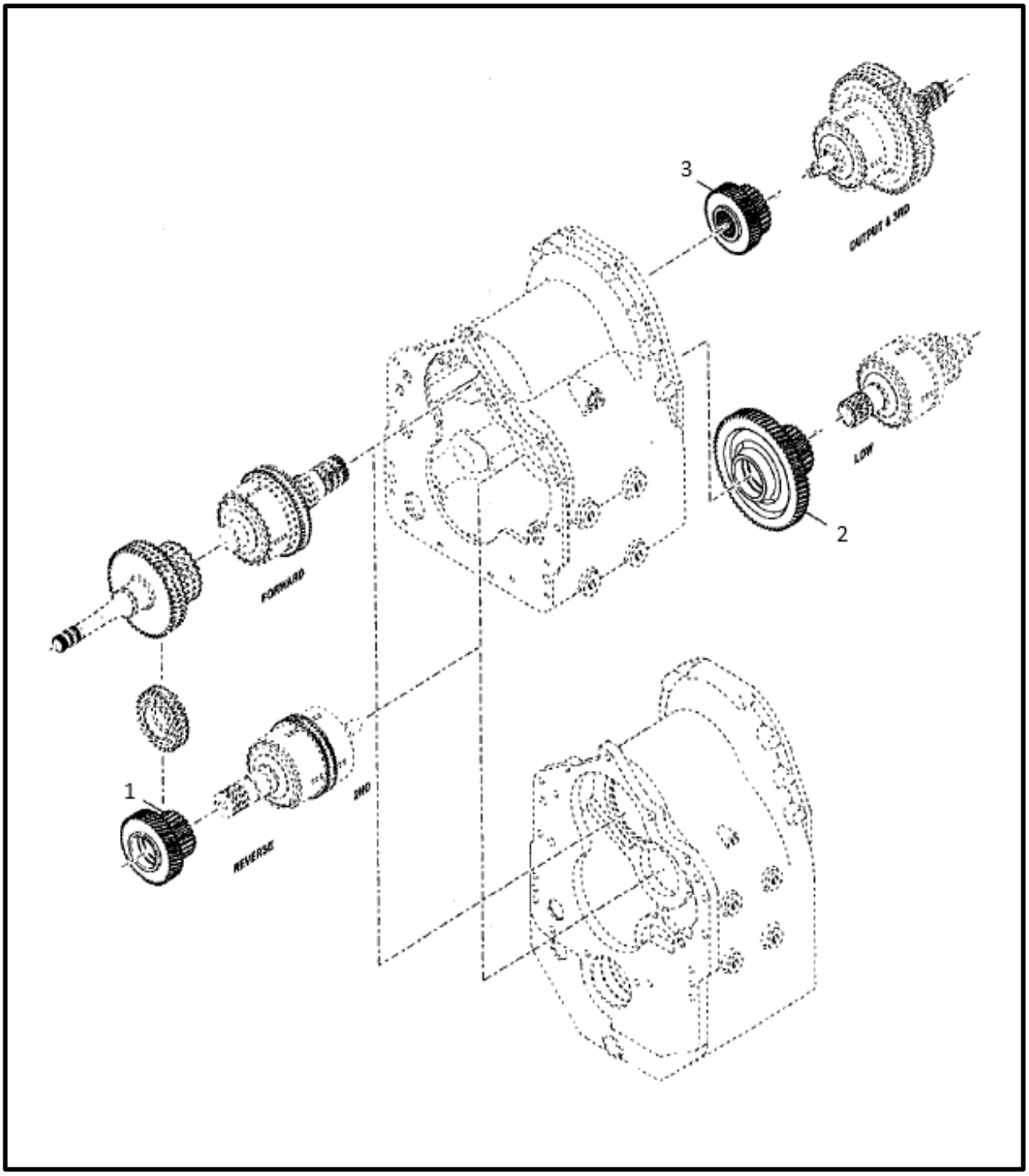
M365-502-01

GROUP – GEAR



Dry Systems® Technologies

M365-502-01

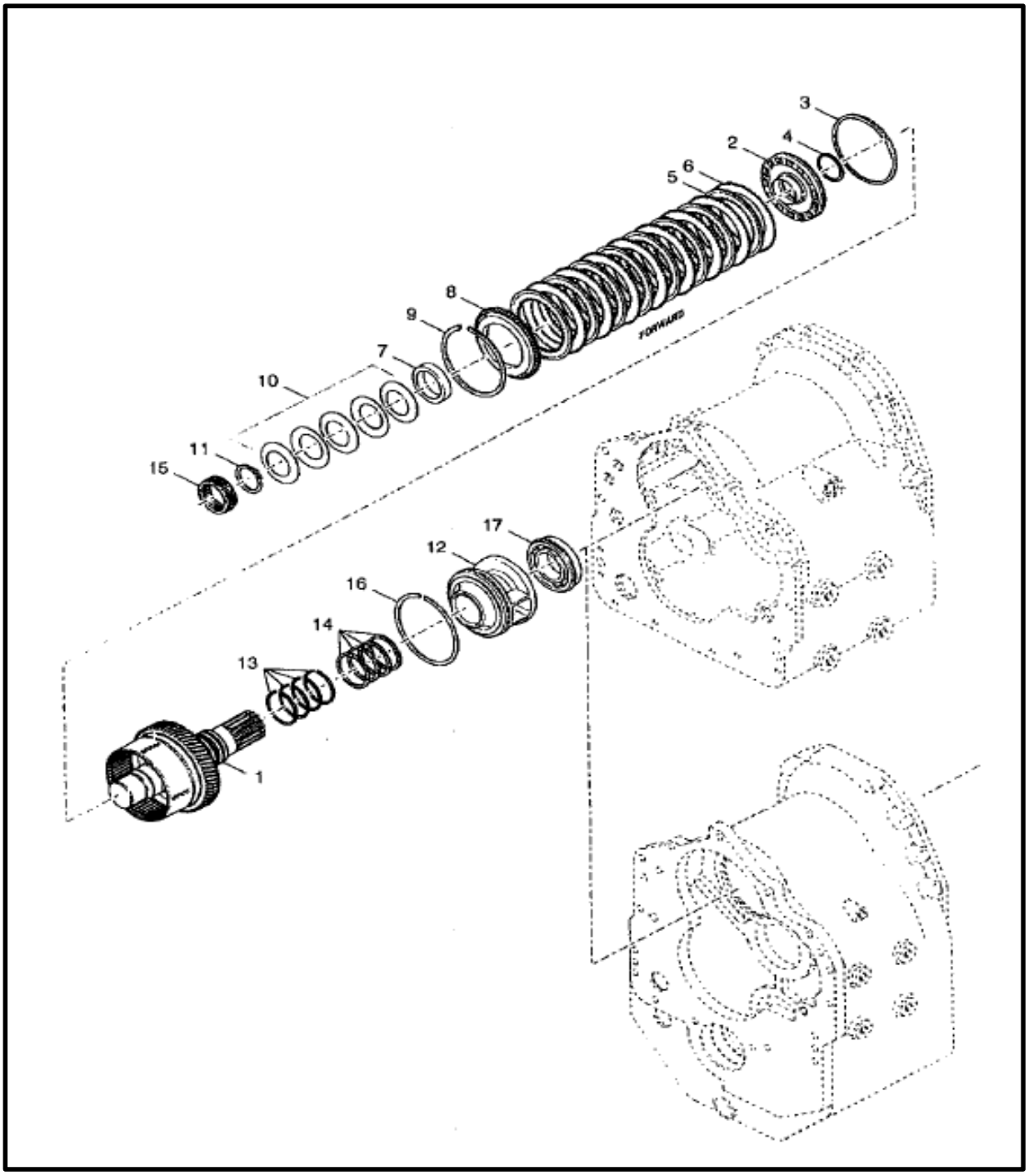
GROUP – GEAR

Item	Qty	Part Number	Description
1	1	M365-502-43	GEAR – REVERSE CLUTCH
2	1	M365-502-44	GEAR – LOW CLUTCH
3	1	M365-502-45	GEAR – 3RD CLUTCH

Dry Systems® Technologies

M365-502-01

GROUP – FORWARD SHAFT



Dry Systems® Technologies

M365-502-01

GROUP – FORWARD SHAFT

Item	Qty	Part Number	Description
1	1	M365-502-46	ASSY – FORWARD SHAFT, DRUM & PLUG
2	1	M365-502-47	ASSY – CLUTCH PISTON & SEALS – INCLUDES ITEM 3 & 4
3	1	M365-502-48	SEAL – CLUTCH PISTON – OUTER – PART OF ITEM 2
4	1	M365-502-49	SEAL – CLUTCH PISTON – INNER – PART OF ITEM 2
5	8	M365-502-50	DISC – CLUTCH INNER
6	8	M365-502-51	DISC - CLUTCH OUTER
7	1	M365-502-52	SPACER – PISTON RETURN SPRING
8	1	M365-502-53	END PLATE
9	1	M365-502-54	SNAP RING – BACKING PLATE
10	1	M365-502-55	ASSY – DISC SPRING – INCLUDES 5 WASHERS
11	1	M365-502-56	SNAP RING – SPRING RETAINER
12	1	M365-502-57	SLEEVE – PISTON RING
13	4	M365-502-58	EXPANDER – FORWARD SHAFT PISTON RING
14	4	M365-502-59	RING – FORWARD SHAFT PISTON
15	1	M365-502-60	BEARING – FORWARD SHAFT PILOT
16	1	M365-502-61	RING – PISTON RING SLEEVE RETAINER
17	1	M365-502-62	BEARING – FORWARD SHAFT REAR

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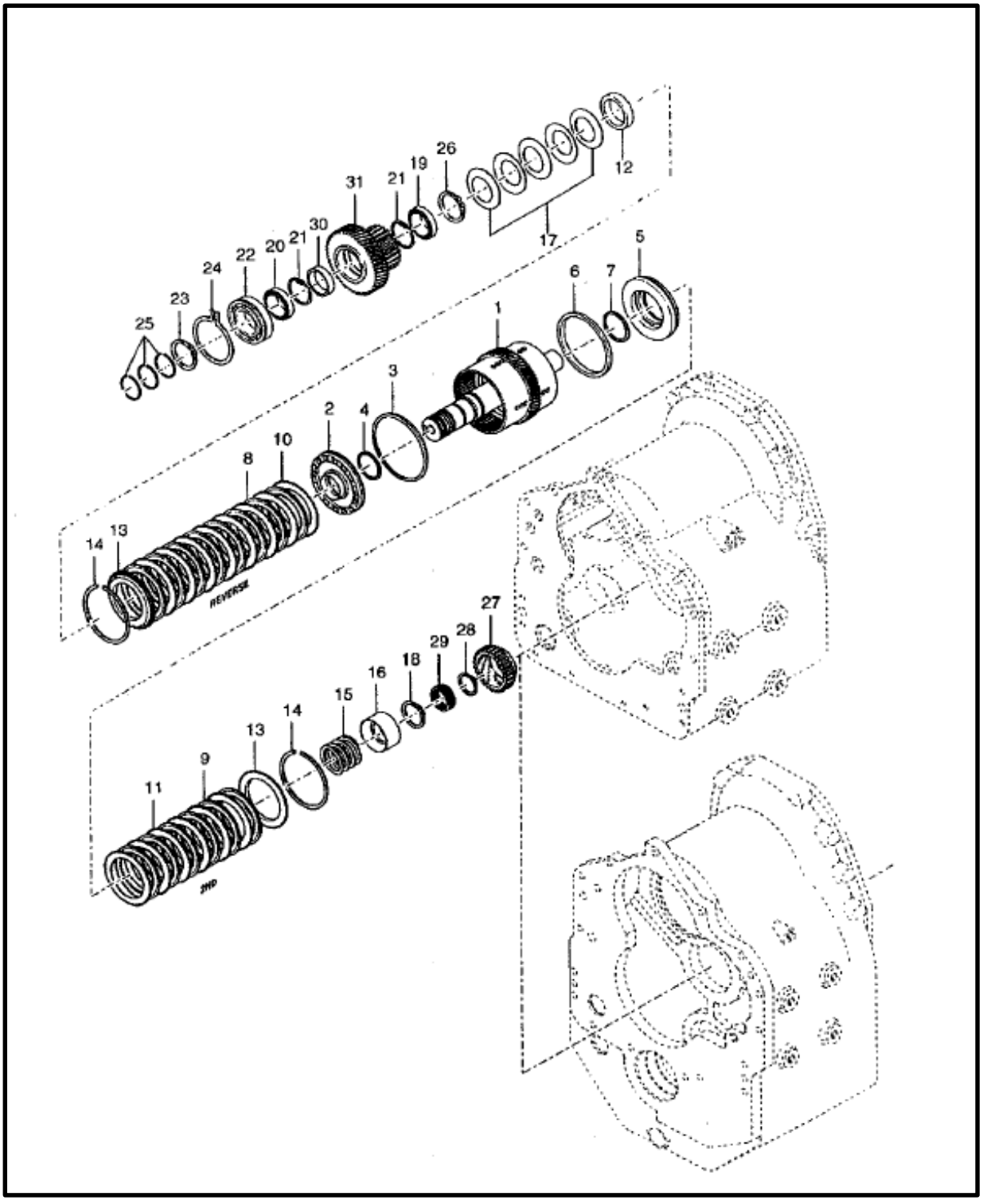
M365-502-01

GROUP – REVERSE AND 2ND SHAFT



Dry Systems® Technologies

M365-502-01

GROUP – REVERSE AND 2ND SHAFT

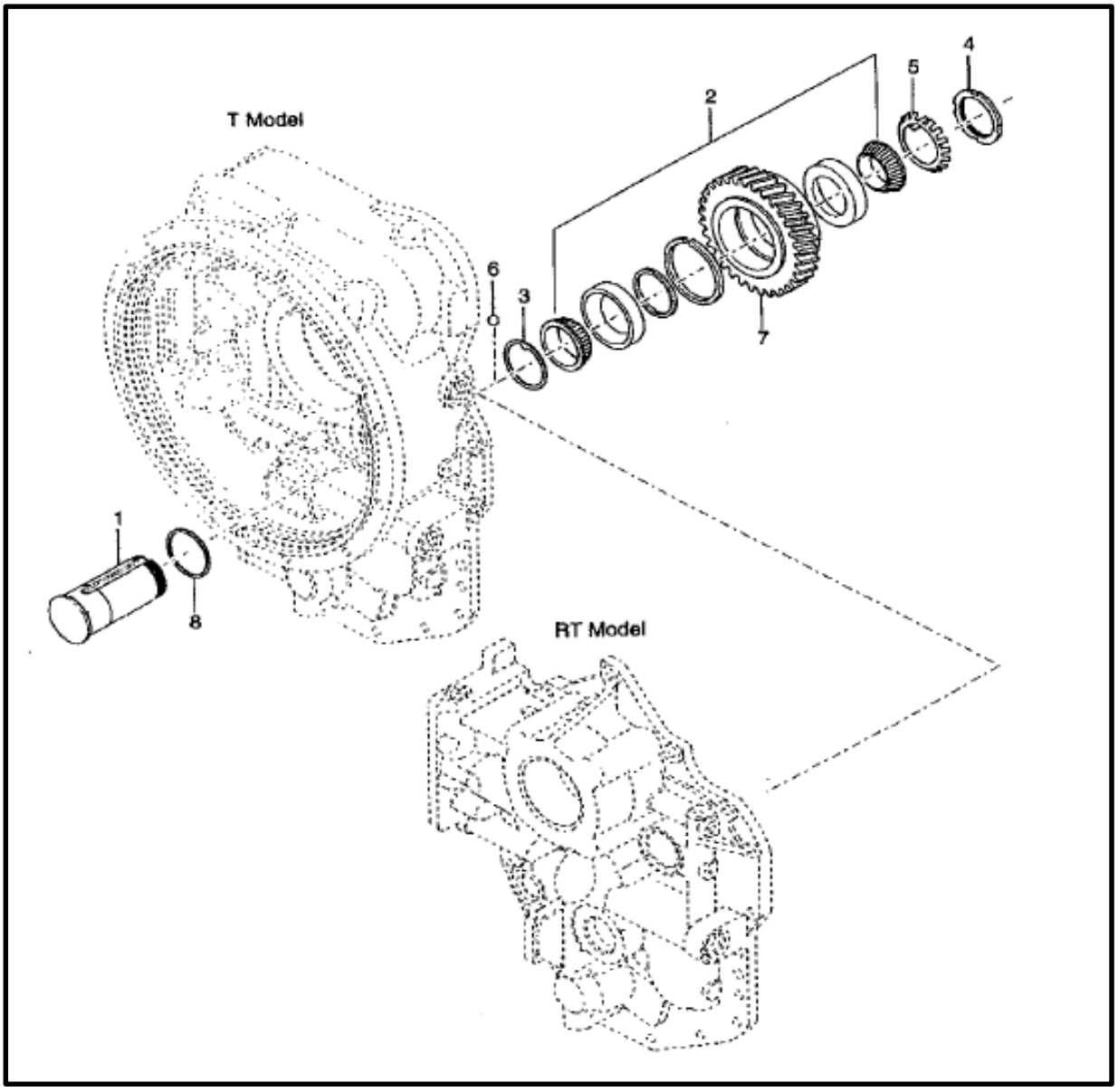
Item	Qty	Part Number	Description
1	1	M365-502-63	ASSY – REVERSE & 2ND SHAFT, DRUM & PLUG
2	1	M365-502-47	ASSY – CLUTCH PISTON & SEALS – INCLUDES ITEM 3 & 4
3	1	M365-502-48	SEAL – CLUTCH PISTON – OUTER – PART OF ITEM 2
4	1	M365-502-49	SEAL – CLUTCH PISTON – INNER – PART OF ITEM 2
5	1	M365-502-64	ASSY – CLUTCH PISTON – INCLUDES ITEM 6 & 7
6	1	M365-502-48	SEAL – CLUTCH PISTON – OUTER – PART OF ITEM 5
7	1	M365-502-49	SEAL – CLUTCH PISTON – INNER – PART OF ITEM 5
8	8	M365-502-50	DISC – CLUTCH INNER REV
9	6	M365-502-50	DISC – CLUTCH INNER 2ND
10	8	M365-502-51	DISC – CLUTCH OUTER REV
11	6	M365-502-51	DISC – CLUTCH OUTER 2ND
12	1	M365-502-52	SPACER – PISTON RETURN SPRING REV CLUTCH
13	2	M365-502-53	END PLATE
14	2	M365-502-54	SNAP RING – BACKING PLATE
15	1	M365-502-65	SPRING – PISTON RETURN 2ND CLUTCH
16	1	M365-502-66	RETAINER – SPRING 2ND CLUTCH
17	1	M365-502-55	ASSY – DISC SPRING – INCLUDES 5 WASHERS
18	1	M350-501-94	SNAP RING – SPRING RETAINING 2ND CLUTCH
19	1	M350-501-95	BEARING – CLUTCH DRIVEN GEAR
20	1	M350-501-78	BEARING – CLUTCH DRIVEN GEAR
21	2	M365-502-67	RING – CLUTCH GEAR BEARING RETAINING
22	1	M365-501-08	BALL - BEARING
23	1	M350-501-74	RING – FRONT BEARING RETAINING
24	1	M350-500-67	SNAP RING – FRONT BEARING
25	3	M350-501-73	PISTON - RING

Item	Qty	Part Number	Description
26	1	M365-502-56	SNAP RING – SPRING RETAINING REV CLUTCH
27	1	M365-502-68	HUB – 2ND CLUTCH
28	1	M365-502-69	RING – 2ND CLUTCH DISC HUB RETAINING
29	1	M365-502-70	BEARING – REVERSE & 2ND SHAFT REAR
30	1	M365-502-71	SPACER – CLUTCH DRIVEN GEAR BEARING
31	1	M365-502-43	GEAR – REVERSE CLUTCH

Dry Systems® Technologies

M365-502-01

GROUP – REVERSE IDLER



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M365-502-01

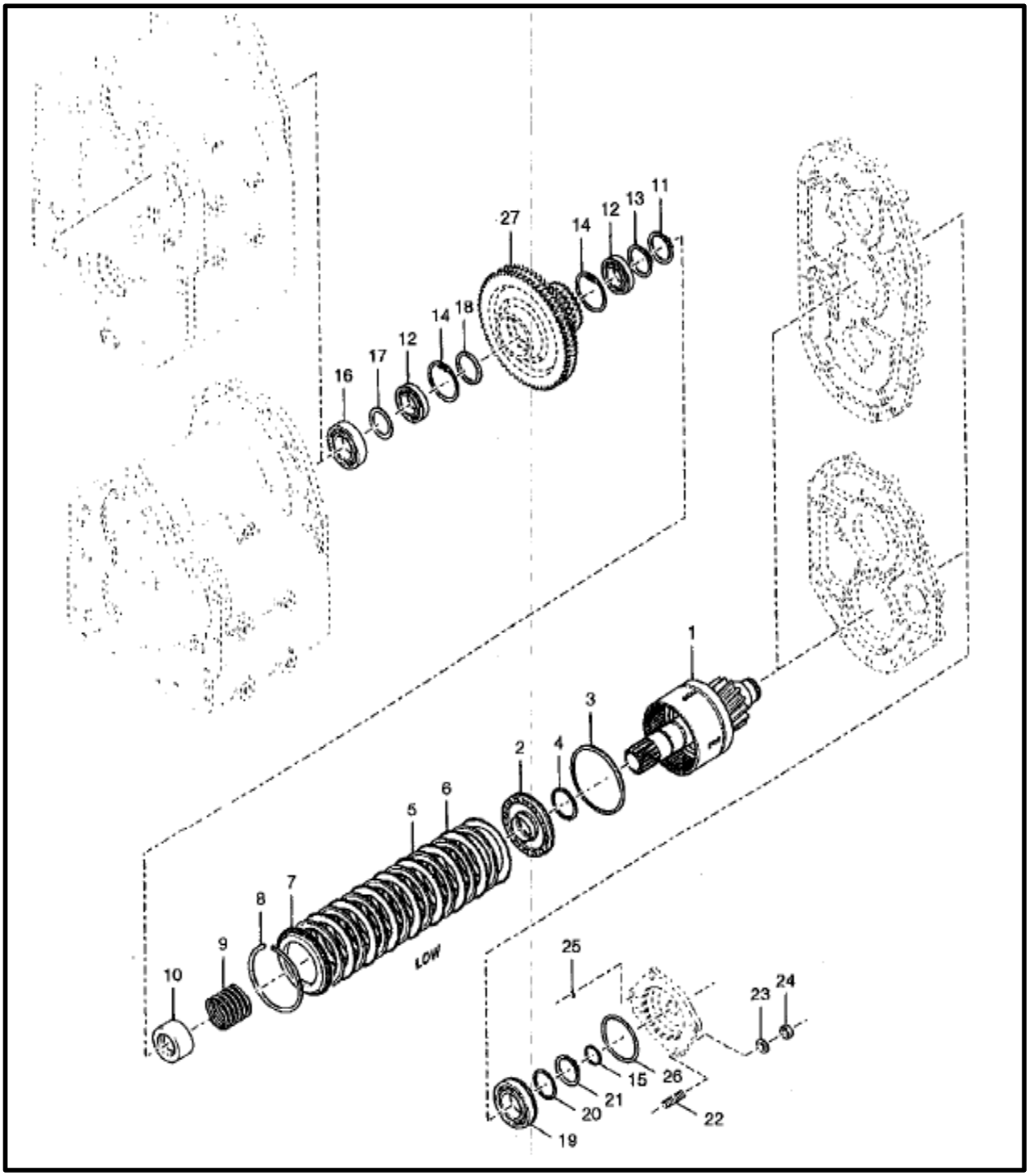
GROUP – REVERSE IDLER

Item	Qty	Part Number	Description
1	1	M365-502-72	SHAFT – REVERSE IDLER
2	1	M365-502-73	ASSY – REVERSE IDLER GEAR BEARING
3	1	M365-502-74	WASHER
4	1	M365-502-75	NUT – BEARING RETAINER
5	1	M365-502-76	WASHER – BEARING RETAINER
6	1	M365-502-77	LOCKBALL – IDLER SHAFT
7	1	M365-502-78	GEAR – REVERSE IDLER
8	1	M365-502-79	O-RING – IDLER SHAFT

Dry Systems® Technologies

M365-502-01

GROUP – LOW SPEED SHAFT



Dry Systems® Technologies

M365-502-01

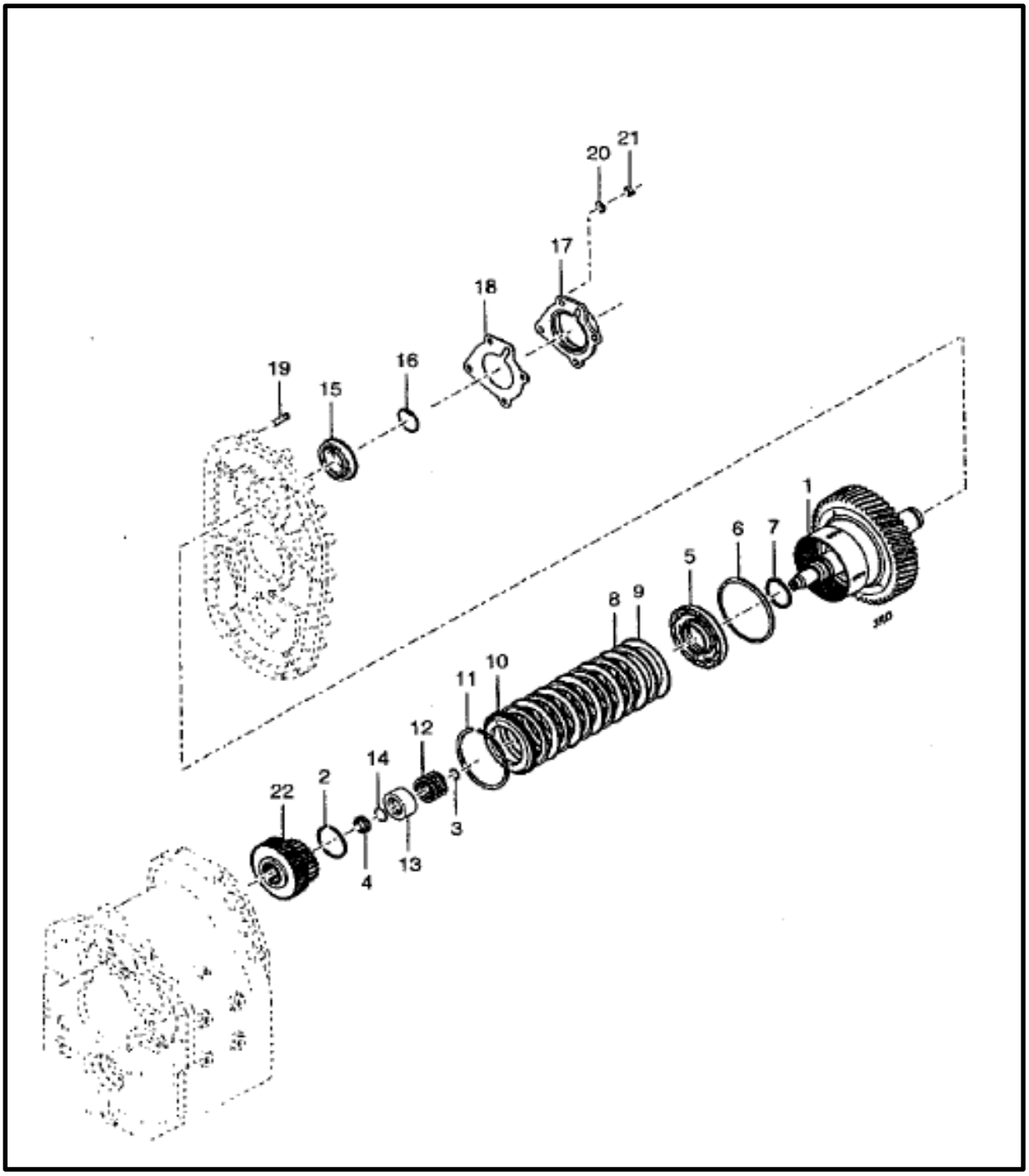
GROUP – LOW SPEED SHAFT

Item	Qty	Part Number	Description
1	1	M365-502-80	ASSY – LOW CLUTCH SHAFT DRUM & BLEED VALVE
2	1	M365-502-47	ASSY – CLUTCH PISTON & SEALS – INCLUDES ITEMS 3 & 4
3	1	M365-502-48	SEAL – CLUTCH PISTON – OUTER – PART OF ITEM 2
4	1	M365-502-49	SEAL – CLUTCH PISTON – INNER – PART OF ITEM 2
5	8	M365-502-81	DISC – CLUTCH INNER
6	8	M365-502-51	DISC – CLUTCH OUTER
7	1	M365-502-53	END PLATE
8	1	M365-502-54	RING – BACKING PLATE RETAINER
9	1	M365-502-65	SPRING – PISTON RETURN
10	1	M365-502-66	RETAINER – SPRING
11	1	M350-501-94	SNAP RING – SPRING RETAINER
12	2	M365-502-82	BEARING – LOW SPEED GEAR
13	1	M365-502-69	RING – LOW GEAR BEARING RETAINING
14	2	M365-502-83	RING – LOW SPEED GEAR BEARING LOCATING
15	1	M365-502-84	RING – LOW SHAFT PISTON
16	1	M365-502-85	BEARING - BALL
17	1	M365-502-86	SPACER – LOW SPEED SHAFT FRONT BEARING
18	1	M365-502-87	SPACER – LOW SPEED GEAR
19	1	M365-502-88	BEARING
20	1	M365-502-89	WASHER – REAR BEARING SUPPORT
21	1	M365-502-69	RING – REAR BEARING RETAINER
22	4	M365-502-90	STUD – BEARING CAP
23	4	M350-500-71	LOCKWASHER – BEARING CAP STUD
24	4	M365-502-91	NUT – BEARING CAP STUD
25	1	M365-502-92	O-RING – REAR BEARING CAP
26	1	M365-502-93	O-RING – REAR BEARING CAP
27	1	M365-502-44	GEAR – LOW CLUTCH

Dry Systems® Technologies

M365-502-01

GROUP – 3RD SHAFT



Dry Systems® Technologies

M365-502-01

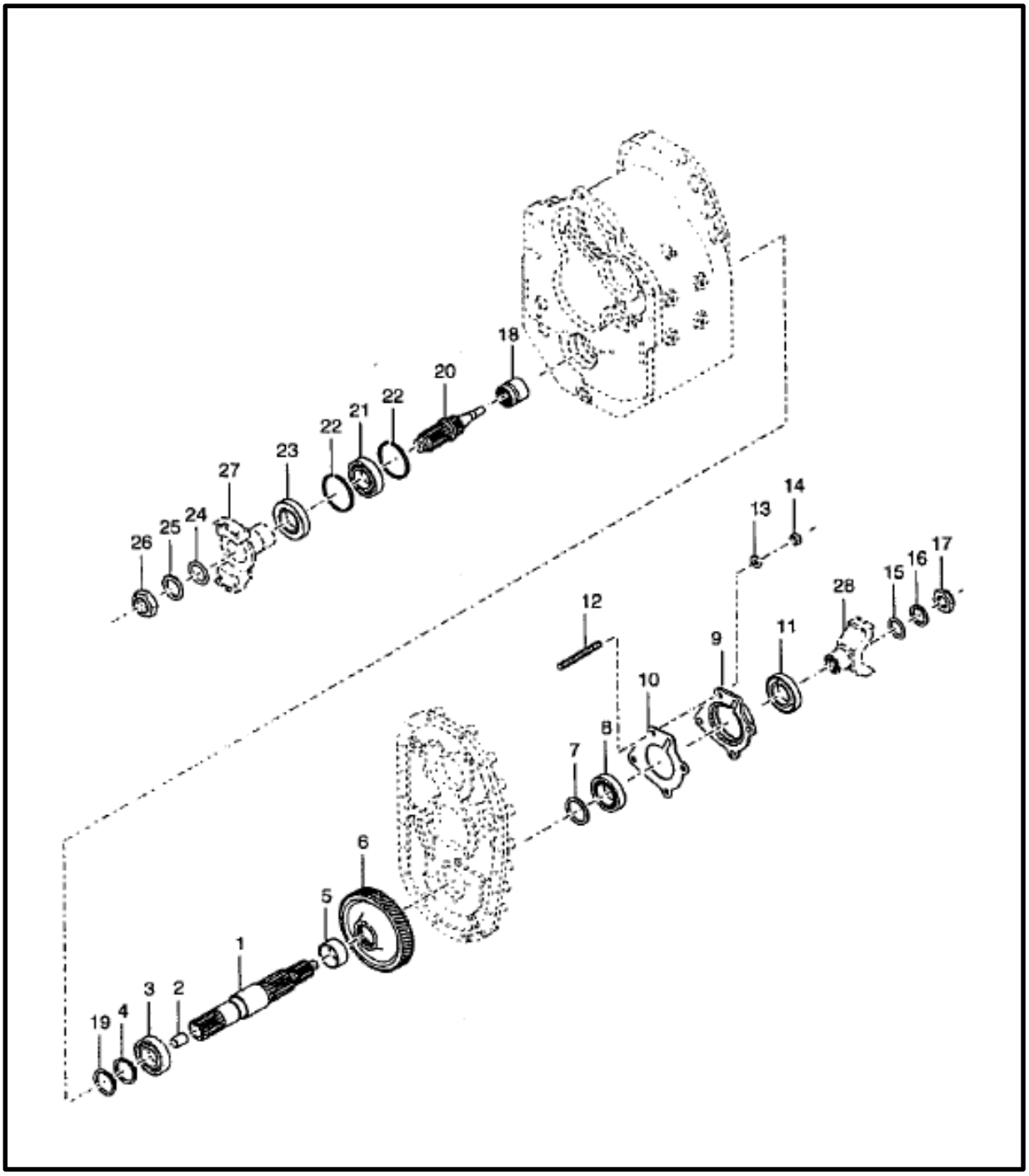
GROUP – 3RD SHAFT

Item	Qty	Part Number	Description
1	1	M365-502-94	ASSY – 3RD CLUTCH SHAFT, DRUM & HUB
2	1	M365-502-95	RING – 3RD CLUTCH GEAR & HUB RETAINING
3	1	M365-502-84	RING – 3RD SHAFT PISTON
4	1	M365-502-96	BEARING – 3RD SHAFT PILO
5	1	M365-502-64	ASSY – CLUTCH PISTON & SEALS – INCLUDES ITEM 6 & 7
6	1	M365-502-48	SEAL – CLUTCH PISTON – OUTER – PART OF ITEM 5
7	1	M365-502-49	SEAL – CLUTCH PISTON – INNER – PART OF ITEM 5
8	6	M365-502-50	DISC – CLUTCH INNER
9	6	M365-502-51	DISC – CLUTCH OUTER
10	1	M365-502-53	END PLATE
11	1	M365-502-54	SNAP RING
12	1	M365-502-65	SPRING – PISTON RETURN
13	1	M365-502-66	RETAINER - SPRING
14	1	M350-501-94	RING – SPRING RETAINER SNAP
15	1	M365-502-97	BEARING - BALL
16	1	M350-501-74	RING – 3RD SHAFT REAR BEARING RETAINING
17	1	M365-502-98	CAP – 3RD SHAFT REAR BEARING
18	1	M365-502-99	GASKET – 3RD SHAFT BEARING CAP
19	4	M365-502-100	STUD – REAR BEARING CAP
20	4	M350-500-31	LOCKWASHER – REAR BEARING CAP STUD
21	4	M365-502-101	NUT – REAR BEARING CAP STUD
22	1	M365-502-45	GEAR – 3RD CLUTCH

Dry Systems® Technologies

M365-502-01

GROUP – OUTPUT SHAFT



Dry Systems® Technologies

M365-502-01

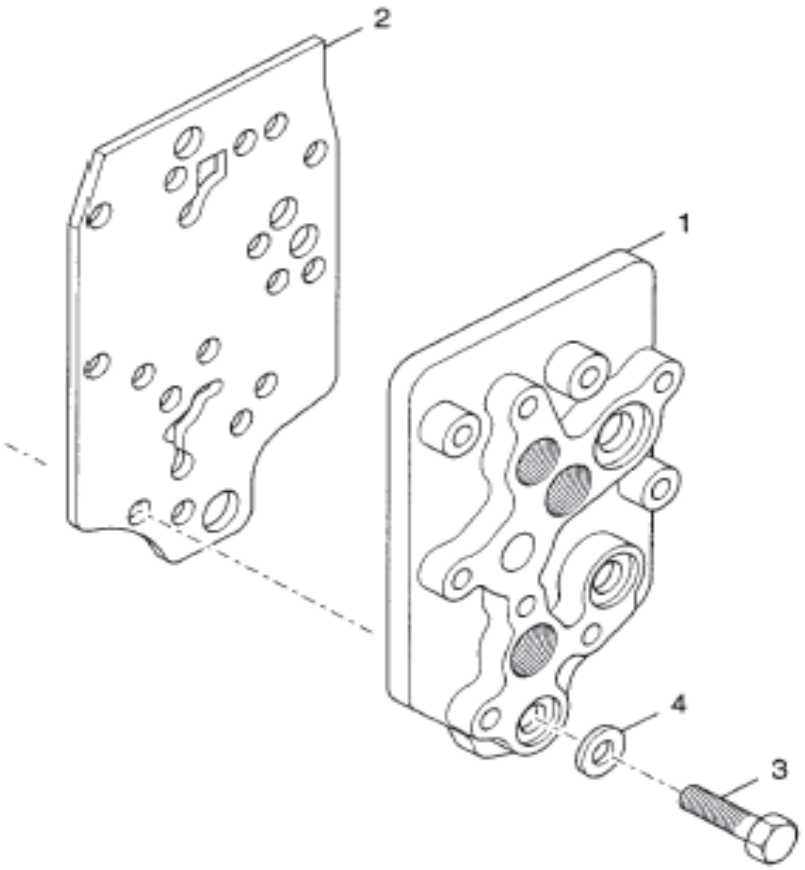
GROUP – OUTPUT SHAFT

Item	Qty	Part Number	Description
1	1	M365-502-102	ASSY – OUTPUT SHAFT & BUSHING – INCLUDES ITEM 2
2	1	M365-502-103	BUSHING – PART OF ITEM 1
3	1	M365-502-104	BEARING
4	1	M365-502-105	BEARING RETAINING RING
5	1	M365-502-106	SPACER – OUTPUT SHAFT GEAR
6	1	M365-502-107	GEAR – OUTPUT SHAFT
7	1	M365-502-108	SPACER – OUTPUT SHAFT
8	1	M365-502-109	BEARING
9	1	M365-502-110	REAR BEARING CAP
10	1	M365-502-111	GASKET - BEARING CAP
11	1	M365-502-112	OIL - SEAL
12	4	M365-502-113	STUD – BEARING CAP
13	4	M350-501-147	LOCKWASHER
14	4	M365-502-114	STUD NUT
15	1	M508-550-01	O-RING
16	1	M508-548-01	WASHER - FLANGE
17	1	M508-549-01	LOCK NUT
18	1	M365-502-115	COUPLING - DRIVE
19	1	M365-502-105	BEARING RETAINING RING
20	1	M365-502-116	SHAFT - DISCONNECT
21	1	M365-502-117	BALL BEARING
22	2	M350-501-25	SNAP RING
23	1	M365-502-118	OIL SEAL
24	1	M365-502-119	O-RING
25	1	M365-502-120	WASHER - FLANGE
26	1	M365-502-121	NUT - FLANGE
27	1	M365-502-02	FLANGE – FRONT - OUTPUT
28	1	M507-655-01	FLANGE – REAR - OUTPUT

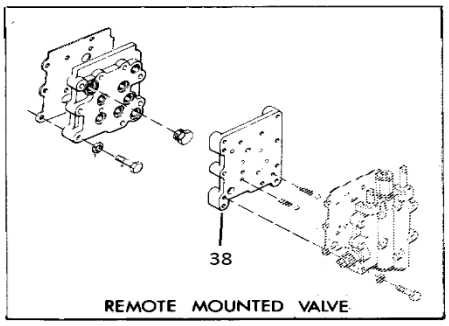
Dry Systems® Technologies

M365-502-01

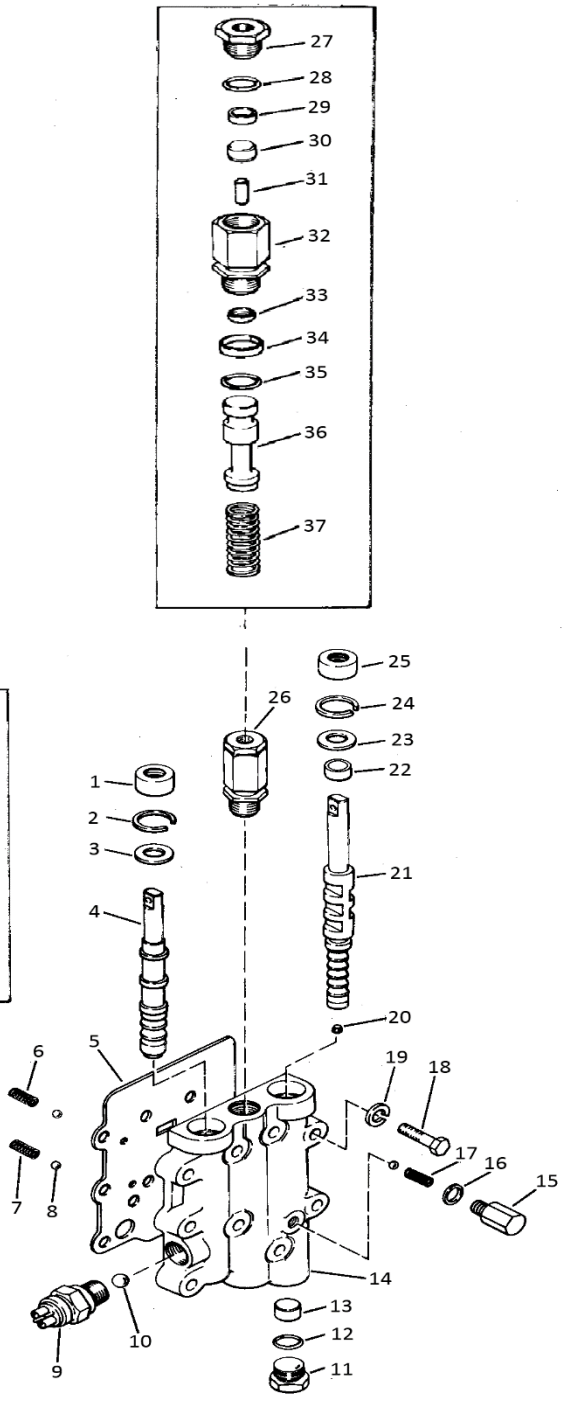
GROUP – ADAPTER PLATE



Item	Qty	Part Number	Description
1	1	M365-502-129	PLATE – CONTROL VALVE ADAPTER
2	1	M365-502-130	GASKET – CONTROL VALVE TO HOUSING
3	9	M365-502-131	SCREW – ADAPTER PLATE MOUNTING
4	9	M350-500-31	LOCKWASHER – ADAPTER PLATE MOUNTING SCREW



REMOTE MOUNTED VALVE



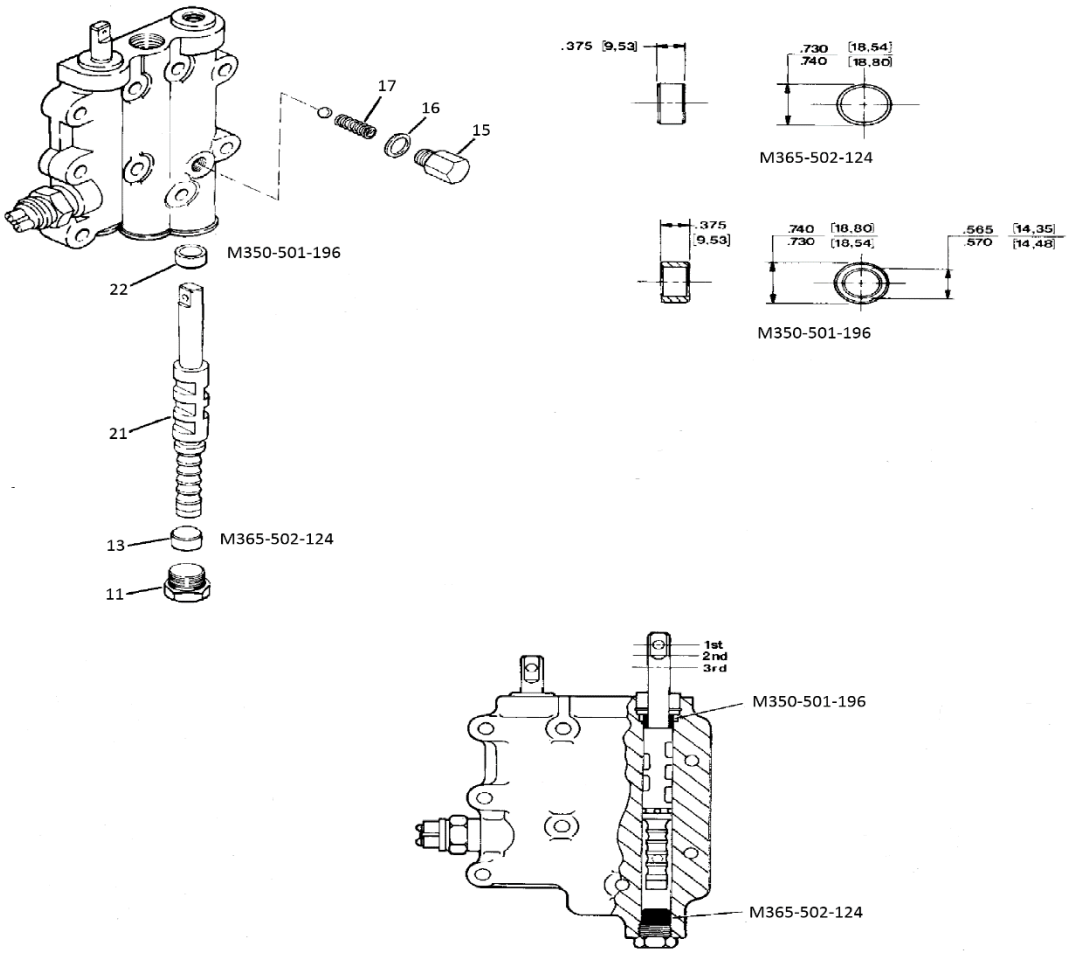
NOTE:

Speed selector spacers (items 13 and 22) and the Declutch valve (item 26) are not included when the Control valve housing assembly (item 14) is ordered.

When ordering the control valve housing assembly (item 14) from the service parts list also order the spacers listed as items 13 and 22 and the Declutch valve, spool and spring needed. NOTE: This application requires 2 spacers (item 13 and 22).

See information charted on next page.

Refer to service parts list for the correct spacers and declutch valve to be ordered.



SPACER INSTALLATION

1. Remove detent spring plug (item 15), washer (item 16), detent spring (item 17) and detent ball.
2. Remove valve housing plug (item 11).
3. Remove speed selector spool (item 21) from valve housing.
4. Position spacer no. 22 part no M350-501-196 over end of speed selector that has the hole for the control lever linkage pin.
5. Install speed selector and spacer in valve housing. Caution: Do not cut lip of oil seal or turn lip under when inserting selector spool through oil seal.
6. Install spacer item no 13 part no M365-502-124 in speed selector bore.
7. Install valve housing plug (item 11). Tighten securely.
8. Install detent ball, detent spring (item 17), washer (item 16) and detent spring plug (item 15) Tighten plug securely.

Dry Systems® Technologies

M365-502-01

GROUP – CONTROL VALVE ASSEMBLY

Item	Qty	Part Number	Description
1	1	M350-501-180	VALVE SPOOL OIL SEAL
2	1	M350-501-181	VALVE SPOOL OIL SEAL RETAINER RING
3	1	M350-501-182	VALVE SPOOL OIL SEAL WASHER
4	1	M350-501-183	FORWARD & REVERSE VALVE SPOOL
5	1	M350-501-184	CONTROL VALVE GASKET
6	1	M365-502-122	DETENT SPRING
7	1	M365-502-122	DETENT SPRING
8	3	M350-501-186	DETENT BALL
9	1	M365-502-123	NEUTRAL SWITCH
10	1	M350-501-186	NEUTRAL SWITCH DETENT BALL
11	1	M350-501-188	VALVE HOUSING PLUG
12	1	M350-501-176	VALVE HOUSING PLUG O-RING
13	1	M365-502-124	OVERSHIFT SPACER
14	1	M350-501-190	CONTROL VALVE HOUSING ASSY – INCLUDES ITEMS 1, 2, 3 4, 9, 10, 11, 12, 20, 21, 23, 24, 25
15	1	M350-501-191	DETENT SPRING PLUG
16	1	M350-501-192	DETENT SPRING PLUG WASHER
17	1	M365-502-122	DETENT SPRING
18	9	M350-500-38	VALVE TO CONVERTOR HOUSING SCREW
19	9	M350-500-31	VALVE TO CONVERTOR HOUSING SCREW LOCKWASHER
20	1	M350-501-194	SPEED SELECTOR SPOOL PIPE PLUG
21	1	M350-501-195	SPEED SELECTOR SPOOL – INCLUDES ITEM 20
22	1	M350-501-196	OVERSHIFT SPACER
23	1	M350-501-182	VALVE SPOOL OIL SEAL WASHER
24	1	M350-501-181	VALVE SPOOL OIL SEAL RETAINER RING
25	1	M350-501-180	VALVE SPOOL OIL SEAL

Item	Qty	Part Number	Description
26	1	M365-502-125	HYDRAULIC PISTON HOUSING – INCLUDES ITEMS 27, 28, 29, 30, 31, 32, 33, 34, 35
27	1	M365-502-126	STOP PLUG
28	1	M350-501-200	STOP PLUG O-RING
29	1	M365-502-127	PISTON CUP
30	1	M350-501-202	PISTON CUP SPACER
31	1	M365-502-128	PUSH PIN
32		N.S.S.	HYDRAULIC PISTON HOUSING – SEE ITEM 26
33	1	M350-501-203	OIL SEAL
34	1	M350-501-204	BAND SEAL
35	1	M350-501-205	PISTON HOUSING O-RING
36	1	M350-501-206	VALVE SPOOL
37	1	M350-501-207	VALVE SPOOL SPRING
38	1	M350-501-208	CONTROL VALVE MOUNTING PLATE

N.S.S – Not Sold Separately