

PARTS LIST FOR SDR10S SERIES DRILLS **REVERSING SINGLE REDUCTION** **SERIAL "B"**

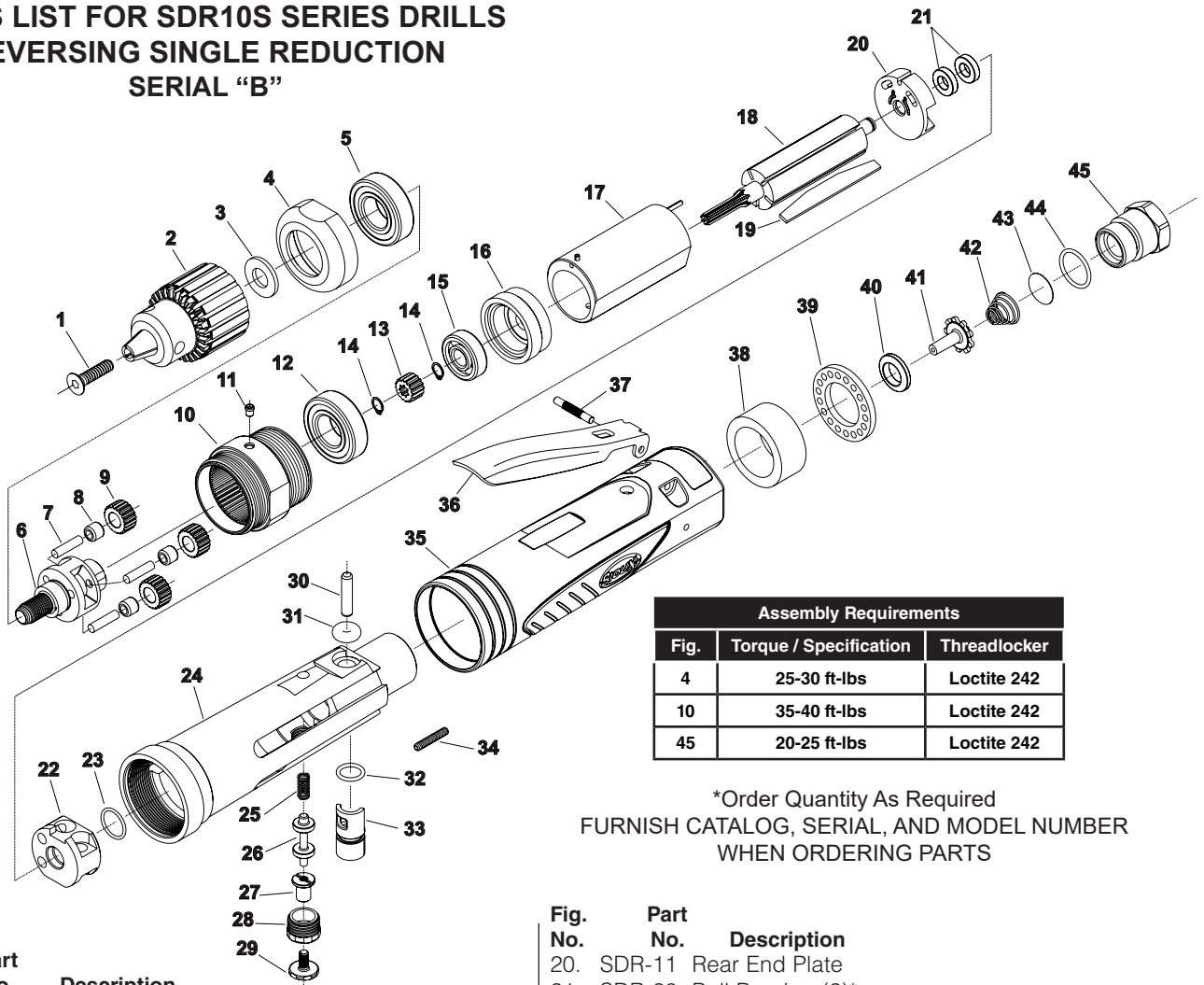


Fig. No.	Part No.	Description
1.	57250	Chuck Screw (1/4" Chuck)
	57250R	Chuck Screw (3/8" & 1/2" Chuck)
2.	21019B	1/4" Chuck (for model numbers ending with 2)
	21133B	3/8" Chuck (for model numbers ending with 3)
	74222	1/2" Chuck (for model numbers ending with 4)
3.	ME5A72	Washer (for model numbers ending with 2 or 3)
	35798	Washer (for model numbers ending with 4)
4.	SDR-43	Gear Case Cap
5.	10265	Ball Bearing
6.	SDR-61	Gear Carrier (2000 RPM)(3/8" thread)
	SDR-62	Gear Carrier (2500 RPM)(3/8" thread)
	SDR-63	Gear Carrier (4000 RPM)(3/8" thread)
	SDR-64	Gear Carrier (2000 RPM)(1/2" thread)
7.	SDR-24	Pin (3)*(2000 & 2500 RPM)
	30062	Pin (3)*(4000 RPM)
8.	10028B	Needle Bearing (3)*(2000 & 2500 RPM)
	10040	Needle Bearing (3)*(4000 RPM)
9.	SDR-44	Planetary Gear (3)*(2000 RPM)
	SDR-45	Planetary Gear (3)*(2500 RPM)
	SDR-46	Planetary Gear (3)*(4000 RPM)
10.	SDR-40	Single Reduction Gear Case (Includes Fig 11)
11.	30375	Grease Fitting
12.	ME11A33A	Ball Bearing
13.	SDR-47	Sun Gear (4000 RPM only)
14.	79126	Retaining Ring (4000 & 6000 RPM only) (2)*
15.	10220	Ball Bearing
16.	SDR-80	Front End Plate
17.	SP74130	Cylinder, Reversing
18.	SDR-7	Rotor (7 tooth)(2000 & 4000 RPM)
	SDR-8	Rotor (10 tooth)(2500 RPM)
19.	SP74048	Vane Set

Form ZCE774A

Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
4	25-30 ft-lbs	Loctite 242
10	35-40 ft-lbs	Loctite 242
45	20-25 ft-lbs	Loctite 242

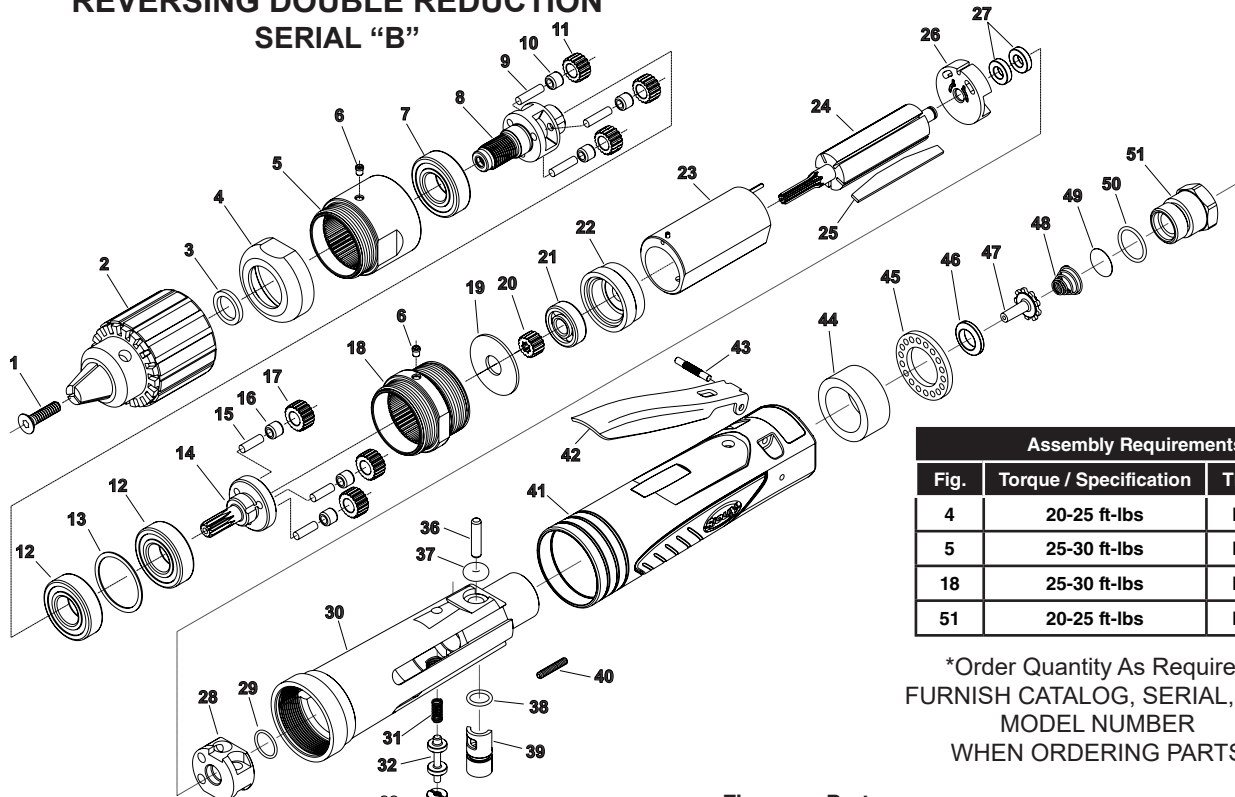
*Order Quantity As Required
FURNISH CATALOG, SERIAL, AND MODEL NUMBER
WHEN ORDERING PARTS

Fig. No.	Part No.	Description
20.	SDR-11	Rear End Plate
21.	SDR-26	Ball Bearing (2)*
22.	SDR-82	Rapid Reverse Insert
23.	69007	O-ring
24.	SDR-81	Straight Reversing Housing
25.	SDR-84	Reversing Spring
26.	SDR-83	Reverse Valve Spool
27.	SDR-88	Top Reverse Button
28.	SDR-85	Top Reverse Nut
29.	SDR-86	Top Reverse Cap
30.	74018	Torr Pin, 3/16 X 7/8
31.	67793	O-ring
32.	14290	O-ring
33.	74013	Regulator
34.	06402	Screw, 6-32 X 3/4 Set Soc Hex
35.	74103	Cover
36.	SDR-5	Lever
37.	74020	Knurl Pin
38.	74016	Muffler
39.	74017	Exhaust Deflector
40.	74008	Throttle Valve Seat
41.	74009	Throttle Valve
42.	74010	Taper Spring
43.	74011	Screen
44.	14281B	O-ring, 1/16 X 5/8 X 3/4
45.	74012	Inlet Bushing

Not Shown:

SDR-15	Bail
30000	Chuck Key 1/4"
30002	Chuck Key 3/8"
30429	Chuck Key 1/2"
77067A	Support Handle Assembly

PARTS LIST FOR SDR10S SERIES DRILLS **REVERSING DOUBLE REDUCTION** **SERIAL "B"**



Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
4	20-25 ft-lbs	Loctite 242
5	25-30 ft-lbs	Loctite 242
18	25-30 ft-lbs	Loctite 242
51	20-25 ft-lbs	Loctite 242

*Order Quantity As Required
 FURNISH CATALOG, SERIAL, AND
 MODEL NUMBER
 WHEN ORDERING PARTS

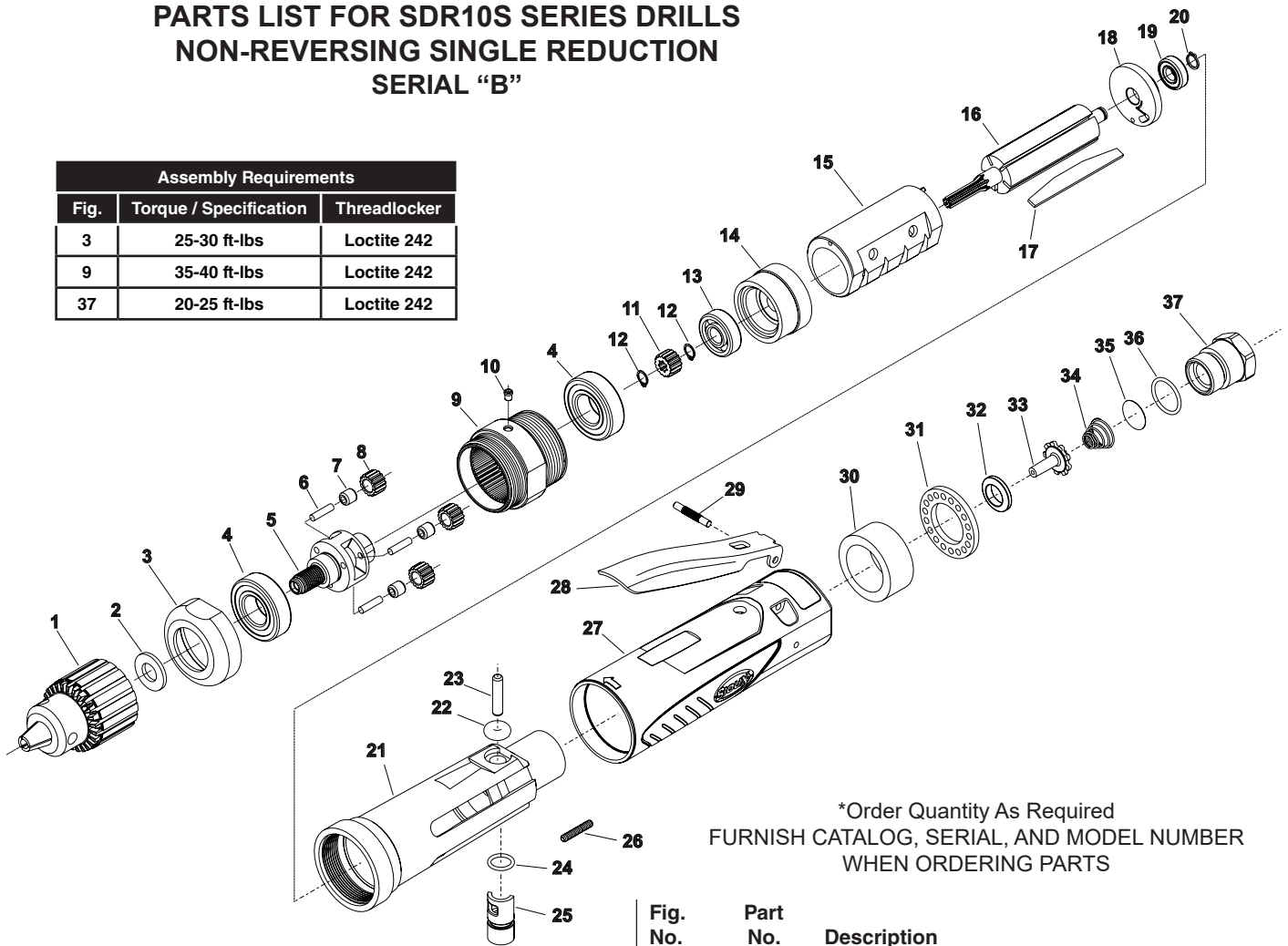
Fig. No.	Part No.	Description
1.	57250	Chuck Screw (1/4" Chuck)
	57250R	Chuck Screw (3/8" & 1/2" Chuck)
2.	21131	3/8" Chuck (for model numbers ending with 3)
	74222	1/2" Chuck (for model numbers ending with 4)
3.	35798	Washer
4.	SDR-43	Gear Case Cap
5.	SDR-42	Double Reduction Gear Case (Includes Figure 6)
6.	30375	Grease Fitting (2)*
7.	10265	Ball Bearing
8.	SDR-65	Gear Carrier (1/2" thread)(300, 700 & 500 RPM)
	SDR-68	Gear Carrier (1/2" thread)(1200 RPM)
9.	SDR-24	Pin (3)*(300, 700 & 500 RPM)
	30062	Pin (3)*(1200 RPM)
10.	10028FC	Needle Bearing (3)*(300, 700 & 500 RPM)
	10040	Needle Bearing (3)*(1200 RPM)
11.	SDR-45	Planetary Gear (3)*(300, 700 & 500 RPM)
	SDR-46	Planetary Gear (3)*(1200 RPM)
12.	ME11A33A	Ball Bearing (2)*
13.	SDR-27	Spacer
14.	SDR-36	Cantilevered Gear Carrier (700 RPM)
	SDR-37	Cantilevered Gear Carrier (500 RPM)
	SDR-38	Cantilevered Gear Carrier (300 RPM)
	SDR-39	Cantilevered Gear Carrier (1200 RPM)
15.	SDR-24	Pin (3)*(300 & 500 RPM)
	30062	Pin (3)*(700 & 1200 RPM)
16.	10028B	Needle Bearing (3)*(300 & 500 RPM)
	10040	Needle Bearing (3)*(700 & 1200 RPM)
17.	SDR-44	Planetary Gear (3)*(300 RPM)
	SDR-45	Planetary Gear (3)*(500 RPM)
	SDR-46	Planetary Gear (3)*(700 & 1200 RPM)
18.	SDR-41	First Reduction Gear Case (Includes Figure 6)
19.	SDR-29	Wear Plate
20.	SDR-47	Sun Gear (700 & 1200 RPM)
21.	10220	Ball Bearing
22.	SDR-80	Front End Plate

Fig. No.	Part No.	Description
23.	SP74130	Cylinder, Reversing
24.	SDR-7	Rotor (7 tooth)(300, 700 & 1200 RPM)
	SDR-8	Rotor (10 tooth)(500 RPM)
25.	SP74048	Vane Set
26.	SDR-11	Rear End Plate
27.	SDR-26	Ball Bearing (2)*
28.	SDR-82	Rapid Reverse Insert
29.	69007	O-ring
30.	SDR-81	Straight Reversing Housing
31.	SDR-84	Reversing Spring
32.	SDR-83	Reverse Valve Spool
33.	SDR-88	Top Reverse Button
34.	SDR-85	Top Reverse Nut
35.	SDR-86	Top Reverse Cap
36.	74018	Torr Pin, 3/16 X 7/8
37.	67793	O-ring
38.	14290	O-ring
39.	74013	Regulator
40.	06402	Screw, 6-32 X 3/4 Set Soc Hex
41.	74103	Cover
42.	SDR-5	Lever
43.	74020	Knurl Pin
44.	74016	Muffler
45.	74017	Exhaust Deflector
46.	74008	Throttle Valve Seat
47.	74009	Throttle Valve
48.	74010	Taper Spring
49.	74011	Screen
50.	14281B	O-ring, 1/16 X 5/8 X 3/4
51.	74012	Inlet Bushing

Not Shown:
 77067A Support Handle Assembly
 SDR-15 Bail
 30011B Chuck Key 3/8"
 30429 Chuck Key 1/2"
 77067A Support Handle Assembly

PARTS LIST FOR SDR10S SERIES DRILLS
NON-REVERSING SINGLE REDUCTION
SERIAL "B"

Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
3	25-30 ft-lbs	Loctite 242
9	35-40 ft-lbs	Loctite 242
37	20-25 ft-lbs	Loctite 242



*Order Quantity As Required
FURNISH CATALOG, SERIAL, AND MODEL NUMBER
WHEN ORDERING PARTS

Fig. No.	Part No.	Description
1.	21019B 21133B 74222	1/4" Chuck (for model numbers ending with 2) 3/8" Chuck (for model numbers ending with 3) 1/2" Chuck (for model numbers ending with 4)
2.	ME5A72 35798	Washer (for model numbers ending with 2 or 3) Washer (for model numbers ending with 4)
3.	SDR-43	Gear Case Cap
4.	10265	Ball Bearing (2)*
5.	SDR-60 SDR-62 SDR-63NR SDR-64	Gear Carrier (2600 RPM)(3/8" thread) Gear Carrier (4000 RPM)(3/8" thread) Gear Carrier (6000 RPM)(3/8" thread) Gear Carrier (2600 RPM)(1/2" thread)
6.	SDR-24 30062	Pin (3)*(2600 & 4000 RPM) Pin (3)*(6000 RPM)
7.	10028B 10040	Needle Bearing (3)*(2600 & 4000 RPM) Needle Bearing (3)*(6000 RPM)
8.	SDR-44 SDR-45 SDR-46	Planetary Gear (3)*(2600 RPM) Planetary Gear (3)*(4000 RPM) Planetary Gear (3)*(6000 RPM)
9.	SDR-40	Single Reduction Gear Case (Includes Fig 10)
10.	30375	Grease Fitting
11.	SDR-47	Sun Gear (6000 RPM only)
12.	79126	Retaining Ring (4000 & 6000 RPM only) (2)*
13.	10220	Ball Bearing
14.	SDR-50	Front End Plate
15.	74030	Cylinder, Non-Reversing
16.	SDR-7 SDR-8	Rotor (7 tooth)(2600 & 6000 RPM) Rotor (10 tooth)(4000 RPM)
17.	SP74048	Vane (Set of 5)
18.	74023	Rear End Plate
19.	10253	Ball Bearing

Fig. No.	Part No.	Description
20.	21491	Retaining Ring
21.	SDG-1	Straight Non-Reversing Housing
22.	67793	O-Ring
23.	74018	Torr Pin, 3/16 X 7/8
24.	14290	O-Ring
25.	74013	Regulator
26.	06402	Screw, 6-32 X 3/4 Set Soc Hex
27.	74004	Cover
28.	SDR-5	Lever
29.	74020	Knurl Pin
30.	74016	Muffler
31.	74017	Exhaust Deflector
32.	74008	Throttle Valve Seat
33.	74009	Throttle Valve
34.	74010	Taper Spring
35.	74011	Screen
36.	14281B	O-Ring, 1/16 X 5/8 X 3/4
37.	74012	Inlet Bushing

Complete Assemblies:

SPSDR-7SA	7 Tooth Rotor Motor Assembly (2600 & 6000 RPM) (Includes Figures 12-19)
SPSDR-8SA	10 Tooth Rotor Motor Assembly (4000 RPM) (Includes Figures 12-19)
SPSDR-18	1HP Non-Reversing Housing Assembly (Includes Figures 21-38)

Not Shown:

SDR-15	Bail
30000	Chuck Key 1/4"
30002	Chuck Key 3/8"
30429	Chuck Key 1/2"
77067A	Support Handle Assembly

PARTS LIST FOR SDR10S SERIES DRILLS **NON-REVERSING DOUBLE REDUCTION** **SERIAL "B"**

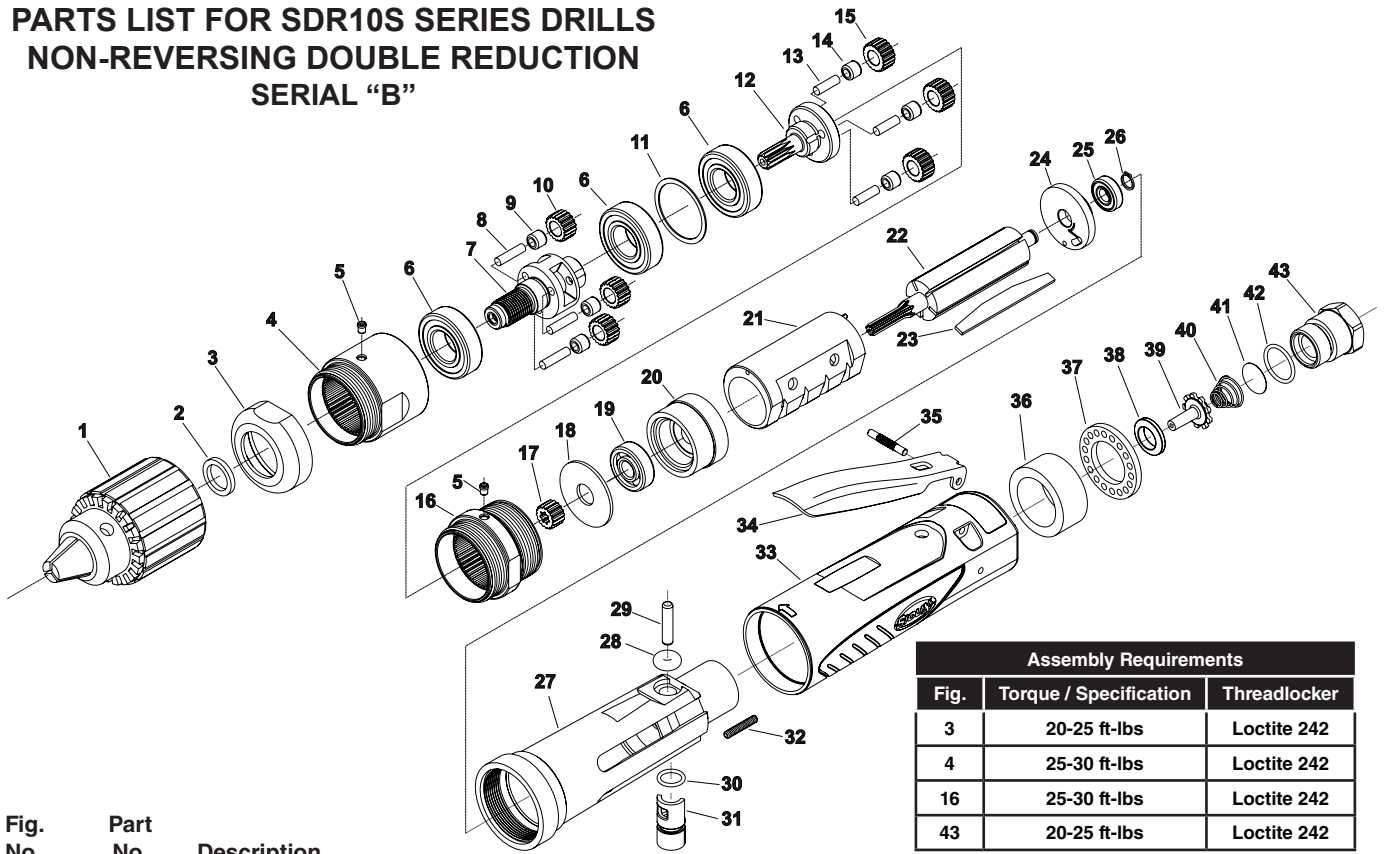


Fig. No.	Part No.	Description
1.	21133B	3/8" Chuck with 3/8" thread (1200 RPM)
	21131	3/8" Chuck with 1/2" thread (400, 700 RPM)
	74222	1/2" Chuck (for model numbers ending with 4)
2.	35798	Washer (400, 700 RPM)
	ME5A72	Washer (1200 RPM)
3.	SDR-43	Gear Case Cap
4.	SDR-42	Double Reduction Gear Case (Includes Fig. 5)
5.	30375	Grease Fitting (2)*
6.	10265	Ball Bearing (3)*
7.	SDR-65	Gear Carrier (1/2" thread)(400, 700 RPM)
	SDR-62	Gear Carrier (3/8" thread)(1200 RPM)
	SDR-68	Gear Carrier (1/2" thread)(1600 RPM)
8.	SDR-24	Pin (3)*(400, 700 RPM)
	30062	Pin (3)*(1200, 1600 RPM only)
9.	10028B	Needle Bearing (3)* (400, 700, 1200 RPM)
	10040	Needle Bearing (3)* (1600 RPM)
10.	SDR-45	Planetary Gear (3)*(400, 700, 1200 RPM)
	SDR-46	Planetary Gear (3)*(1600 RPM)
11.	SDR-27	Spacer
12.	SDR-36	Cantilevered Gear Carrier (1200 RPM)
	SDR-37	Cantilevered Gear Carrier (700 RPM)
	SDR-38	Cantilevered Gear Carrier (400 RPM)
	SDR-39	Cantilevered Gear Carrier (1600 RPM)
13.	SDR-24	Pin (3)*(400, 700 RPM)
	30062	Pin (3)*(1200, 1600 RPM only)
14.	10028B	Needle Bearing (3)* (400, 700 RPM)
	10040	Needle Bearing (3)*(1200, 1600 RPM)
15.	SDR-44	Planetary Gear (3)* (400 RPM)
	SDR-45	Planetary Gear (3)* (700 RPM)
	SDR-46	Planetary Gear (3)* (1200, 1600 RPM)
16.	SDR-41	Gear Case (Includes Fig. 5)
17.	SDR-47	Sun Gear (1200, 1600 RPM)
18.	SDR-29	Wear Plate
19.	10220	Ball Bearing
20.	SDR-50	Front End Plate
21.	74030	Cylinder, Non-Reversing
22.	SDR-7	Rotor (7 tooth)(400, 1200, 1600 RPM)
	SDR-8	Rotor (10 tooth)(700 RPM)

Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
3	20-25 ft-lbs	Loctite 242
4	25-30 ft-lbs	Loctite 242
16	25-30 ft-lbs	Loctite 242
43	20-25 ft-lbs	Loctite 242

Fig. No.	Part No.	Description
23.	SP74048	Vane (Set of 5)
24.	74023	Rear End Plate
25.	10253	Ball Bearing
26.	21491	Retaining Ring
27.	SDG-1	Straight Non-Reversing Housing
28.	67793	O-ring
29.	74018	Torr Pin, 3/16 X 7/8
30.	14290	O-Ring
31.	74013	Regulator
32.	06402	Screw, 6-32 X 3/4 Set Soc Hex
33.	74004	Cover
34.	SDR-5	Lever
35.	74020	Knurl Pin
36.	74016	Muffler
37.	74017	Exhaust Deflector
38.	74008	Throttle Valve Seat
39.	74009	Throttle Valve
40.	74010	Taper Spring
41.	74011	Screen
42.	14281B	O-Ring, 1/16 X 5/8 X 3/4
43.	74012	Inlet Bushing

Complete Assemblies:

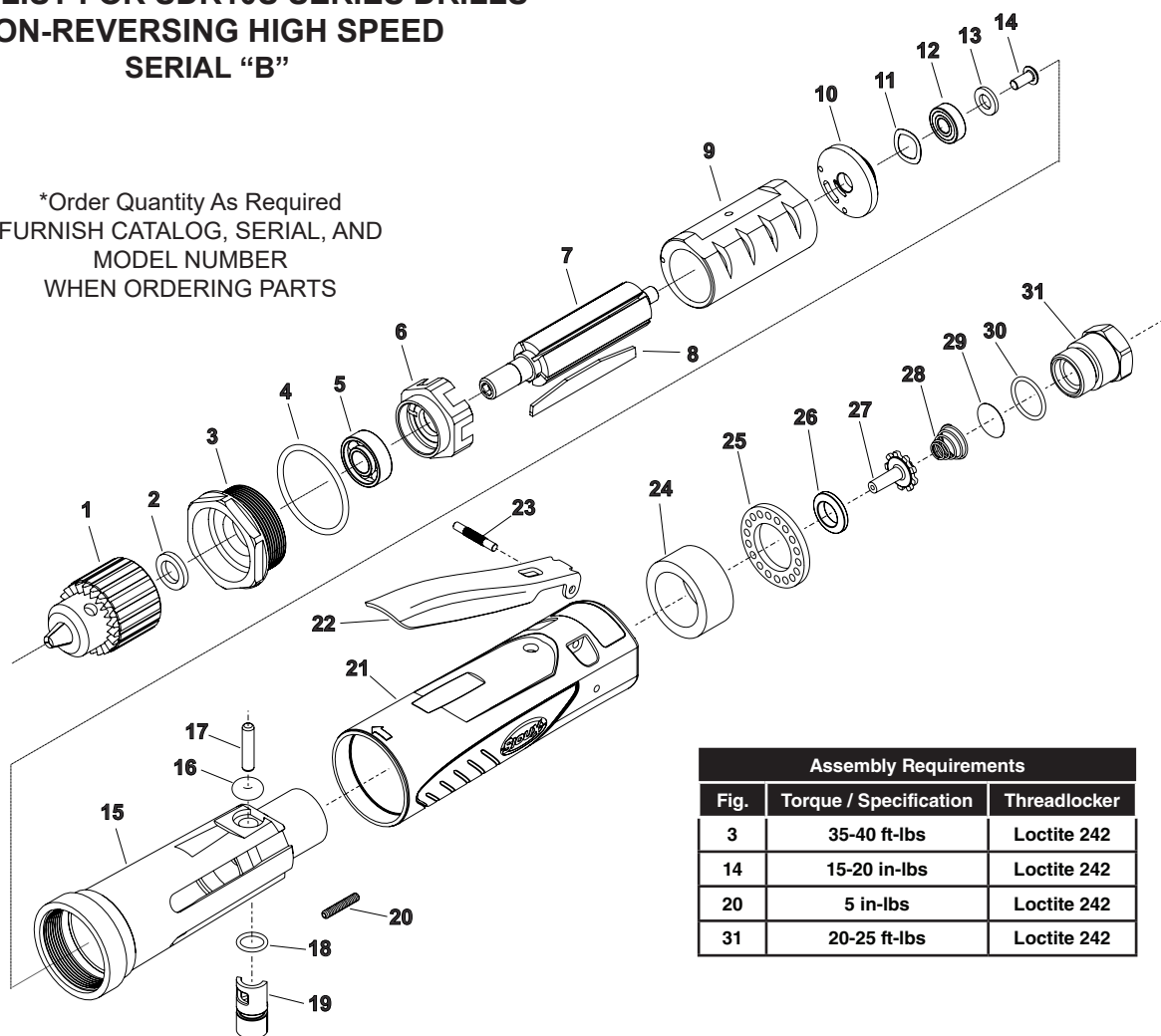
SPSDR-7SA	7 Tooth Rotor 1HP Motor Assembly (400, 1200, 1600 RPM)(Includes Figures 19-26)
SPSDR-8SA	10 Tooth Rotor Motor Assembly (700 RPM) (Includes Figures 19-26)
SPSDR-18	1HP Non-Reversing Housing Assembly (Includes Figures 27-44)

Not Shown:

SDR-15	Bail
30002	Chuck Key 3/8" (with 3/8" thread)
30011B	Chuck Key 3/8" (with 1/2" thread)
30429	Chuck Key 1/2"
77067A	Support Handle Assembly

PARTS LIST FOR SDR10S SERIES DRILLS **NON-REVERSING HIGH SPEED** **SERIAL "B"**

*Order Quantity As Required
 FURNISH CATALOG, SERIAL, AND
 MODEL NUMBER
 WHEN ORDERING PARTS



Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
3	35-40 ft-lbs	Loctite 242
14	15-20 in-lbs	Loctite 242
20	5 in-lbs	Loctite 242
31	20-25 ft-lbs	Loctite 242

Fig. Part **No. No. Description**

1.	21019B	Chuck
2.	44122	Chuck Spacer
3.	SDR-74	Motor Retainer
4.	14333B	O-Ring
5.	10257	Ball Bearing
6.	SDG-3	Front End Plate
7.	74026	Rotor
8.	SP74048	Vane (Set of 5)
9.	74030	Cylinder (21,000 RPM)
	74031	Cylinder (18,000 RPM)
10.	74023	Rear End Plate
11.	41338	Wave Washer
12.	10253	Ball Bearing
13.	74054	Washer
14.	74055	Screw #8-32 X 3/8 Button Hd Cap Screw
15.	SDG-1	Straight Non-Reversing Housing
16.	67793	O-ring
17.	74018	Torr Pin, 3/16 X 7/8
18.	14290	O-Ring
19.	74013	Regulator

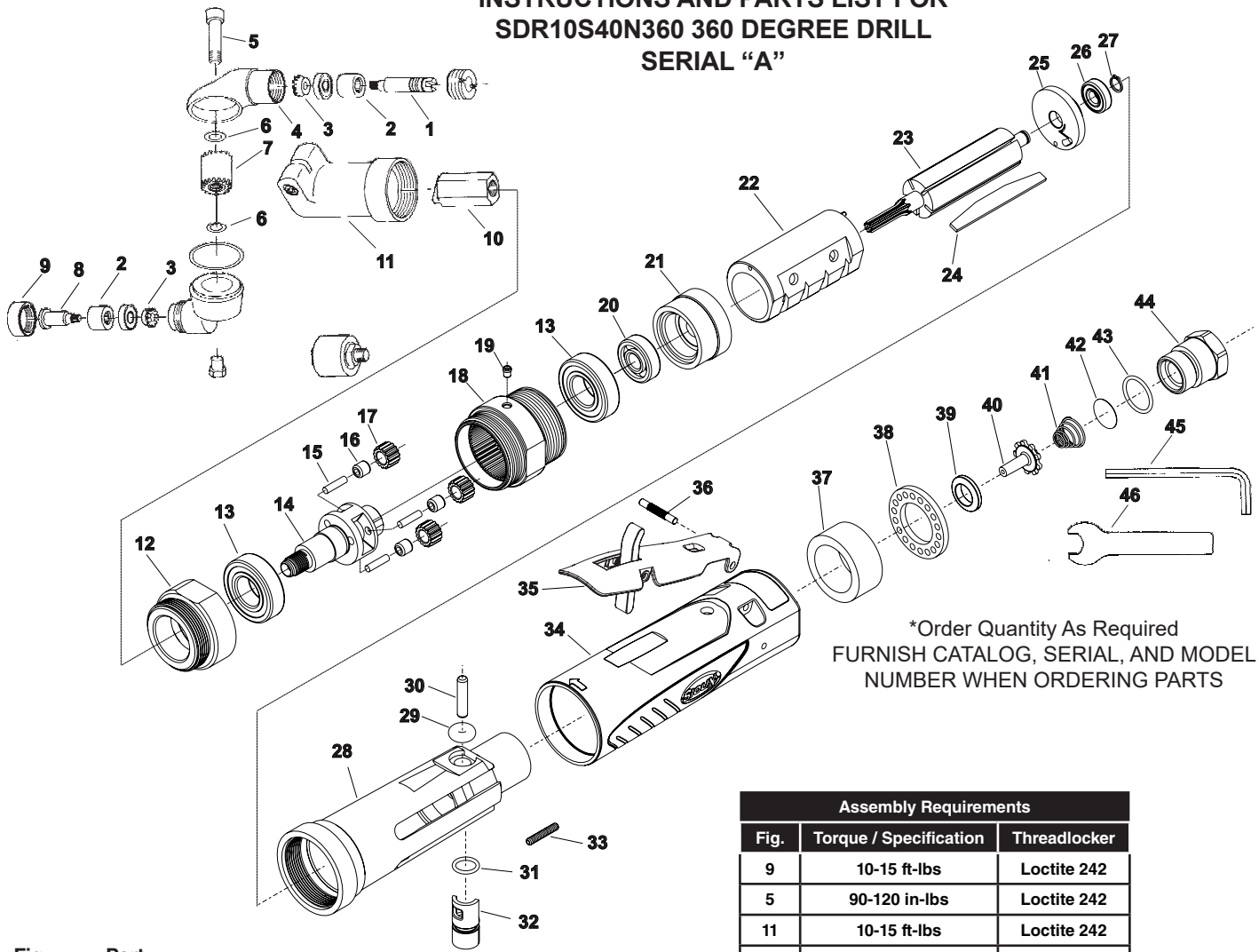
Fig. Part **No. No. Description**

20.	06402	Screw, 6-32 X 3/4 Set Soc Hex
21.	74004	Cover
22.	SDR-5	Lever
23.	74020	Knurl Pin
24.	74016	Muffler
25.	74017	Exhaust Deflector
26.	74008	Throttle Valve Seat
27.	74009	Throttle Valve
28.	74010	Taper Spring
29.	74011	Screen
30.	14281B	O-Ring, 1/16 X 5/8 X 3/4
31.	74012	Inlet Bushing

Not Shown:

SDR-15 Bail
 30000 Chuck Key 1/4"
 77067A Support Handle Assembly

INSTRUCTIONS AND PARTS LIST FOR SDR10S40N360 360 DEGREE DRILL SERIAL "A"



*Order Quantity As Required
FURNISH CATALOG, SERIAL, AND MODEL
NUMBER WHEN ORDERING PARTS

Fig. No.	Part No.	Description
1.	54641	Spindle Drive
2.	10068	Needle Bearing (2)*
3.	19473	Pinion Gear Set
4.	12403	Drive Spindle Housing
5.	40004	Swivel Stud
6.	35449	Shim Washer (.010")
7.	19330	Gear & Bearings Assembly
8.	54642	Drill Spindle
9.	54643	Front Bearing Retainer
10.	54616	Coupler
11.	12401	Sleeve
12.	SDR-43KT	Gear Case Cap
13.	10265	Ball Bearing (2)*
14.	SDR-58	Gear Carrier
15.	SDR-24	Pin (3)*
16.	10028B	Needle Bearing (3)*
17.	SDR-45	Planetary Gear (3)*
18.	SDR-40	Single Reduction Gear Case (Includes Figure 19)
19.	30375	Grease Fitting
20.	10220	Ball Bearing
21.	SDR-50	Front End Plate
22.	74030	Cylinder, Non-Reversing
23.	SDR-8	Rotor (10 tooth)
24.	SP74048	Vane (Set of 5)
25.	74023	Rear End Plate
26.	10253	Ball Bearing
27.	21491	Retaining Ring
28.	SDG-1	Straight Non-Reversing Housing
29.	67793	O-Ring
30.	74018	Torrington Pin, 3/16 X 7/8
31.	14290	O-Ring

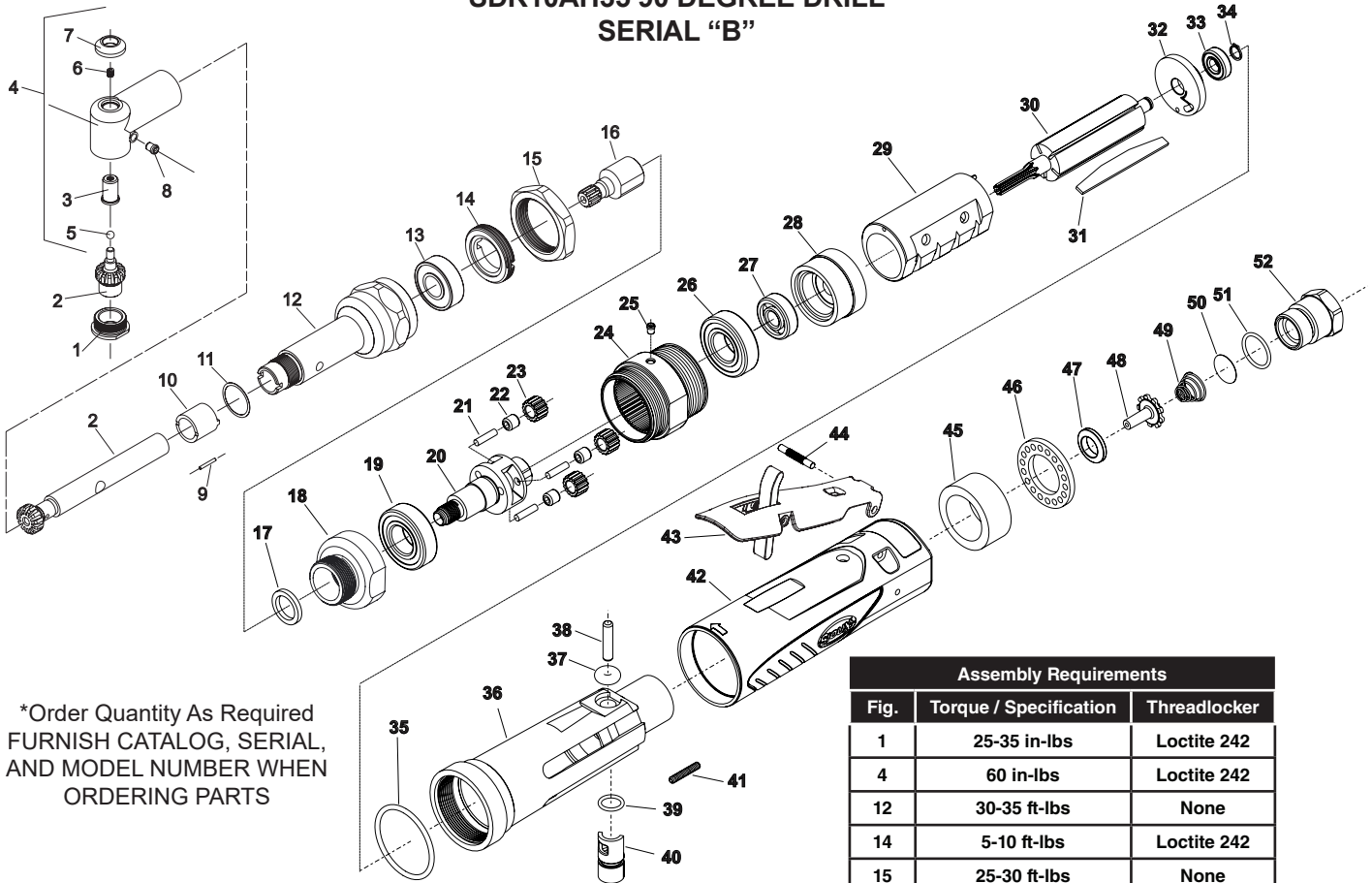
Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
9	10-15 ft-lbs	Loctite 242
5	90-120 in-lbs	Loctite 242
11	10-15 ft-lbs	Loctite 242
10	90-130 in-lbs	Loctite 242
12	20-25 ft-lbs	Loctite 242
18	20-25 ft-lbs	Loctite 242
33	5 in-lbs	Loctite 242
44	20-25 ft-lbs	Loctite 242

Fig. No.	Part No.	Description
32.	74013	Regulator
33.	06402	Screw, 6-32 X 3/4 Set Soc Hex
34.	74004	Cover
35.	SP79112	Lever Assembly
36.	74020	Knurl Pin
37.	74016	Muffler
38.	74017	Exhaust Deflector
39.	74008	Throttle Valve Seat
40.	74009	Throttle Valve
41.	74010	Taper Spring
42.	74011	Screen
43.	14281B	O-Ring, 1/16 X 5/8 X 3/4
44.	74012	Inlet Bushing
45.	30506B	Allen Wrench (3/16")
46.	40007	Chuck Body Wrench

Complete Assemblies:

SPSDR-8SA	10 Tooth Rotor Motor Assembly (Includes Figures 20-27)
SPSDR-58A	Carrier Assembly (Includes Figures 14-17)
53822	All Angle Head Assembly (Includes Figures 1-11, 46)
77067A	Support Handle Assembly

INSTRUCTIONS AND PARTS LIST FOR SDR10AH35 90 DEGREE DRILL SERIAL "B"



*Order Quantity As Required
FURNISH CATALOG, SERIAL,
AND MODEL NUMBER WHEN
ORDERING PARTS

Assembly Requirements		
Fig.	Torque / Specification	Threadlocker
1	25-35 in-lbs	Loctite 242
4	60 in-lbs	Loctite 242
12	30-35 ft-lbs	None
14	5-10 ft-lbs	Loctite 242
15	25-30 ft-lbs	None
16	90-120 in-lbs	Loctite 242
18	30-35 ft-lbs	Loctite 242
24	35-40 ft-lbs	Loctite 242
41	5 in-lbs	Loctite 242
52	20-25 ft-lbs	Loctite 242

Fig. No.	Part No.	Description
1.	65248	Bearing Bushing
2.	67495A	Gear Set (1/4"-28 Th'd) (Includes Figure 3, 5, 6, 7, 9)
3.	67852	Bushing (Includes Figures 5, 6)
4.	65247A	90° Housing
5.	10303	Steel Ball Ø1/8"
6.	06012	Set Screw #4-40 x 1/8" Socket Hex
7.	67853	Cap
8.	30375	Grease Fitting
9.	65246	Pin (Set of 22)
10.	65245	Bearing Retainer
11.	65242	Shim—.005" (Order Quantity As Needed)
12.	65244	Angle Drill Housing
13.	10257	Ball Bearing
14.	65243	Retaining Nut
15.	65143	Jam Nut
16.	65146	Spindle Adapter
17.	44122	Washer
18.	SDR-43-AH	Gear Case Cap/Adapter
19.	10265	Ball Bearing (2)*
20.	SDR-62	Gear Carrier
21.	SDR-24	Pin (3)*
22.	10028B	Needle Bearing (3)*
23.	SDR-45	Planetary Gear (3)*
24.	SDR-40	Single Reduction Gear Case (Includes Figure 19)
25.	30375	Grease Fitting
26.	ME11A33A	Bearing
27.	10220	Ball Bearing
28.	SDR-50	Front End Plate
29.	74030	Cylinder, Non-Reversing
30.	SDR-8	Rotor (10 tooth)
31.	SP74048	Vane (Set of 5)
32.	74023	Rear End Plate

Fig. No.	Part No.	Description
33.	10253	Ball Bearing
34.	21491	Retaining Ring
35.	14333B	O-Ring
36.	SDG-1	Straight Non-Reversing Housing
37.	67793	O-Ring
38.	74018	Torrington Pin, 3/16 X 7/8
39.	14290	O-Ring
40.	74013	Regulator
41.	06402	Screw, 6-32 X 3/4 Set Soc Hex
42.	74004	Cover
43.	SP79112	Lever Assembly
44.	74020	Knurl Pin
45.	74016	Muffler
46.	74017	Exhaust Deflector
47.	74008	Throttle Valve Seat
48.	74009	Throttle Valve
49.	74010	Taper Spring
50.	74011	Screen
51.	14281B	O-Ring, 1/16 X 5/8 X 3/4
52.	74012	Inlet Bushing

Complete Assemblies:

SPSDR-8SA	10 Tooth Rotor Motor Assembly (Includes Figures 28-35)
SPSDR-62A	Carrier Assembly (Includes Figures 21-24)
65214A	Angle Drill Assembly (Includes Figures 1-15)