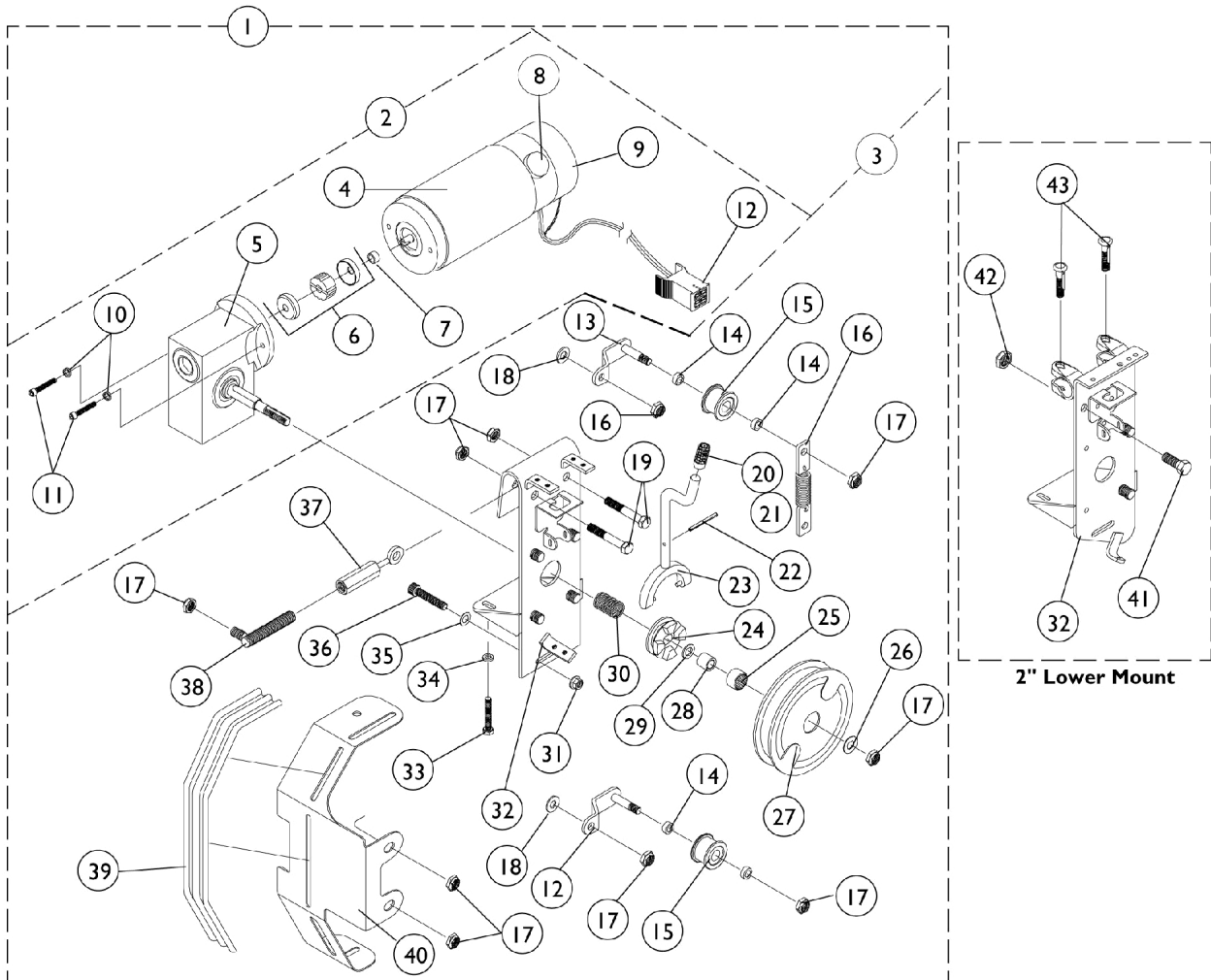


Motors, Gearboxes and Clutch Assembly

4M Power Chairs



Motors, Gearboxes and Clutch Assembly

4M Power Chairs

Item #	Description	Side	Arrow, Ranger X and Ranger II	Ranger II 5/94 - 12/95
1	Motor Clutch and Gearbox Standard Height	Right	1030422-NLA	N/A
		Left	1030423-NLA	N/A
1	2" Lower	Right	1035021-NLA	N/A
		Left	1035022-NLA	N/A
2	Motor and Gearbox	Right	1048549-NLA	1060625-NLA
		Left	1048550-NLA	N/A
3	Clutch Kit Standard Height	Right	1061577-NLA	N/A
		Left	1061578-NLA	N/A
3	2" Lower	Right	1061579-NLA	N/A
		Left	1061580-NLA	N/A
4	Motor with Brake Left and Right	Right and Left	1040734-NLA See Note(s) A	1061007-NLA
NOTE: A - It is recommended that dealer also purchase a left or right decal, item number 12.				

Motors, Gearboxes and Clutch Assembly

4M Power Chairs

For Standard and 2" Lower Height Configurations

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
5	A	1048545-NLA	NLA - Gearbox - Right	1	1
5	A	1048546-NLA	NLA - Gearbox - Left	1	1
6	F	5165204-NLA	NLA - Coupling w/ Cup (1" Diameter)	1	1
6	G	50000X007-NLA	NLA - Coupling w/ Cup (1-5/16" Diameter)	1	1
7		50000X341-NLA	NLA - Spacer	1	1
8	B,B1,D	1022651-NLA	NLA - Motor Brush with Cap	1	1
8	B,B1,E	1044044-NLA	NLA - Motor Brush with Cap (Pair)	2	1
9		1012129-NLA	NLA - Brake Assembly without Cover	1	1
9		1028530-NLA	Cover, Brake	1	1
10		10141X012-NLA	NLA - Washer, Lock (3/16 x 5/16 x 1/16")	1	2
11		1029237-NLA	NLA - Screw, Socket Head Cap w/ Patch (#10-32 x 7/8")	1	2
12		60106X062	Decal, Motor Lead - Right	1	1
12		60106X061-NLA	NLA - Decal, Motor Lead - Left	1	1
13		1028525-NLA	Idler Sub-Assembly	1	1
14		47183X047	Spacer (5/16 x 1/2 x 3/16")	1	4
15		1025377-NLA	NLA - Idler Pulley	1	1
16	C	1045866-NLA	NLA - Kit, Belt Tension Spring Replacement	2	1
16		1046749-NLA	NLA - Spring and Plate Assembly	1	2
16		1025730	Locknut (5/16-24)	1	4
16		1045865-NLA	NLA - Instruction Sheet Auto Tension	1	1
17		7930330-NLA	NLA - Locknut (5/16-24)	25	8
18		1013971	Washer, Nylon (1/4 x 7/16 x 5/64")	1	2
19		1028514	Screw, Hex Head (5/16-24 x 1-1/2")	1	2
20		1027957-NLA	NLA - Grip, Lever w/o Tip for Extension Handle	1	1
21		1030347-NLA	NLA - Cap, End, Grey	1	1
21		1030348-NLA	NLA - Cap, End, Teal	1	1
21		1030349-NLA	NLA - Cap, End, Red	1	1
21		1030350-NLA	NLA - Cap, End, Lavender	1	1
22		40187X033-NLA	NLA - Pin, Roll (1/8" x 1 1/2")	1	1
23		1028524-NLA	NLA - Fork Shifter Handle Standard Height	1	1
23		1034908-NLA	NLA - Fork Shifter Handle 2" Lower Height	1	1
24		1003530-NLA	NLA - Collar, Drive	1	1
25		50000X401-NLA	NLA - Bearing, Needle	1	1
26		1036256-NLA	NLA - D-Washer	1	1
27		1016938-NLA	NLA - Pulley, Drive w/ Bearing	1	1
28		50000X400-NLA	NLA - Inner Race	1	1
29		50000X397-NLA	NLA - Spacer, Bearing	1	1
30		1011511	Spring, Compression (5/8 x 1 x 3/64")	1	1
31		1028515-NLA	NLA - Locknut (#10-32)	1	1
32		1030088-NLA	NLA - Bracket, Motor Mounting, Black - Right	1	1

Motors, Gearboxes and Clutch Assembly

4M Power Chairs

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
32		1030089-NLA	NLA - Bracket, Motor Mounting, Black - Left	1	2
32		1035018-NLA	NLA - Bracket, Mounting - Right (2" Lower)	1	2
32		1035019-NLA	NLA - Bracket, Mounting - Left (2" Lower)	1	1
33		1025708-NLA	NLA - Bolt, Hex Head Cap (1/4-20 x 3/4")	1	1
34		1013971	Washer, Nylon (1/4 x 7/16 x 5/64")	1	1
35		1028516	Washer, Steel (3/16 x 7/16 x 1/16")	1	1
36		1028513-NLA	NLA - Screw, Socket Head (#10-32 x 1-1/4")	1	1
37		1028519-NLA	NLA - Buckle, Turn	1	1
38		1028518-NLA	NLA - Stud, Threaded	1	1
39		1028006	Bellow, Shroud	1	1
40		1029750-NLA	NLA - Bracket, Front Shroud, Black - Right	1	1
40		1029751-NLA	NLA - Bracket, Front Shroud, Black - Left	1	1
41		1025752-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/2")	1	1
42		1025195	Locknut (1/4-20)	1	1
43		1031026	Screw w/ Lug (5/16-24 x 1-3/8")	1	2
	H	See Chart	Motors, Gearboxes and Clutch Assembly	1	1
NOTE: A - Includes items 16 and 25. Due to product improvement 14133X000 grip ring has been replaced by a D-washer and locknut. Current gear boxes now come with a threaded drive shaft B - To identify the difference between Indiana General and Invacare motors note that Invacare motors have Invacare labels, black textured finish and a brush retainer that is raised approximately 1/4". B1 - Indiana General's motors have a smooth finish and the bush retainer is flush with the motor surface. See pictorial on the following page for reference. C - Part Numbers 1046749, 1025730, and 1045865 are available for individual sale or as part of the "Belt Tension Spring Replacement Kit". D - Indiana General Motor Brushes are no longer available from Invacare Corporation. Brushes are available by calling the National Power Chair Company at 1-800-444-3528 E - Invacare Motors (Pair) F - For chairs made before 11/12/01 - use part # 50000X007 as a direct replacement for this part. G - After 11/11/01 Coupling with Cup was resized from approximately 1" to 1-5/16" diameter and can be used as a direct replacement for part number 5165204 H - Not Shown					

Motors, Gearboxes and Clutch Assembly

4M Power Chairs

NOTE: To identify the difference between Indiana General and Invacare motors, see the following motor assembly pictorial.

*Invacare motors have a
black textured finish,
Indiana General's have a
smooth finish*

*Invacare motors have a brush
retainer that is raised approxi-
mately 1/4",
Indiana Generals are flush with
the motor surface*

*Invacare motors have a
Invacare Label*

