

**Storm Series®
2G**

**Arrow®
Ranger X™
Torque™
Torque™ SP
RWD/ MWD**

Power Wheelchairs



Yes, you can.

Parts Catalog Usage Guide

The information contained in this document is subject to change without notice. This catalog contains service parts for Form No. 97-188. If you have any questions regarding this catalog, please contact one of our Customer Service Representatives.

For Customer Service Support Call:

1-800-333-6900

For Faxed In Orders Call:

1-800-678-4682 or

1-440-366-0709

For Technical Service Call:

1-800-832-4707

Literature Can Be Found at:

www.invacare.com or

1-800-828-6272

SYMBOL DEFINITION

Throughout this catalog you will notice letters to draw your attention to specific footnotes which are located at the bottom of the page or below specified charts.

Examples:

A,B,C etc. = Special Comments

NOTE: = General information pertaining to that specific page

NLA = No Longer Available

HARDWARE MEASUREMENTS

The measurements for the hardware will be listed as follows:

Screws, Bolts Diameter X Thread Count/Pitch X Length

Washers Inside Diameter X Outside Diameter X Thickness

Spacers Inside Diameter X Outside Diameter X Length

For your convenience, we have supplied an area for you to list your Invacare Representatives.

Name	Phone Numbers

© 2022 Invacare Corporation. Elyria, Ohio. Invacare, Yes, you can., the Blue Medallion Design, Storm Series and Arrow are registered trademarks and Junior, Ranger X, Gearless Brushless GB, and Torque are trademarks of Invacare Corporation. Otto Bock is a registered trademark of Otto Bock Orthopaedische Industrie GMBH & Co.. Tash is a registered trademark of Tash International Inc.. Therafin is a registered trademark of W/R/Medical Electronics Co.. Bussman is a registered trademark of Cooper Industries. MIDI is a registered trademark of Littelfuse Inc.. Dynamic is a registered trademark of Dynamic Controls Limited.

TABLE of CONTENTS

Description	Page Number
Accessories - Miscellaneous	211
Accessories - Oxygen Holder Assembly Kit - A.S.B.A. Seats	73
Accessories - Oxygen Holder Assembly Kit After 4/14/03 - Captain Seat	71
Accessories - Oxygen Holder Assembly Kit Before 4/15/03 - Captain Seat	69
Accessories - Power Wheelchair Tool Kit	209
Anti-Tip Wheel Assembly - Active 3" - Gearless/Brushless	133
Anti-Tip Wheel Assembly - Active 3" (RWD)	132
Arms - Adjustable Height	66
Arms - Captain Seat & Hardware (18" W)	57
Arms - Captain Seat & Hardware (20" & 22" W)	59
Arms - Fixed Height	63
Arms - Junior Adjustable Height	61
Back - Recliner Assembly	47
Battery Box - Front for Group 24 Batteries	166
Battery Box - Group 22NF Batteries	170
Battery Box - Rear for Group 24 Batteries	168
Battery Box Support Frame for Group 24 Batteries	164
Battery Box Tray for Group 22NF Batteries	165
Battery Charger & Harnesses (For Charger Bracket - See Frame, Seat Mtg. Hardware)	161
Canes - Back Spreader Bars & Attaching Hardware	36
Casters & Forks - (6", 8" & 9")	148

TABLE of CONTENTS

Description	Page Number
Electronics - MKIV Controller, Programmer and Hardware - Gearless/Brushless	192
Electronics - MKIV Controllers, Programmer and Hardware - MKIV Quad Pulse, RII Retro, and RII 80 Amp.	189
Electronics - MKIV Displays	198
Electronics - MKIV Joystick Mounting Hardware and Joystick Accessories	178
Electronics - MKIV Joystick Options	204
Electronics - MKIV Joysticks - PS, PSF, and PSR	175
Electronics - MKIV Joysticks - RII, RX, A, A+, TCHJOY	172
Electronics - MKIV Mid-Line Swing Bracket Assembly	181
Electronics - MKIV R.I.M. Head Control Assembly (1500M4)	201
Electronics - MKIV R.I.M. Head Control Mounting Hardware (1500M4)	200
Electronics - MKIV Recliner Control and Recliner Cable	197
Electronics - MKIV Sip-N-Puff/Digital Interface and COM12 and COM34	195
Electronics - MKIV Swivel Joystick Hardware	180
Electronics - Quad Link (QLA - ASBA) and (QL - Captain Seat) (After 4/06/06)	186
Electronics - Quad Link Assembly (Before 4/07/06)	182
Electronics - Tash & Therafin Accessories	207
Frame - Base - MWD	124
Frame - Base - RWD (After 2/28/01)	123
Frame - Base - RWD (Before 3/1/01)	122
Frame Finishes - Touch-Up Paints & Upholstery Options	7
Frames - Captain Seat & Actuator Hardware - After 8/31/02	27

TABLE of CONTENTS

Description	Page Number
Frames - Captain Seat & Actuator Hardware - Before 9/1/02	25
Frames - Seat (Adult 16-24" Wide)	17
Frames - Seat (Junior 12-16" W) (Adult 14-15" W)	15
Frames - Seat Mounting Hardware (Adult 16-24" W)	31
Frames - Seat Mounting Hardware (Junior 12-16" W) (Adult 14-15" W)	29
Front Riggings - Adjustable Angle Footplates - AT5543	111
Front Riggings - Adjustable Heel Loops	120
Front Riggings - Calf Pads and Attaching Hardware	96
Front Riggings - Flip-Up Footplates - AT5043	110
Front Riggings - Footrest and Legrest Accessories	117
Front Riggings - Footrest Support Assemblies	86
Front Riggings - Footrest Supports - PW93	98
Front Riggings - Footrest Supports - PW93E	102
Front Riggings - Footrest Supports - PW93ST	100
Front Riggings - Front Rigging Hanger Assembly - Pin and Sector Style	84
Front Riggings - Legrest Release Handles & Ratchets	94
Front Riggings - Legrest Supports - AT5544	89
Front Riggings - Legrest Supports - P904A	92
Front Riggings - Legrest, Articulating - PAS4A/PAL4A	93
Front Riggings - One Piece Wooden Footboard and Hardware - S1263	114
Front Riggings - Pivot/Slide Tube and Composite Footplates	106

TABLE of CONTENTS

Description	Page Number
Front Riggings - Pivot/Slide Tube and Standard Aluminum, 1450, 1350 Footplates	108
Front Riggings - Reference Chart - 70MFX and 90 SWING	81
Front Riggings - Reference Chart - AT5544, 60HD, 70NHD, PW93, PW93E, 60MFX	75
Front Riggings - Reference Chart - P904, PAL4A, PAS4A	77
Front Riggings - Reference Chart - P93M	79
Front Riggings - Reference Chart - PW93ST and 70ST TAPER	82
Front Riggings- Footrest Supports - PW93M	104
Literature & Labels (Transport Ready Option)	10
Motor/Gearbox Assembly Reference Chart	137
Motors - 2-Pole & Gearbox - Storm Arrow & Torque	139
Motors - 2-Pole & Gearbox - Storm Ranger X & H.S.M. Option	141
Motors - 4-Pole & Gearboxes - Storm Arrow - Arrow H.D. - ALL Torques & Ranger X	143
Motors - GB & Attaching Hardware - Gearless/Brushless	146
Packaging - Literature & Decals (For Transport Ready Option Labels, See Literature and Labels)	12
Seat Pan & Mounting Hardware	33
Seats - Captain (After 8/31/02)	23
Seats - Captain (Before 9/1/02)	20
Shock Absorbers	125
Shock Suspension Mounting Hardware (RWD)	126
Shock Suspension Mounting Hardware (RWD) - Gearless/Brushless	128
Stabilizer & Shock Mounting Hardware (MWD)	136

TABLE of CONTENTS

Description	Page Number
Stabilizer Assembly (MWD)	134
Suspension Arm & Mounting Hardware	130
Suspension Arm & Mounting Hardware - Gearless/Brushless	131
Upholstery - Back - Non-Recliner - Nylon	41
Upholstery - Back - Non-Recliner - Vinyl	44
Upholstery - Back - Recliner - Nylon	51
Upholstery - Back - Recliner - Vinyl	53
Upholstery - Headrest & Pillows - Recliner	55
Warranty Replacement Parts	213
Wheel Lock Assembly - Gearless/Brushless (G/B)	160
Wheel Lock Assembly - Standard	159
Wheels - Drive Wheel For Free Wheel Hub (Available as of 4/23/99)	155
Wheels - Drive Wheels for Non-Free Wheel Hubs	153
Wheels - Free Wheel Hub Kits (Available as of 4/23/99)	157
Wheels - Hub Mount For Free Wheel Hub (Available as of 4/23/99)	152
Wheels - Hub Mount For Non-Free Wheel Hub	151

Frame Finishes, Touch-Up Paints and Upholstery Options

Frame Finishes and Touch-Up Paint

Color Number	Part Number	Bottle Size	Color
02P	1031452-NLA	.6 oz	Pink Pearl
06P	1031454-NLA	.6 oz	Super Teal
08P	1031456-NLA	.6 oz	Deep Purple
17P	1046319-NLA	.6 oz	Cobalt Blue
22P	1033376-NLA	.6 oz	Anthracite
24P	1031450-NLA	.6 oz	Wet Black
29P	1031447-NLA	.6 oz	White
33P	1031455-NLA	.6 oz	Red
34P	1046327-NLA	.6 oz	Flat Black
61P	1046321-NLA	.6 oz	Electric Red
62P	1046320-NLA	.6 oz	Electric Blue
64P	1046324-NLA	.6 oz	Metallic Blue
69P	1101320-NLA	.6 oz	Teflon Black
71P	N/A	N/A	Silver Vein
80P	1073892-NLA	.6 oz	Evergreen with Navy
81P	1073893-NLA	.6 oz	Dark Olive with Copper
82P	1073894-NLA	.6 oz	Fruit Punch with Fuchsia
83P	1073895-NLA	.6 oz	Royal Blue with Grape
84P	1073896-NLA	.6 oz	Lavender
101P	1101325-NLA	.6 oz	Jeweled Green
102P	1101327-NLA	.6 oz	Denim Blue
103P	1101324-NLA	.6 oz	Mocha Frost
104P	1101316-NLA	.6 oz	Electric Teal
105P	1101326-NLA	.6 oz	Midnight Blue

Frame Finishes, Touch-Up Paints and Upholstery Options

Sparkle Frame Finishes

Color Number	Color
72P	Twilight Sparkle
73P	Gold Sparkle
74P	Green Sparkle
75P	Blue Sparkle
76P	Red Sparkle
88P	Wet Black with Twilight Sparkle

Upholstery Options - Vinyl

Upholstery Number	Color Description
U67	Black
U75	Dove Grey
U85	Dark Blue
U86	Ruby
U97	Sky Blue
U88	Camel

Frame Finishes, Touch-Up Paints and Upholstery Options

Upholstery Options - Nylon

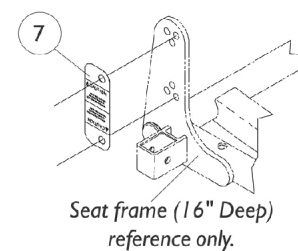
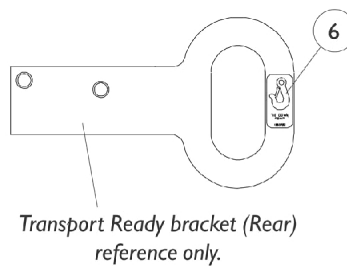
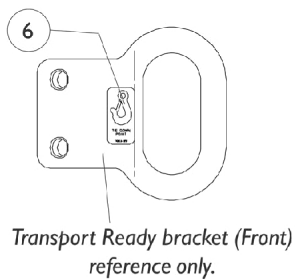
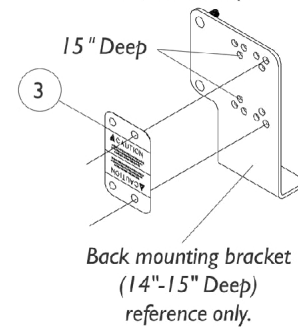
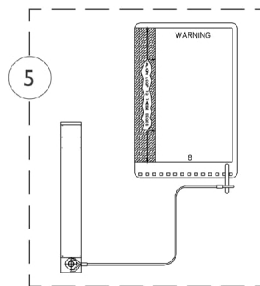
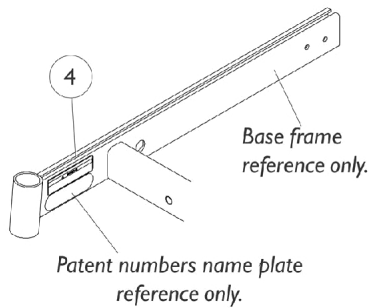
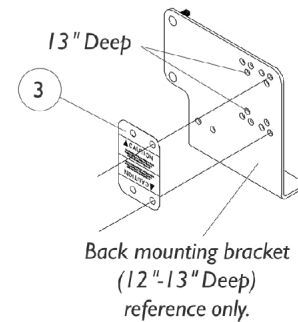
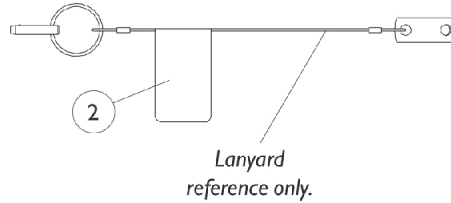
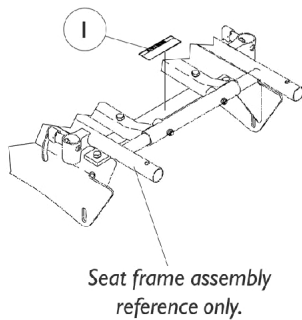
Upholstery Number	Color Description
U240	Black

Literature and Labels

Transport Ready Options

Storm RX Jr. (RWD)

NOTE: Service parts are not available for the Transport Ready Option.
Call technical services at 1-800-832-4707 for assistance.



Literature and Labels

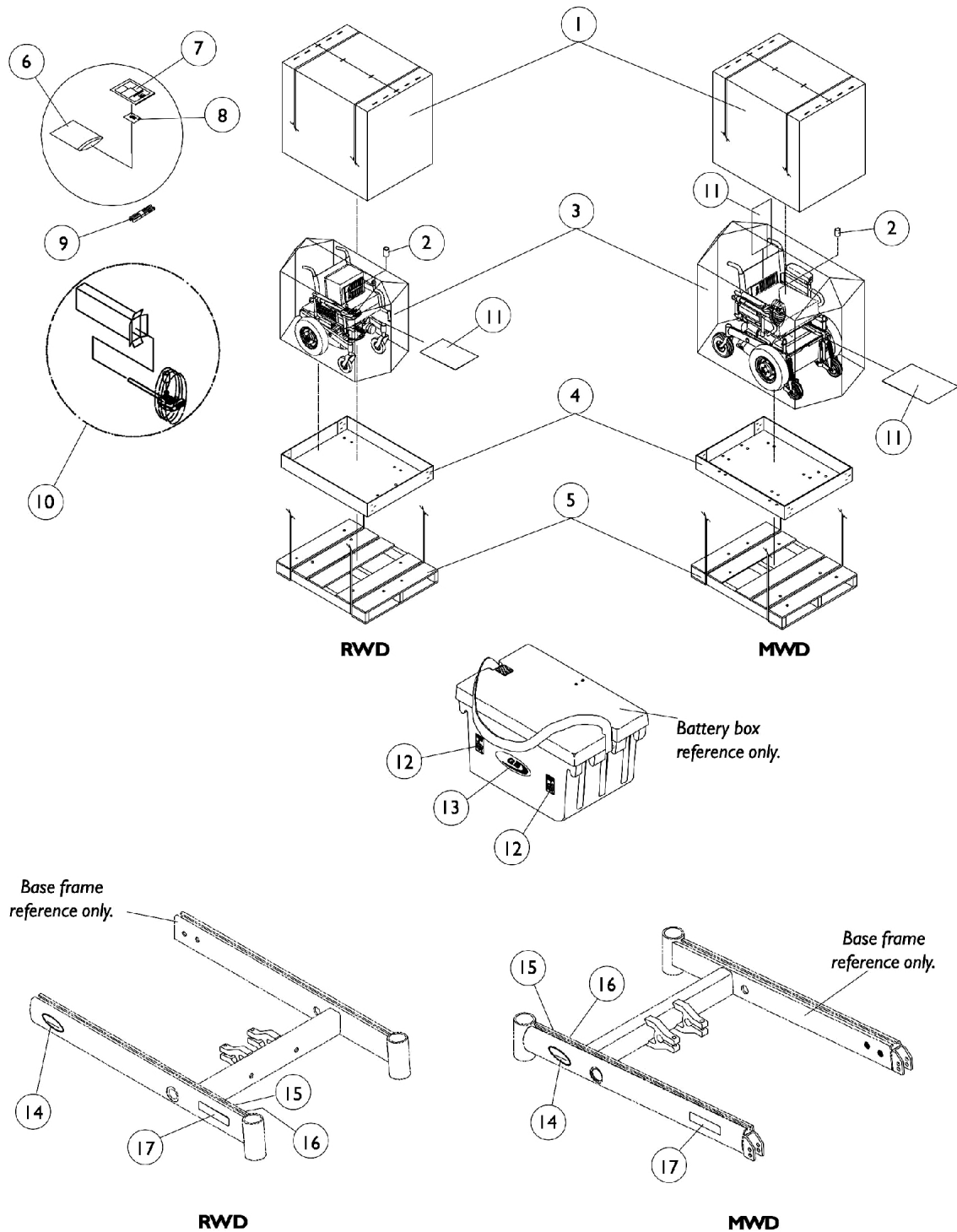
Transport Ready Options

Storm RX Jr. (RWD)

**NOTE: Service parts are not available for the Transport Ready Option.
Call technical services at 1-800-832-4707 for assistance.**

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1088444-NLA	NLA - Label, Seating System Clamp	1	1
2		1091172-NLA	NLA - Label, Lanyard with Faspin	1	1
3		1088302-NLA	NLA - Label, Back Angle, 90 Degree (12 - 15" D)	1	2
4		1082692-NLA	NLA - Decal, Warning	1	1
5		1086355-NLA	NLA - Kit, Instruction Cards with Attaching Hardware, Transport Ready Option	1	1
6		1083199-NLA	NLA - Label, Hook Tie-Down	1	4
7		1088301-NLA	NLA - Label, Back Angle, 90 Degree (16" D)	1	2
	A	1085193-NLA	NLA - Instruction Sheet, Transport Ready Option	1	1
	A	1068859-NLA	NLA - Instruction Sheet, Headrest	1	1
	A	1068446-NLA	NLA - Instruction Sheet, K.S.S. Seating System	1	1
NOTE: A - Not Shown					

Packaging, Literature and Decals



Packaging, Literature and Decals

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	F	1030364	Carton, Cover	1	1
1	G	1031682	Carton, Cover	1	1
1	H	1036028	Carton, Cover	1	1
1	I	1030365	Carton, Cover	1	1
2		1043198-NLA	NLA - Tube, Paper	1	1
3		1015609-NLA	NLA - Bag, Poly (28" W x 44" D x 80" H)	1	1
4	J	1030362	Carton, Tray	1	1
4	K	1036027	Carton, Tray	1	1
6		1021149-NLA	NLA - Bag, Poly Zip-Lip (13" L x 9" W)	1	1
7		1081227-NLA	NLA - Owner's Manual - Storm Series	1	1
8		00077X031-NLA	NLA - Warranty Card	1	1
9		50000X121	Strap, Battery Lift	1	1
10	A	1012001-NLA	NLA - Carton, Joystick	1	1
10		40131X011-NLA	NLA - Carton, Front Riggings	1	1
11		40131X161	Insert, Plain Pad	1	1
12		1078219-NLA	NLA - Decal, Caution, Free Wheel - Right (G/B)	1	1
12		1078220-NLA	NLA - Decal, Caution, Free Wheel - Left (G/B)	1	1
13		1079259-NLA	NLA - Decal, Gearless/Brushless	1	1
14		1095489	Decal, Invacare 3-D Logo (2-1/2" L)	1	2
15		1035900	Decal, Transportation	1	1
16		60106X013-NLA	NLA - Plate, Name, Patent Numbers	1	1
17	D	1095226-NLA	NLA - Decal, Model, Black - Torque	1	2
17		1095227-NLA	NLA - Decal, Model, White - Torque	1	1
17	D	1095228-NLA	NLA - Decal, Model, Black - Arrow	1	1
17		1095229-NLA	NLA - Decal, Model, White - Arrow	1	1
17	D	1095230-NLA	NLA - Decal, Model, Black - Ranger X	1	1
17		1095231-NLA	NLA - Decal, Model, White - Ranger X	1	1
	B,E	1043623	Decal, Label Package, Black - Torque	1	1
	B,E	1043624	Decal, Label Package, White - Torque	1	1
	B,E	1043621-NLA	NLA - Decal, Label Package, Black - Arrow	1	1
	B,E	1043622-NLA	NLA - Decal, Label Package, White - Arrow	1	1
	B,E	1043625-NLA	NLA - Decal, Label Package, Black - Storm X	1	1
	B,E	1043626-NLA	NLA - Decal, Label Package, White - Storm X	1	1
	C,E	1080647-NLA	NLA - Decal, Label Package, Black - Torque G/B	1	1
	C,E	1095492-NLA	NLA - Decal, Label Package, Black - Torque G/B	1	1
	C,E	1079268-NLA	NLA - Decal, Label Package, Black - Arrow G/B	1	1
	C,E	1095491-NLA	NLA - Decal, Label Package, White - Arrow G/B	1	1
	C,E	1079249-NLA	NLA - Decal, Label Package, Black - Ranger X G/B	1	1
	C,E	1095490-NLA	NLA - Decal, Label Package, White - Ranger X G/B	1	1
	E	1074139-NLA	NLA - Decal, MWD	1	2
	A,E	1079515-NLA	NLA - Kit, T-Nut with Instruction Sheet	1	1
5	L	See Note-NLA	See Footnote	1	1

Packaging, Literature and Decals

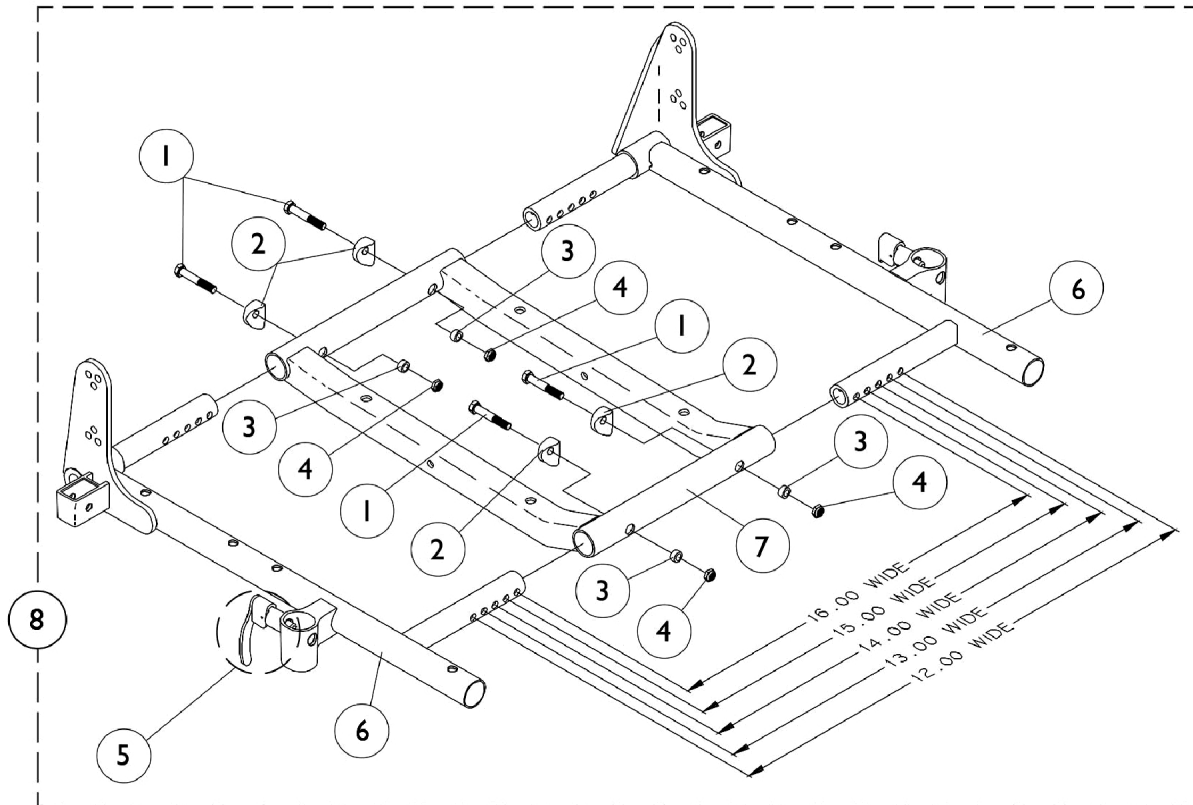
NOTE: A - Used with Storm base only. Can use part #40131X011 Carton for a Joystick also.
B - Decal package includes Invacare logo, model, transportation and patent numbers decals.
C - Decal package includes Invacare logo, model, transportation, patent numbers and G/B decals.
D - Used for chairs with frame colors, 02P, 29P, and 84P only.
E - Not Shown.
F - 12-20" Wide Non-recliner, 18" Wide Extended and High Back Captain Seats.
G - 16-20" Wide Recliner and Non-recliner with Medium-Tall Seat-to-floor.
H - 21-24" Wide Recliner and Non-recliner or 22" Wide High-Back Captain Seat.
I - Base Only or All A.S.B.A. Seat Only Models.
J - 12-20" Wide Chairs and Base Only.
K - 21-24" Wide Chairs
L - Woods Skid is NOT AVAILABLE as a service part.

NOTE: As of 1/11/00, the Invacare logo was added along with new model decals and relocation of the G/B decal to the rear battery box assembly.

NOTE: When adjusting or replacing parts, please refer to your Owner's Manual for assistance.

Seat Frame and Hardware

(Junior 12-16" Wide)
(Adult 14-15" Wide)



Seat Frame and Hardware

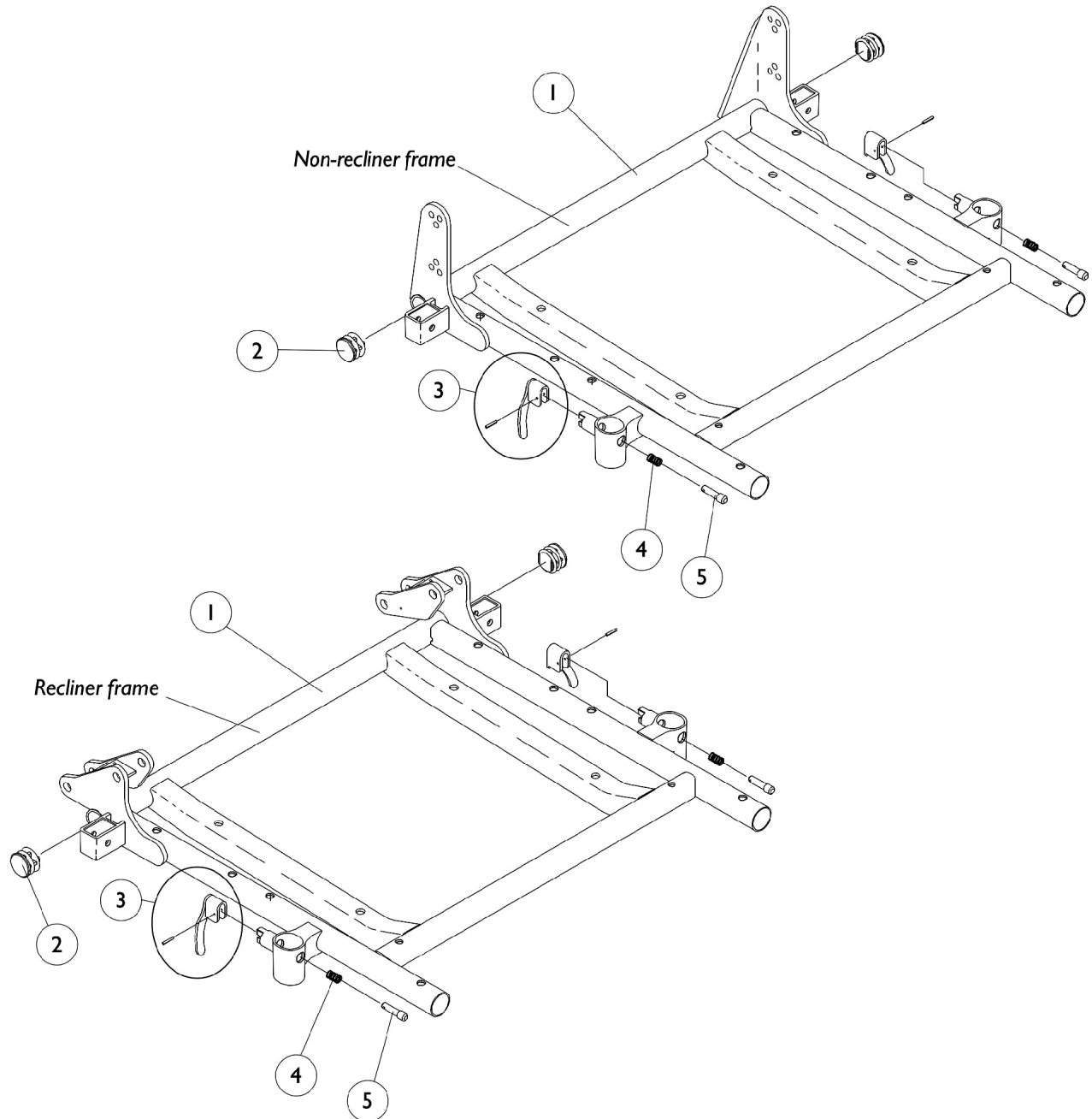
(Junior 12-16" Wide)
(Adult 14-15" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1037610	Screw, Hex Head (1/4-20 x 1-5/8")	1	4
2		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	4
3		1047449-NLA	NLA - Spacer (1/4 x 3/8 x 3/16")	1	4
4		1025736	Locknut (1/4-20)	1	4
5		47471X074	Spring, Arm Lock	1	1
5		1028594	Pin, Arm Lock, Black	1	1
5		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
6-8		See Chart	#'s 6-8 Seat Frame and Hardware	1	1

#'s 6-8 Seat Frames

Item Number	Description	Junior 12-16" Wide 12-16" Deep	Adult 14-15" Wide 16-17" Deep	Adult 14-15" Wide 18-19" Deep	Adult 14-15" Wide 20-21" Deep	Adult 14-15" Wide 22" Deep
6	Seat Frame Right See Note(s) A	1070473-NLA	1070473-NLA	1070526-NLA	1070528-NLA	1070530-NLA
6	Seat Frame Left See Note(s) A	1070474-NLA	1070474-NLA	1070527-NLA	1070529-NLA	1070531-NLA
7	Seat Frame Center	1070476-NLA	1070476-NLA	1070476-NLA	1070533-NLA	1070533-NLA
8	Seat Frame Assembly See Note(s) B	1070469-NLA	1070469-NLA	1070534-NLA	1070535-NLA	1070536-NLA
NOTE: A - Seat frame includes item 5 arm lock assembly. B - Includes Items 1-7						

Seat Frame and Hardware (Adult 16-24" Wide)



Seat Frame and Hardware (Adult 16-24" Wide)

#1 - Seat Frame with Hardware

Non-Recliner

Seat Width	16-17" Depth	18-19" Depth	20-21" Depth	22" Depth
16" Width	1070672-NLA	1070681-NLA	1070690-NLA	1070699-NLA
17" Width	1070673-NLA	1070682-NLA	1070691-NLA	1070700-NLA
18" Width	1070674-NLA	1070683-NLA	1070692-NLA	1070701-NLA
19" Width	1070675-NLA	1070684-NLA	1070693-NLA	1070702-NLA
20" Width	1070676-NLA	1070685-NLA	1070694-NLA	1070703-NLA
21" Width	1070677-NLA	1070686-NLA	1070695-NLA	1070704-NLA
22" Width	1070678-NLA	1070687-NLA	1070696-NLA	1070705-NLA
23" Width	1070679-NLA	1070688-NLA	1070697-NLA	1070706-NLA
24" Width	1070680-NLA	1070689-NLA	1070698-NLA	1070707-NLA

#1 - Seat Frame with Hardware

Recliner

Seat Width	16-17" Depth	18-19" Depth	20-21" Depth	22" Depth
16" Width	1070708-NLA	1070717-NLA	1070726-NLA	1070735-NLA
17" Width	1070709-NLA	1070718-NLA	1070727-NLA	1070736-NLA
18" Width	1070710-NLA	1070719-NLA	1070728-NLA	1070737-NLA
19" Width	1070711-NLA	1070720-NLA	1070729-NLA	1070738-NLA
20" Width	1070712-NLA	1070721-NLA	1070730-NLA	1070739-NLA
21" Width	1070713-NLA	1070722-NLA	1070731-NLA	1070740-NLA
22" Width	1070714-NLA	1070723-NLA	1070732-NLA	1070741-NLA
23" Width	1070715-NLA	1070724-NLA	1070733-NLA	1070742-NLA
24" Width	1070716-NLA	1070725-NLA	1070734-NLA	1070743-NLA

Seat Frame and Hardware (Adult 16-24" Wide)

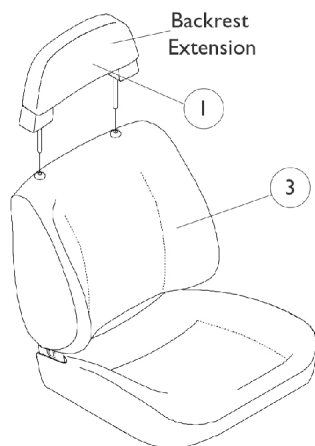
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	See Chart	#1 Seat Frame and Hardware - Non-Recliner	1	1
1	A	See Chart	#1 Seat Frame and Hardware - Recliner	1	1
2		1029501	Plug Button, Black (1")	1	2
3		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
4		47471X074	Spring, Arm Lock	1	2
5		1028594	Pin, Arm Lock, Black	1	2
NOTE: A - Includes seat frame and items 2-5					

Captain Seat Assembly

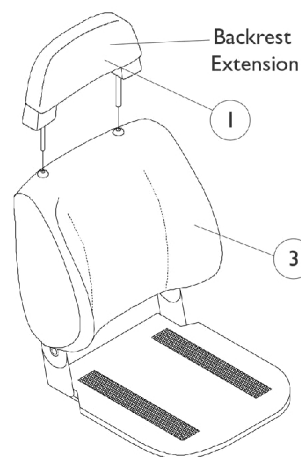
(Before 9/1/02)

NOTE: Low Back (LB.) Captain Seat description changed to Extended Back (E.B.) Captain Seat as of 10/02/00.

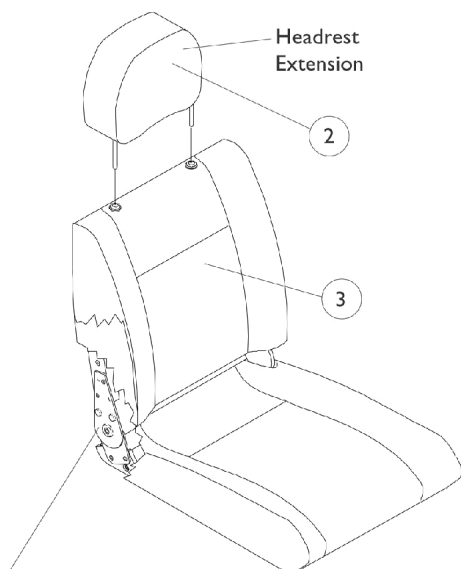
NOTE: Captain Seats incorporate an assisted recline of approximately 90 deg.- 114 deg. for extended backs and 90 deg. - 170 deg. for high back 18 " wide models.



Extended Back 18" Wide

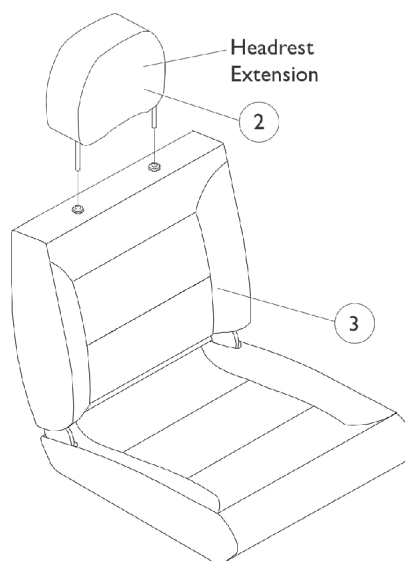


Extended Back, Forward Folding 18" Wide w/ Solid Seat Base



NOTE: High back 18" wide captain seat includes the actuator hardware. See seat frame and actuator hardware page.

High Back 18" Wide w/ Full Recline



High Back 22" Wide w/ Semi Recline

Captain Seat Assembly

(Before 9/1/02)

NOTE: Low Back (LB.) Captain Seat description changed to Extended Back (E.B.) Captain Seat as of 10/02/00.

NOTE: Captain Seats incorporate an assisted recline of approximately 90 deg.- 114 deg. for extended backs and 90 deg. - 170 deg. for high back 18 " wide models.

Item Number	Description	Grey Fabric Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
1.	Backrest, Extended Back (E.B.) (Before 3/25/98)	1071578-NLA See Note(s) A	N/A	N/A
1.	Backrest, Extended Back (3/25/98-8/3/99) and (E.B. Forward Folding Before 5/12/00)	1078997-NLA See Note(s) B	N/A	N/A
1.	Backrest, Extended Back (After 8/3/99) and (E.B. Forward Folding after 5/11/00)	1090374-NLA See Note(s) C	N/A	N/A
1.	Backrest, Extended Back (Before 7/22/99)	N/A	1081285-NLA See Note(s) B	1086109-NLA See Note(s) B
1.	Backrest, Extended Back (After 7/21/99)	N/A	1090375-NLA See Note(s) C	1090376-NLA See Note(s) C
2.	Headrest, High Back (Before 8/16/99)	1071576-NLA See Note(s) D	N/A	N/A
2.	Headrest, High Back (After 8/15/99) (18" and 22" Wide)	1090379-NLA See Note(s) C	N/A	N/A
2.	Headrest, High Back	N/A	1090380-NLA See Note(s) C	N/A
3.	18" Wide Extended Back (Before 8/4/99) w/Mtg. Screws	1091124-NLA	N/A	N/A
3.	18" Wide Extended Back (After 8/3/99)	1090371-NLA	N/A	N/A
3.	18" Wide Extended Back (Before 7/22/99)	N/A	1081284-NLA	1086108-NLA
3.	18" Wide Extended Back (After 7/21/99)	N/A	1090372-NLA	1090373-NLA

Captain Seat Assembly (Before 9/1/02)

NOTE: Low Back (LB.) Captain Seat description changed to Extended Back (E.B.) Captain Seat as of 10/02/00.

NOTE: Captain Seats incorporate an assisted recline of approximately 90 deg.- 114 deg. for extended backs and 90 deg. - 170 deg. for high back 18 " wide models.

Item Number	Description	Grey Fabric Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
3.	18" Wide Extended Back Forward Folding (Before 5/12/00)	1085104-NLA	N/A	N/A
3.	18" Wide Extended Back Forward Folding (After 5/11/00)	1090370-NLA	N/A	N/A
3.	18" Wide High Back (Before 8/16/99)	1070456-NLA See Note(s) E	N/A	N/A
3.	18" Wide High Back (After 8/15/99)	1091068-NLA See Note(s) E	N/A	N/A
3.	18" Wide High Back with Full Recline	N/A	1091069-NLA	N/A
3.	22" Wide High Back with Semi Recline	1098287-NLA	N/A	N/A
NOTE: A - 9-29/64" Backrest Post Spacing B - 9" Backrest Post Spacing C - 4-3/4" Backrest/Headrest Post Spacing D - 4-23/32" Headrest Post Spacing E - High back 18" wide captain seats includes all actuator attaching hardware. NOTE: When converting between high back and extended back captain seats, the recliner wiring harness with sensor cable must be ordered as well. NOTE: For captain seats marked NLA, use captain seats dated after 8/31/02 as replacements.				

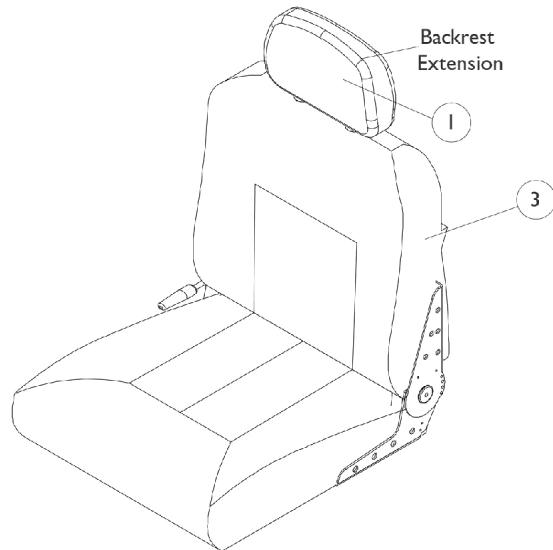
Captain Seat Assembly

(After 8/31/02)

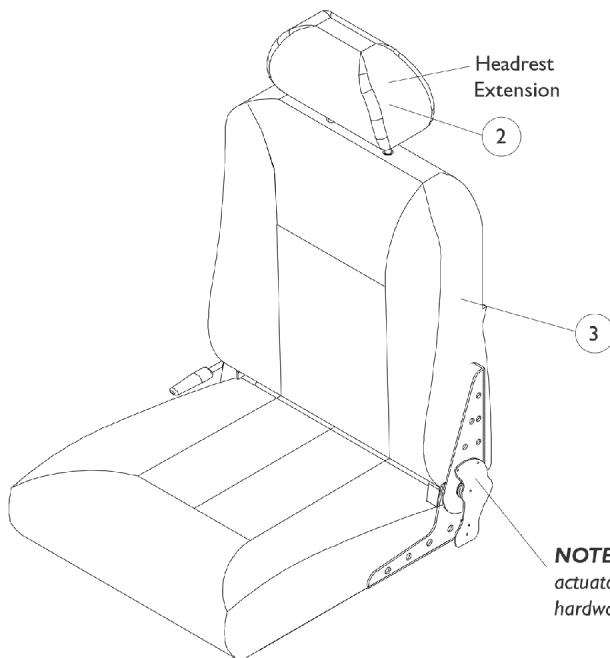
NOTE: Captain Seat recline approximately 90 degrees - 114 degrees for semi recline backs and 90 degrees - 170 degrees for full recline back models.

Adjustable depths are (16, 17, 18" deep for 18" wide seats)
and (18, 19, 20" deep for 20 and 22" wide seats).

Recline release levers are standard on the right side. Left side release levers can be ordered as a special with a new captain seat.



Semi Recline Captain Seat



Full Recline Captain Seat

NOTE: Full recline captain seats **do not include** the actuator hardware. See seat frame and actuator hardware page.

Captain Seat Assembly

(After 8/31/02)

NOTE: Captain Seat recline approximately 90 degrees - 114 degrees for semi recline backs and 90 degrees - 170 degrees for full recline back models.

**Adjustable depths are (16, 17, 18" deep for 18" wide seats)
and (18, 19, 20" deep for 20 and 22" wide seats).**

Recline release levers are standard on the right side. Left side release levers can be ordered as a special with a new captain seat.

Item Number	Description	All Grey Fabric	All Grey Vinyl	All Tan Vinyl
1.	Backrest (for Semi Recline)	1106969-NLA	1108408	1106968-NLA
2.	Headrest (For Full Recline)	1106967	1108409-NLA	1106966
3.	18" Wide Semi Recline with Backrest	1109254-NLA	1109242	1109248-NLA
3.	18" Wide Full Recline with Headrest	1109257-NLA	1109245-NLA	1109251-NLA
3.	20" Wide Semi Recline with Backrest	1159892-NLA	1159891	1159893-NLA
3.	20" Wide Full Recline with Headrest	1109258-NLA	1109246-NLA	1109252-NLA
3.	22" Wide Semi Recline with Backrest	1109256-NLA	1109244	1109250-NLA
Not Shown	Hinge Bracket w/ Lever Semi-Recline - Right	1116634 See Note(s) A	1116634 See Note(s) A	1116634 See Note(s) A
Not Shown	Hinge Bracket w/o Lever Semi-Recline - Left	1116635 See Note(s) A	1116635 See Note(s) A	1116635 See Note(s) A
Not Shown	Screw, Phillips Truss Head (1/4-20 x 3/4")	5000136 See Note(s) B	5000136 See Note(s) B	5000136 See Note(s) B

NOTE: A - Not Shown. Hinge Brackets used for ALL Semi-Recline Seat models only. For attaching Hinge Bracket, see part number 5000136.

B - Not shown, Screw for Hinge Bracket(s) 1116634 and 1116635. Total of (7) required for each Bracket.

NOTE: When converting from a semi recline to a full recline captain seat, a sensor cable part number 1092913 must be ordered as well.

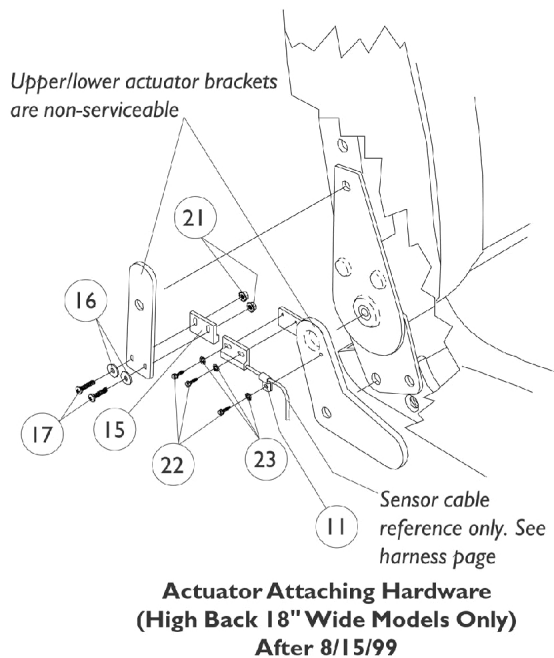
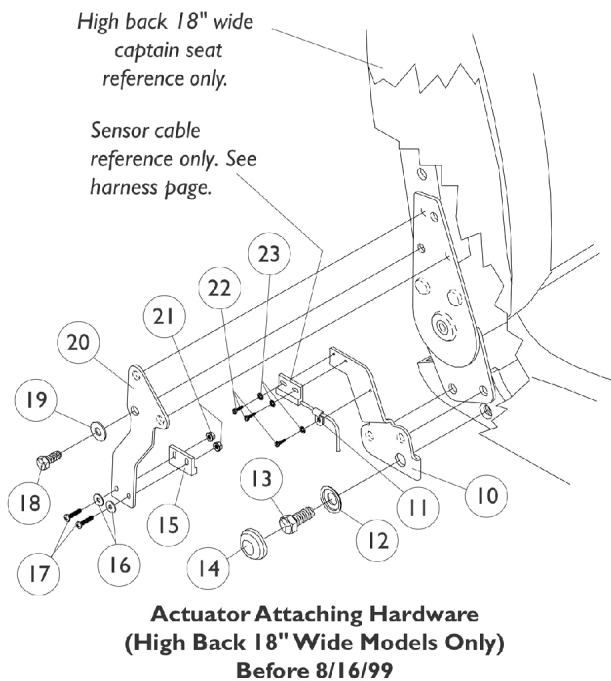
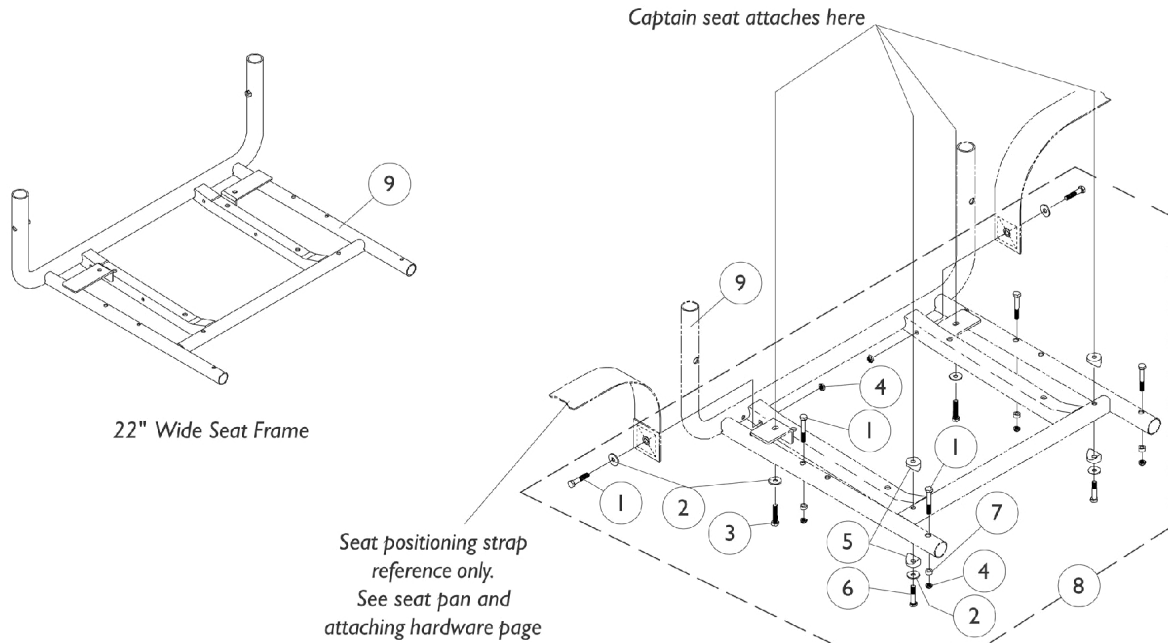
NOTE: Actuator mounting hardware is not included with a full recline captain seat. See Actuator mounting hardware.

NOTE: New seat mounting hardware part number 1079208 is required when converting a captain seat made before 9/1/02 to a captain seat made after 8/31/02.

Captain Seat Frame and Actuator Hardware

Before 9/1/02

NOTE: Low Back (L.B.) Captain Seat description changed to Extended Back (E.B.) Captain Seat as of 10/02/00.



Captain Seat Frame and Actuator Hardware

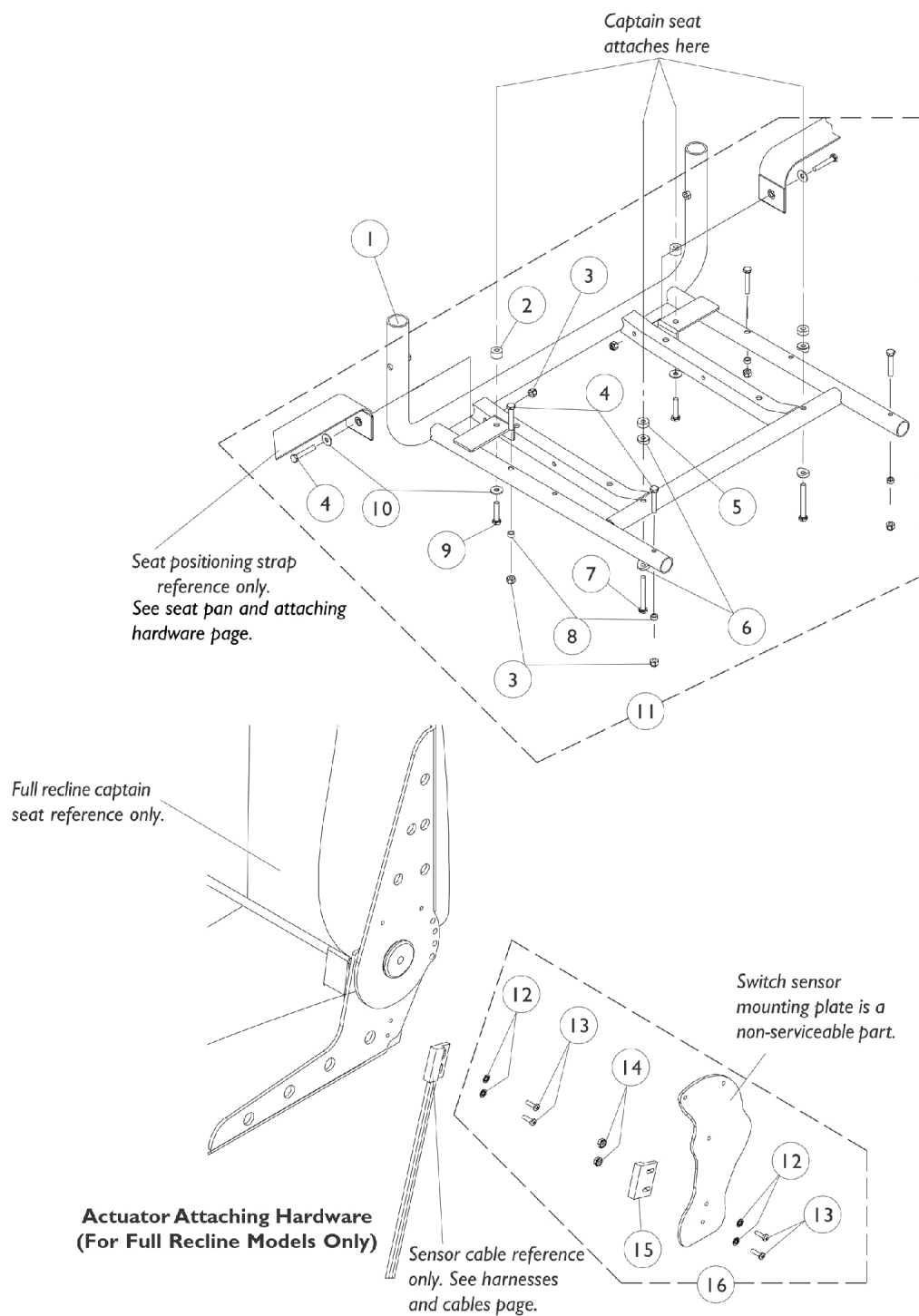
Before 9/1/02

NOTE: Low Back (L.B.) Captain Seat description changed to Extended Back (E.B.) Captain Seat as of 10/02/00.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	6
2		1026900	Washer (1/4 x 23/32 x 1/16")	1	6
3	C	1071603-NLA	NLA - Screw, Hex Head w/ Patch (M6 x 1 x 20mm)	1	4
3	A,B,E	1045267	Screw, Hex Head w/ Patch (1/4-20 x 3/4")	1	4
4		7930333	Locknut (1/4-20)	25	6
5		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	4
6	C	1070434-NLA	nla - Screw, Hex Head w/ Patch (M6 x 1 x 50mm)	1	2
6	B,E	1088898-NLA	NLA - Screw, Hex Head w/ Patch (1/4-20 x 1-3/4")	1	2
7		1047449-NLA	NLA - Spacer (1/4 x 3/8 x 3/16")	1	4
8	C,D	1070450-NLA	NLA - Hardware, Seat Attaching	1	1
8	A,B,D, E	1079208-NLA	NLA - Hardware, Captain Seat Mounting	1	1
9	B,C	1070455-NLA	NLA - Frame, Seat, Black (18" W)	1	1
9	E	1101913-NLA	NLA - Frame, Seat, Black (22" W)	1	1
10		1076392-NLA	NLA - Bracket, Lower Limit Switch Sensor, Black	1	1
11		1098624-NLA	NLA - Clamp, Cable	1	1
12		1016289	Washer, Caplugs (15/32" I.D. x 1-3/32" O.D.)	1	1
13		1076568-NLA	NLA - Screw, Hex Head (7/16-20 x 1")	1	1
14		1016291	Cap, Hub, Black	1	1
15		1024001	Sensor, Actuator Switch	1	1
16		16348X007	Rivet Washer (1/8 x 3/8 x 1/16")	1	2
17		1074128	Screw, Phillips Pan Head (#4-40 x 7/16")	1	2
18		7930322-NLA	NLA - Package, Screw, Hex Head (M8 x 1.25 x 20mm)	25	1
19		7930358-NLA	NLA - Washer, Steel (5/16 x 3/4 x 1/16")	25	1
20		1076394	Bracket, Upper Limit Sensor Switch	1	1
21		P0870X000	Nut, Hex Keps (#4-40)	1	2
22		1025116-NLA	NLA - Screw, Slotted Hex Washer Head Tap (#4-3/8")	1	3
23		1008525-NLA	NLA - Washer, Internal Tooth Lock (#4-40)	1	3
NOTE: A - All vinyl extended back seats will use hardware noted for extended back seats after 3/24/98. B - Extended backs after 3/24/98, Forward Folding Seat. C - Extended backs before 3/25/98, 18" Wide, High Backs. D - Includes items 1-7. E - 22" Wide, High Backs.					

Captain Seat Frame and Actuator Hardware

After 8/31/02

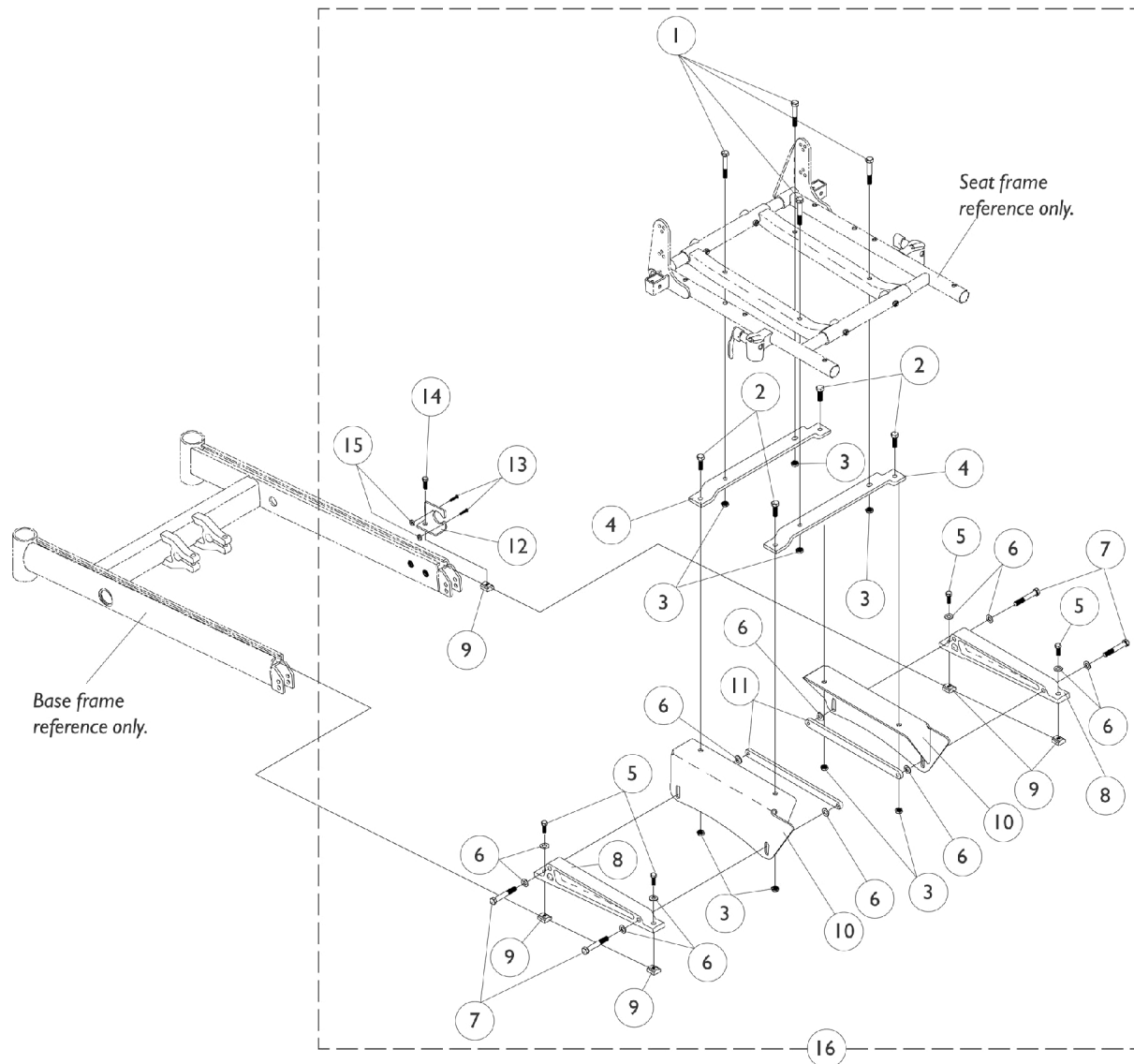


Captain Seat Frame and Actuator Hardware

After 8/31/02

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1070455-NLA	NLA - Frame, Seat, Black (18" W)	1	1
1		1108099-NLA	NLA - Frame, Seat, Black (20" W)	1	1
1		1101913-NLA	NLA - Frame, Seat, Black (22" W)	1	1
2		1108411-NLA	NLA - Spacer (1/4 x 5/8 x 3/8")	1	2
3		7930333	Locknut (1/4-20)	25	6
4		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	6
5		1108410	Spacer (1/4 x 5/8 x 1/4")	1	2
6		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	4
7		1026154-NLA	NLA - Screw, Hex Head (1/4-20 x 2-1/4")	1	2
8		1047449-NLA	NLA - Spacer (1/4 x 3/8 x 3/16")	1	4
9		1021406	Screw, Hex Head (1/4-20 x 1-1/4")	1	2
10		1026900	Washer (1/4 x 23/32 x 1/16")	1	4
11	B	1079208-NLA	NLA - Hardware, Captain Seat Mounting	1	1
12		1008525-NLA	NLA - Washer, Internal Tooth Lock (#4-40)	1	4
13		7930339-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 3/8")	25	4
14		P0870X000	Nut, Hex Keps (#4-40)	1	2
15		1024001	Sensor, Actuator Switch	1	1
16	A	1107242-NLA	NLA - Hardware, Actuator Switch Sensor Mounting	1	1
NOTE: A - Includes items 12-15. B - Includes items 2-10.					

Seat Frame Mounting Hardware **(Junior 12-16" Wide)** **(Adult 14-15" Wide)**

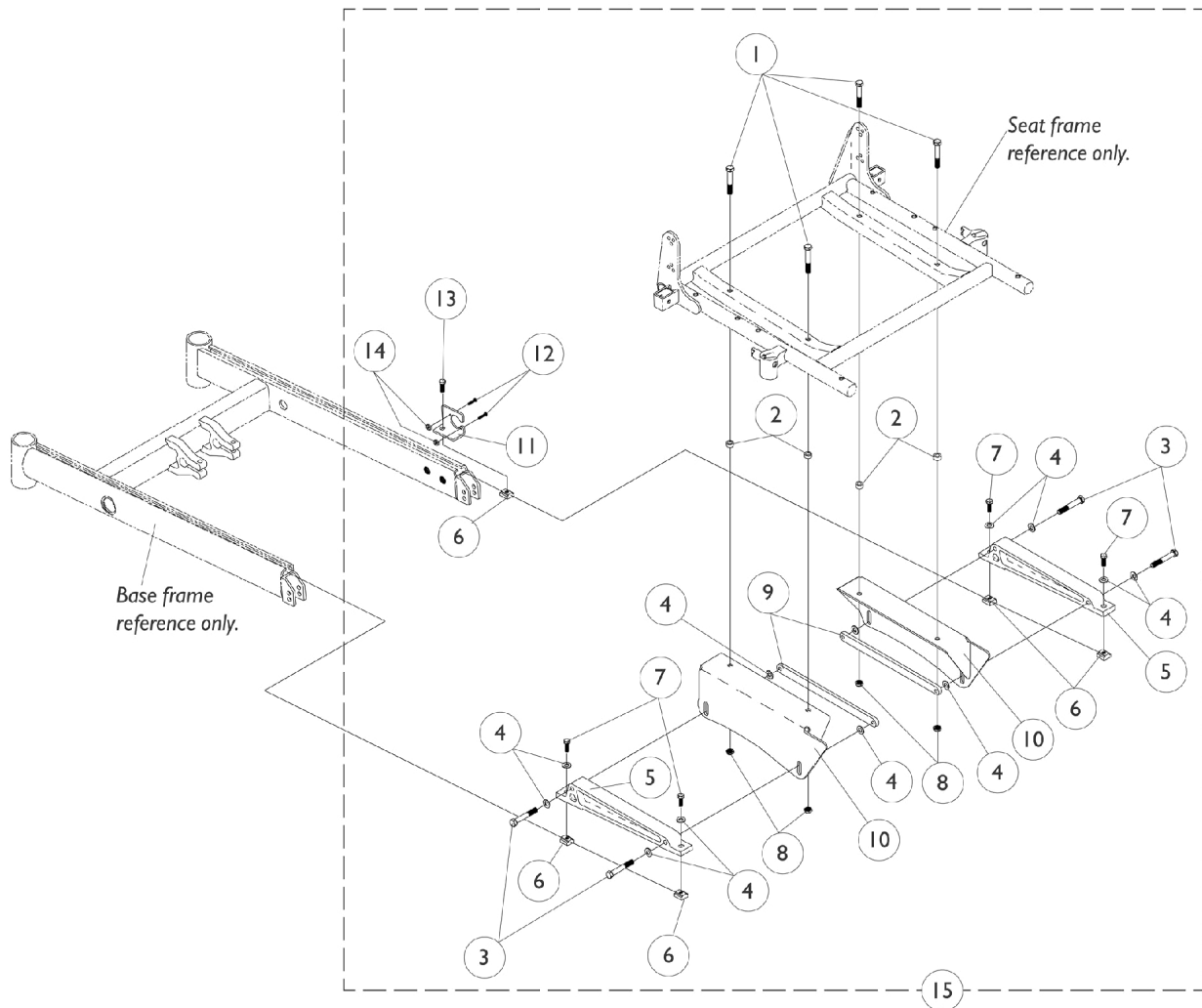


Seat Frame Mounting Hardware (Junior 12-16" Wide) (Adult 14-15" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
2		1039860	Screw, Hex Head w/ Patch (5/16-18 x 3/4")	1	4
3		1026158	Locknut (5/16-18)	1	8
4		1070465-NLA	NLA - Bracket, Mounting, Black - Junior	1	2
5		1039860	Screw, Hex Head w/ Patch (5/16-18 x 3/4")	1	4
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	12
7		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
8		1070388	Support, Seat, Black	1	2
9		1069724	T-Nut (5/16-18)	1	5
10		1070343-NLA	NLA - Plate, Seat Mounting Low, Right	1	2
10		1070344-NLA	NLA - Plate, Seat Mounting Low, Left	1	2
10		1070345-NLA	NLA - Plate, Seat Mounting Medium, Right	1	2
10		1070346-NLA	NLA - Plate, Seat Mounting Medium, Left	1	2
10		1070347-NLA	NLA - Plate, Seat Mounting Tall, Right	1	2
10		1070348-NLA	NLA - Plate, Seat Mounting Tall, Left	1	2
11		1070396-NLA	NLA - Strap, Bolt, Black	1	2
12		1070430-NLA	NLA - Bracket, Charger Connector, Black	1	1
13		7930318-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 1/2")	25	2
14		1061922-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1/2")	1	1
15		P0870X000	Nut, Hex Keps (#4-40)	1	1
16	A	1070470-NLA	NLA - Hardware, Seat Frame (Junior Seat Mounting)	1	1

NOTE: A - Item number 10 not included in package.

Seat Frame Mounting Hardware (Adult 16-24" Wide)



Seat Frame Mounting Hardware (Adult 16-24" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
1	B	1070398-NLA	NLA - Screw, Hex Head (5/16-18 x 1-1/2")	1	4
2	A	1070413-NLA	NLA - Spacer (21/64 x 1/2 x 17/64")	1	4
3		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
4		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	4
5		1070388	Support, Seat, Black	1	12
6		1069724	T-Nut (5/16-18)	1	2
7		1039860	Screw, Hex Head w/ Patch (5/16-18 x 3/4")	1	5
8		1026158	Locknut (5/16-18)	1	4
9		1070396-NLA	NLA - Strap, Bolt, Black	1	4
10		1070343-NLA	NLA - Plate, Seat Mounting Low, Right	1	2
10		1070344-NLA	NLA - Plate, Seat Mounting Low, Left	1	2
10		1070345-NLA	NLA - Plate, Seat Mounting Medium, Right	1	2
10		1070346-NLA	NLA - Plate, Seat Mounting Medium, Left	1	2
10		1070347-NLA	NLA - Plate, Seat Mounting Tall, Right	1	2
10		1070348-NLA	NLA - Plate, Seat Mounting Tall, Left	1	2
11		1070430-NLA	NLA - Bracket, Charger Connector, Black	1	1
12		7930318-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 1/2")	25	2
13		1061922-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1/2")	1	1
14		P0870X000	Nut, Hex Keps (#4-40)	1	1
15	C	1070495-NLA	NLA - Hardware, Seat Frame Mounting (16" W)	1	1
15	C	1070349-NLA	NLA - Hardware, Seat Frame Mounting (17" W)	1	1
NOTE: A - Used on the 16" wide chairs only. B - Used on 17" and wider chairs only. C - Item number 10 not included in package.					

1

2

3

Positioning strap reference only. See miscellaneous accessories

Seat frame reference only

4

5

Pull pin reference only. See arm assemblies

Seat Pan and Mounting Hardware

Item #1 Junior Seat Pan

Seat Width	12-15" Deep	16" Deep
12" Wide	1066009-NLA	1070513
13" Wide	1066010-NLA	1070514-NLA
14" Wide	1066022-NLA	1066011-NLA
15" Wide	1066023-NLA	1066012-NLA
16" Wide	1066024	1066013-NLA

Item #1 Adult Seat Pan

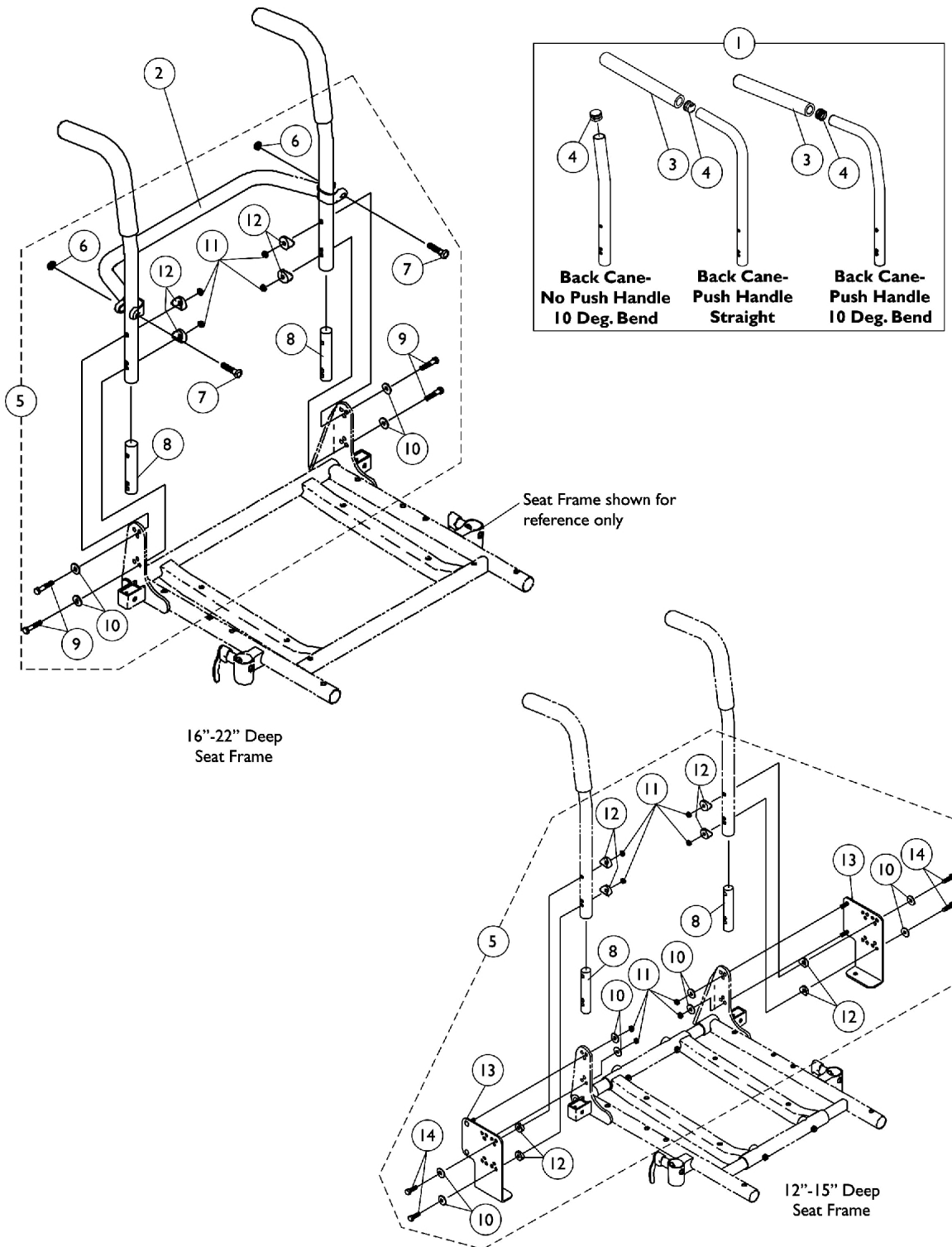
Seat Width	16" Deep	17" Deep	18" Deep	19" Deep	20" Deep	21" Deep	22" Deep
14" Wide	1066011-NLA	1066022-NLA	1066033-NLA	1066044-NLA	1066055-NLA	1066066-NLA	1066077-NLA
15" Wide	1066012-NLA	1066023-NLA	1066034-NLA	1066045-NLA	1066056-NLA	1066067-NLA	1066078-NLA
16" Wide	1066013-NLA	1066024	1066035-NLA	1066046-NLA	1066057-NLA	1066068-NLA	1066079-NLA
17" Wide	1066014-NLA	1066025-NLA	1066036-NLA	1066047-NLA	1066058-NLA	1066069-NLA	1066080-NLA
18" Wide	1066015-NLA	1066026	1066037-NLA	1066048-NLA	1066059-NLA	1066070-NLA	1066081-NLA
19" Wide	1066016-NLA	1066027-NLA	1066038-NLA	1066049-NLA	1066060	1066071-NLA	1066082-NLA
20" Wide	1066017-NLA	1066028-NLA	1066039-NLA	1066050-NLA	1066061-NLA	1066072-NLA	1066083-NLA
21" Wide	1066018-NLA	1066029-NLA	1066040-NLA	1066051-NLA	1066062-NLA	1066073-NLA	1066084-NLA
22" Wide	1066019-NLA	1066030-NLA	1066041-NLA	1066052-NLA	1066063-NLA	1066074-NLA	1066085-NLA
23" Wide	1066020-NLA	1066031-NLA	1066042-NLA	1066053-NLA	1066064-NLA	1066075-NLA	1066086-NLA
24" Wide	1066021-NLA	1066032-NLA	1066043-NLA	1066054-NLA	1066065-NLA	1066076-NLA	1066087-NLA

Seat Pan and Mounting Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	See Chart	#1 Adult Seat Pan	1	1
1		See Chart	#1 Junior Seat Pan	1	1
6		1070459-NLA	NLA - Kit, Seat Pan Mounting Hardware	1	1
2			Screw, Hex Head (1/4-20 x 1-5/8")	1	2
3			Screw, Hex Head (1/4-20 x 1-1/2")	1	4
4			NLA - Spacer (1/4 x 3/8 x 3/16")	1	4
5			Locknut (1/4-20)	1	6
NOTE: A - Includes items 2-5.					

Back Canes, Spreader Bars and Attaching Hardware

NOTE: Chairs manufactured with a seat width, seat depth or back height of 20" and greater including all heavy duty packages will be equipped with a spreader bar standard.



Back Canes, Spreader Bars and Attaching Hardware

NOTE: Chairs manufactured with a seat width, seat depth or back height of 20" and greater including all heavy duty packages will be equipped with a spreader bar standard.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		See Chart	#1 Back Cane Assemblies	1	2
2		See Chart	#2 Spreader Bar	1	1
3		1135506	Package, Foam Hand Grip (9" L)	10	1
4		1130582	Package, Plug Button, Black (7/8")	10	1
5	A,E	1070499-NLA	NLA - Kit, Back Cane Attaching Hardware, For CJ Bracket 12-13" Deep Seat	2	1
8			Insert, Non-Threaded Back Cane (For Back Heights 20" and Lower)	1	2
10			Washer (1/4 x 23/32 x 1/16")	1	8
11			Locknut (1/4-20)	1	8
12			Spacer, Coved (1/4 x 11/16 x 1/2")	1	8
13			NLA - Bracket, Back Mounting, Black - Right	1	1
13			NLA - Bracket, Back Mounting, Black - Left	1	1
14			Screw, Hex Head (1/4-20 x 1-5/8")	1	4
5	A,E	1070500-NLA	Kit, Back Cane Attaching Hardware, For CJ Bracket 14-15" Deep Seat	2	1
8			Insert, Non-Threaded Back Cane (For Back Heights 20" and Lower)	1	2
10			Washer (1/4 x 23/32 x 1/16")	1	8
11			Locknut (1/4-20)	1	8
12			Spacer, Coved (1/4 x 11/16 x 1/2")	1	8
13			NLA - Bracket, Back Mounting, Black - Right	1	1
13			NLA - Bracket, Back Mounting, Black - Left	1	1
14			Screw, Hex Head (1/4-20 x 1-5/8")	1	4
5	B,C	1070457-NLA	NLA - Kit, Back Cane Attaching Hardware	2	1
6			Locknut (5/16-24)	1	2
7			Screw w/ Lug (5/16-24 x 1-3/8")	1	2
8			Insert, Non-Threaded Back Cane (For Back Heights 20" and Lower)	1	2
9			Screw, Hex Head (1/4-20 x 1-5/8")	1	4
10			Washer (1/4 x 23/32 x 1/16")	1	4
11			Locknut (1/4-20)	1	4
12			Spacer, Coved (1/4 x 11/16 x 1/2")	1	4
5	B,D	1070458-NLA	NLA - Kit, Back Cane Attaching Hardware	2	1
6			Locknut (5/16-24)	1	2
7			Screw w/ Lug (5/16-24 x 1-3/8")	1	2
8			NLA - Insert, Non-Threaded Back Cane (For Back Heights 21" and Higher)	1	2
9			Screw, Hex Head (1/4-20 x 1-5/8")	1	4
10			Washer (1/4 x 23/32 x 1/16")	1	4
11			Locknut (1/4-20)	1	4
12			Spacer, Coved (1/4 x 11/16 x 1/2")	1	4

Back Canes, Spreader Bars and Attaching Hardware

NOTE: Chairs manufactured with a seat width, seat depth or back height of 20" and greater including all heavy duty packages will be equipped with a spreader bar standard.

NOTE: A - Includes items 8 and 10-14
B - Includes items 6-12
C - Used for 12"-20" high back canes
D - Used for 21"-24" high back canes
E - Prior to 7/9/04 new back cane attaching hardware must be ordered for 12"-15" deep seats that use CJ brackets. The threaded insert was replaced with a non-threaded insert for 12"-20" high back canes.

Back Canes, Spreader Bars and Attaching Hardware

NOTE: Chairs manufactured with a seat width, seat depth or back height of 20" and greater including all heavy duty packages will be equipped with a spreader bar standard.

#1 Back Cane Assemblies

Back Height	Back Cane- No Push Handle 10 Deg. Bend	Back Cane- Push Handle Straight	Back Cane- Push Handle 10 Deg. Bend
12"	1045241-NLA	1045253-NLA	1049955-NLA
13"	1045242-NLA	1045254-NLA	1049956-NLA
14"	1045243-NLA	1045255-NLA	1049957-NLA
15"	1045244-NLA	1045256-NLA	1049958-NLA
16"	1048992-NLA	1048558	1045575
17"	1048993-NLA	1048559	1045576
18"	1048994-NLA	1048560	1045577
19"	1048995-NLA	1048561	1045578
20"	1048996-NLA	1048562	1045579-NLA
21"	N/A	N/A	1052227-NLA
22"	N/A	N/A	1052230
23"	N/A	N/A	1054521-NLA
24"	N/A	N/A	1054524-NLA

NOTE: Back Cane Assemblies include Foam Grips and Plug Buttons where shown

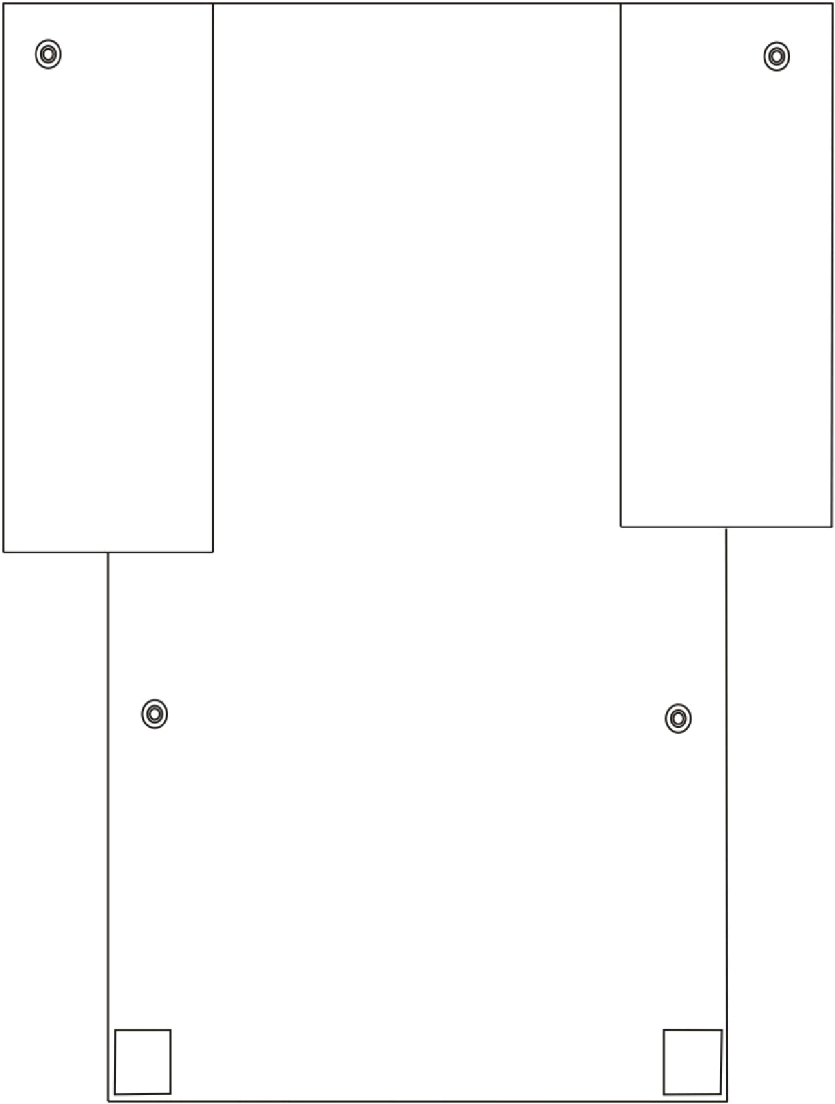
Back Canes, Spreader Bars and Attaching Hardware

NOTE: Chairs manufactured with a seat width, seat depth or back height of 20" and greater including all heavy duty packages will be equipped with a spreader bar standard.

#2 Spreader Bar

Chair Width	Part Number
14"	1043871-NLA
15"	1043872-NLA
16"	1043873
17"	1043874
18"	1043875
19"	1043876
20"	1043877
21"	1043878-NLA
22"	1043879-NLA
23"	1043880-NLA
24"	1043881-NLA

Back Upholstery
Non-Recliner



Back Upholstery

Non-Recliner

Nylon Single Liners

Back Width	12-13" H	14-15" H	16-17" H	18-19" H	20" H	21-22" H	23-24" H
12" W	1045221-NLA	1045222-NLA	1045257-NLA	1045258-NLA	N/A	N/A	N/A
13" W	1045223-NLA	1045224-NLA	1045259-NLA	1045260-NLA	N/A	N/A	N/A
14" W	1049939-NLA	1049942	1045173	1045205	1068945	1045157	1054527-NLA
15" W	1049940-NLA	1049943-NLA	1045174	1045206	1068946	1045158	1054528-NLA
16" W	1049941-NLA	1049944	1045175	1045207	1068947	1045159	1054529
17" W	N/A	1049945	1045176	1045208	1068948	1045160	1054530
18" W	N/A	1049946	1045177	1045209	1068949	1045161	1054531

Dual Liners

Back Width	16-17" H	18-19" H	20" H	21-22" H	23-24" H
14" W	1045178	1045210	1068950	1045162	1054532
15" W	1045179	1045211	1068951	1045163	1054533
16" W	1045180	1045212	1068952	1045164	1054534
17" W	1045181	1045213	1068953	1045165	1054535
18" W	1045182	1045214	1068954	1045166	1054536
19" W	1045183	1045215	1068955	1045167	1054537
20" W	1045184	1045216	1068956	1045168	1054538
21" W	1045185	1045217	1068957	1045169	1054539
22" W	1045186	1045218	1068958	1045170	1054540
23" W	1045187-NLA	1045219-NLA	1068959-NLA	1045171-NLA	1054541-NLA
24" W	1045188-NLA	1045220-NLA	1068960-NLA	1045172-NLA	1054542-NLA

NOTE: Dual liner back upholstery is used with chairs that have a seat deeper than 17" or back width than 18"

Back Upholstery

Non-Recliner

Nylon Back Upholstery Hardware

Part Number	Consists Of:
1026298	2 ea. Screw with Washer (#10 x 7/8")
	2 ea. Cable Ties

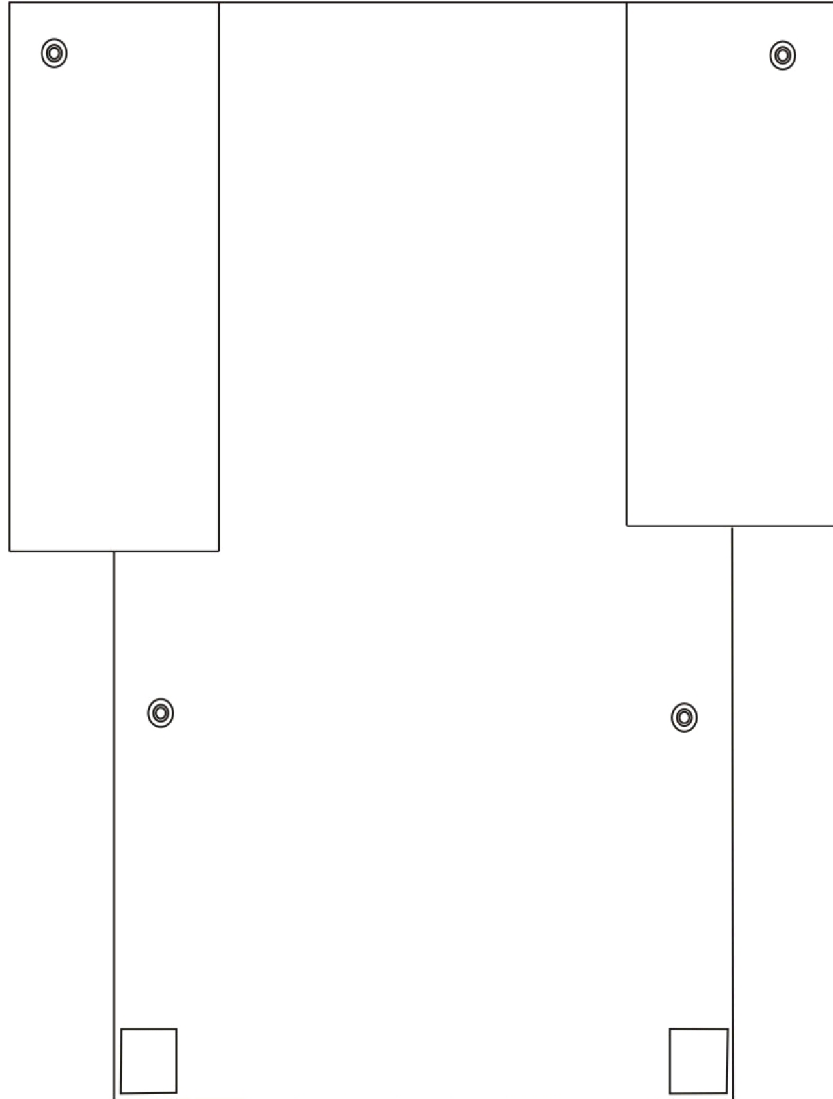
Back Upholstery

Non-Recliner

Vinyl

Use Nylon Upholstery as a replacement for Vinyl selections that are No Longer Available.

NOTE: Specify upholstery color when ordering.



Back Upholstery

Non-Recliner

Vinyl

Use Nylon Upholstery as a replacement for Vinyl selections that are No Longer Available.

NOTE: Specify upholstery color when ordering.

Vinyl Single Liners

Back Width	12-13" H	14-15" H	16-17" H	18-19" H	20" H	21-22" H	23-24" H
12" W	8881045225-NLA	8881045226-NLA	8881045261-NLA	8881045262-NLA	N/A	N/A	N/A
13" W	8881045227-NLA	8881045228-NLA	8881045263-NLA	8881045264-NLA	N/A	N/A	N/A
14" W	8881049947-NLA	8881049950-NLA	8881045076-NLA	8881045060-NLA	8881068961	8881045125-NLA	8881054543-NLA
15" W	8881049948-NLA	8881049951	8881045077-NLA	8881045061-NLA	8881068962	8881045126-NLA	8881054544-NLA
16" W	8881049949-NLA	8881049952-NLA	8881045078-NLA	8881045062-NLA	8881068963-NLA	8881045127-NLA	8881054545-NLA
17" W	N/A	8881049953-NLA	8881045079-NLA	8881045063-NLA	8881068964-NLA	8881045128-NLA	8881054546-NLA
18" W	N/A	8881049954-NLA	8881045080-NLA	8881045064-NLA	8881068965-NLA	8881045129-NLA	8881054547-NLA

Vinyl Dual Liners

Back Width	16-17" H	18-19" H	20" H	21-22" H	23-24" H
14" W	8881045081-NLA	8881045065-NLA	8881068966-NLA	8881045130-NLA	8881054548-NLA
15" W	8881045082-NLA	8881045066-NLA	8881068967-NLA	8881045131-NLA	8881054549-NLA
16" W	8881045083-NLA	8881045067-NLA	8881068968-NLA	8881045132-NLA	8881054550-NLA
17" W	8881045084-NLA	8881045068-NLA	8881068969-NLA	8881045133-NLA	8881054551-NLA
18" W	8881045085-NLA	8881045069-NLA	8881068970-NLA	8881045134-NLA	8881054552-NLA
19" W	8881045086-NLA	8881045070-NLA	8881068971	8881045135-NLA	8881054553-NLA
20" W	8881045087-NLA	8881045071-NLA	8881068972-NLA	8881045136-NLA	8881054554-NLA
21" W	8881045088-NLA	8881045072-NLA	8881068973-NLA	8881045137-NLA	8881054555-NLA
22" W	8881045089-NLA	8881045073-NLA	8881068974-NLA	8881045138-NLA	8881054556-NLA
23" W	8881045090-NLA	8881045074-NLA	8881068975-NLA	8881045139-NLA	8881054557-NLA
24" W	8881045091-NLA	8881045075-NLA	8881068976-NLA	8881045140-NLA	8881054558-NLA

NOTE: Dual liner back upholstery is used with chairs that have a seat deeper than 17" or back wider than 18".

Back Upholstery

Non-Recliner

Vinyl

Use Nylon Upholstery as a replacement for Vinyl selections that are No Longer Available.

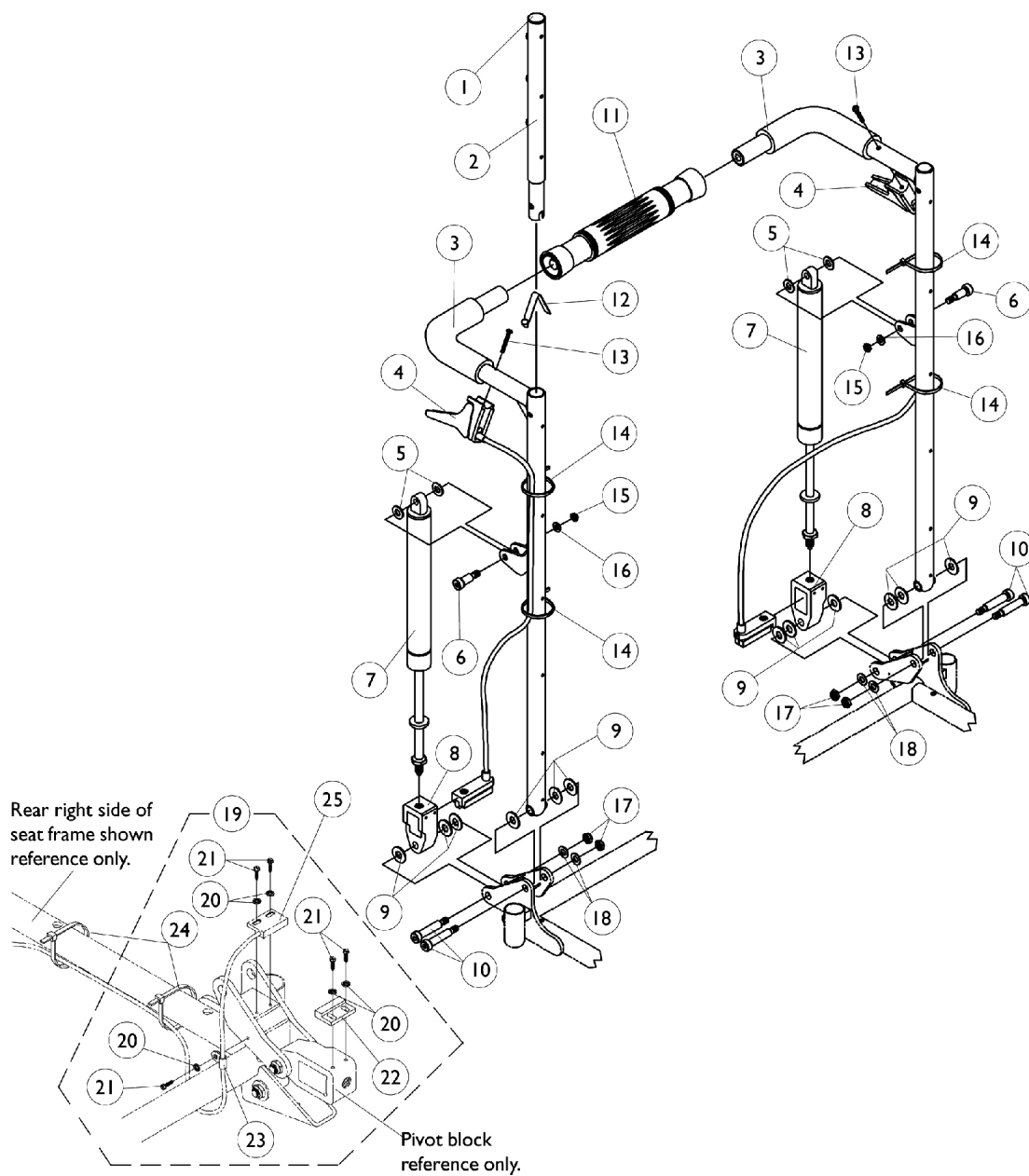
NOTE: Specify upholstery color when ordering.

Vinyl Back Upholstery Hardware

Part Number	Consists Of:
1026298	2 ea. Screw with Washer (#10 x 7/8")

Recliner Back Assembly

NOTE: When converting a non-recliner to a manual recline, a recline wire harness must be ordered as well. See Battery Charger and Harness page.



NOTE: Sensor actuator used with a recliner harness and sensor cable to serve as a drive lockout safety feature.

Recliner Back Assembly

NOTE: When converting a non-recliner to a manual recline, a recline wire harness must be ordered as well. See Battery Charger and Harness page.

Item #3 - Back Cane with Grip

Back Height	16-17" W Right	16-17" W Left	18-24" W Right	18-24" W Left
18" H	1052079	1052080	1052089	1052090
20" H	1052081	1052082	1052091	1052092
22" H	1052083	1052084	1052093	1052094
24" H	1052085	1052086	1052095	1052096
26" H	1052087	1052088	1052097	1052098

Recliner Back Assembly

NOTE: When converting a non-recliner to a manual recline, a recline wire harness must be ordered as well. See Battery Charger and Harness page.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027095	Plug Button, Black (7/8")	1	2
2		1052997-NLA	NLA - Headrest Tube Assembly, Black - Right	1	1
2		1052998-NLA	NLA - Headrest Tube Assembly, Black - Left	1	1
3		See Chart	#3 Recliner Back Assembly	1	1
4	A,B,F	1050214	Cable with Trigger	1	2
4	A,B,G	1050215	Cable with Trigger	1	2
4	A,B,H	1050216	Cable with Trigger	1	2
5		1026032	Washer, Nylon (11/32 x 11/16 x 1/16")	1	4
6		1050153	Screw, Shoulder Hex Socket Head (5/16 x 7/8", 1/4-20)	1	2
7	C	1050154	Cylinder, Lock, Recline	1	2
7	D	1050306	Cylinder, Lock	1	2
8		1050136	Pivot, Block	1	2
9		1012371	Washer, Nylon (3/8 x 7/8 x 1/16")	1	12
10		1031665	Screw, Shoulder Hex Socket Head (3/8 x 1-1/2", 5/16-18)	1	4
11	I	1050293	Bar, Spreader, Black (14-20" W)	1	1
11	J	1050294	Bar, Spreader, Black (21-24" W)	1	1
12		1024713	Spring, Torsion w/ Button	1	2
13		1025714	Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
13	A,B	1091417-NLA	NLA - Screw, Phillips Pan Head (#10-24 x 1-1/4")	1	2
14		1021260	Tie Wrap (5-5/8" L)	1	6
15		1025736	Locknut (1/4-20)	1	2
16		1026907	Washer (1/4 x 1/2 x 1/16")	1	2
17		1026158	Locknut (5/16-18)	1	4
18		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	4
19	E	1053178-NLA	NLA - Switch Assembly, Limit	1	1
20		1008525-NLA	NLA - Washer, Internal Tooth Lock (#4-40)	1	5
21		1025116-NLA	NLA - Screw, Slotted Hex Washer Head Tap (#4-3/8")	1	5
22		1024001	Sensor, Actuator Switch	1	1
23		1050310-NLA	NLA - Clamp, Cable	1	1
24		1021260	Tie Wrap (5-5/8" L)	1	2
25		1092913-NLA	NLA - Cable, Drive Lockout Sensor	1	1

Recliner Back Assembly

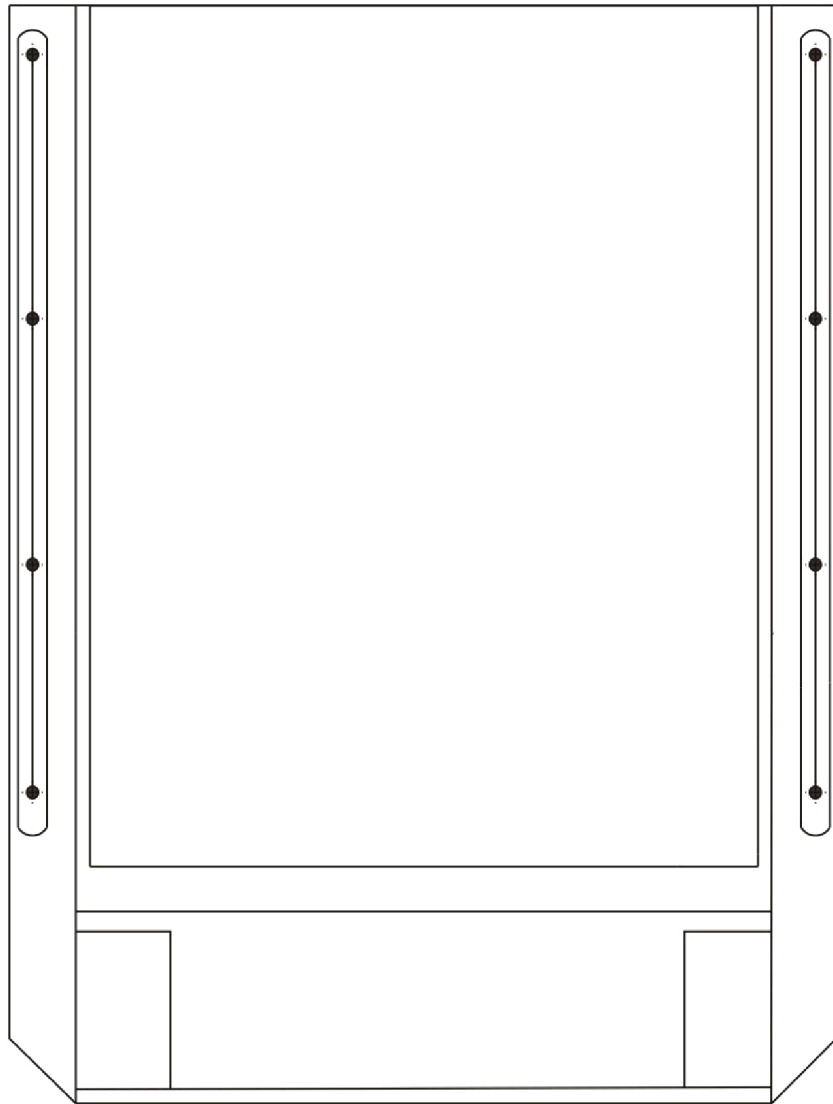
NOTE: When converting a non-recliner to a manual recline, a recline wire harness must be ordered as well. See Battery Charger and Harness page.

NOTE: A - When ordering cable assembly part # (1050215 or 1050216) for chairs made before 8/4/99 or part # (1050214) for chairs made before 2/1/2000, item 13 part # 1091417 must be ordered as well.
B - Lever fastener changed 8/4/99 from #10-32 threaded insert to #10-24 nut for item 4 part # 1050215 and 1050216 and 2/1/2000 for part # 1050214.
C - Standard 250 lb. capacity
D - Heavy duty 300 lb. (400 lb. on Arrow)
E - Includes items 20-24. Sensor is not included, see item 25
F - 26" High Canes.
G - 22-24" High Canes.
H - 18-20" High Canes.
I - 16-17" High Canes.
J - 18-24" High Canes.

Back Upholstery

Recliner

Nylon



Nylon Single Liners

Back Width	18" H	20" H	22" H	24" H	26" H
16" W	1050314	1050319	1050324	1050329	1050334
17" W	1050315	1050320	1050325	1050330	1050335-NLA
18" W	1050316	1050321	1050326	1050331	1050336

Back Upholstery Recliner Nylon Nylon Dual Liners

Back Width	18" H	20" H	22" H	24" H	26" H
16" W	1050339	1050339	1050361	1050372	1050383
17" W	1050340	1050351	1050362	1050373	1050384
18" W	1050341	1050352	1050363	1050374	1050385
19" W	1050342	1050353	1050364	1050375	1050386
20" W	1050343	1050354	1050365	1050376	1050387
21" W	1050344	1050355	1050366	1050377	1050388
22" W	1050345	1050356	1050367	1050378	1050389
23" W	1050346-NLA	1050357-NLA	1050368-NLA	1050379-NLA	1050390-NLA
24" W	1050347-NLA	1050358-NLA	1050369-NLA	1050380-NLA	1050391-NLA

NOTE: Dual liner back upholstery is used with chairs that have a seat deeper than 17" or back wider than 18".

Nylon Back Upholstery Hardware

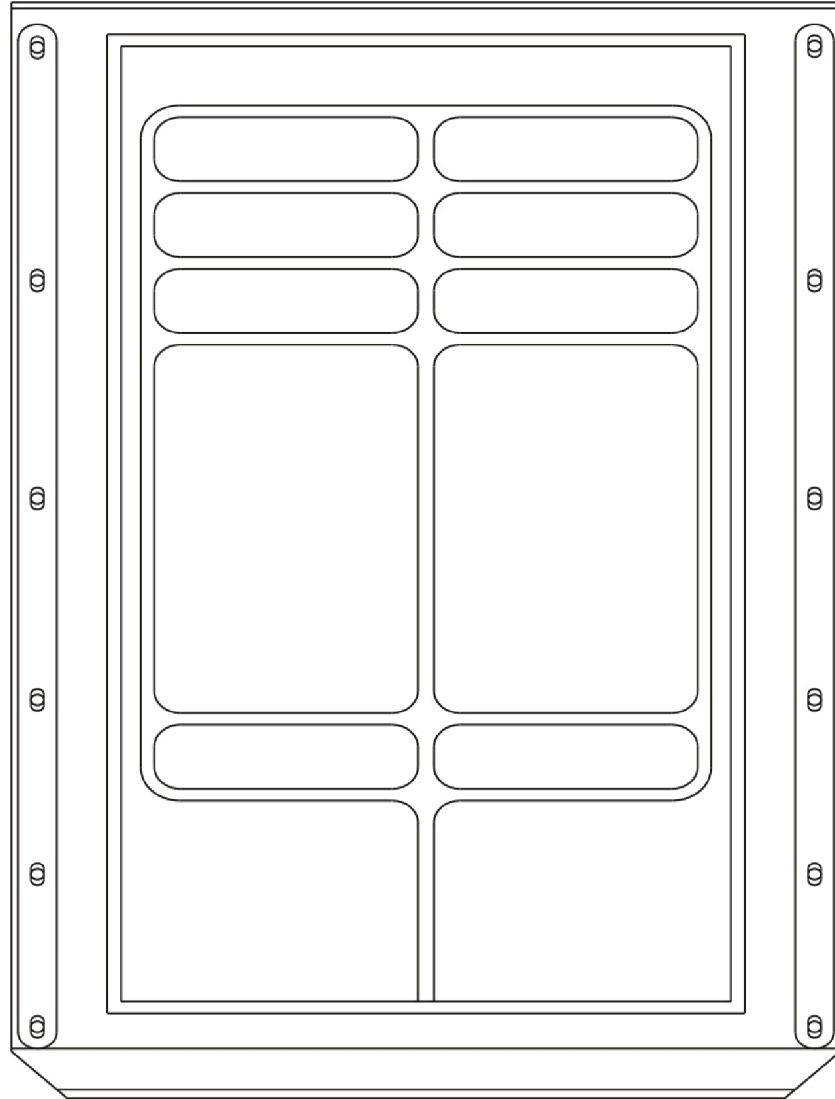
Part Number	Consists Of:
1027059	10 ea. Screw with Washer (#10 x 7/8")

Back Upholstery

Recliner

Vinyl

Use Nylon Upholstery as a replacement for Vinyl selections that are No Longer Available.
NOTE: Specify Upholstery Color when ordering.



Vinyl Single Liners

Back Width	18" H	20" H	22" H	24" H	26" H
16" W	8881050563-NLA	8881050568-NLA	8881050573-NLA	8881050578-NLA	8881050583-NLA
17" W	8881050564-NLA	8881050569-NLA	8881050574-NLA	8881050579-NLA	8881050584-NLA
18" W	8881050565-NLA	8881050570-NLA	8881050575-NLA	8881050580-NLA	8881050585-NLA

Back Upholstery

Recliner

Vinyl

Use Nylon Upholstery as a replacement for Vinyl selections that are No Longer Available.

NOTE: Specify Upholstery Color when ordering.

Vinyl Dual Liners

Back Width	18" H	20" H	22" H	24" H	26" H
16" W	8881050588-NLA	8881050599-NLA	8881050610-NLA	8881050621-NLA	8881050632-NLA
17" W	8881050589-NLA	8881050600-NLA	8881050611-NLA	8881050622-NLA	8881050633-NLA
18" W	8881050590-NLA	8881050601-NLA	8881050612-NLA	8881050623-NLA	8881050634-NLA
19" W	8881050591-NLA	8881050602-NLA	8881050613-NLA	8881050624-NLA	8881050635-NLA
20" W	8881050592-NLA	8881050603-NLA	8881050614-NLA	8881050625-NLA	8881050636-NLA
21" W	8881050593-NLA	8881050604-NLA	8881050615-NLA	8881050626-NLA	8881050637-NLA
22" W	8881050594-NLA	8881050605-NLA	8881050616-NLA	8881050627-NLA	8881050638-NLA
23" W	8881050595-NLA	8881050606-NLA	8881050617-NLA	8881050628-NLA	8881050639-NLA
24" W	8881050596-NLA	8881050607-NLA	8881050618-NLA	8881050629-NLA	8881050640-NLA

NOTE: Dual liner back upholstery is used with chairs that have a seat deeper than 17" or back wider than 18".

Vinyl Back Upholstery Hardware

Part Number	Consists Of:
1027059	10 ea. Screw with Washer (#10 x 7/8")

Headrest Upholstery and Pillows

Recliner

Nylon Headrest

Chair Width	Part Number
16" W	1054628-NLA
17" W	1055281-NLA
18" W	1054629-NLA
19" W	1055282-NLA
20" W	1055283-NLA
21" W	1055284-NLA
22" W	1055285-NLA
23" W	1055286-NLA
24" W	1055287-NLA

Vinyl Headrest

Chair Width	Part Number
16" W	8881054631
17" W	8881055289
18" W	8881054632-NLA
19" W	8881055290-NLA
20" W	8881055291-NLA
21" W	8881055292
22" W	8881055293
23" W	8881055294
24" W	8881055295

NOTE: Specify upholstery color when ordering.

Headrest Upholstery and Pillows

Recliner

Headrest Upholstery Attaching Hardware

Part Number	Consists Of:
1030441	6 ea. Screw with Washer (#10 x 7/8")

Vinyl Headrest Pillows

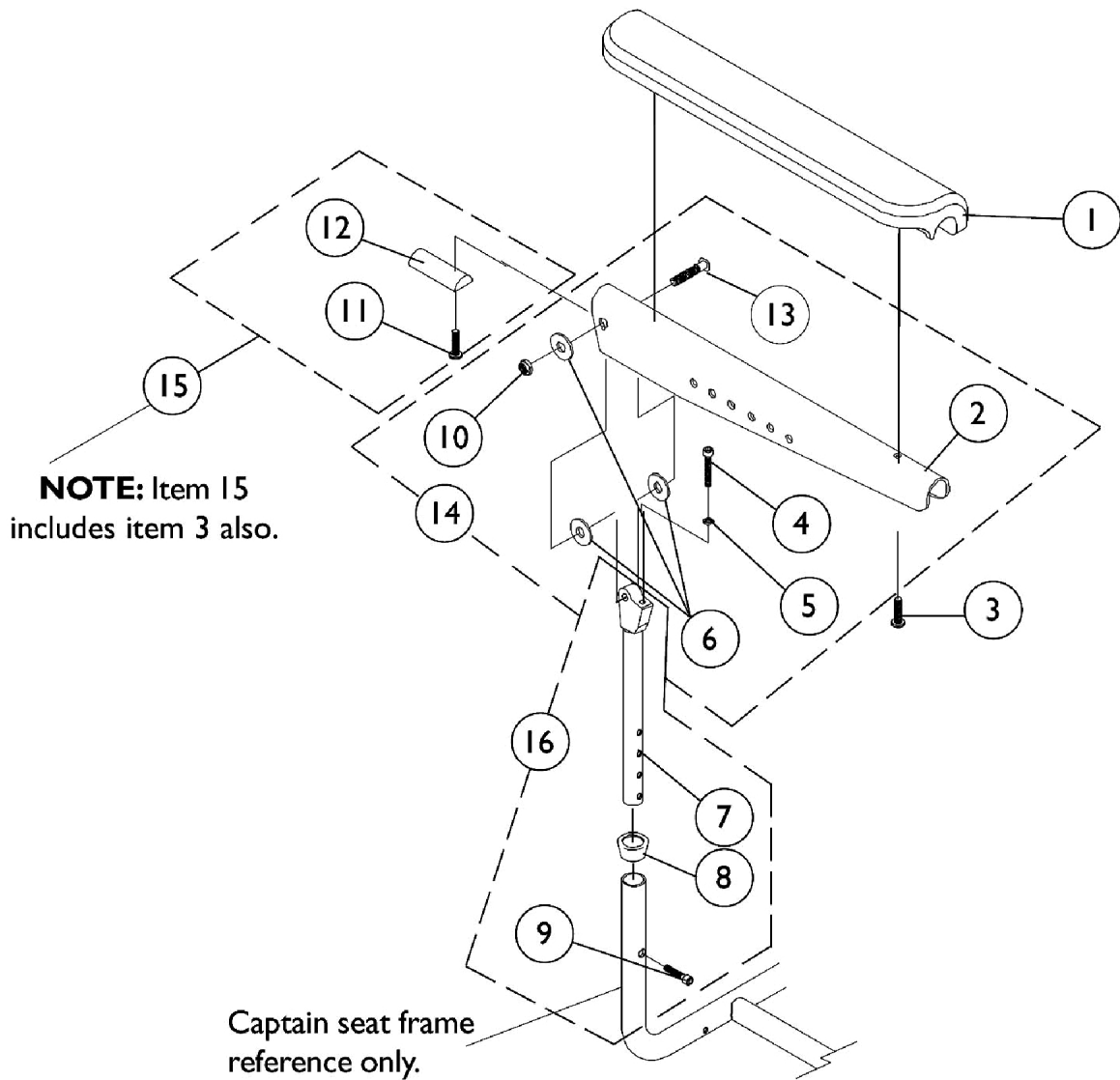
Chair Width	Part Number
16-18"	8881054619-NLA
19-22"	8881054623
23-24"	8881055277-NLA

Nylon Headrest Pillows

Chair Width	Part Number
16-18"	1054896
19-22"	1054598
23-24"	1055274-NLA

Captain Seat Arms and Hardware

18" Wide Models

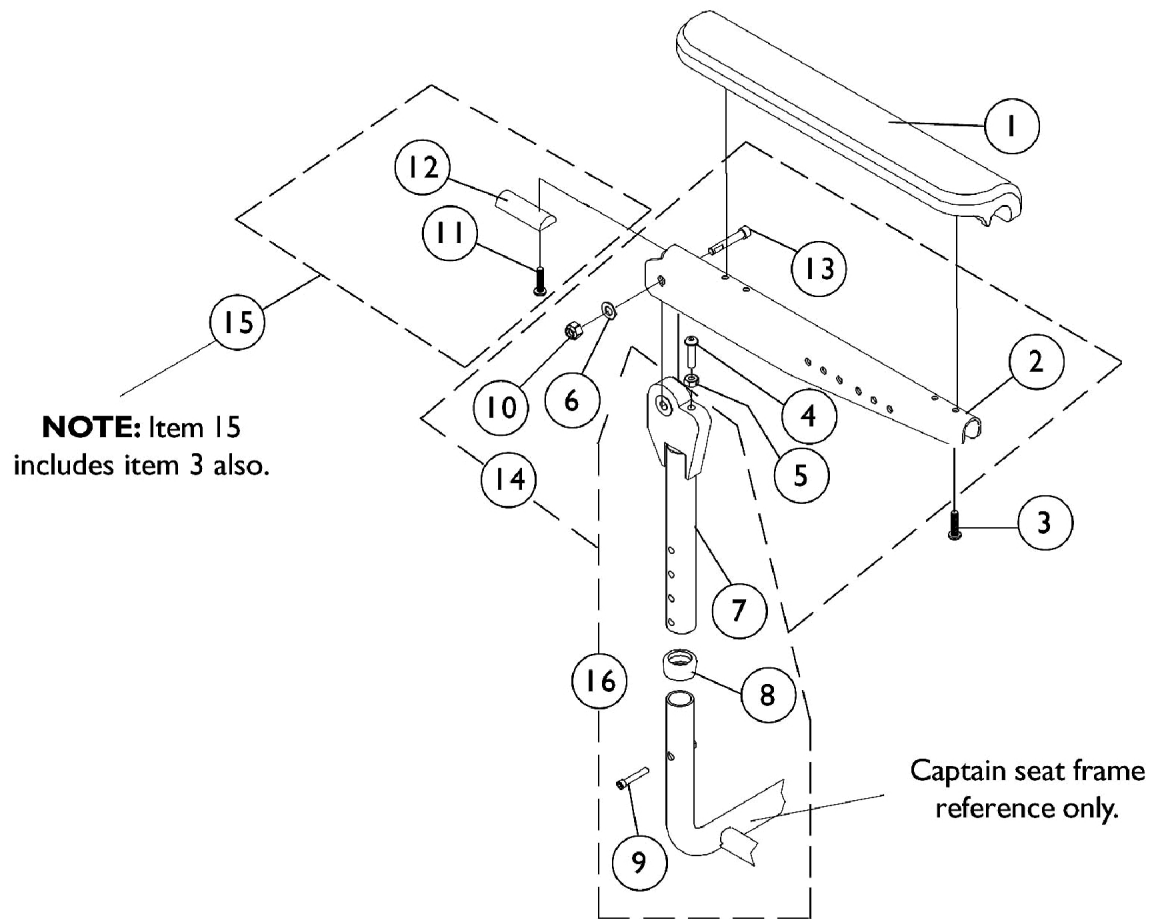


Captain Seat Arms and Hardware 18" Wide Models

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1117328	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W)	1	2
2		1071359-NLA	NLA - Plate, Armrest (Black)	1	2
3		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	4
4		1009837	Screw, Socket Button Head (1/4-20 x 1")	1	2
5		1025711-NLA	NLA - Nut, Hex (1/4-20)	1	2
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	6
7		1070928	Tube, Arm, Upper Height and Width Adjustable, Black	1	2
8		15680X013	Anti-Rattle (1")	1	2
9		7930304-NLA	NLA - Screw, Socket Head (1/4-20 x 1-1/4")	25	2
10		1026906-NLA	NLA - Locknut (5/16-24)	1	2
11		1102546-NLA	NLA - Screw, Phillips Pan Head (#10-32 x 7/8")	1	2
12		1070106-NLA	NLA - Insert, Armrest, Black	1	2
13		1031026	Screw w/ Lug (5/16-24 x 1-3/8")	1	2
14	B	1074120-NLA	NLA - Kit, Armrest Attaching Hardware (Pair)	2	1
15	C	1073378-NLA	NLA - Kit, Arm Pad Attaching Hardware	2	1
16	D	1070756-NLA	NLA - Arm Tube Assembly, Upper Adjustable (Pair)	2	1
NOTE: A - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs for chairs manufactured before 1/3/02. B - Includes items 2, 4, 5, 6, 10, 13 C - Includes items 3, 11, 12 D - Includes items 7-9					

Captain Seat Arms and Hardware

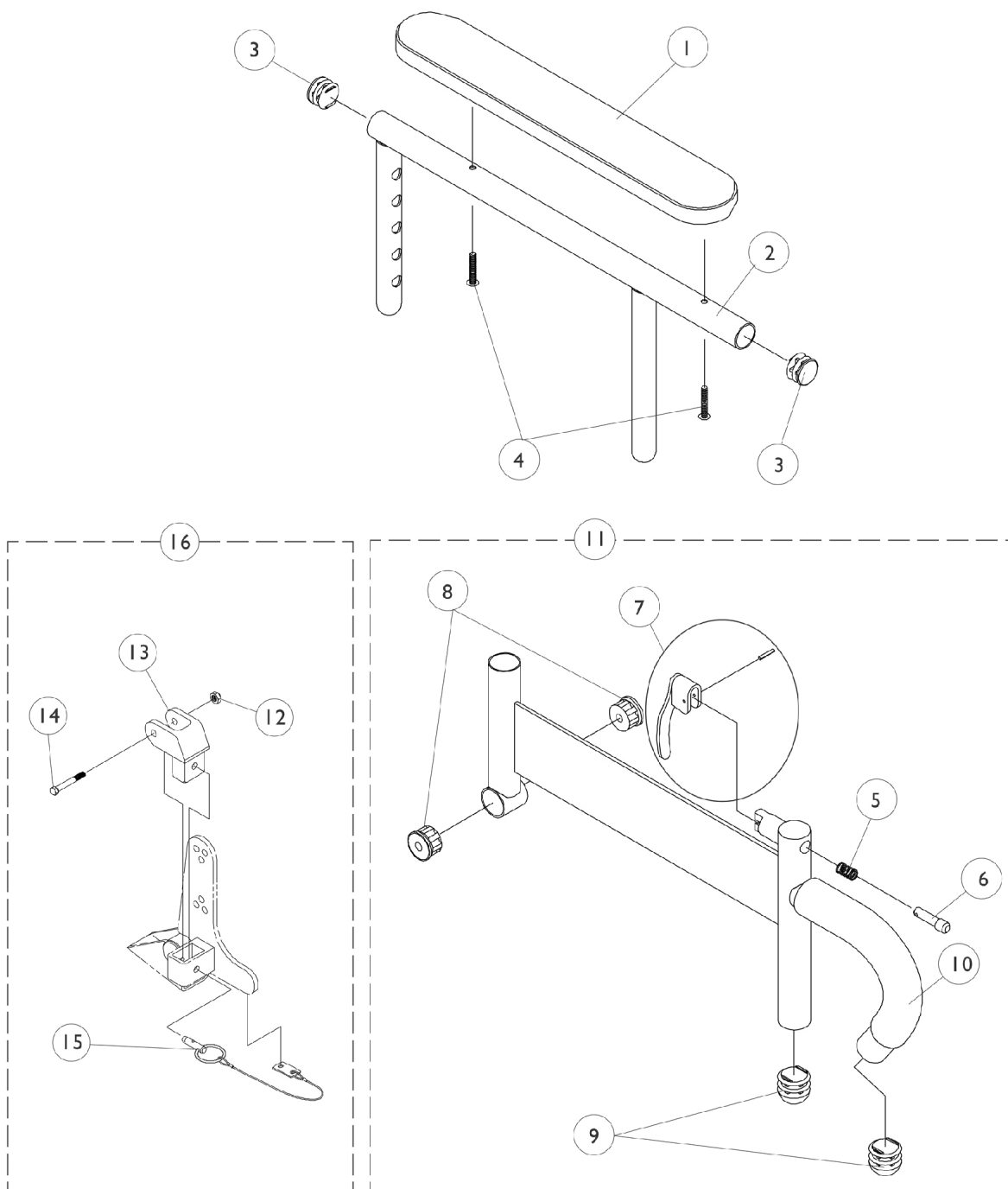
20" and 22" Wide Models



Captain Seat Arms and Hardware 20" and 22" Wide Models

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1117328	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W)	1	2
2		1101912-NLA	NLA - Plate, Armrest	1	2
3		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	2
4		1009837	Screw, Socket Button Head (1/4-20 x 1")	1	2
5		1025711-NLA	NLA - Nut, Hex (1/4-20)	1	2
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
7		1101914-NLA	NLA - Tube, Arm, Upper Adjustable, Black	1	2
8		1101110-NLA	NLA - Anti-Rattle	1	2
9		1038379	Screw, Socket Head Cap w/ Patch (1/4-20 x 1-1/2")	1	2
10		1026906-NLA	NLA - Locknut (5/16-24)	1	2
11		1102546-NLA	NLA - Screw, Phillips Pan Head (#10-32 x 7/8")	1	2
12		1101634-NLA	NLA - Insert, Armrest, Black	1	2
13		1031026	Screw w/ Lug (5/16-24 x 1-3/8")	1	2
14	B	1101917-NLA	NLA - Hardware, Armrest Attaching (Pair)	2	1
15	C	1101916-NLA	NLA - Hardware, Arm Pad Attaching (Pair)	2	1
16	D	1101915-NLA	NLA - Arm Tube Assembly, Upper Adjustable (Pair)	2	1
NOTE: A - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs for chairs manufactured before 1/3/02. B - Includes items 2, 4, 5, 6, 10, 13 C - Includes items 3, 11, 12 D - Includes items 7-9					

Arms, Junior Adjustable Height

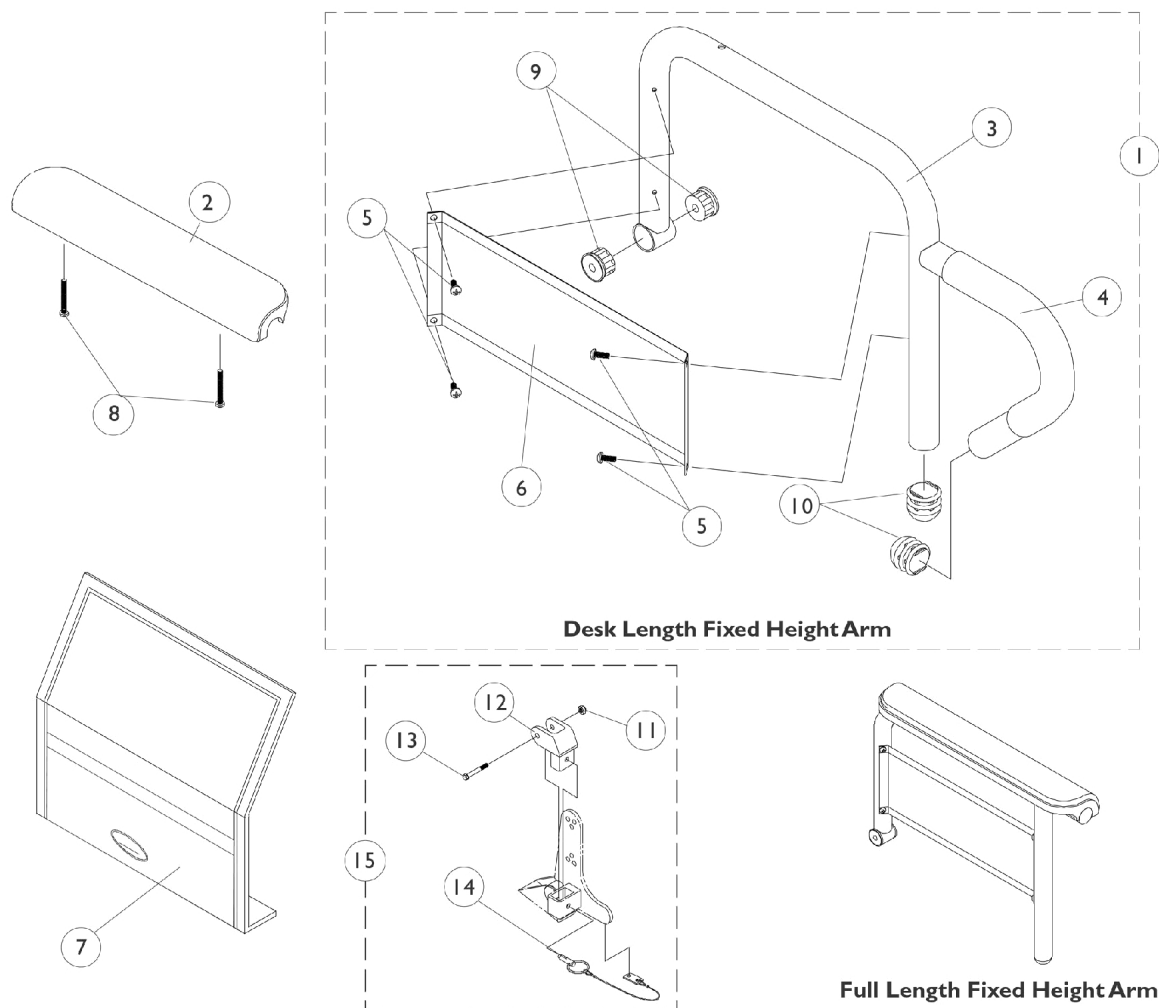


Arms, Junior Adjustable Height

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	8881015932-NL A	NLA - Pad, Arm, Vinyl, Full Length - Right (14" L x 2" W)	1	1
1	A	8881015933-NL A	NLA - Pad, Arm, Vinyl, Full Length - Left (14" L x 2" W)	1	1
1	A	8881053577	Kit, Arm Pad w/ Screws, Full Length (14" L x 2" W) (Pair)	2	1
1	A	8881011811-NL A	NLA - Pad, Arm, Vinyl, Desk Length (9" L x 2" W)	1	1
1	A	8881053578	Kit, Arm Pad w/ Screws, Desk Length (9" L x 2" W) (Pair)	2	1
2		1071263	Arm Tube Assembly w/ Plug Buttons, Full Length, Black - Right/Left	1	1
2		1071259	Arm Tube Assembly w/ Plug Buttons, Desk Length, Black - Right/Left	1	1
3		1027095	Plug Button, Black (7/8")	1	2
4		1055949	Package, Screw, Phillips Pan Head (#10-32 x 1-3/8")	2	1
5		47471X074	Spring, Arm Lock	1	1
6		1028594	Pin, Arm Lock, Black	1	1
7		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
8		1065936	Plug, Pivot	1	2
9		1067734	Plug Button, Black (5/8")	1	2
10		1016298	Grip, Push Handle	1	1
11		1068585	Arm Base Assembly, Adjustable Height, Black - Right	1	1
11		1068586	Arm Base Assembly, Adjustable Height, Black - Left	1	1
12		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
13		1068025	Clevis, Pivot	1	1
14		1019590	Screw, Socket Button Head (1/4-20 x 1-5/8")	1	1
15		1068039	Pin, Pull	1	1
16		1068488	Kit, Swingaway Armrest Mounting Hardware	1	1
	B	1045203-NLA	NLA - Decal, Junior	1	1

NOTE: A - Specify upholstery color when ordering.
B - Not Shown.

Arms, Fixed Height



Item #1 - Arms Less Pad

Arm Style	16-19" Deep Seat Frames Right	16-19" Deep Seat Frames Left	20" and Deeper Seat Frames Right	20" and Deeper Seat Frames Left
Desk	1068566-NLA	1068567-NLA	1068540-NLA	1068541-NLA
Full	1068559-NLA	1068560-NLA	1068528-NLA	1068529-NLA

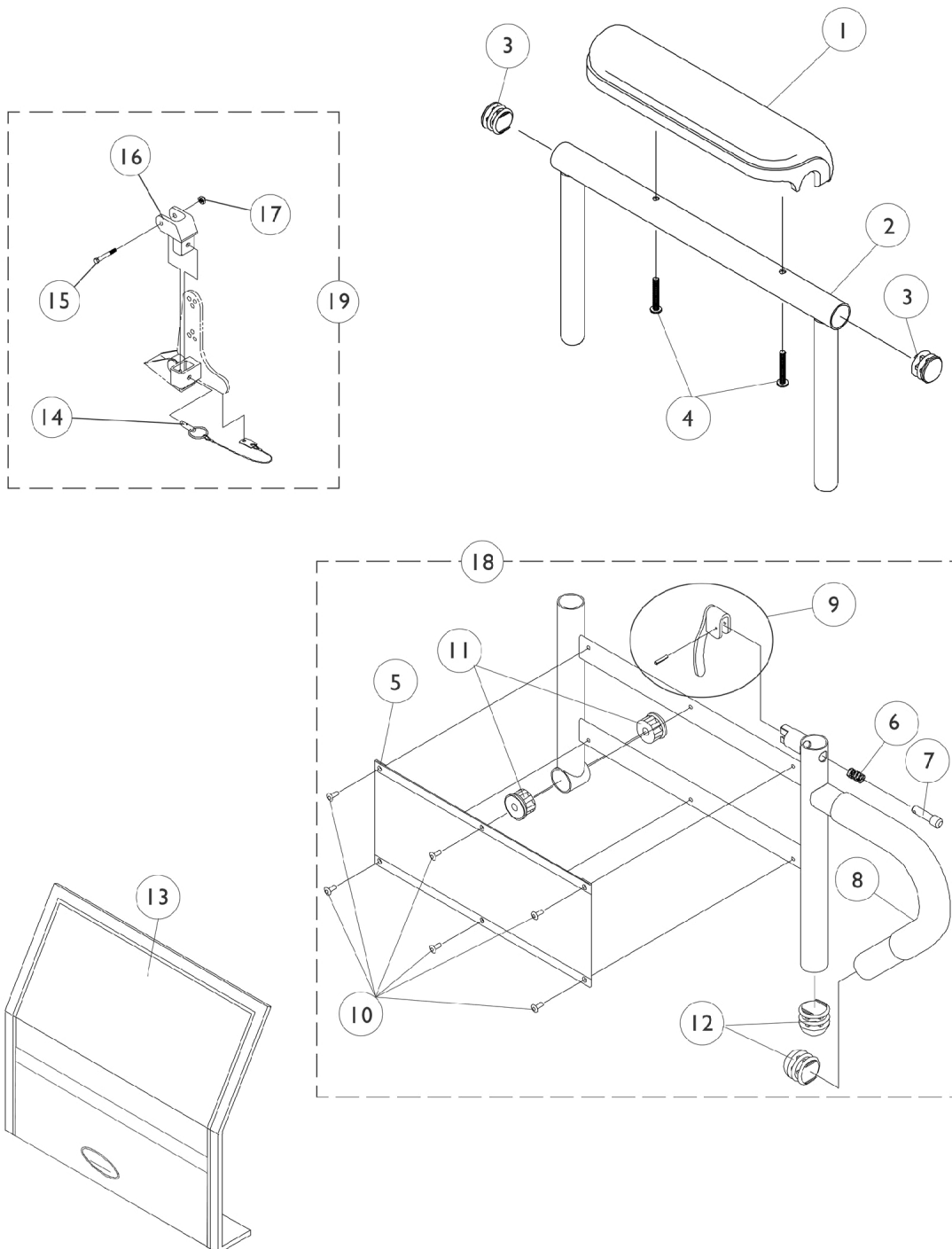
Arms, Fixed Height

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		See Chart	#1 Arms Less Pad	1	1
2	A	1117328	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W)	1	1
2		1110818	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W) (Pair)	2	1
2	A	1117327	Kit, Arm Pad w/ Screws, Desk Length, Urethane Waterfall, Black (9" L x 2-5/8" W)	1	1
2		1110817	Kit, Arm Pad w/ Screws, Desk Length, Urethane Waterfall, Black (9" L x 2-5/8" W) (Pair)	2	1
3		1068564	Tube, Arm, Desk Length, Black - Right (16-19" D)	1	1
3		1068565-NLA	NLA - Tube, Arm, Desk Length, Black - Left (16-19" D)	1	1
3		1068414-NLA	NLA - Tube, Arm, Desk Length, Long, Black - Right (20" and Deeper)	1	1
3		1068415-NLA	NLA - Tube, Arm, Desk Length, Long, Black - Left (20" and Deeper)	1	1
3		1068490	Tube, Arm, Full Length, Black - Right (16-19"D)	1	1
3		1068491-NLA	NLA - Tube, Arm, Full Length, Black - Left (16 - 19"D)	1	1
3		1068473-NLA	NLA - Tube, Arm, Full Length, Long, Black - Right (20" and Deeper)	1	1
3		1068474-NLA	NLA - Tube, Arm, Full Length, Long, Black - Left (20" and Deeper)	1	1
4		1032244	Grip, Foam Hand (9" L)	1	1
5		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	4
6		1035472-NLA	NLA - Guard, Clothing, Desk Length	1	1
6		1044572-NLA	NLA - Guard, Clothing, Full Length (16 - 19" D)	1	1
6		1044005-NLA	NLA - Guard, Clothing, Full Length (20" and Deeper)	1	1
7		1035065	Cover, Clothing Guard w/ Pocket, FXDESK & ADJFULL/ADJDESK	1	1
7		1044588	Cover, Clothing Guard with Pocket Fixed Height Full Length (20" and Deeper)	1	1
8		1055949	Package, Screw, Phillips Pan Head (#10-32 x 1-3/8")	2	1
8	B	1094270-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1-1/4")	2	1
9		1065936	Plug, Pivot	1	2
10		1067734	Plug Button, Black (5/8")	1	2
11		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
12		1068025	Clevis, Pivot	1	1
13		1019590	Screw, Socket Button Head (1/4-20 x 1-5/8")	1	1
14		1068039	Pin, Pull	1	1
15		1068488	Kit, Swingaway Armrest Mounting Hardware	1	1

Arms, Fixed Height

NOTE: A - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs with screws for chairs serviced before 1/3/02.
B - For Black Urethane Waterfall Armpads only.

Arms, Adjustable Height



Arms, Adjustable Height

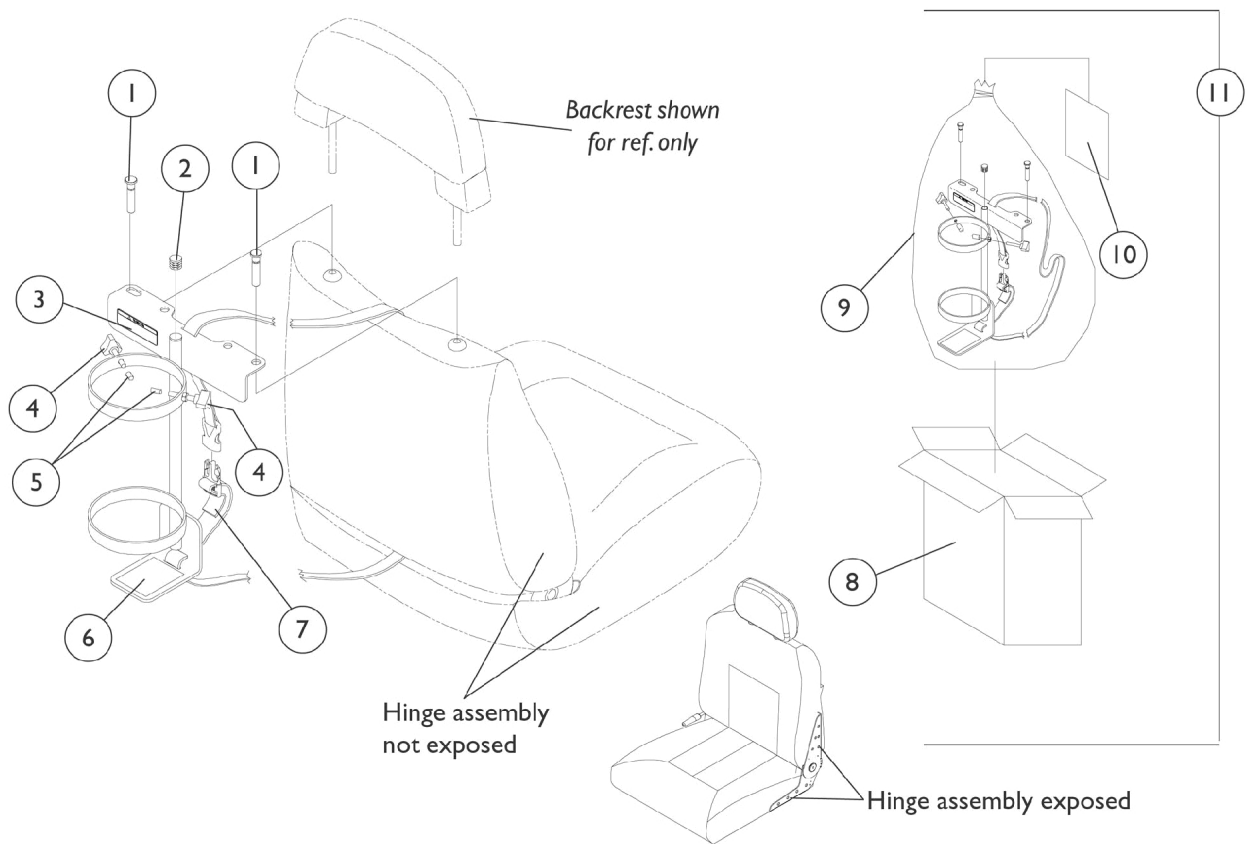
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1117328	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W)	1	1
1		1110818	Kit, Arm Pad w/ Screws, Full Length, Urethane Waterfall, Black (13" L x 2-5/8" W) (Pair)	2	1
1	A	1117327	Kit, Arm Pad w/ Screws, Desk Length, Urethane Waterfall, Black (9" L x 2-5/8" W)	1	1
1		1110817	Kit, Arm Pad w/ Screws, Desk Length, Urethane Waterfall, Black (9" L x 2-5/8" W) (Pair)	2	1
2		1071253	Arm Tube Assembly w/ Plug Buttons, Full Length, Black - Right/Left	1	1
2		1070859	Arm Tube Assembly w/ Plug Buttons, Desk Length, Black - Right/Left	1	1
3		1027095	Plug Button, Black (7/8")	1	2
4		1055949	Package, Screw, Phillips Pan Head (#10-32 x 1-3/8")	2	1
4	C	1094270-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1-1/4")	2	1
5	B	1064130-NLA	NLA - Guard, Clothing	1	1
6		47471X074	Spring, Arm Lock	1	1
7		1028594	Pin, Arm Lock, Black	1	1
8		1032244	Grip, Foam Hand (9" L)	1	1
9		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
10		1028645	Rivet	1	6
11		1065936	Plug, Pivot	1	2
12		1067734	Plug Button, Black (5/8")	1	2
13		1035065	Cover, Clothing Guard w/ Pocket, FXDESK & ADJFULL/ADJDESK	1	1
14		1068039	Pin, Pull	1	1
15		1019590	Screw, Socket Button Head (1/4-20 x 1-5/8")	1	1
16		1068025	Clevis, Pivot	1	1
17		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
18	B	1068416	Arm Base Assembly, Black - Right (16-19" D)	1	1
18	B	1068417	Arm Base Assembly, Black - Left (16-19" D)	1	1
18	B	1068418	Arm Base Assembly, Black - Right (20" and Deeper)	1	1
18	B	1068419	Arm Base Assembly, Black - Left (20" and Deeper)	1	1
18	B	1067761	Arm Base Assembly, 1" Lower, Black - Right (16-19" D)	1	1
18	B	1067762	Arm Base Assembly, 1" Lower, Black - Left (16-19" D)	1	1
18	B	1067755-NLA	NLA - Arm Base Assembly, 1" Lower, Black - Right (20" and Deeper)	1	1
18	B	1067756-NLA	NLA - Arm Base Assembly, 1" Lower, Black - Left (20" and Deeper)	1	1
19		1068488	Kit, Swingaway Armrest Mounting Hardware	1	1

Arms, Adjustable Height

NOTE: A - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs with screws for chairs serviced before 1/3/02.
B - Stainless steel clothing guards were replaced with ABS plastic. Chairs manufactured before 7/30/97 should be ordered in pairs to match.
C - For Black Urethane Waterfall Armpads only.

Oxygen Holder Assembly Kit Before 4/15/03

Captain Seat, Low Back Models Only



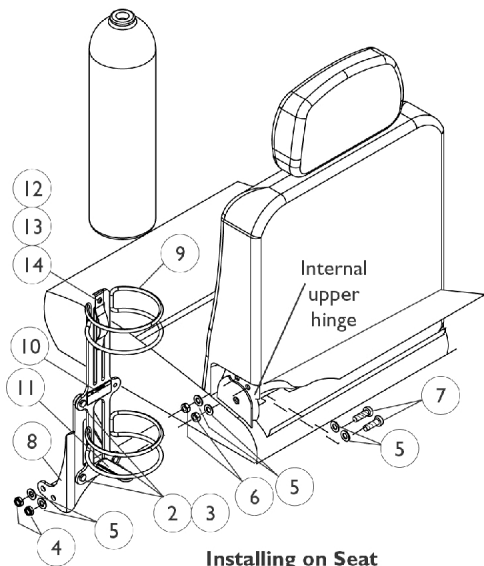
Oxygen Holder Assembly Kit Before 4/15/03

Captain Seat, Low Back Models Only

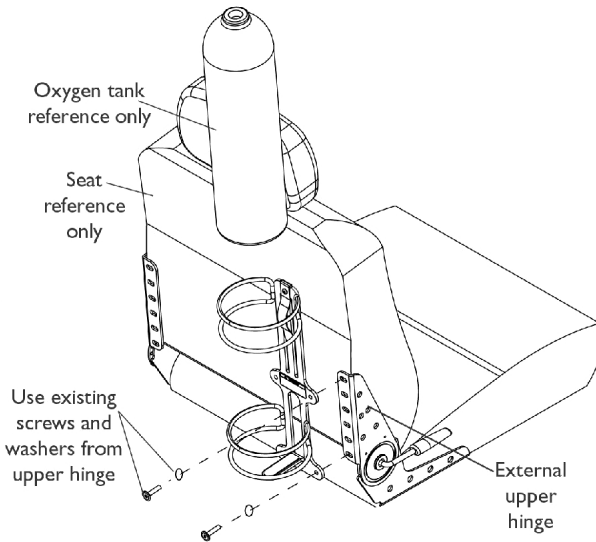
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080865-NLA	NLA - Pin, Oxygen Holder	1	2
2		1035614	Plug Button, Black (5/8")	1	1
3		1080866	Decal, Oxygen Warning - English	1	1
4		1027684	Knob, Clamping, Black	1	2
5		1086780-NLA	NLA - Package, Protective Cap	10	2
6		1073159-NLA	NLA - Pad, Non-Skid	1	1
7		1080872-NLA	NLA - Strap and Buckle Assembly	1	1
8		1083052-NLA	NLA - Carton, Shipper, Oxygen Holder	1	1
9		2000454-NLA	NLA - Bag, Poly (39" L x 33" W)	1	1
10		1080869-NLA	NLA - Instruction Sheet, Oxygen Holder	1	1
11	B,C	1080870-NLA	NLA - Oxygen Holder Assembly with Instruction Sheet	1	1
NOTE: A - Oxygen holder pins are to be used when backrest is absent. B - Includes items 1-10 C - Due to product improvement, see oxygen holder assemblies dated after 4/14/03 that will accommodate both (exposed and non-exposed) captain seat hinge assemblies. Special orders are no longer needed for exposed hinge assembly models.					

Oxygen Holder Assembly Kit After 4/14/03

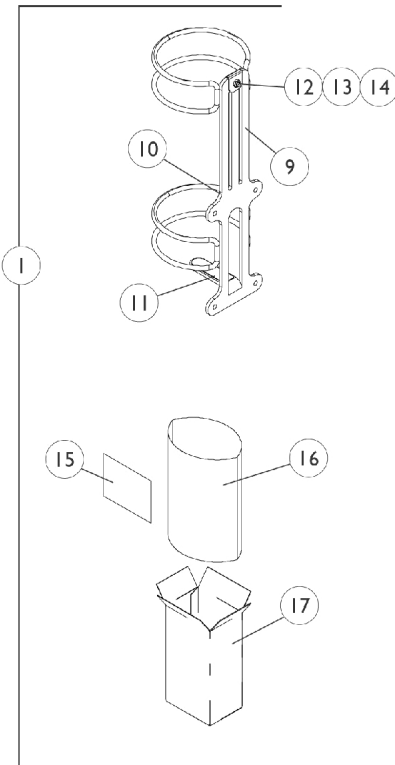
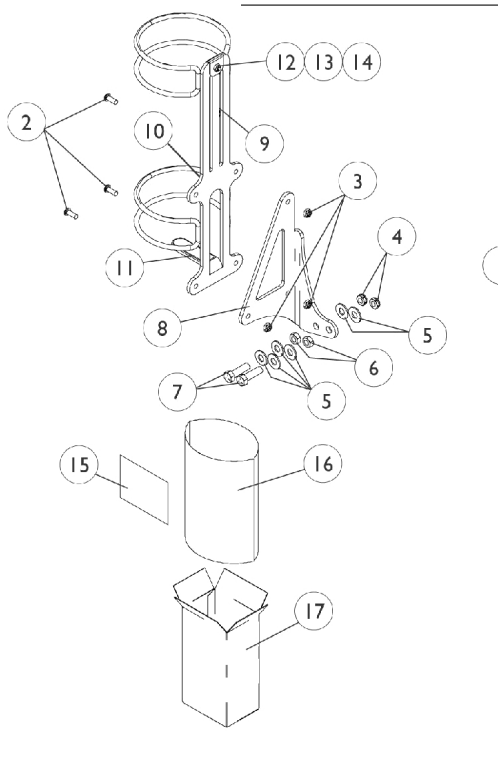
All Captain Seat Models



Installing on Seat with Internal Hinge



Installing on Seat with External Hinge



Oxygen Holder Assembly Kit After 4/14/03

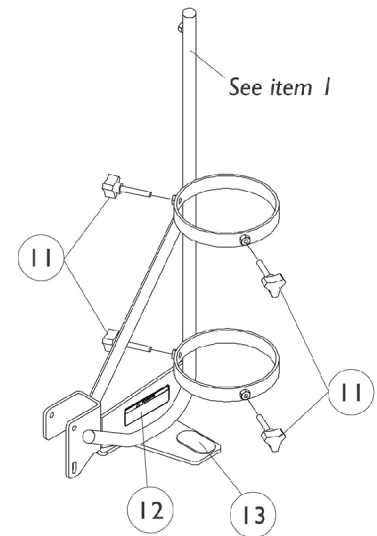
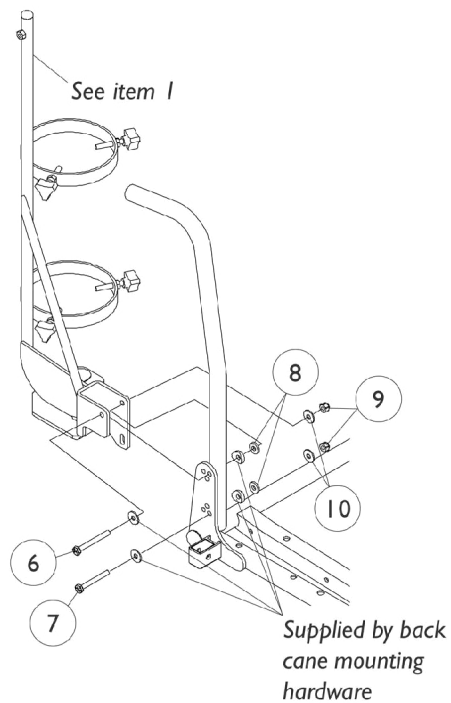
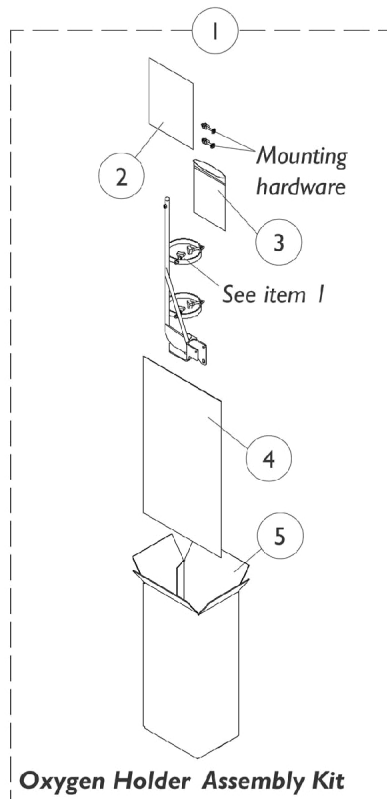
All Captain Seat Models

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1116952-NLA	NLA - Oxygen Holder Assembly Kit	1	1
1	B	1116956	Oxygen Holder Assembly(D or E Tanks)	1	1
2		1055304	Screw, Socket Button Head (1/4-28 x 5/8")	1	3
3		1025765	Locknut (1/4-28)	1	3
4		1028486	Locknut, Low Profile (3/8-16)	1	2
5		1118889-NLA	NLA - Washer, Steel (3/8 x 7/8 x 1/16")	1	6
6		1116954-NLA	NLA - Nut, Hex (3/8-16)	1	2
7		1118888-NLA	NLA - Screw, Hex Head (3/8-16 x 1-1/4")	1	2
8		1116953-NLA	NLA - Bracket, Oxygen Holder, Black	1	1
9	C	1116948	Holder, Oxygen	1	1
10		1080866	Decal, Oxygen Warning - English	1	1
11		1116950-NLA	NLA - Pad, Non-Skid	1	1
12		1116945	Spring, Oxygen Holder	1	1
13		1072319-NLA	NLA - Screw, Socket Button Head (#10-32 x 1/2")	1	1
14		1025735	Locknut (#10-32)	1	1
15	D	1116957-NLA	NLA - Instruction Sheet, Oxygen Holder	1	1
16		1021866-NLA	NLA - Bag, Poly (26" L x 15" W)	1	1
17		1063960	Carton	1	1
NOTE: A - For seats with an INTERNAL (Non-Visible) hinge assembly and includes items 2-17 B - For seats with an EXTERNAL (Visible) hinge assembly and includes items 9-17 C - Includes items 10-14 D - Item is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.					

Oxygen Holder Assembly Kit

A.S.B.A. Seats

NOTE: Oxygen holder is not available on recliner options and seat depths of 15" or less because of the CJ bracket interference.



Oxygen Holder Assembly Kit

A.S.B.A. Seats

NOTE: Oxygen holder is not available on recliner options and seat depths of 15" or less because of the CJ bracket interference.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1098857-NLA	NLA - Oxygen Holder Assembly Kit	1	1
2		1098333-NLA	NLA - Instruction Sheet, Oxygen Holder	1	1
3		1021148-NLA	NLA - Bag, Poly Zip-Lip (8-3/4" L x 6" W)	1	1
4		1021866-NLA	NLA - Bag, Poly (26" L x 15" W)	1	1
5		1097276-NLA	NLA - Carton, Shipper	1	1
6		1096839-NLA	NLA - Screw, Hex Head (1/4-20 x 2-1/4")	1	1
7		1096838-NLA	NLA - Screw, Hex Head (1/4-20 x 2")	1	1
8		1018739	Washer (1/4 x 5/8 x 3/32")	1	2
9		7930333	Locknut (1/4-20)	25	2
10		1026900	Washer (1/4 x 23/32 x 1/16")	1	2
11		1027684	Knob, Clamping, Black	1	4
12		1080866	Decal, Oxygen Warning - English	1	1
13		1072002-NLA	NLA - Pad, Non Skid	1	1

NOTE: A - Includes items 2-13

Front Riggings Reference Chart

For AT5544, 60HD, 70NHD, PW93, PW93E, 60MFX

NOTE: Calf pads with attaching hardware not included on legrest.

NOTE: Pivot/ Slide tube attaching hardware not included.

NOTE: Pivot/Slide tube and footplates do not include heel loops. See footrest and legrest accessories.

1651 = Composite footplate with 9-7/8" curved pivot/slide tube.
AT5543 = Adjustable angle footplate with 9-7/8" straight pivot/slide tube.
1450 = Deluxe aluminum footplate with "L" style pivot/slide tube.
1350 = Extra large footplate with "L" style pivot/slide tube.

Support Assemblies

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	AT5544	60HD	70NHD	PW93	PW93E	60MFX
Right	8881045291	8881053158	8881053149	8881070776	8881070768-NL A	8881026998
	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A
Left	8881045292	8881053157	8881053148	8881070777	8881070769-NL A	8881026999
	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A	See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touch-Up Paints".

Pivot/Slide Tube and Footplates

Footplate Type	1651 13-14" W	1651 15-16" W	1651 17-24" W	1350 17-24" W	AT5543 12-13" W	AT5543 14-15" W	AT5543 16-24" W
Right	1057859	1057869	1057879	1026395	1060442	1060444	1062756
Left	1057860	1057870	1057880	1026396	1060443	1060445	1062757

Front Riggings Reference Chart

For AT5544, 60HD, 70NHD, PW93, PW93E, 60MFX

2" Longer Pivot/Slide Tube and Footplates

Footplate Type	1651 13-14" W	1651 15-16" W	1651 17-24" W	1350 17-24" W	AT5543 12-13" W	AT5543 14-15" W	AT5543 16-24" W
Right	1057861	1057871	1057881	1086515	N/A	1062758	1062760
Left	1057862-NLA	1057872	1057882	1086517	N/A	1062759	1062761

4" Longer Pivot/Slide Tube and Footplates

Footplate Type	1651 13-14" W	1651 15-16" W	1651 17-24" W	1350 17-24" W	AT5543 12-13" W	AT5543 14-15" W	AT5543 16-24" W
Right	1058419-NLA	1058421	1058423	1086516	N/A	N/A	N/A
Left	1058420-NLA	1058422	1058424	1086518	N/A	N/A	N/A

Support Assembly

Rigging Type	AT5544
Right	8881045291 See Note(s) A
Left	8881045292 See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled Frame Finishes and Touch-Up Paints.

Pivot/Slide Tube and Footplates

Footplate Type	1450 16-24" W
Right	1028723-NLA
Left	1028724-NLA

Front Riggings Reference Chart

For P904, PAL4A, PAS4A

NOTE: Calf pads with attaching hardware not included on legrest.

NOTE: Pivot/Slide tube attaching hardware not included.

NOTE: Pivot/Slide tube and footplates do not include heel loops. See footrest and legrest accessories.

1650 = Aluminum footplate with "L" style pivot/slide tube.
AT5543 = Adjustable angle footplate with 9-7/8" straight pivot/slide tube.
1450 = Deluxe aluminum footplate with "L" style pivot/slide tube.
1350 = Extra large footplate with "L" style pivot/slide tube.

Support Assembly

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	P904
Right	8881058646-NLA See Note(s) A
Left	8881058647-NLA See Note(s) A

NOTE: A - Specify Frame Color when ordering, see page titled "Frame Color and Touch-Up Paint".

Pivot/Slide Tube and Footplates

Footplate Type	1650 14-15" W	1650 16-24" W	1450 16-24" W	1350 17-24" W	AT5543 14-15" W	AT5543 16-24" W
Right	1058612-NLA	1058604	1028723-NLA	1058830	1060444	1062756
Left	1058613-NLA	1058605	1028724-NLA	1058831	1060445	1062757

Front Riggings Reference Chart

For P904, PAL4A, PAS4A

2" Longer Pivot/Slide Tube and Footplates

Footplate Type	1650 14-15" W	1650 16-24" W	1450 16-24" W	1350 17-24" W	AT5543 14-15" W	AT5543 16-24" W
Right	N/A	1086529-NLA	N/A	1086541-NLA	1062758	1062760
Left	N/A	1086531-NLA	N/A	1086551-NLA	1062759	1062761

4" Longer Pivot/Slide Tube and Footplates

Footplate Type	1650 14-15" W	1650 16-24" W	1450 16-24" W	1350 17-24" W	AT5543 14-15" W	AT5543 16-24" W
Right	N/A	1086530-NLA	N/A	1086542-NLA	N/A	N/A
Left	N/A	1086532-NLA	N/A	1086552-NLA	N/A	N/A

Support Assembly

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	PAL4A/PAS4A (Chrome Only)
Right	1058482-NLA
Left	1058483-NLA

Pivot/Slide Tube and Footplates

Footplate Type	1650 14-15" W	1650 16-24" W	1450 16-24" W	1350 17-24" W	AT5543 14-15" W	AT5543 16-24" W
Right	1023905-NLA	1023907	1023924-NLA	1035456	1091775-NLA	1091777-NLA
Left	1023906-NLA	1023908	1023925-NLA	1035457	1091776-NLA	1091778-NLA

Front Riggings Reference Chart

For P93M

NOTE: Pivot/Slide tube attaching hardware not included.

NOTE: Pivot/Slide tube and footplates do not include heel loops. See footrest and legrest accessories.

1650 = Aluminum footplate with "L" style pivot/slide tube.
1450 = Deluxe aluminum footplate with "L" style pivot/slide tube.
1350 = Extra large footplate with "L" style pivot/slide tube.

Support Assemblies

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	P93M
Right	8881037836-NLA See Note(s) A
Left	8881037837-NLA See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touch-Up Paints".

Pivot/Slide Tube and Footplates

Footplate Type	1650 14-15" W	1650 16-24" W	1450 16-24" W	1350 17-24" W
Right	1058573-NLA	1057969-NLA	1028892-NLA See Note(s) A	1031924-NLA
Left	1058574-NLA	1057970-NLA	1028893-NLA See Note(s) A	1031925-NLA

NOTE: A - No longer available as a service part individually.

Front Riggings Reference Chart

For P93M

2" Longer Pivot/Slide Tube and Footplates

Footplate Type	1350 17-24" W
Right	1086519-NLA
Left	1086523-NLA

4" Longer Pivot/Slide Tube and Footplates

Footplate Type	1350 17-24" W
Right	1086520-NLA
Left	1086524-NLA

Front Riggings Reference Chart

For 70MFX and 90 SWING

NOTE: Footplates do not include heel loops. See footrest and legrest accessories.

AT5543 = Adjustable angle footplates without pivot/slide tubes.
AT5043 = Flip up footplates without pivot/slide tubes.

Support Assemblies

Footplates are interchangeable with the support assemblies listed.

Rigging Type	70MFX
Right	8881047481 See Note(s) A
Left	8881047480 See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touch-Up Paints".

Support Assemblies

Footplates are interchangeable with the support assemblies listed.

Rigging Type	90 SWING
Right	8881062596 See Note(s) A
Left	8881062597 See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touchup Paints".

Footplate Assemblies

Footplate Type	AT5043 12-16" W	AT5543 12-13" W	AT5543 14-15" W	AT5543 17-24" W
Right	1029434-NLA	1060436-NLA	1060438	1062570
Left	1029435-NLA	1060437	1060439	1062571

Front Riggings Reference Chart

For PW93ST and 70ST TAPER

NOTE: Pivot/Slide tube attaching hardware not included.

NOTE: Pivot/Slide tube and footplates do not include heel loops. See footrest and legrest accessories.

1651 = Composite footplate with 9-7/8" curved pivot/slide tube.

Support Assemblies

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	PW93ST
Right	8881070784-NLA See Note(s) A
Left	8881070785-NLA See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touch-Up Paints".

Support Assemblies

Pivot/Slide tube and footplates are interchangeable with the support assemblies listed.

Rigging Type	70ST TAPER
Right	8881026996 See Note(s) A
Left	8881026997 See Note(s) A

NOTE: A - Specify frame color when ordering, see page titled "Frame Finishes and Touch-Up Paints".

Pivot/Slide Tube and Footplates

Footplate Type	1651 15-17" W	1651 18-19" W	1651 20-24" W
Right	1057859	1057869	1057879
Left	1057860	1057870	1057880

Front Riggings Reference Chart

For PW93ST and 70ST TAPER

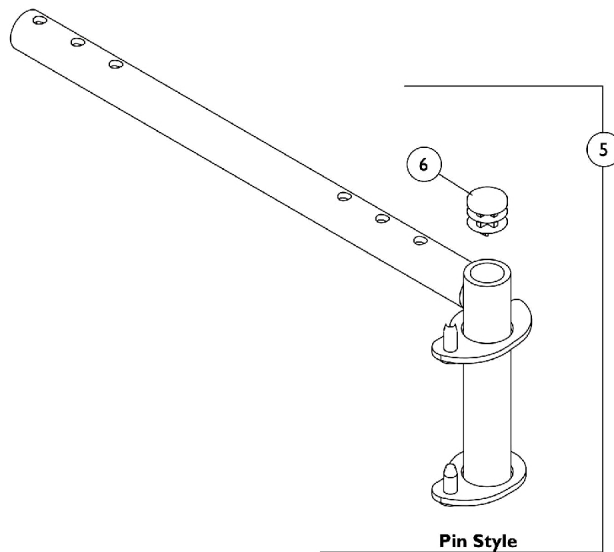
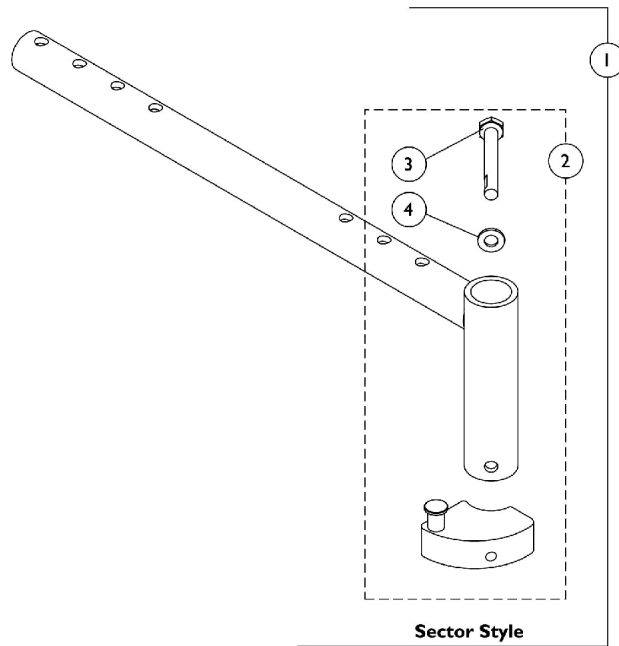
2" Longer Pivot/Slide Tube and Footplates

Footplate Type	1651 15-17" W	1651 18-19" W	1651 20-24" W
Right	1057861	1057871	1057881
Left	1057862-NLA	1057872	1057882

Front Rigging Hanger Assembly

Pin and Sector Style

NOTE: Front rigging hanger assemblies and seat pans share the same mounting hardware, see Seat Pan and Mounting Hardware page.

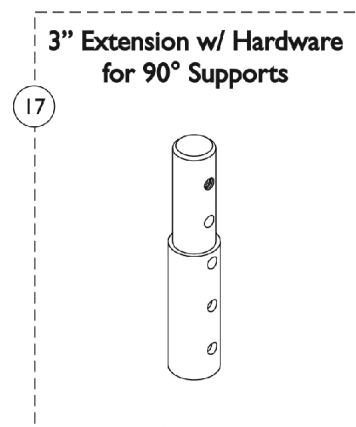
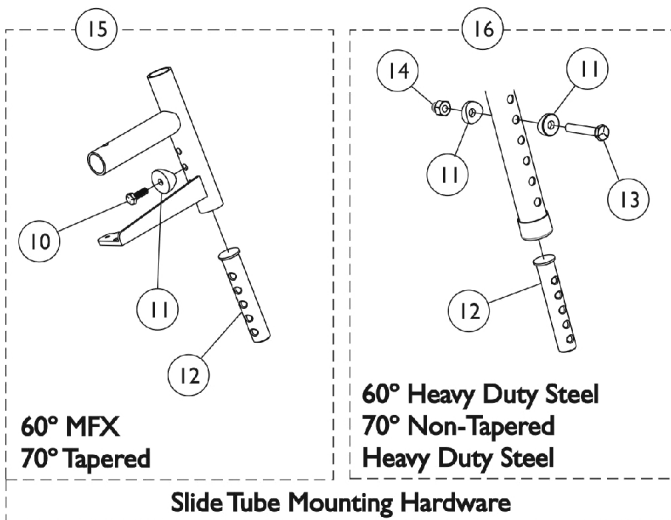
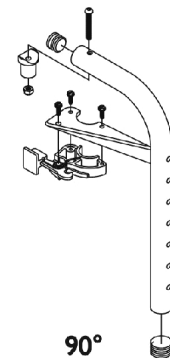
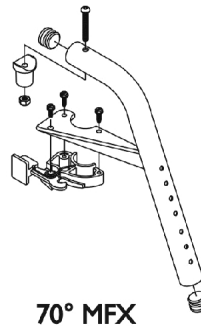
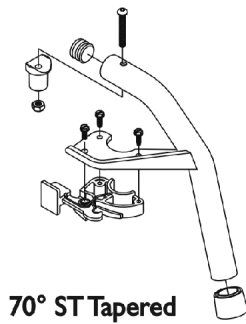
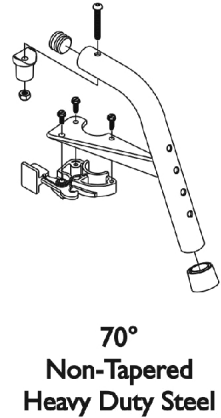
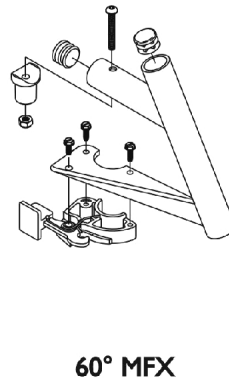
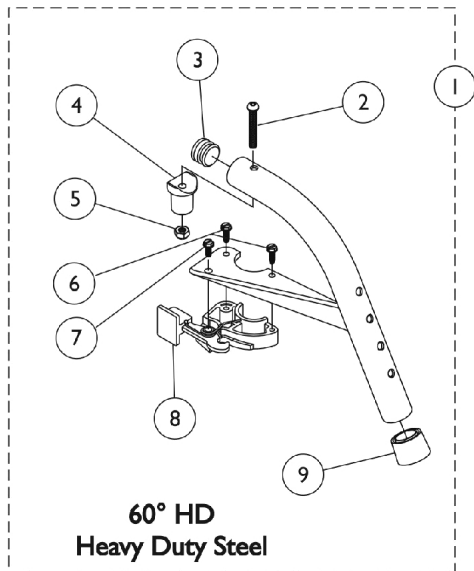


Front Rigging Hanger Assembly Pin and Sector Style

NOTE: Front rigging hanger assemblies and seat pans share the same mounting hardware, see Seat Pan and Mounting Hardware page.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1068435	Front Rigging Hanger Assembly w/ Sector Block, Black - Right (12 - 21" D)	1	1
1	A	1068436	Front Rigging Hanger Assembly w/ Sector Block, Black - Left (12 - 21" D)	1	1
1	A	1068437-NLA	NLA - Front Rigging Hanger Assembly w/ Sector Block, Black - Right (22" D)	1	1
1	A	1068438-NLA	NLA - Front Rigging Hanger Assembly w/ Sector Block, Black - Left (22" D)	1	1
2	B	1054571	Kit, Sector Block - Right	1	1
2	B	1054572	Kit, Sector Block - Left	1	1
3		1052957	Screw, Hex Head w/ Patch (1/4-20 x 2")	1	1
4		1026907	Washer (1/4 x 1/2 x 1/16")	1	1
5	C	1070356-NLA	NLA - Hanger Assembly, Front Rigging, Pin Style, Black - Right (12 - 21" D)	1	1
5	C	1070357-NLA	NLA - Hanger Assembly, Front Rigging, Pin Style, Black - Left (12 - 21" D)	1	1
5	C	1070358-NLA	NLA - Hanger Assembly, Front Rigging, Pin Style, Black - Right (22" D)	1	1
5	C	1070359-NLA	NLA - Hanger Assembly, Front Rigging, Pin Style, Black - Left (22" D)	1	1
6		1027097	Plug Button, Black (3/4")	1	1
NOTE: A - Includes front rigging hanger and item 2 B - Includes the sector block assembly and items 3 and 4 C - Includes front rigging hanger and item 6					

Footrest Support Assemblies (Sector Style)



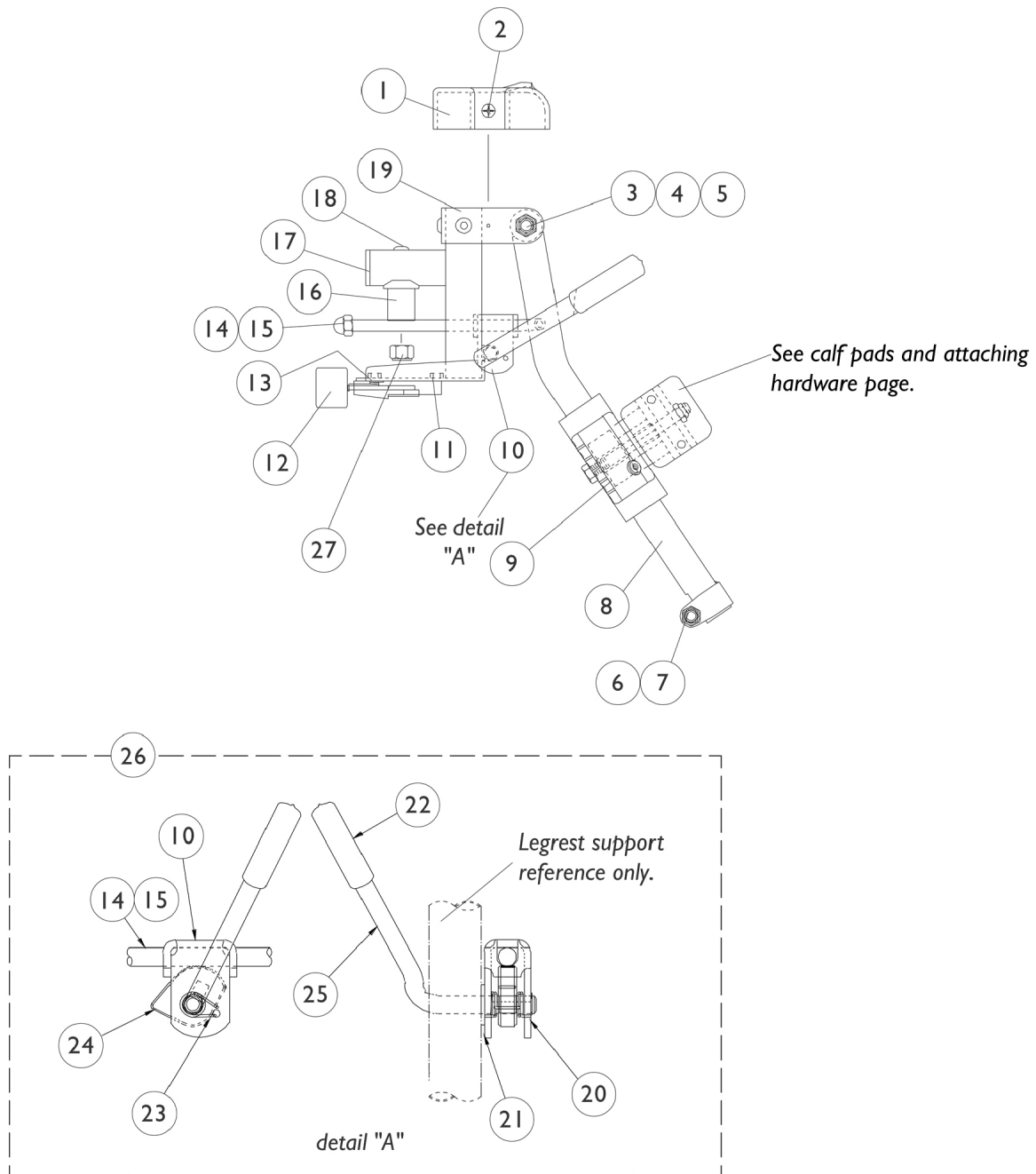
Footrest Support Assemblies (Sector Style)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,C	8881053158	Footrest Support Assembly, 60 Degree Heavy Duty, Sector, Color - Right	1	1
1	A,C	8881053157	Footrest Support Assembly, 60 Degree Heavy Duty, Sector, Color - Left	1	1
1	A,D	8881026998	Footrest Support Assembly, 60 Degree MFX, Sector, Color - Right	1	1
1	A,D	8881026999	Footrest Support Assembly, 60 Degree MFX, Sector, Color - Left	1	1
1	A,C	8881053149	Footrest Support Assembly, 70 Degree Non-Tapered Heavy Duty, Sector, Color - Right	1	1
1	A,C	8881053148	Footrest Support Assembly, 70 Degree Non-Tapered Heavy Duty, Sector, Color - Left	1	1
1	A,D	8881026996	Footrest Support Assembly, 70 Degree Tapered, Sector, Color - Right	1	1
1	A,D	8881026997	Footrest Support Assembly, 70 Degree, Tapered, Sector, Color - Left	1	1
1	A,D	8881047481	Footrest Support Assembly, 70 Degree MFX, Sector, Color - Right	1	1
1	A,D	8881047480	Footrest Support Assembly, 70 Degree MFX, Sector, Color - Left	1	1
1	A,D	8881062596	Footrest Support Assembly, 90 Degree, Sector, Color - Right	1	1
1	A,D	8881062597	Footrest Support Assembly, 90 Degree, Sector, Color - Left	1	1
2		1001762	Screw, Socket Button Head (1/4-20 x 1-3/4")	1	1
3	G	1029501	Plug Button, Black (1")	1	1
3	G	1056328	Plug Button, Black (1")	1	1
4		1017148	Pivot, Footrest	1	1
5		1025736	Locknut (1/4-20)	1	1
6		1025451	Screw, Slotted Hex Washer Head (#10-32 x 5/8")	1	2
7		1017423	Screw, Slotted Hex Washer Head w/ Patch (#10-32 x 1/2")	1	1
8		1025454	Housing, Latch - Right	1	1
8		1025455	Housing, Latch - Left	1	1
9		1026124	Collar, Anti-Rattle	1	1
10		1045267	Screw, Hex Head w/ Patch (1/4-20 x 3/4")	1	1
11	F	1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	1
12	E	1020534	Insert, Threaded	1	1
13		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
14		1044214	Nut, Hex with Nylon Cap (1/4-20)	1	1
15		1026703	Kit, Pivot/Slide Tube Mounting Hardware (Pair)	1	1
16		1057846	Kit, Pivot/Slide Tube Mounting Hardware (Pair)	1	1
17		8881038231	Kit, 3" Extension w/ Hardware (Pair)	1	1
	B	1026987	Guard, Impact (8" L)	1	1

Footrest Support Assemblies (Sector Style)

NOTE: A - Specify frame color when ordering.
B - Not Shown. For 70 deg. Tapered Footrest.
C - Uses Item Number 3, Plug Button 1029501
D - Uses Item Number 3, Plug Button 1056328
E - As of 8/15/03, the Threaded Insert was revised from 3 to 5 Holes. Threaded Insert is Backward Compatible and does not require ordering in Pairs.
F - Item 16 uses 2 per assembly
G - See item #1 footnote C or D for Front Rigging Plug Button usage.

AT5544 Legrest Supports (Sector Style) 12-24" Chairs



AT5544 Legrest Supports

(Sector Style)

12-24" Chairs

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1017187	Cover, Top	1	1
2		1028529	Screw, Phillips Pan Head (#8-32 x 3/8")	1	2
3		40363X000	Hex Nut (3/8"-16)	1	1
4		1058636-NLA	NLA - Washer, Nylon (25/64 x 7/8 x 1/32")	1	2
5		11919X000-NLA	NLA - Screw, Slotted Truss Head (3/8-16 x 1-1/2")	1	1
6		7930330-NLA	NLA - Locknut (5/16-24)	25	3
7		1026030	Bolt, Lug (5/16-24 x 1-3/8")	1	1
8		1043556-NLA	NLA - Tube, Elevating Adjustable Support, Black - Right	1	1
8		1043557-NLA	NLA - Tube, Elevating Adjustable Support, Black - Left	1	1
8	A	8881048851	Tube, Elevating Adjustable Support, Color - Right	1	1
8	A	8881048852	Tube, Elevating Adjustable Support, Color - Left	1	1
9		1032266	Bracket, Legrest Pad Mounting, Black	1	1
10		04528X002	Bracket, Release, Black	1	1
11		1025451	Screw, Slotted Hex Washer Head (#10-32 x 5/8")	1	2
12		1025454	Housing, Latch - Right	1	1
12		1025455	Housing, Latch - Left	1	1
13		7930314	Package, Screw, Slotted Hex Washer Head (#10-32 x 1/2")	25	1
14		42326X001	Bar, Ratchet	1	1
15		7930336-NLA	NLA - Nut, Acorn (5/16-24)	25	1
16		1017148	Pivot, Footrest	1	1
17		1029501	Plug Button, Black (1")	1	1
18		7930301-NLA	NLA - Package, Button Head Cap Screw (1/4-20 x 1-3/4")	25	1
19	A	8881045289	Bracket, Legrest Support, Color - Right	1	1
19	A	8881045290	Bracket, Legrest Support, Color - Left	1	1
20		1040831	Ring, Snap	1	1
21		7930310-NLA	NLA - Washer, Nylon (5/16 x 11/16 x 1/16")	25	1
22		1040060	Tip, Plastic, Black	1	1
23		1037485	Spring, Release	1	1
24		1037125	Cam, Legrest	1	1
25		1037126	Handle, Release	1	1
26	C	1096974	Kit, Elevating Legrest Ratchet Hardware (Pair)	2	1
27		7930333	Locknut (1/4-20)	25	1
	B,D	1096943-NLA	NLA - Instruction Sheet, Ratchet Kit	1	1
	A,B	8881045291	Legrest Support Assembly, Sector, Color - Right	1	1
	A,B	8881045292	Legrest Support Assembly, Sector, Color - Left	1	1

AT5544 Legrest Supports

(Sector Style)

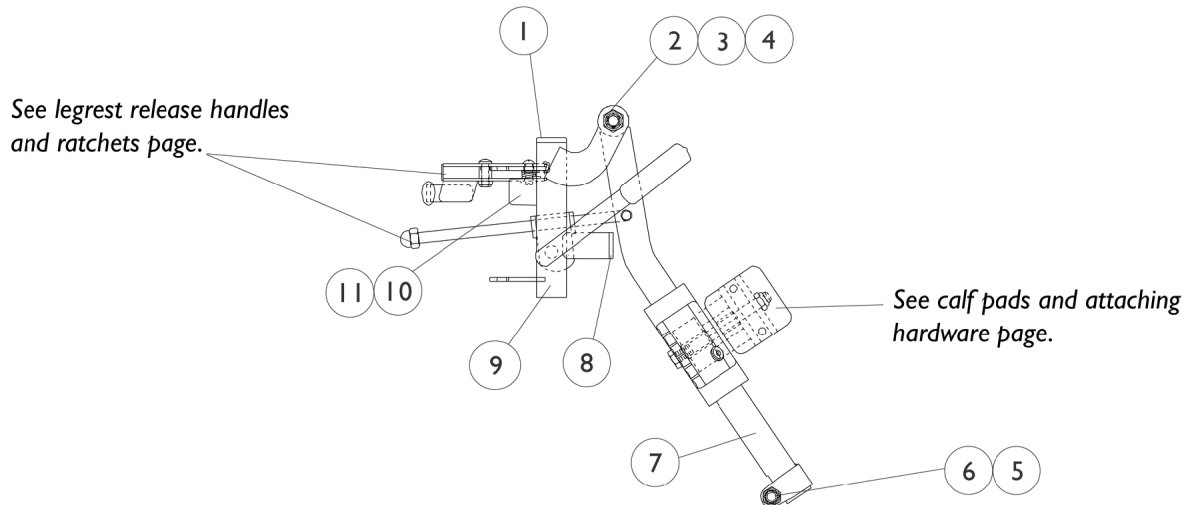
12-24" Chairs

NOTE: A - Specify frame color when ordering.
B - Not Shown
C - Includes items 10, 14, 15 and 20-25
D - Item is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.

P904A Legrest Supports

(Pin Style)

Color 14-24"



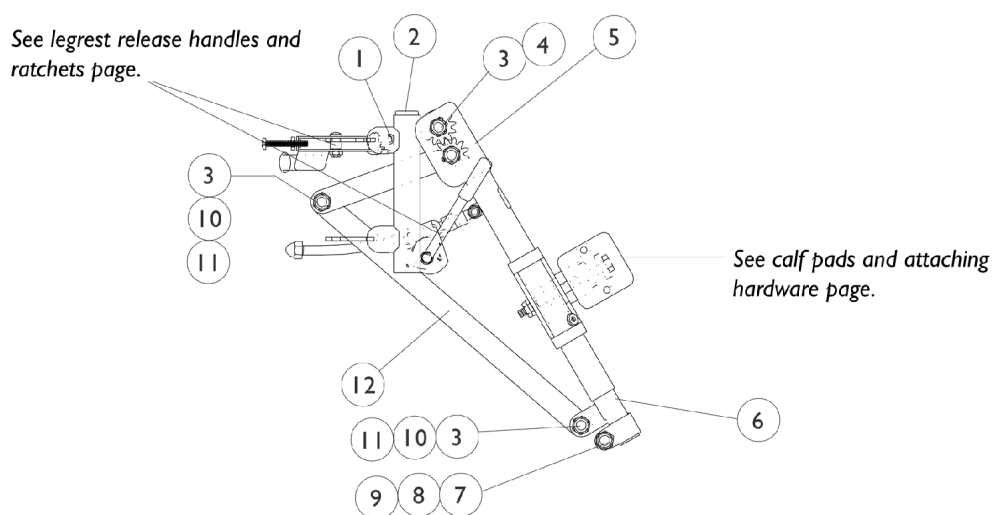
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027095	Plug Button, Black (7/8")	1	1
2		11919X000-NLA	NLA - Screw, Slotted Truss Head (3/8-16 x 1-1/2")	1	1
3		1058636-NLA	NLA - Washer, Nylon (25/64 x 7/8 x 1/32")	1	2
4		40363X000	Hex Nut (3/8"-16)	1	1
5		7930330-NLA	NLA - Locknut (5/16-24)	25	3
6		1026030	Bolt, Lug (5/16-24 x 1-3/8")	1	1
7	A	8881048851	Tube, Elevating Adjustable Support, Color - Right	1	1
7	A	8881048852	Tube, Elevating Adjustable Support, Color - Left	1	1
8		1027097	Plug Button, Black (3/4")	1	1
9	A	8881058664-NL A	NLA - Tube, Legrest Support, Color - Right	1	1
9	A	8881058665-NL A	NLA - Tube, Legrest Support, Color - Left	1	1
10		1022874	Bumper	1	1
11		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
	A,B	8881058646-NL A	NLA - Legrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881058647-NL A	NLA - Legrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - Specify frame color
B - Not Shown.

PAS4A/PAL4A Articulating Legrests

(Pin Style)

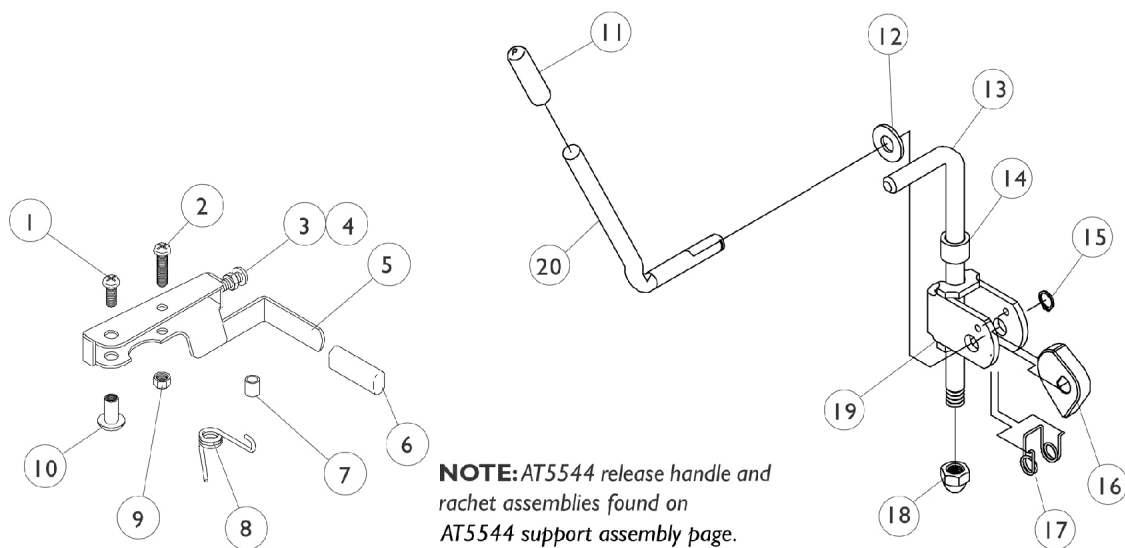
Chrome 14-24"



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1058478-NLA	NLA - Tube, Legrest Support - Right	1	1
1		1058479-NLA	NLA - Tube, Legrest Support - Left	1	1
2		1027097	Plug Button, Black (3/4")	1	1
3		40363X000	Hex Nut (3/8"-16)	1	3
4		1022854-NLA	NLA - Screw, Shoulder Slotted Head (1/2 x 1-1/8", 3/8-16)	1	1
5		1022877-NLA	NLA - Tube, Support and Drive Link, Chrome - Right	1	1
5		1022878-NLA	NLA - Tube, Support and Drive Link, Chrome - Left	1	1
6		1022848	Tube, Slide, Articulating, Chrome - Right	1	1
6		1022849	Tube, Slide, Articulating, Chrome - Left	1	1
7		1027377	Washer (#20)	1	1
8		7930363-NLA	NLA - Package, Locknut (5/16"-24)	25	1
9		11232X009	Bolt, Lug (5/16-24 x 1-3/8")	1	1
10		1022866-NLA	NLA - Screw, Socket Button Head (3/8-16 x 3/4")	1	2
11		1049527	Washer, Nylon (3/8 x 3/4 x 1/16")	1	2
12		1022846-NLA	NLA - Bar, Link, Black	1	1
	A	1058482-NLA	NLA - Legrest Support Assembly, Articulating, Adult, Chrome - Right	1	1
	A	1058483-NLA	NLA - Legrest Support Assembly, Articulating, Adult, Chrome - Left	1	1

NOTE: A - Not Shown

Legrest Release Handles and Ratchets

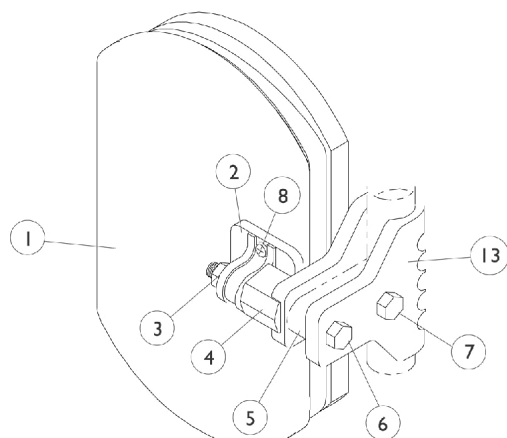


Legrest Release Handles and Ratchets

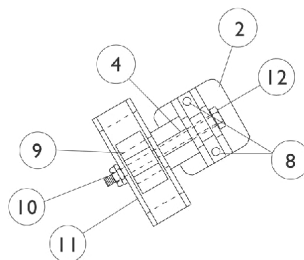
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930328-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
2		7930335-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
3	A	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
4	A	1028485-NLA	NLA - Nut, Hex (#10-32)	1	1
5		1035539	Handle, Release, Black - Right	1	1
5		1035540	Handle, Release, Black - Left	1	1
6	A	1006490	Tip, Plastic, Black	1	1
7		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
10		1028846-NLA	NLA - Rivnut (#10-32)	1	1
11		1040060	Tip, Plastic, Black	1	1
12		7930310-NLA	NLA - Washer, Nylon (5/16 x 11/16 x 1/16")	25	1
13	B	42326X004	Bar, Ratchet - Right/Left	1	1
13	C	1023811-NLA	NLA - Bar, Ratchet - Right	1	1
13	C	1023812-NLA	NLA - Bar, Ratchet - Left	1	1
14		47330X003	Spacer (5/16 x 1/2 x 3/8")	1	2
15		1040831	Ring, Snap	1	1
16		1037125	Cam, Legrest	1	1
17		1037485	Spring, Release	1	1
18		7930336-NLA	NLA - Nut, Acorn (5/16-24)	25	1
19		04528X002	Bracket, Release, Black	1	1
20		1037126	Handle, Release	1	1
NOTE: A - These items are only required on Release Handles for chairs built before 10/1/00. B - 904 Legrest. C - Articulating Legrest.					

Calf Pads and Attaching Hardware

Due to a change to the Legrest Calf Pad size made on 4/23/12, you must also order the hardware kit (1066591) when ordering replacement Calf Pads.



P904A, AT5544 Legrest.



PAS4A/PAL4A Legrest

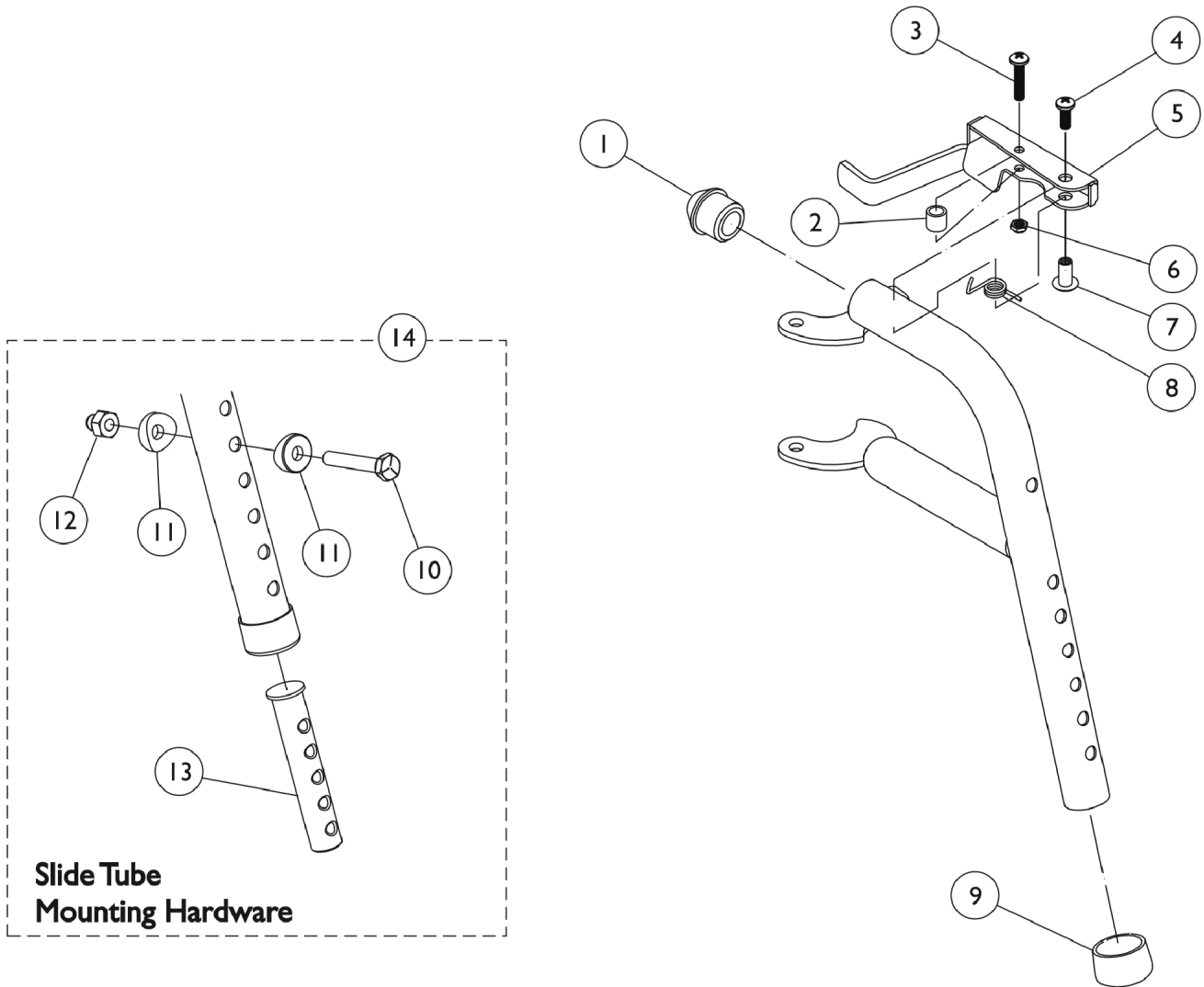
Calf Pads and Attaching Hardware

Due to a change to the Legrest Calf Pad size made on 4/23/12, you must also order the hardware kit (1066591) when ordering replacement Calf Pads.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,B,F	8881091759	Pad w/ Cover and Screws, Legrest Vinyl (Pair)	2	1
1	A,C,F	8881091764	Pad, Legrest, Vinyl - Right/Left	1	1
1	A,D,F	88804529X003	Pad, Legrest, Vinyl - Right	1	1
1	A,D,F	88804529X004	Pad, Legrest, Vinyl - Left	1	1
1		01415X000-NLA	NLA - Cover, Legrest Pad	1	1
2		04526X019	Plate, Legrest Pad	1	1
3		7930330-NLA	NLA - Locknut (5/16-24)	25	1
4		1025133	Spacer, Legrest Pad, Black	1	1
5		1032267	Spacer, Legrest Pad Mounting, Black	1	1
6		1037110	Screw, Hex Head (5/16-24 x 3-1/2")	1	1
7		1028514	Screw, Hex Head (5/16-24 x 1-1/2")	1	1
8	E	1066591	Hardware, Legrest Pad	1	1
			Screw, Phillips Pan Head (#10-32 x 11/16")	1	2
			Screw, Phillips Pan Head (#10-32 x 1")	1	2
			Instruction Sheet, Legrest Pad Mtg.	1	1
9		48823X008	Spring, Leaf	1	1
10		7930363-NLA	NLA - Package, Locknut (5/16"-24)	25	2
11		1025104	Bracket, Legrest, Chrome	1	1
12		1014807	Screw, Hex Head (5/16-24 x 3-1/4")	1	1
13		1032266	Bracket, Legrest Pad Mounting, Black	1	1
NOTE: A - Specify upholstery color when ordering. B - Before 9/5/00. C - After 9/4/00. D - 14-15" Wide Chairs. E - Includes Screws and Instruction Sheet. F - Due to a change to the Legrest Calf Pad size made on 4/23/12, you must also order the hardware kit (1066591) when ordering replacement Calf Pads.					

PW93 Footrest Supports

(Pin Style)
Color

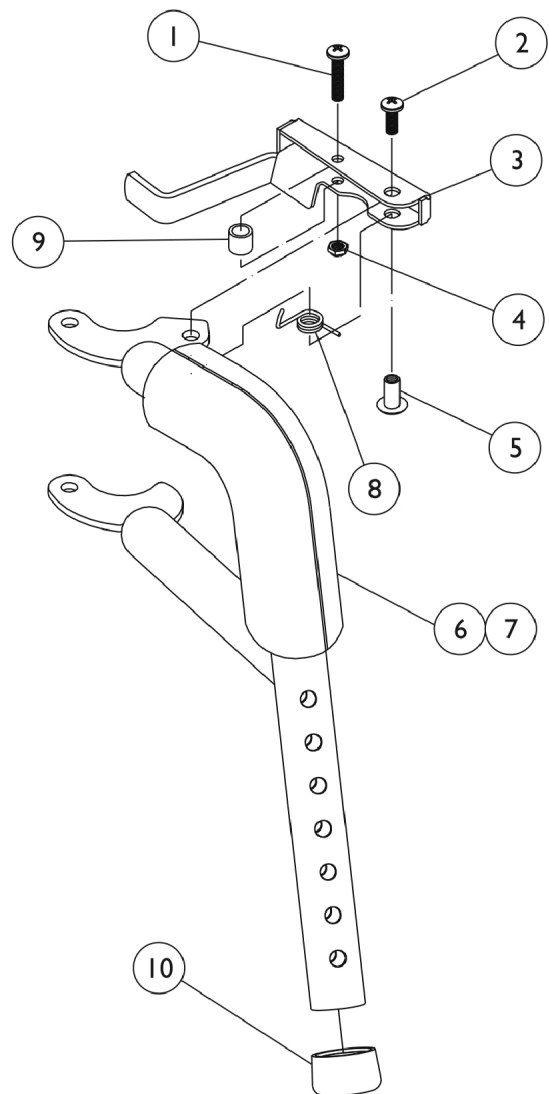
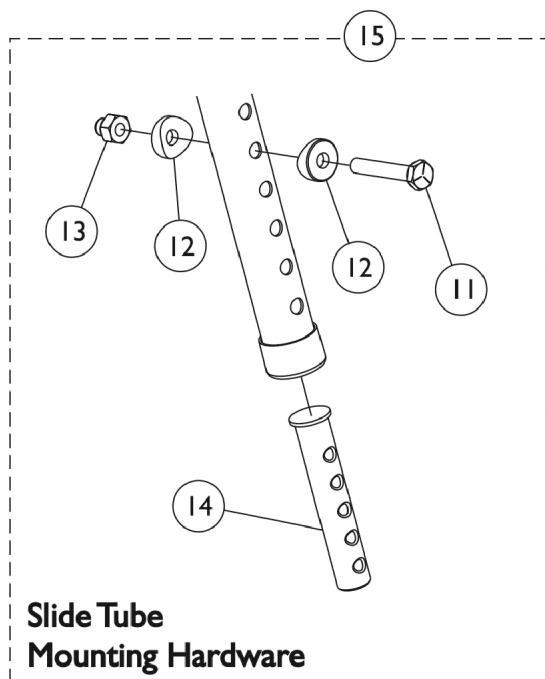


PW93 Footrest Supports (Pin Style) Color

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1020719	Anti-Rattle, Black	1	1
2		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
3		1025716	Screw, Phillips Pan Head (#10-32 x 11/16")	1	1
4		1026114	Screw, Phillips Pan Head (#10-32 x 1/2")	1	1
5		1035539	Handle, Release, Black - Right	1	1
5		1035540	Handle, Release, Black - Left	1	1
6		1025735	Locknut (#10-32)	1	1
7		1028846-NLA	NLA - Rivnut (#10-32)	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		15680X012	Collar, Anti-Rattle (7/8")	1	1
10		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
11		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	1
12		1044214	Nut, Hex with Nylon Cap (1/4-20)	1	1
13	C	1020534	Insert, Threaded	1	1
14		1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	8881070776	Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881070777	Footrest Support Assembly, Adult, Color - Left	1	1
NOTE: A - Specify frame color when ordering. B - Not Shown. C - As of 8/15/03, the Threaded Insert was revised from 3 to 5 Holes. Threaded Insert is Backward Compatible and does not require ordering in Pairs.					

PW93ST Footrest Supports

(Pin Style)
Color



PW93ST Footrest Supports

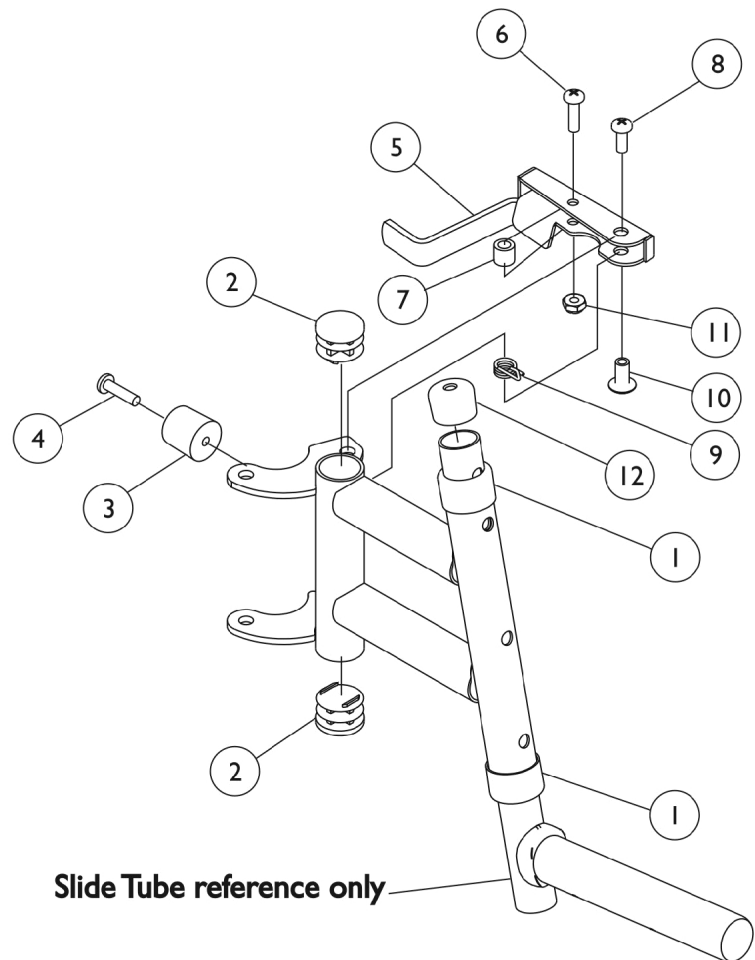
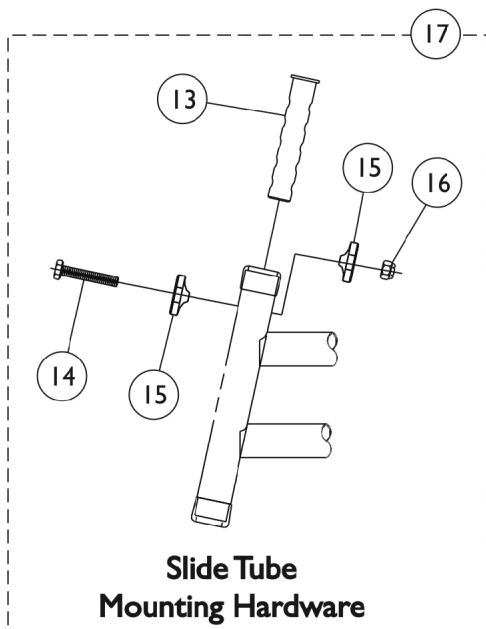
(Pin Style)

Color

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1025716	Screw, Phillips Pan Head (#10-32 x 11/16")	1	1
2		1026114	Screw, Phillips Pan Head (#10-32 x 1/2")	1	1
3		1035539	Handle, Release, Black - Right	1	1
3		1035540	Handle, Release, Black - Left	1	1
4		1025735	Locknut (#10-32)	1	1
5		1028846-NLA	NLA - Rivnut (#10-32)	1	1
6		1030434-NLA	NLA - Cushion, Tubular Foam	1	1
7		1030435-NLA	NLA - Cover, Foam Cushion	1	1
8		1028707	Spring, Release - Right	1	1
8		1028708	Spring, Release - Left	1	1
9		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
10		15680X012	Collar, Anti-Rattle (7/8")	1	1
11		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
12		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	2
13		1044214	Nut, Hex with Nylon Cap (1/4-20)	1	1
14	D	1020534	Insert, Threaded	1	1
15		1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,C	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
	A,C	1028485-NLA	NLA - Nut, Hex (#10-32)	1	1
	A,C	1006490	Tip, Plastic, Black	1	1
	B,C	8881070784-NL A	NLA - Footrest Support Assembly, Adult, Color - Right	1	1
	B,C	8881070785-NL A	NLA - Footrest Support Assembly, Adult, Color - Left	1	1
NOTE: A - These items are only required on Release Handles for chairs built before 10/1/00 B - Specify frame color. C - Not Shown. D - As of 8/15/03, the Threaded Insert was revised from 3 to 5 Holes. Threaded Insert is Backward Compatible and does not require ordering in Pairs.					

PW93E Footrest Supports

(Pin Style)
Color



PW93E Footrest Supports

(Pin Style)

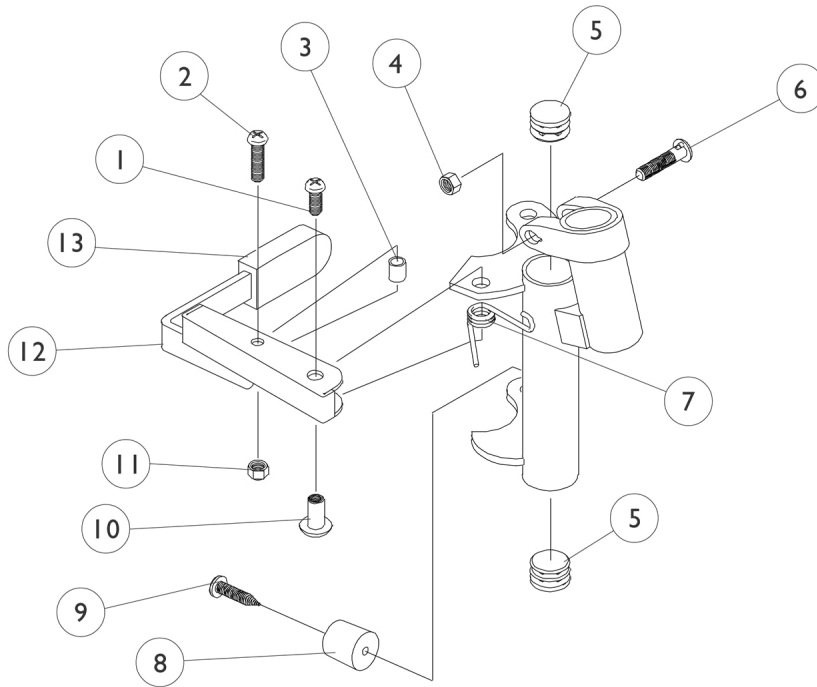
Color

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		15680X012	Collar, Anti-Rattle (7/8")	1	2
2		1027095	Plug Button, Black (7/8")	1	2
3		1022874	Bumper	1	1
4		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
5		1035539	Handle, Release, Black - Right	1	1
5		1035540	Handle, Release, Black - Left	1	1
6		1025716	Screw, Phillips Pan Head (#10-32 x 11/16")	1	1
7		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
8		1026114	Screw, Phillips Pan Head (#10-32 x 1/2")	1	1
9		1028707	Spring, Release - Right	1	1
9		1028708	Spring, Release - Left	1	1
10		1028846-NLA	NLA - Rivnut (#10-32)	1	1
11		1025735	Locknut (#10-32)	1	1
12		1074108	Cap, End Tube, Black (3/4")	1	1
13	C	1020534	Insert, Threaded	1	1
14		1070759	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
15		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	2
16		1044214	Nut, Hex with Nylon Cap (1/4-20)	1	1
17		1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	8881070768-NL A	NLA - Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881070769-NL A	NLA - Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - Specify frame color.
B - Not Shown.
C - As of 8/15/03, the Threaded Insert was revised from 3 to 5 Holes. Threaded Insert is Backward Compatible and does not require ordering in Pairs.

PW93M Footrest Supports

(Pin Style)
Color



PW93M Footrest Supports

(Pin Style)

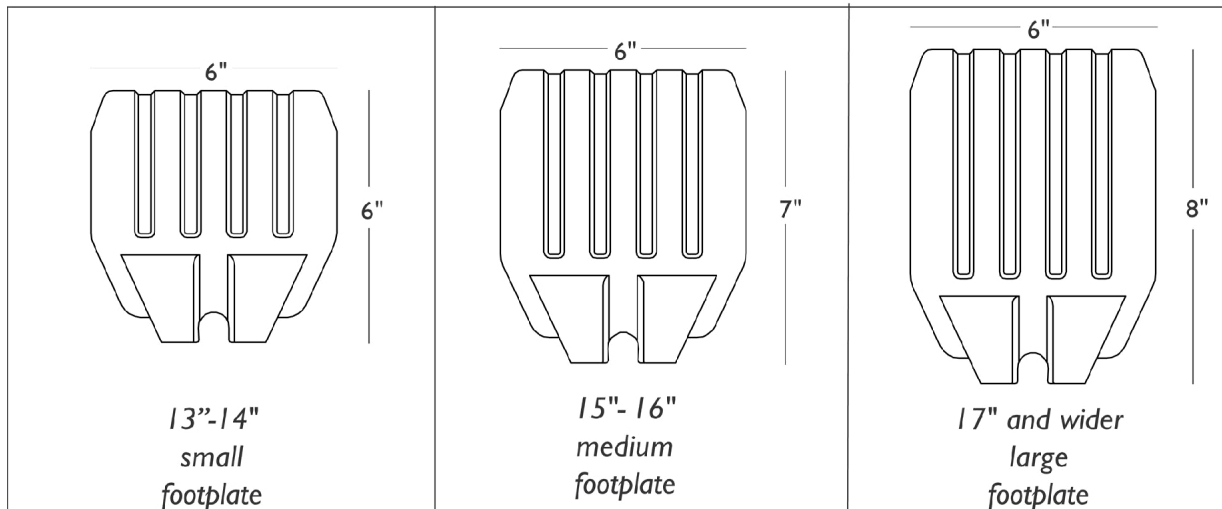
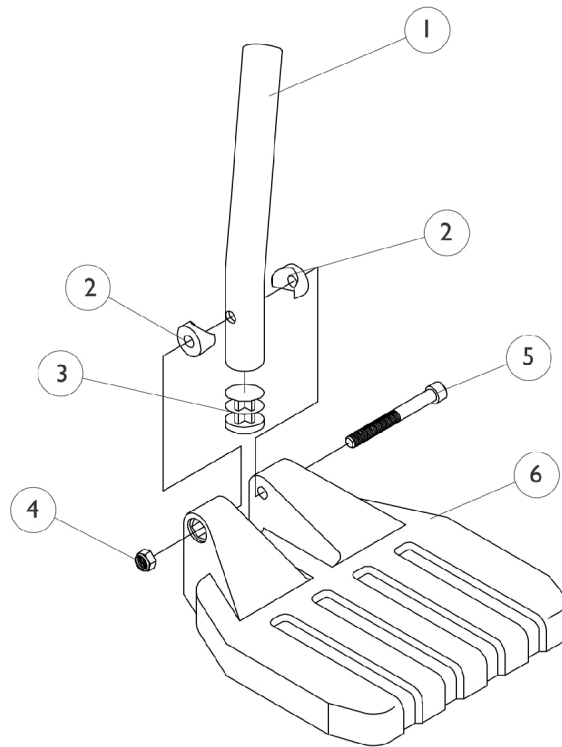
Color

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930359-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
2		7930360-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
3		47565X057	Bushing (7/32 x 3/8 x 11/32")	1	1
4		1107321	Nut, Low Cap (5/16"-24)	1	1
5		1027095	Plug Button, Black (7/8")	1	2
6		11232X009	Bolt, Lug (5/16-24 x 1-3/8")	1	1
7		1008935	Spring, Release - Right	1	1
7		1008936	Spring, Release - Left	1	1
8		1022874	Bumper	1	1
9		1030979	Screw, Phillips Pan Head Tap (#10-32 x 3/4")	1	1
10		67005X000	Rivnut (#10-32)	1	1
11		7930365-NLA	NLA - Locknut (#10-32)	25	1
12		1035539	Handle, Release, Black - Right	1	1
12		1035540	Handle, Release, Black - Left	1	1
13	C	1006490	Tip, Plastic, Black	1	1
	A,B	8881037836-NL A	NLA - Footrest Support Assembly, Adult, Color - Right	1	1
	A,B	8881037837-NL A	NLA - Footrest Support Assembly, Adult, Color - Left	1	1
NOTE: A - Specify frame color. B - Not Shown. C - Before 10/1/00 only					

Pivot/Slide Tube and Composite Footplates

NOTE: Heel loops are not included. See footrest and legrest accessories.

NOTE: For complete pivot/slide tube and footplate assemblies, see front riggings reference charts.



Pivot/Slide Tube and Composite Footplates

NOTE: Heel loops are not included. See footrest and legrest accessories.

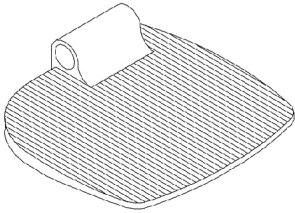
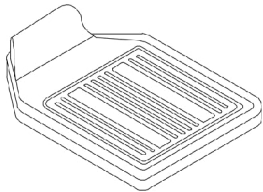
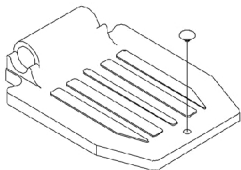
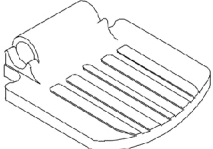
NOTE: For complete pivot/slide tube and footplate assemblies, see front riggings reference charts.

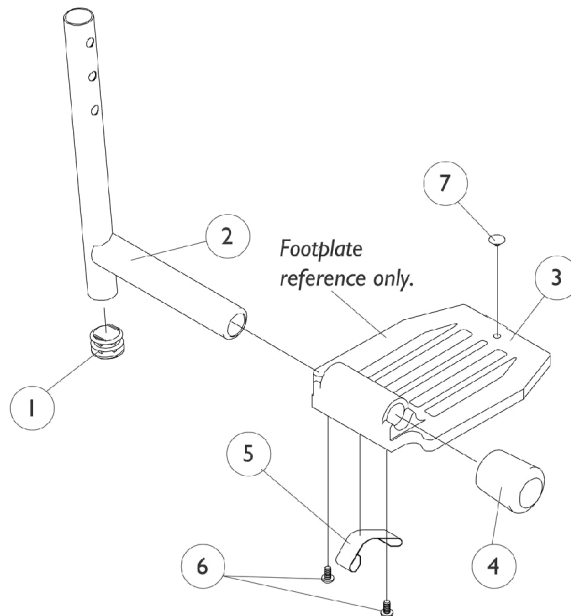
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1057852	Tube, Pivot/Slide, Curved End, Steel, Black (9-7/8")	1	1
1		1057854	Tube, Pivot/Slide, Curved End, 2" Longer, Steel, Black	1	1
1		1058418	Tube, Pivot/Slide, Curved End, 4" Longer, Steel, Black	1	1
2		1025457	Spacer, Coved (1/4 x 3/4 x 11/32")	1	2
3		1027097	Plug Button, Black (3/4")	1	1
4		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
5		7930366	Package, Socket Head Screw (1/4-20 x 2-1/4")	25	1
6	A	1026879	Footplate, Composite, Small, Black (6" W x 6" L)	1	1
6	B	1026880	Footplate, Composite, Medium, Black (7" W x 6" L)	1	1
6	C	1026881	Footplate, Composite, Large, Black (8" W x 6" L)	1	1
6	D	1026879	Footplate, Composite, Small, Black (6" W x 6" L)	1	1
6	E	1026880	Footplate, Composite, Medium, Black (7" W x 6" L)	1	1
6	F	1026881	Footplate, Composite, Large, Black (8" W x 6" L)	1	1
NOTE: A - 13"-14" Wide B - 15"-16" Wide C - 17" and Wider D - 15"-17" Wide 70ST TAPER and PW93ST E - 18"-19" Wide 70ST TAPER and PW93ST F - 20" and Wider 70ST TAPER and PW93ST					

Pivot/Slide Tube and Standard Aluminum 1450, 1350 Footplates

NOTE: Heel loops are not included. See footrest and legrest accessories.

NOTE: For complete pivot/slide tube and footplate assemblies, see front riggings reference charts.

			
1350 Extra Large	1450 Deluxe Aluminum	16" to 24" Wide Standard Alum.	14" Wide Standard Alum.



Pivot/Slide Tube and Standard Aluminum 1450, 1350 Footplates

NOTE: Heel loops are not included. See footrest and legrest accessories.

NOTE: For complete pivot/slide tube and footplate assemblies, see front riggings reference charts.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	H,A	1048834	Pivot/Slide Tube w/ Plug Button, Black	1	1
2		1098906	Pivot/Slide Tube w/ Plug Button, Black (2" Longer)	1	1
2		1086482	Pivot/Slide Tube w/ Plug Button, Black (4" Longer)	1	1
2	D,E,F	1100568-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black	1	1
2	D,E,F	1100569-NLA	NLA - Pivot/Slide Tube Assembly, Extra Large, Standard Aluminium - 2" Longer, Black	1	1
2	E,F	1100570-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black (4" Longer)	1	1
2	F,B	1041526	Pivot/Slide Tube w/ Plug Button Assembly, Chrome	1	1
2	C,F	1041527	Pivot/Slide Tube w/ Plug Button, Black	1	1
2	D,G,H	1100571-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Deluxe, Black	1	1
2	C,G	1041525-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Deluxe Aluminum, Black	1	1
3		44200X059	Footplate, Aluminum, Small, Black (6-3/4" W x 6" L)	1	1
3		44200X027	Footplate, Aluminum, Medium, Black (7-3/4" W x 6" L)	1	1
3		1043659-NLA	NLA - Footplate, Aluminum, Deluxe, Black - Right (8" W x 5-3/4" L)	1	1
3		1043660-NLA	NLA - Footplate, Aluminum, Deluxe, Black - Left (8" W x 5-3/4" L)	1	1
3		44200X025	Footplate, Aluminum, Extra Large, Black - Right (8" W x 8-1/2" L)	1	1
3		44200X026	Footplate, Aluminum, Extra Large, Black - Left (8" W x 8-1/2" L)	1	1
4	F	1016346	Cap, End, Tube, Black (7/8")	1	1
4	E	1027095	Plug Button, Black (7/8")	1	1
5	F	1006981	Spring, Tension	1	2
5	G	1036120-NLA	NLA - Spring	1	2
5	E,J	1036123	Spring, Leaf	1	1
6	I	7930354-NLA	NLA - Package, Phillips Head Screw (#8-32 x 3/8")	25	2
7		1070168	Plug, Push, Footplate	1	1

NOTE: A - 60MFX, 60, 70, PW93, and PW93E.

B - PAL4

C - P93M

D - P904

E - Use with Extra Large Footplates.

F - Use with Standard Aluminum Footplates.

G - Use with Deluxe Aluminum Footplates.

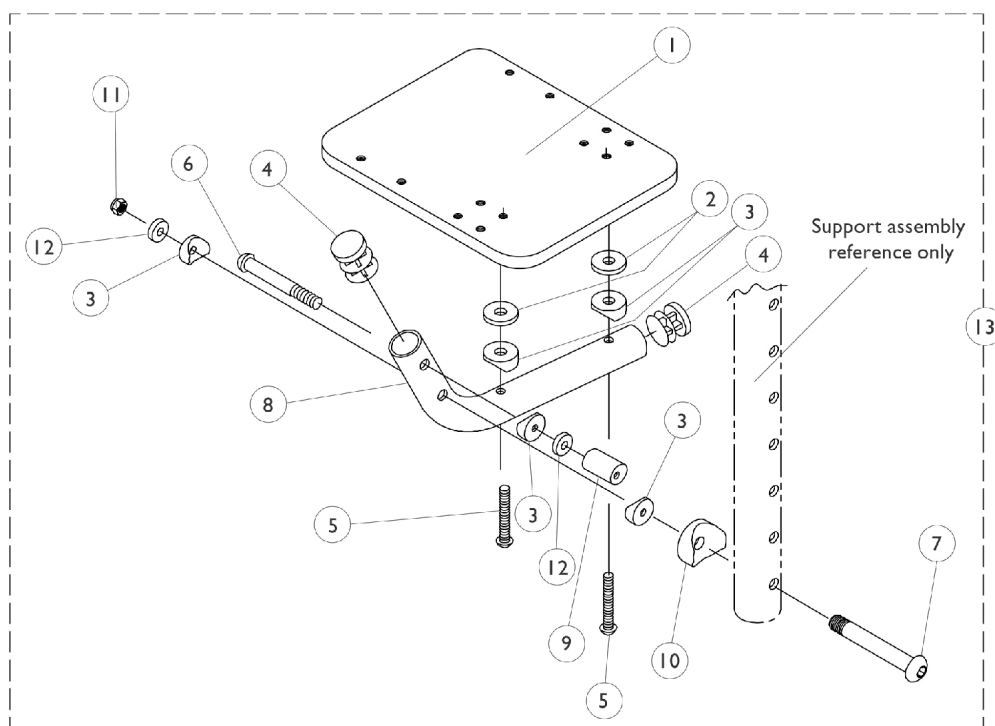
H - Use with AT5544.

I - Deluxe takes quantity one (1).

J - Use one or more leaf springs per assembly as required such that footplate may be moved by hand to the up-right position and remain in place.

AT5043 Flip-Up Footplates

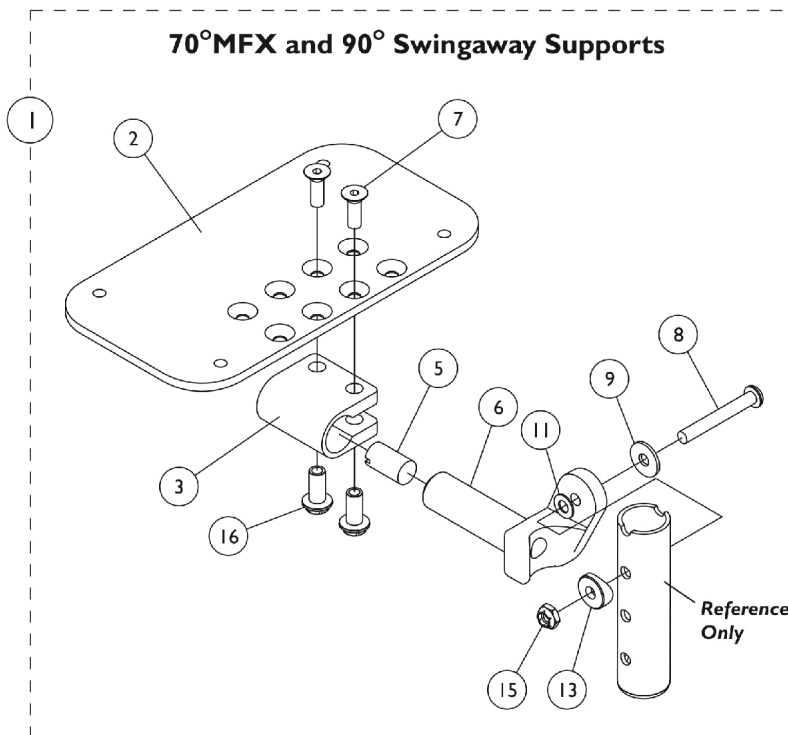
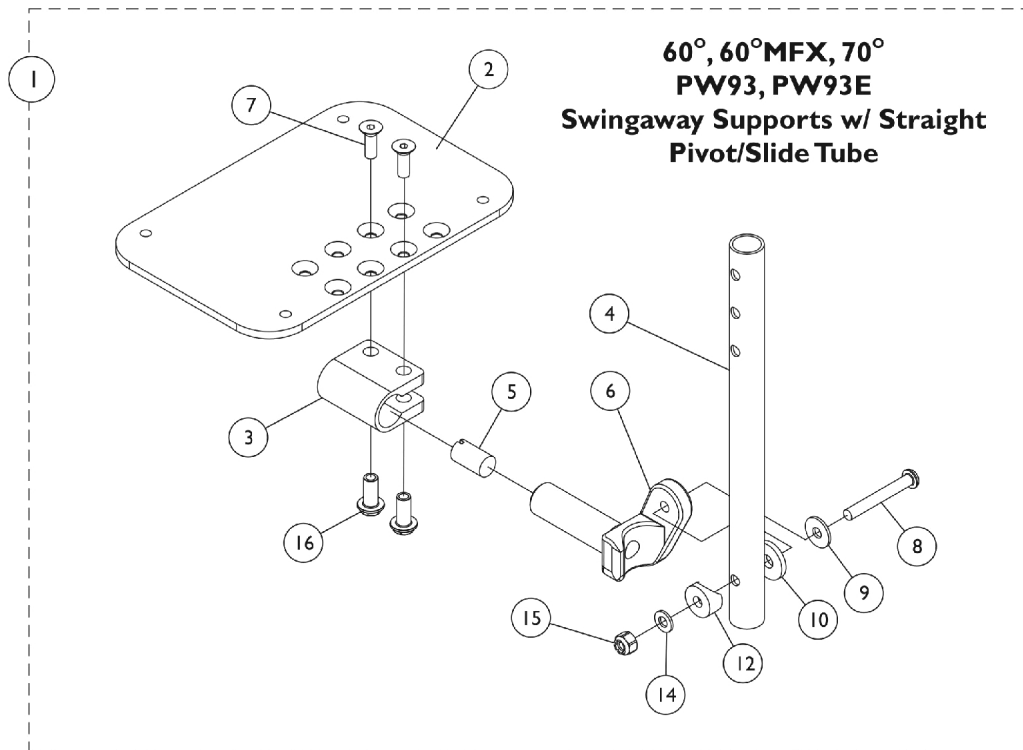
70 deg. MFX and 90 deg. Swingaway Supports



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1044082-NLA	NLA - Footplate, Black (4-1/4" W x 5-1/4" L) (12" W)	1	1
2		1029454-NLA	NLA - Washer, Nylon (3/16 x 3/4 x 5/32")	1	2
3		1025457	Spacer, Coved (1/4 x 3/4 x 11/32")	1	5
4		1027097	Plug Button, Black (3/4")	1	2
5		1163311	Screw, Socket Button Head (10-32 x 1-1/4")	1	2
6		1008495	Screw, Socket Button Head (1/4-20 x 1-1/2")	1	1
7		1023967-NLA	NLA - Screw, Socket Button Head (1/4-20 x 2-5/8")	1	1
8		1029428-NLA	NLA - Tube, Footrest, Black	1	1
9		1028417-NLA	NLA - Cam, Adjustment	1	1
10		40157X020	Spacer, Coved (1/4 x 1 x 9/16")	1	1
11		7930333	Locknut (1/4-20)	25	1
12		1018739	Washer (1/4 x 5/8 x 3/32")	1	2
13		1029434-NLA	NLA - Flip-Up Footplate Assembly, Black - Right	1	1
13		1029435-NLA	NLA - Flip-Up Footplate Assembly, Black - Left	1	1

AT5543 Adjustable Angle Footplates

60 deg., 60 deg. MFX, 70 deg., 70 deg. MFX, PW93, PW93E, and 90 deg. Swingaway Supports



AT5543 Adjustable Angle Footplates

60 deg., 60 deg. MFX, 70 deg., 70 deg. MFX, PW93, PW93E, and 90 deg. Swingaway Supports

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	See Chart	Pivot/Slide Tube and Footplate Assemblies	1	1
2	B,F	1113572	Footplate, Adjustable Angle, Medium, Black (4-1/4" W x 8" L)	1	1
2	C,F	1113573	Footplate, Adjustable Angle, Large, Black (5-1/4" W x 8" L)	1	1
2	D,F	1113574	Footplate, Adjustable Angle, Extra Large, Black (6-1/4" W x 8" L)	1	1
3	E	1058517	Clamp, Footplate	1	1
4		1057855	Tube, Pivot and Slide, Straight, Steel, Black (9-7/8" L)	1	1
4		1057856	Tube, Pivot/Slide, Straight, Steel, Black (11-7/8" L)	1	1
5		1048816	Screw, Nylon Adjustment (1/2-13 x 7/8")	1	1
6		1052102	Hinge, Footplate - Right	1	1
6		1052103	Hinge, Footplate - Left	1	1
7	E	1029545	Screw, Socket Flat Head (1/4-20 x 3/4")	1	2
8		7930321-NLA	NLA Package, Screw, Socket Button Head (1/4-20 x 1-7/8")	25	1
9		1026900	Washer (1/4 x 23/32 x 1/16")	1	1
10		7930313	Package, Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
11		1036435	Washer, Nylon (1/4 x 7/8 x 1/32")	1	1
12		1025457	Spacer, Coved (1/4 x 3/4 x 11/32")	1	1
13		1026099	Spacer, Coved (1/4 x 11/16 x 1/2")	1	1
14		1026907	Washer (1/4 x 1/2 x 1/16")	1	1
15		7930333	Locknut (1/4-20)	25	1
16	E	1082686	Nut, Barrel, Hex Head (1/4-20 x 11/16")	1	2

NOTE: A - Includes Item 2 thru 16.
B - For 12-13" wide chairs.
C - For 14-15" wide chairs.
D - For 16" and wider chairs.
E - Items 3, 7 and 16 must be ordered together for chairs manufactured before 8/10/99 due to a hardware change.
F - This footplate was revised 9/2/2008 with rounder corners and accessory holes changed from 8 to 4. Recommended to replace footplates in pairs to match sides.

#1 Pivot/Slide Tube and Footplate Assemblies

Rigging Type	90, 70 MFX w/o Pivot/Slide Tube	60, 60 MFX, 70 PW93, PW93E (9-7/8" Tube)	60, 60 MFX, 70 PW93, PW93E (11-7/8" Tube)
12-13" W - Right (4-1/4" Footplate)	1060436-NLA	1060442	N/A
12-13" W - Left (4-1/4" Footplate)	1060437	1060443	N/A
14-15" W - Right (5-1/4" Footplate)	1060438	1060444	1062758

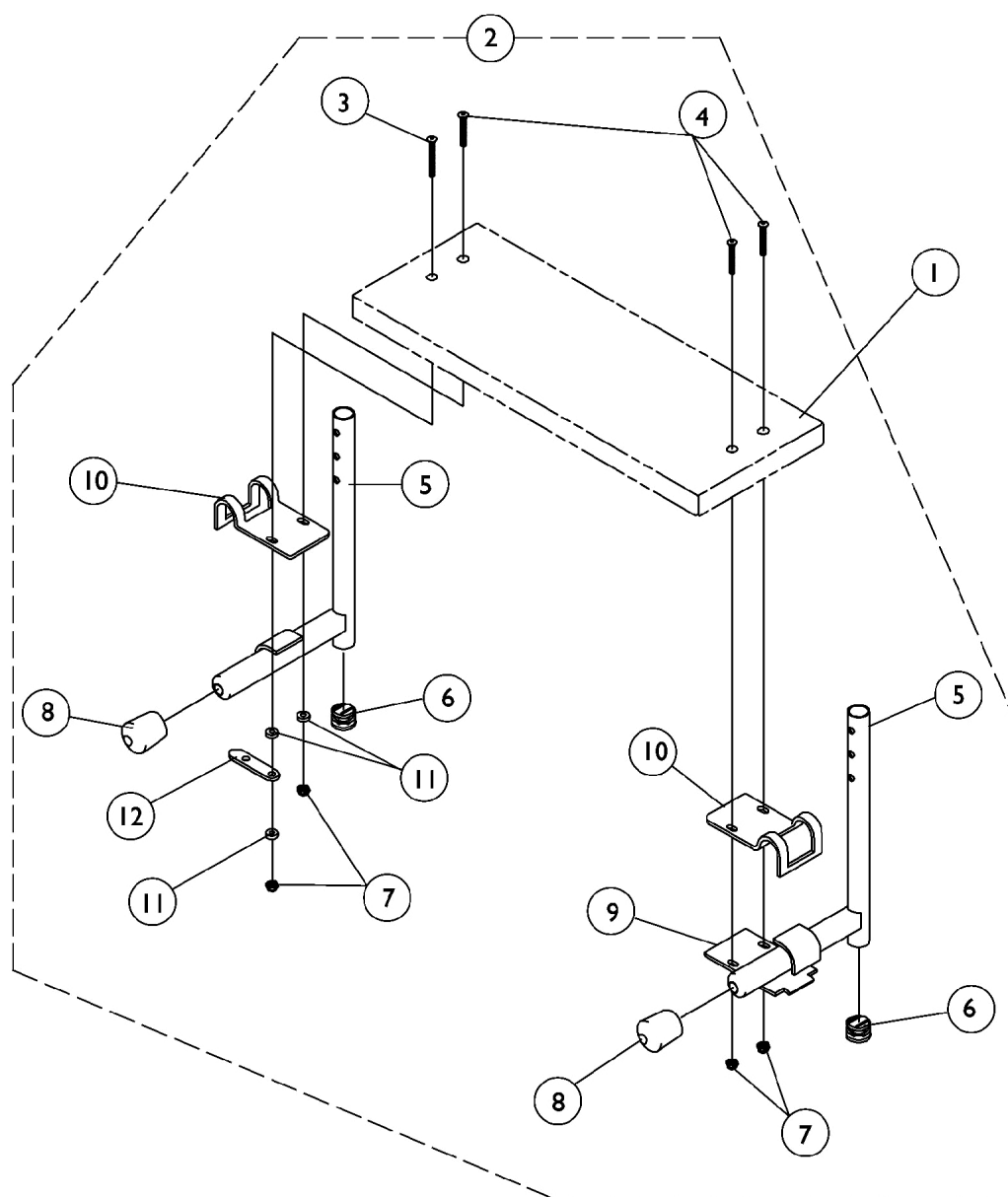
AT5543 Adjustable Angle Footplates

60 deg., 60 deg. MFX, 70 deg., 70 deg. MFX, PW93, PW93E, and 90 deg.
Swingaway Supports

#1 Pivot/Slide Tube and Footplate Assemblies

Rigging Type	90, 70 MFX w/o Pivot/Slide Tube	60, 60 MFX, 70 PW93, PW93E (9-7/8" Tube)	60, 60 MFX, 70 PW93, PW93E (11-7/8" Tube)
14-15" W - Left (5-1/4" Footplate)	1060439	1060445	1062759
16" and Wider - Right (6-1/4" Footplate)	1062570	1062756	1062760
16" and Wider - Left (6-1/4" Footplate)	1062571	1062757	1062761

S1263 One Piece Wooden Footboard and Hardware



S1263 One Piece Wooden Footboard and Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A B	See Chart	#1 One Piece Wooden Footboard without Hardware	1	1
		See Chart	Heel Loop Hardware Packages (not shown)	1	1
2		1054573	Kit, Wooden Footboard Mounting Hardware	1	1
3			NLA - Screw, Phillips Oval Head (#10-32 x 1-1/2")	1	1
4			NLA - Screw, Phillips Oval Head (#10-32 x 1-1/4")	1	3
5			Tube, Pivot/Slide, Chrome - Right (9-1/2" L)	1	1
5			Tube, Pivot/Slide, Chrome - Left (9-1/2" L)	1	1
6			Plug Button, Black (3/4")	1	2
7			Locknut (#10-32)	1	4
8			Cap, End, Tube, Black (7/8")	1	2
9			Lock, Pad Plate, Legrest, Black	1	1
10			Clamp, Black	1	2
11		NLA - Washer, Nylon (3/16 x 7/16 x 1/8")	1	3	
12		NLA - Link, Locking, Chrome	1	1	
NOTE: A - Not Shown. B - Includes items 3-12					

#1 One Piece Wooden Footboard without Hardware

NOTE: When selecting a wooden footboard for PW93ST or 70 Degree Tapered Footrest, order a 3" narrower footboard to accommodate the 1.5" footrest taper per side. Example: 17" wide chair will use a 14" wide chair footboard. S1263 option is not available for tapered footrest less than 17" wide.

Footrest-Footboard w/ Heel Loop Holes Part Number	Footrest-Footboard w/o Heel Loop Holes Part Number	Chair Width	Footboard Width	Footboard Depth
1034245-NLA	48247X003-NLA	14"	11-5/8"	6"
1034246-NLA	1031910-NLA	15"	12-1/2"	6"
1034247-NLA	48247X001-NLA	16"	13-3/4"	6"
1034248-NLA	1031911-NLA	17"	14-1/2"	6"
1034249-NLA	48247X000-NLA	18"	15-9/16"	6"
1034250-NLA	1031912-NLA	19"	16-1/2"	6"
1034251-NLA	1031913-NLA	20"	17-1/2"	6"
1034252-NLA	1031914-NLA	21"	18-1/2"	6"
1034253-NLA	1031915-NLA	22"	19-1/2"	6"
1034254-NLA	1031916-NLA	23"	20-1/2"	6"
1034255-NLA	1031917-NLA	24"	21-1/2"	6"

S1263 One Piece Wooden Footboard and Hardware

Heel Loop Hardware Packages (not shown)

(All hardware is included to attach heel loops to footboard.)

Chair Width	Part Number	Package Includes
14-15" Wide	1033904-NLA	2 each Heel Loops 4 each Screw, PPH (1/4-20 x 3") 4 each Spacer (1/4 x 11/32 x 1-3/4") 4 each Locknut (1/4-20)
16"-24" Wide	1033905-NLA	2 each Heel Loops 4 each Screw, PPH (1/4-20 x 3") 4 each Spacer (1/4 x 11/32 x 1-3/4") 4 each Locknut (1/4-20)

Footrest and Legrest Accessories

NOTE: Heel loop replacements for Power Articulating Legrest can be found on the Power Articulating Legrest page.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A	1032243	Strap, Calf w/ Hook and Loop (36" L)	1	1
	A,C	1032214	H-Strap (24" L)	1	1
	A,D	1032215	H-Strap (26" L)	1	1
	A,E	1032216	H-Strap (31" L)	1	1
	A,B	8881038231	Kit, 3" Extension w/ Hardware (Pair)	2	1
	A,F	1026987	Guard, Impact (8" L)	1	2
	A	See Chart	Heel Loops and Hardware (Not Including AT5043/AT5543)	1	1
	A	See Chart	Attaching Hardware Part Numbers (Not Including AT5043/AT5543)	1	1
	A	See Chart	AT5043 and AT5543 Heel Loops, Heel Loops w/ Ankle Straps and Hardware	1	1
	A	See Chart	Toe Loops and Hardware	1	1
NOTE: A - Not Shown B - Specify frame color when ordering. See page titled "Frame Finishes and Touch-Up Paints". C - 12-14" wide seats D - 15-16" wide seats E - 17" and wider seats F - For 70 deg. Tapered Footrest.					

Heel Loops and Hardware (Not Including AT5043/AT5543)

Footplate Type	Chair Width	Heel Loop Single #	Heel Loop Pair #	Heel Loop w/ Ankle Strap Single # Rt.	Heel Loop w/ Ankle Strap Single # Lt.	Heel Loop w/ Ankle Strap Pair #	Attaching Hardware Pair #
Composite Small (1651)	13-14" W or 15-17" W Tapered	1028412-NLA	1035912-NLA	1035908-NLA	1035909-NLA	1035906	1035931
Composite Medium (1651)	15-16" W or 18-19" W Tapered	1017621	1035917-NLA	1035919	1035920	1035918	1035931
Composite Large (1651)	17-24" W or 20-24" W Tapered	1017621	1035917-NLA	1035932-NLA	1035933-NLA	1035930	1035931
Standard Aluminum (1650)	14-15" W	1025234-NLA	1035905	1035908-NLA	1035909-NLA	1035906	1035907
Standard Aluminum (1650)	16-24" W	1017621	1035917-NLA	1035919	1035920	1035918	1035907
Deluxe Aluminum (1450)	16-24" W	1017621	1035917-NLA	1035919	1035920	1035918	1086112-NLA

Footrest and Legrest Accessories

NOTE: Heel loop replacements for Power Articulating Legrest can be found on the Power Articulating Legrest page.

Heel Loops and Hardware (Not Including AT5043/AT5543)

Footplate Type	Chair Width	Heel Loop Single #	Heel Loop Pair #	Heel Loop w/ Ankle Strap Single # Rt.	Heel Loop w/ Ankle Strap Single # Lt.	Heel Loop w/ Ankle Strap Pair #	Attaching Hardware Pair #
X-Large Aluminum (1350)	16-24" W	1017621	1035917-NLA	1035919	1035920	1035918	1055241

Attaching Hardware Part Numbers (Not Including AT5043/AT5543)

Footplate Type	Part Number	Part Number Consists of
Composite (1651)	1035931	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/4") (2) Spacer (1/4 x 11/32 x 1-3/4") (2) Hex Nut w/ Nylon Cap (1/4-20) (2) Flat Washer (1/4 x 5/8 x 1/16")
Standard Aluminum (1650)	1035907	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/2") (2) Spacer (1/4 x 11/32 x 1-3/4") (2) Locknut (1/4-20)
Deluxe Aluminum (1450)	1086112-NLA	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/2") (2) Spacer (1/4 x 11/32 x 1-3/4") (2) Locknut (1/4-20)
X-Large Aluminum (1350)	1055241	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/4") (2) Spacer (1/4 x 11/32 x 1-3/4") (2) Locknut (1/4-20)

Footrest and Legrest Accessories

NOTE: Heel loop replacements for Power Articulating Legrest can be found on the Power Articulating Legrest page.

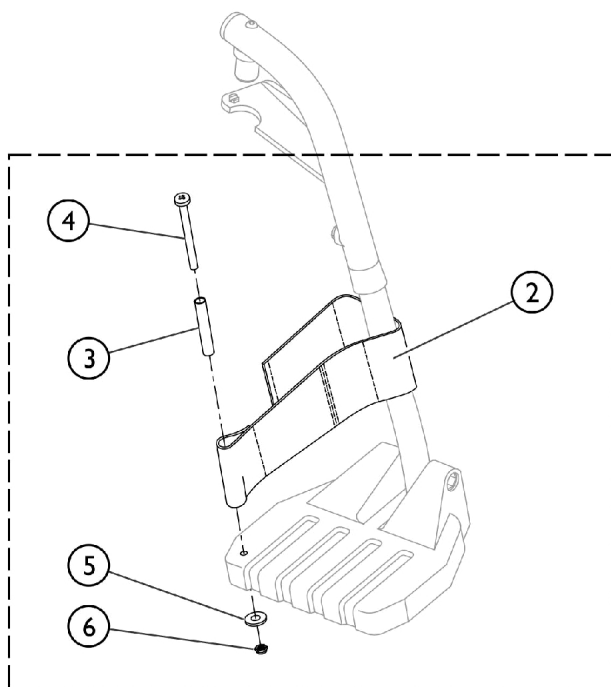
AT5043 and AT5543 Heel Loops, Heel Loops w/ Ankle Straps and Hardware

Footplate Type	Part Number	Part Number Consists of
AT5043 Flip-Up and AT5543 Adj. Angle	1160723 Kit, Heel Loop w/ Hardware, Adjustable Angle Footplate (Pair)	(2) Heel Loops (4) Screw, PPH (1/4-20 x 2-1/4") (4) Spacer (4) Locknut (1/4-20)
AT5043 Flip-Up and AT5543 Adj. Angle	1160724 Kit, Heel Loop w/ Ankle Strap and Hardware, Adjustable Angle Footplate (Pair)	(2) Heel Loops w/ Ankle Straps (4) Screw, PPH (1/4-20 x 2-1/4") (4) Spacer (4) Locknut (1/4-20)
Attaching Hardware Only	1035931 Kit, Heel Loop Attaching Hardware (Pair)	(2) Screw, PPH (1/4-20 x 2-1/4") (2) Spacer (2) Locknut (1/4-20)

Toe Loops (1345) and Attaching Hardware

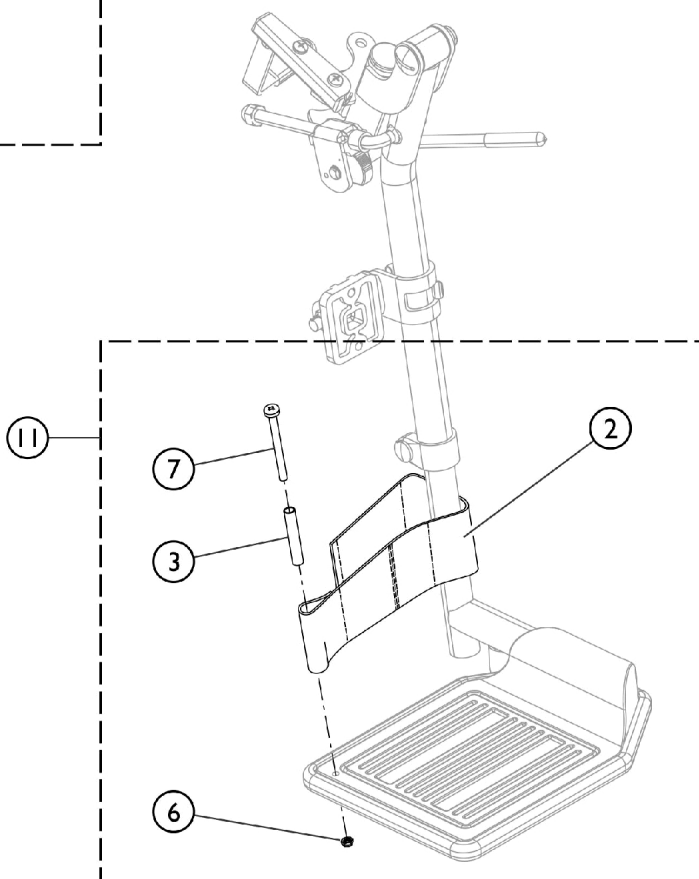
Footplate Type	Toe Loop w/o Hardware Single #	Toe Loop w/o Hardware Pair #	Attaching Hardware Part Number	Attaching Hardware Consists of
1651, 1650, 1450, 1350, Footplates	04572X025	1037087	1037089	(4) Screw, Phillips Pan Head (10-32 x 7/8") (4) Washer (1/4 x 3/4 x 3/32") (4) Locknut (10-32)
AT5043 and AT5543 Footplates	04572X025	1037087	1104749	(4) Screw, Phillips Pan Head (10-32 x 1/2") (4) Washer (1/4 x 3/4 x 3/32")

Front Riggings - Adjustable Heel Loops



I Heel Loop and Hardware for All Footplate Options (Except Deluxe I450)

II Heel Loop and Hardware for Deluxe (I450) Footplates



SCM_058A

Front Riggings - Adjustable Heel Loops

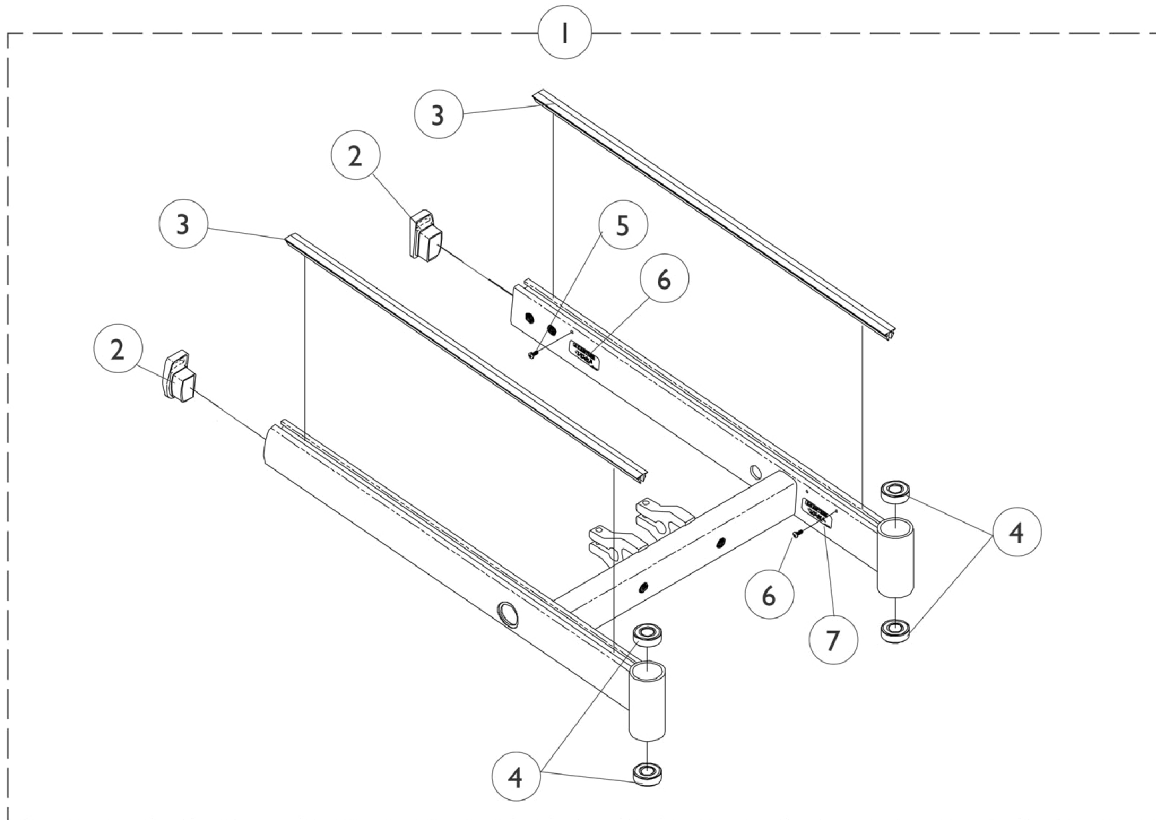
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1191117	Kit, Heel Loop, Adjustable w/ Hardware (Pair)	1	1
2			Heel Loop	1	2
3			NLA - Spacer (1/4 x 11/32 x 1-3/4")	1	2
4			NLA - Screw, Phillips Pan Head (1/4-20 x 2-1/4")	1	2
5			Washer, Flat (1/4 x 5/8 x 1/16")	1	2
6			Nut, Hex, Nylon Cap (1/4-20)	1	2
			Instruction Sheet, Adjustable Heel Loop	1	1
11	B	1191116	Kit, Heel Loop, Adjustable w/ Hardware, Deluxe 1450 (Pair)	1	1
2			Heel Loop	1	2
3			NLA - Spacer (1/4 x 11/32 x 1-3/4")	1	2
6			Nut, Hex, Nylon Cap (1/4-20)	1	2
7			NLA - Screw, Phillips Pan Head (1/4-20 x 2-1/2")	1	2
			Instruction Sheet, Adjustable Heel Loop	1	1

NOTE: A - Kit includes items 2 - 6. Used with All Footplates except Deluxe (1450).
 B - Kit includes items 2, 3, 6, and item 7. Used with Deluxe (1450) Footplates only.

Base Frame, RWD (Before 3/1/01)

NOTE: "Base Frames are not available as a service part."

Wheelchair must be returned to Invacare when Base Frame needs replacement. Contact Invacare Customer Service for more information.

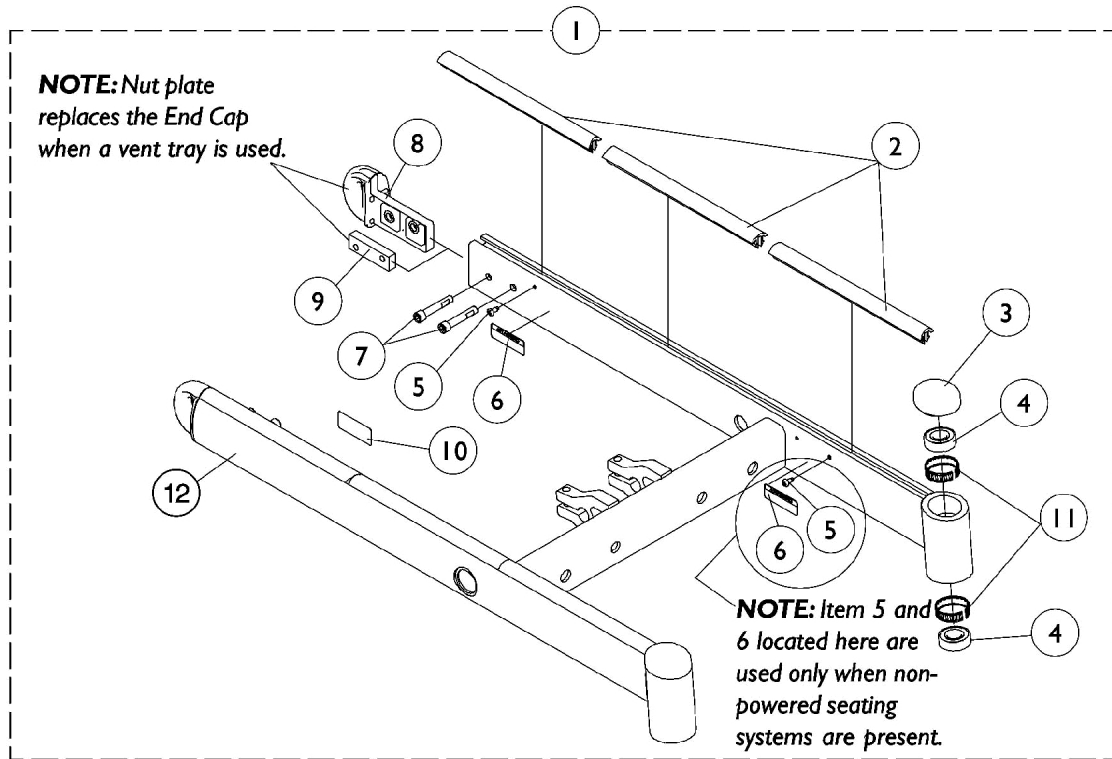


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
2		1070319-NLA	NLA - Cap, End, Tube, Black - Right	1	1
2		1070320	Cap, End, Tube, Black - Left	1	1
3		1076586-NLA	NLA - Kit, Extrusion Cover (Pair) 2 feet each piece	2	1
4		40117X006	Bearing (5/8")	1	4
5		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	2
6		1070497-NLA	NLA - Label, Caution	1	2

Base Frame, RWD (After 2/28/01)

NOTE: "Base Frames are not available as a service part."

Wheelchair must be returned to Invacare when Base Frame needs replacement. Contact Invacare Customer Service for more information.



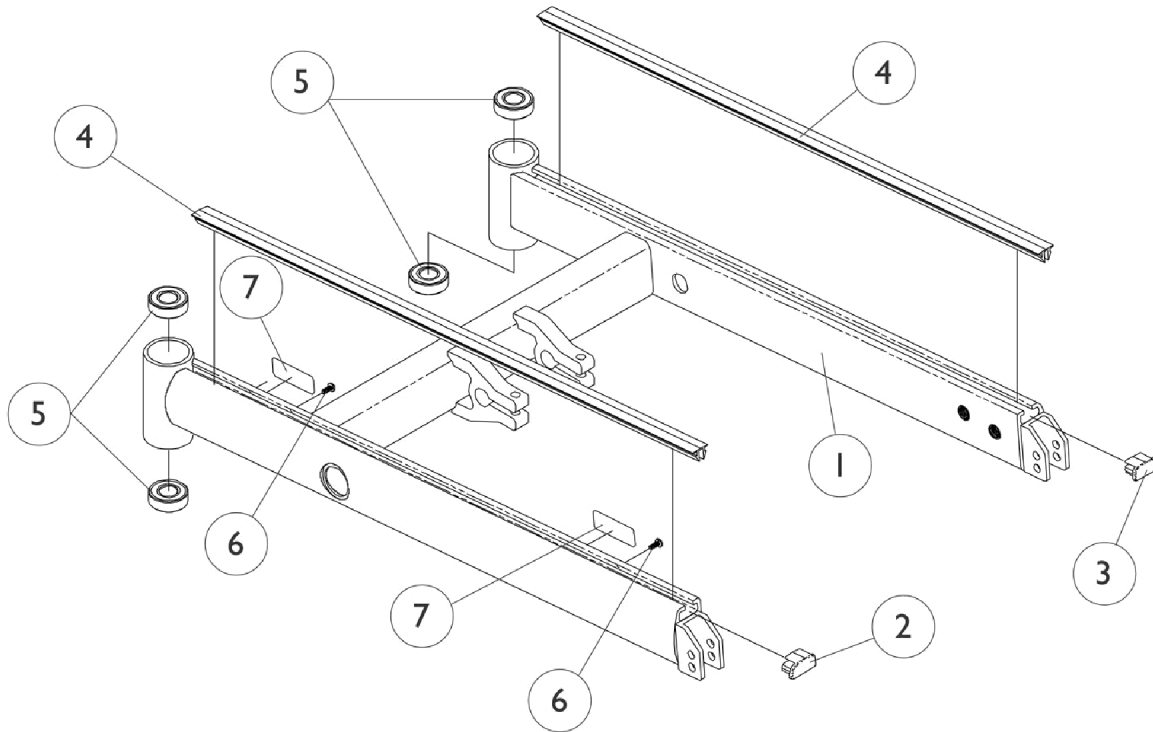
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	See Note	See Footnote	1	1
2	B	1104863	Package, Cover, Frame Rail - Right/Left	6	1
3		1101737	Cap, End, Tube, Black	1	2
4		40117X006	Bearing (5/8")	1	4
5		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	2
6		1070497-NLA	NLA - Label, Caution	1	2
7		1104845	Screw, Socket Head w/ Patch (5/16-18 x 1-3/4")	1	4
8		1101719	Cap, End, Tube, Black - Right	1	1
8		1101720	Cap, End, Tube, Black - Left	1	1
9		1104762-NLA	NLA - Plate, Nut	1	2
10		1053056-NLA	NLA - Decal, Warning	1	1
11		1110717	Ring, Tolerance	1	4

NOTE: A - Item 1 is no longer available. Replacement parts may be ordered individually.
 B - For short bases, only 2 ea. (right and left) frame rail covers are used.

Base Frame (MWD)

NOTE: "Base Frames are not available as a service part."

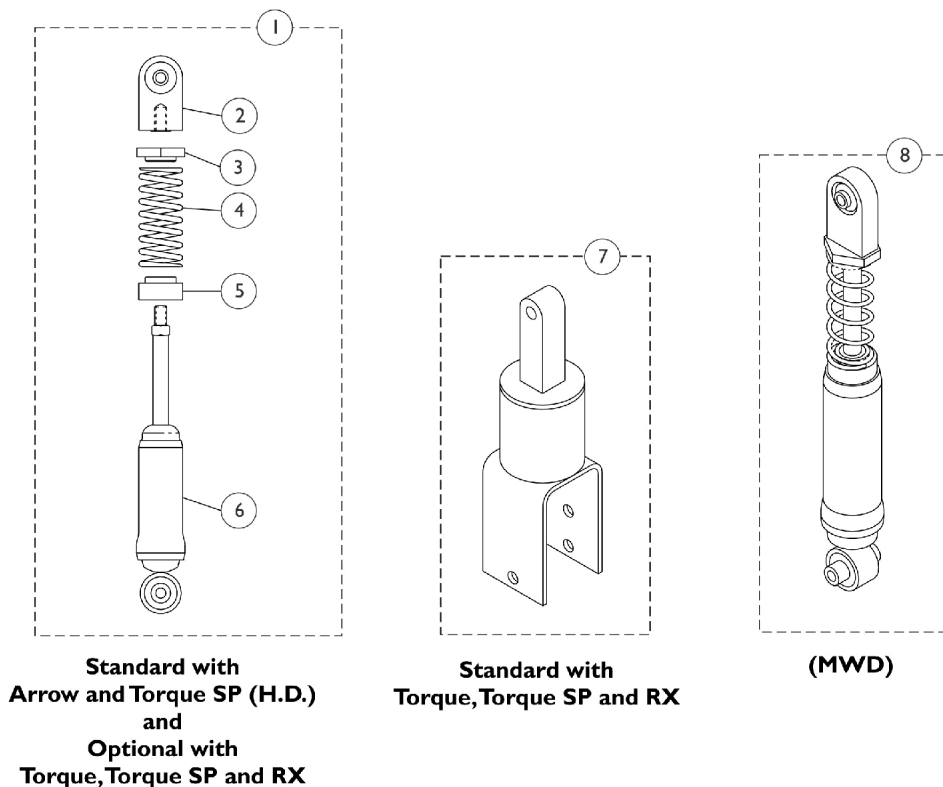
Wheelchair must be returned to Invacare when Base Frame needs replacement. Contact Invacare Customer Service for more information.



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
2		1070384-NLA	NLA - Cap, End, Tube, Black - Right	1	1
3		1070385-NLA	NLA - Cap, End, Tube, Black - Left	1	1
4		1076586-NLA	NLA - Kit, Extrusion Cover (Pair) 2 feet each piece	2	1
5		40117X006	Bearing (5/8")	1	4
6		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	2
7		1070497-NLA	NLA - Label, Caution	1	2

Shock Absorbers

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

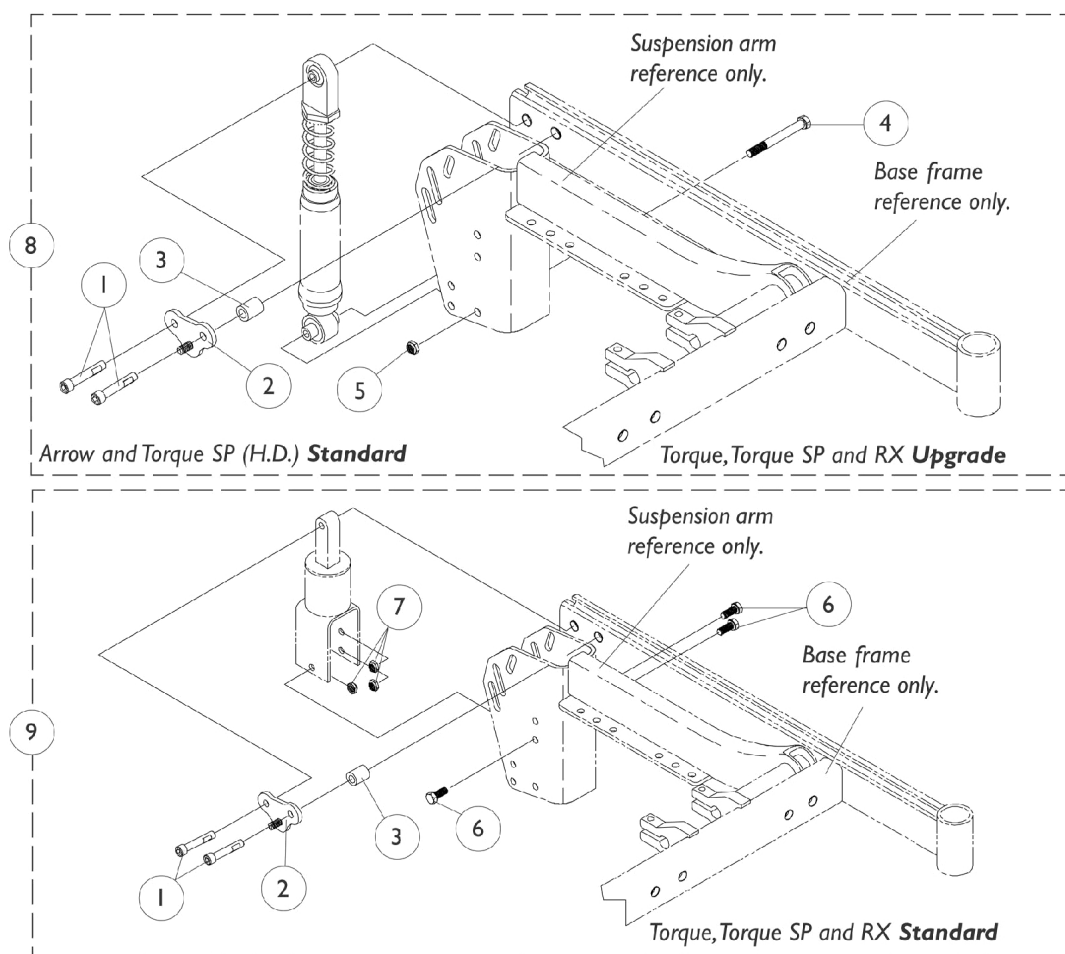


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,C	1039660	Shock Assembly, (RWD) Heavy Duty	1	1
1	A,D	1041419-NLA	NLA - Shock Assembly, (RWD) Standard	1	1
2		1041431	Shock Eyelet Assembly	1	1
3		1054481-NLA	NLA - Retainer, Shock Spring, Upper	1	1
4	C	1043596-NLA	NLA - Spring, Shock, Heavy Duty	1	1
4	D	1043595-NLA	NLA - Spring, Shock, Standard	1	1
5		1042466-NLA	NLA - Retainer, Shock Spring, Lower	1	1
6		1039659-NLA	NLA - Absorber, Shock	1	1
7		1050177-NLA	NLA - Element, Rubber	1	1
8	B,C	1070371-NLA	NLA - Shock Assembly, (MWD) Heavy Duty	1	1
8	B,D	1070370-NLA	NLA - Shock Assembly, (MWD) Standard	1	1

NOTE: A - Includes items 2 - 6.
 B - Due to the spring compression, MWD shock absorber is not saleable as individual components.
 C - Heavy duty 400 lb limit or 300 lb limit with Gearless/Brushless GB.
 D - Standard 250 lb limit.

NOTE: See shock suspension mounting hardware page to find shock absorber attaching hardware.

Shock Suspension Mounting Hardware (RWD)



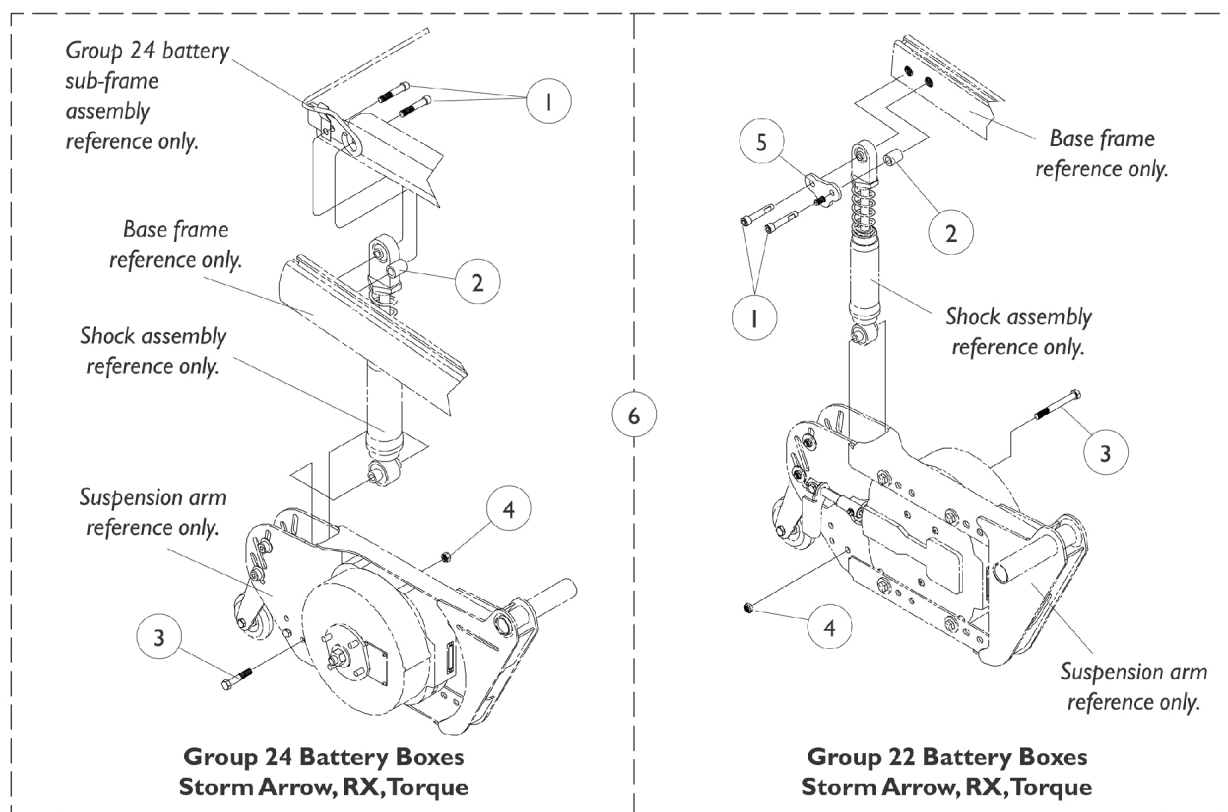
Shock Suspension Mounting Hardware (RWD)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	2
1	E	1104845	Screw, Socket Head w/ Patch (5/16-18 x 1-3/4")	1	2
2	A	1049354-NLA	NLA - Bracket, Hanger, Black	1	1
3		1039649-NLA	NLA - Spacer (3/8 x 5/8 x 25/32")	1	1
4		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	1
5		1028769	Locknut (5/16-18)	1	1
6		1039860	Screw, Hex Head w/ Patch (5/16-18 x 3/4")	1	3
7		1028769	Locknut (5/16-18)	1	3
8	B,D	1050170-NLA	NLA - Hardware, Shock Mounting (Per Side)	1	1
8	B,E	1104892-NLA	NLA - Hardware, Shock Mounting (Per Side)	1	1
9	C,D	1042445-NLA	NLA - Hardware, Rubber Element Mounting (Per Side)	1	1
9	C,E	1104893-NLA	NLA - Hardware, Rubber Element Mounting (Per Side)	1	1
NOTE: A - Not used when mounting shocks with group 24 batteries. B - Includes items 1-5. C - Includes items 1-3, 6, and 7. D - Before 3/1/01. E - After 2/28/01.					

Shock Suspension Mounting Hardware (RWD)

Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



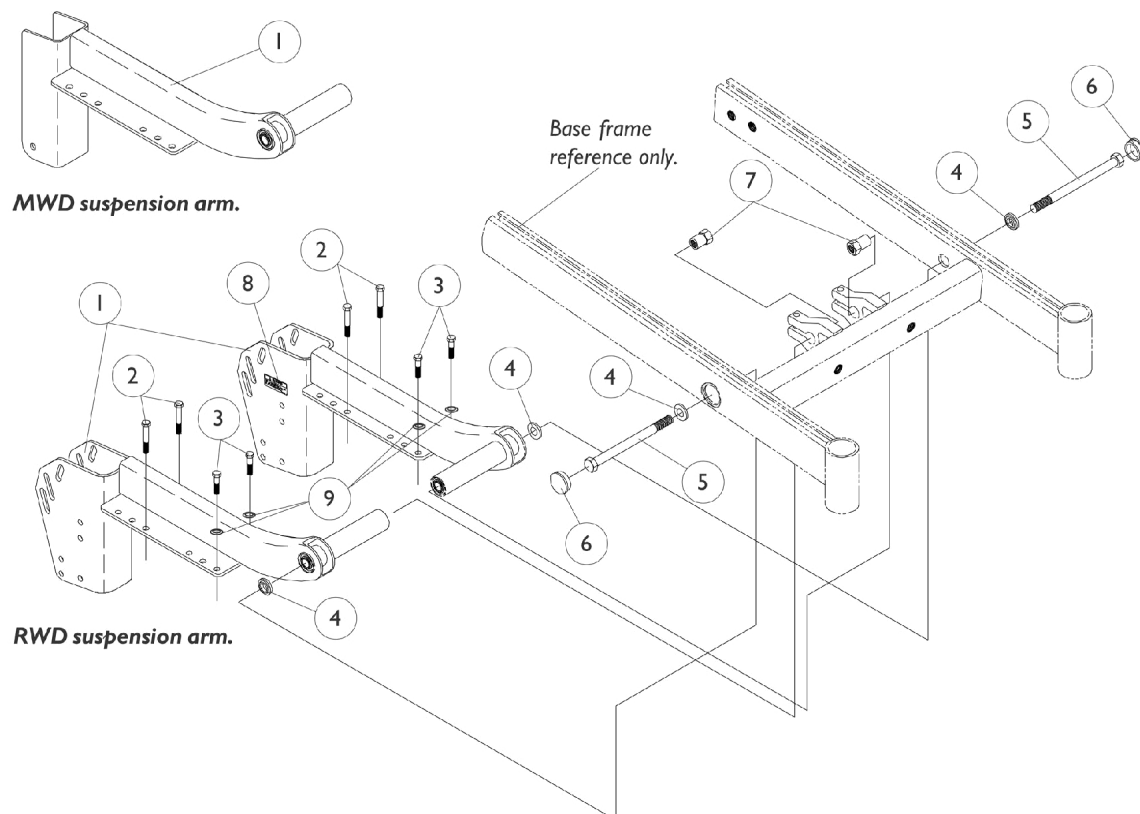
Shock Suspension Mounting Hardware (RWD)

Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	C	7930337-NLA	NLA - Package, Screw, Hex Head w/ Patch (5/16-18 x 1-1/4")	25	2
1	D	1104845	Screw, Socket Head w/ Patch (5/16-18 x 1-3/4")	1	2
2		1039649-NLA	NLA - Spacer (3/8 x 5/8 x 25/32")	1	1
3		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	1
4		1028769	Locknut (5/16-18)	1	1
5		1049354-NLA	NLA - Bracket, Hanger, Black	1	1
6	A,C	1079254-NLA	NLA - Hardware, Shock Suspension Mounting, Group 24 Battery Box	1	1
6	A,D	1104890-NLA	NLA - Hardware, Shock Suspension Mounting, Group 24 Battery Box	1	1
6	B,C	1079255-NLA	NLA - Hardware, Shock Suspension Mounting, Group 22 Battery Box	1	1
6	B,D	1104891-NLA	NLA - Hardware, Shock Suspension Mounting, Group 22 Battery Box	1	1
NOTE: A - Includes items 1-4 B - Includes items 1-5 C - Before 3/1/01 D - After 2/28/01					

Suspension Arm and Mounting Hardware

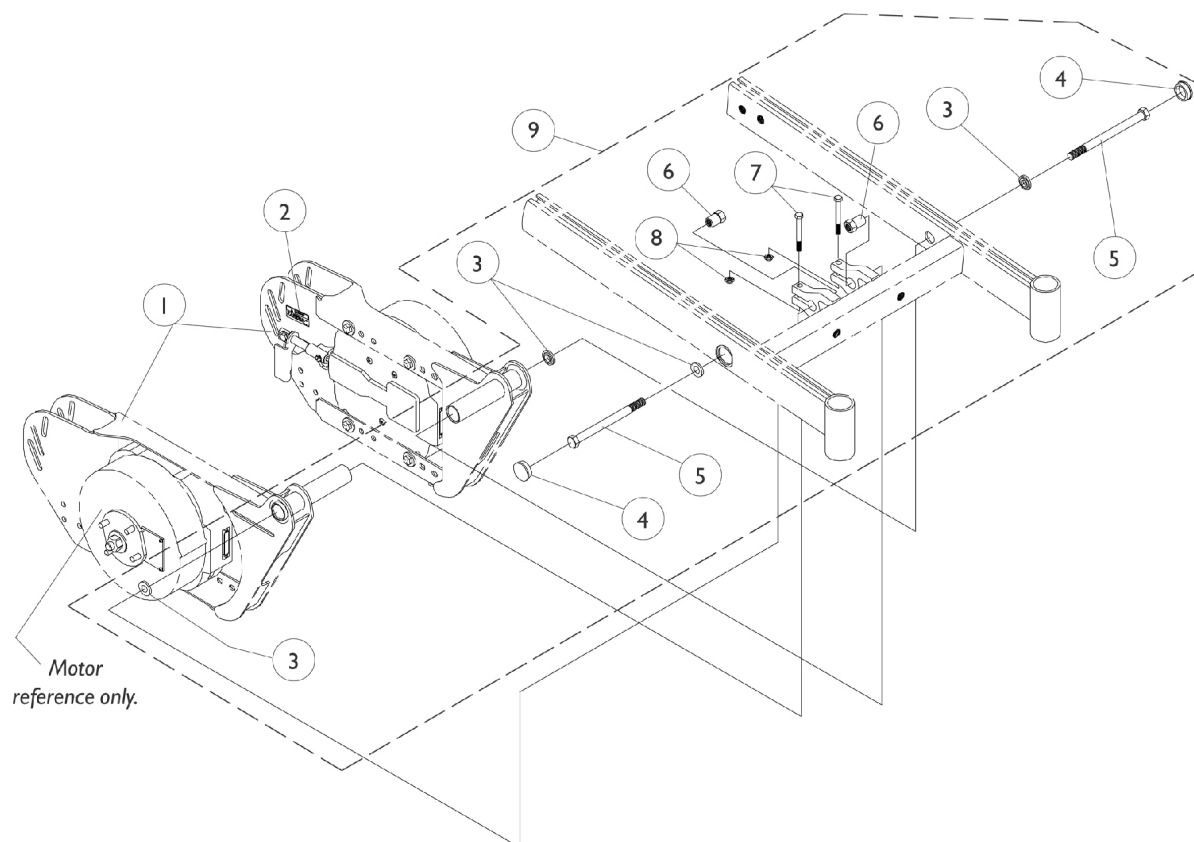


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1082602-NLA	NLA - Kit, Suspension Arm w/ Warning Decal, Black - Right	1	1
1		1082603-NLA	NLA - Kit, Suspension Arm w/ Warning Decal, Black - Left	1	1
1		1070365-NLA	NLA - Kit, Suspension Arm, MWD with Warning Decal, Black - Right	1	1
1		1070366-NLA	NLA - Kit, Suspension Arm, MWD with Warning Decal, Black - Left	1	1
2		1043628-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 2-1/2")	1	4
3		1104257	Screw, Hex Head w/ Patch (5/16-18 x 1-1/4")	1	4
4		1039684-NLA	NLA - Washer (1/2" I.D. x 7/8" O.D.)	1	4
5		1039682-NLA	NLA - Screw, Hex Head (1/2-20 x 7")	1	2
6		1038353	Plug Button, Headtube, Black	1	2
7		1039683-NLA	NLA - Nut, Shoulder (1/2-20)	1	2
8		1053056-NLA	NLA - Decal, Warning	1	2
9	A	1023263-NLA	NLA - Washer, Internal Tooth (M8)	1	4
		1104894-NLA	NLA - Hardware, Motor Mounting	1	2
NOTE: A - Part #1023263 is no longer available as a service part individually. Order part #1104894 Motor Mounting Hardware (not shown) as a replacement.					

Suspension Arm and Mounting Hardware

Gearless/Brushless

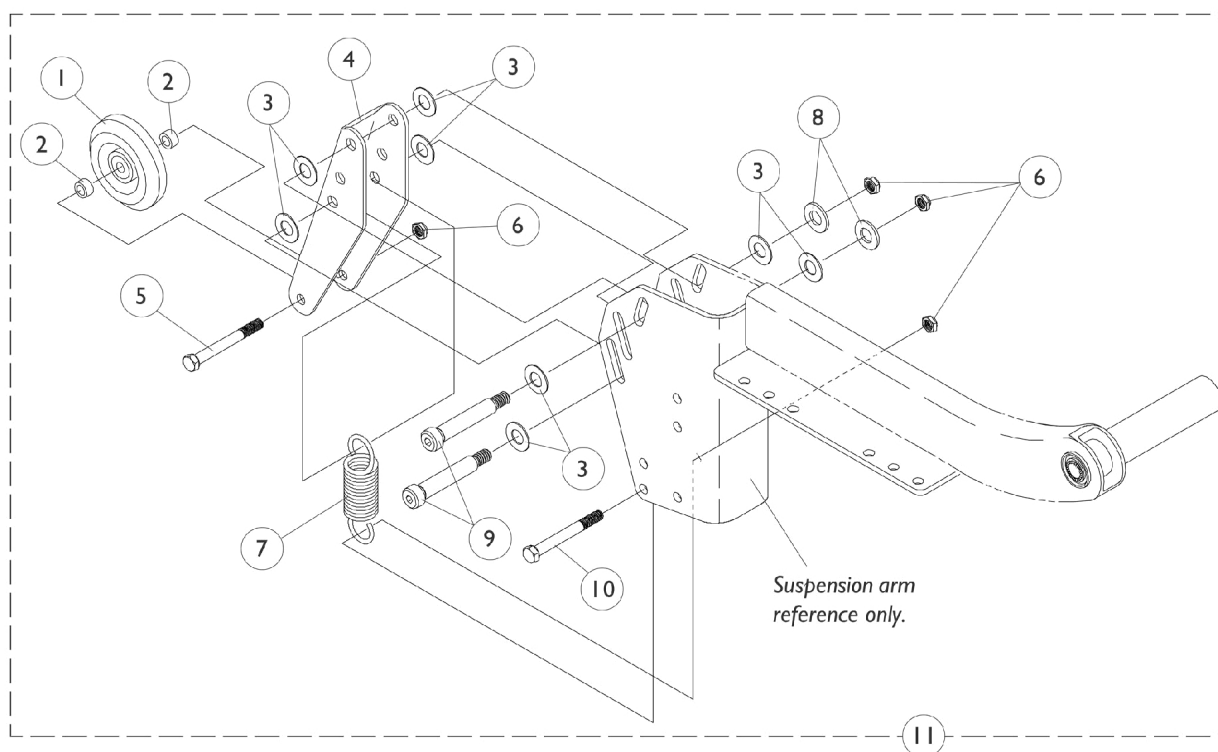
NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1080650-NLA	NLA - Kit, Suspension Arm with Warning Decal (G/B), Black - Right	1	1
1		1080651-NLA	NLA - Kit, Suspension Arm with Warning Decal (G/B), Black - Left	1	1
2		1053056-NLA	NLA - Decal, Warning	1	1
9	A	1078243	NLA - Kit, Suspension Arm Mounting Hardware	2	1
3			NLA - Washer (1/2" I.D. x 7/8" O.D.)	1	4
4			Plug Button, Headtube, Black	1	2
5			NLA - Screw, Hex Head (1/2-20 x 7")	1	2
6			NLA - Nut, Shoulder (1/2-20)	1	2
7			NLA - Screw, Hex Head (5/16-18 x 2")	1	2
8			Locknut (5/16-18)	1	2

NOTE: A - Include items 3-8

Active 3" Anti-Tip Wheel Assembly (RWD)

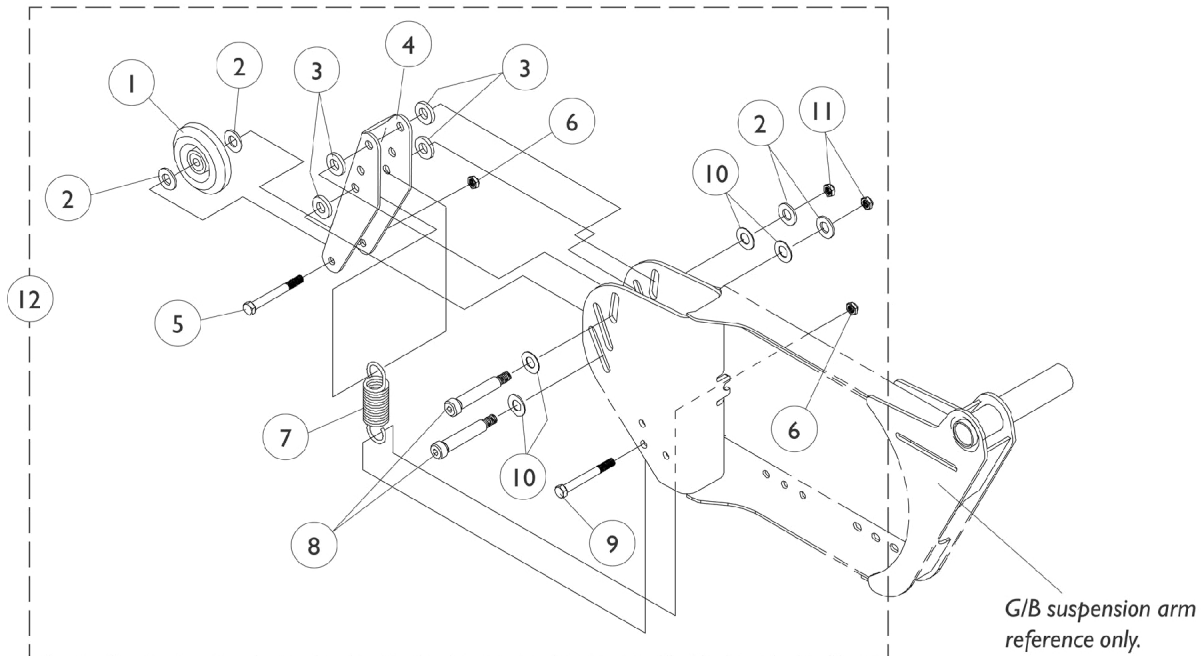


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1032190-NLA	NLA - Wheel Assembly (3" x 1")	1	2
2		1070413-NLA	NLA - Spacer (21/64 x 1/2 x 17/64")	1	4
3		1012371	Washer, Nylon (3/8 x 7/8 x 1/16")	1	16
4		1070410-NLA	NLA - Bracket, Anti-Tipper, Black	1	2
5		1070412-NLA	NLA - Screw, Hex Head (5/16-18 x 2-1/4")	1	2
6		1026158	Locknut (5/16-18)	1	8
7		1070382-NLA	NLA - Spring, Extension (1 x 3-1/2" L)	1	2
8		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	4
9		1070411-NLA	NLA - Bolt, Shoulder (3/8 x 2-1/2")	1	4
10		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	2
11		1070409-NLA	NLA - Anti-Tipper Assembly, Active (3") (Pair)	2	1

Active 3" Anti-Tip Wheel Assembly

Gearless/Brushless

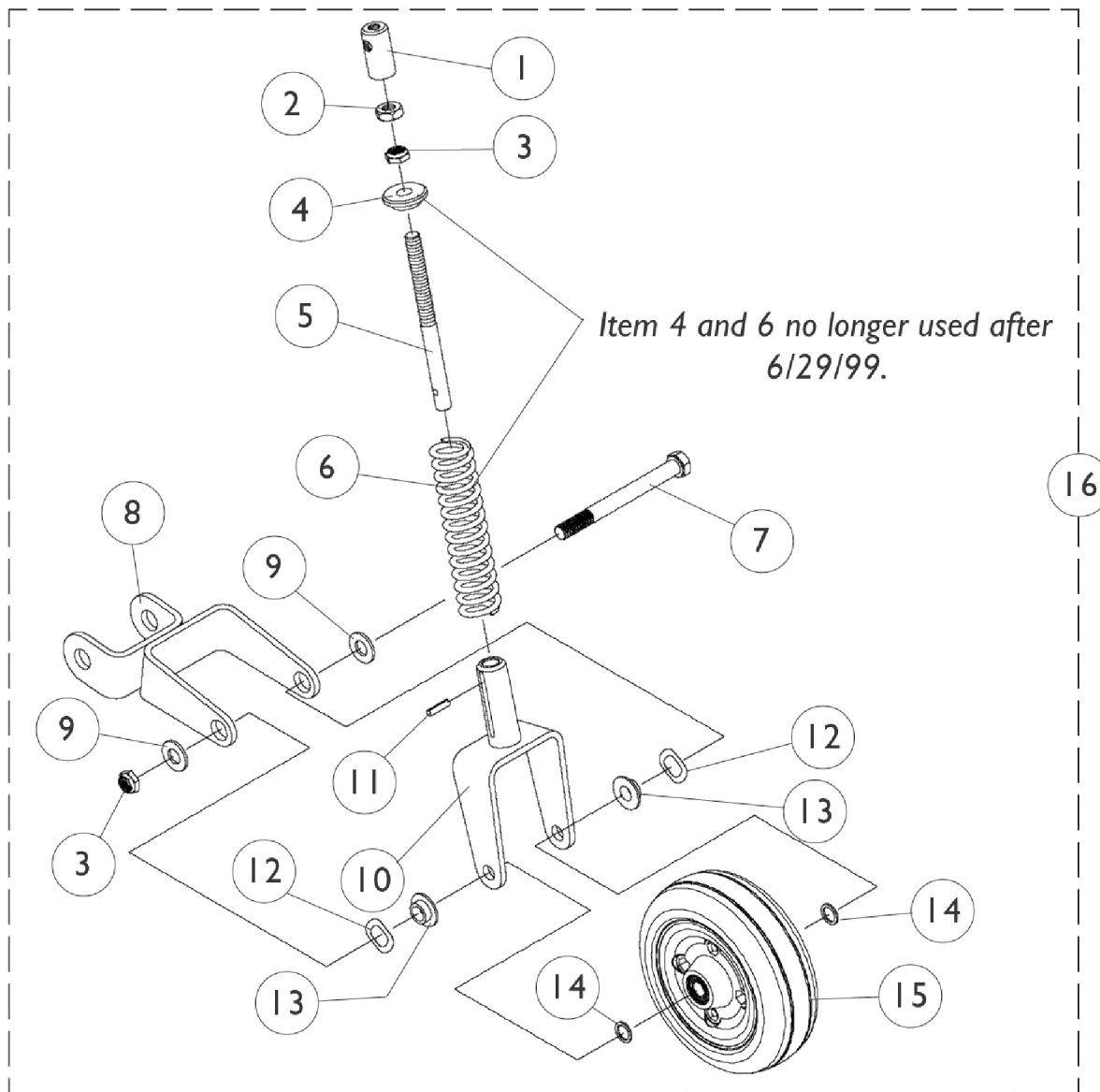
NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1032190-NLA	NLA - Wheel Assembly (3" x 1")	1	2
2		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	8
3		1078208-NLA	NLA - Washer, Nylon (25/64 x 23/32 x 19/64")-Black	1	8
4		1079239-NLA	NLA - Bracket, Anti-Tipper	1	2
5		1044939-NLA	NLA - Screw, Hex Head (5/16-18 x 1-3/4")	1	2
6		1028769	Locknut (5/16-18)	1	4
7		1070382-NLA	NLA - Spring, Extension (1 x 3-1/2" L)	1	2
8		1070411-NLA	NLA - Bolt, Shoulder (3/8 x 2-1/2")	1	4
9		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	2
10		1049527	Washer, Nylon (3/8 x 3/4 x 1/16")	1	8
11		1026158	Locknut (5/16-18)	1	4
12	A	1078244-NLA	NLA - Anti-Tip Assembly, Active, GB (3") (Pair)	2	1

NOTE: A - Includes items 1-11

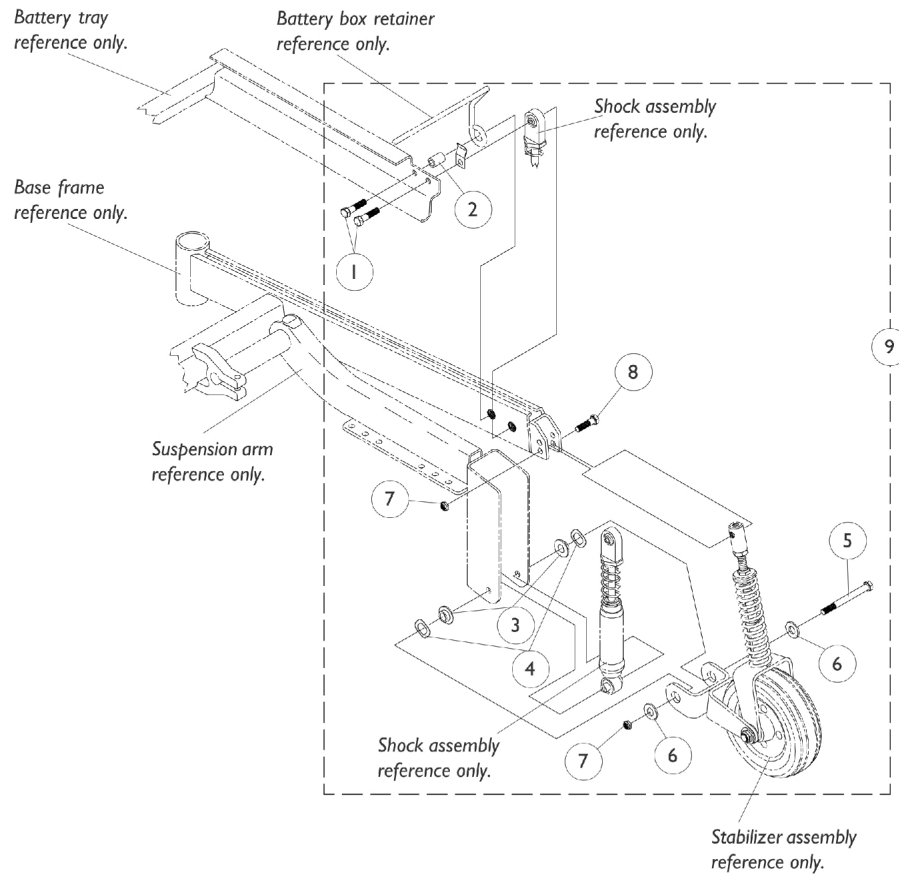
Stabilizer Assembly (MWD)



Stabilizer Assembly (MWD)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1071530-NLA	NLA - End, Upper Pivot	1	1
2		1071491-NLA	NLA - Nut, Jam (7/16-20")	1	1
3		7930331-NLA	NLA - Locknut (7/16-20")	25	1
4		1071529-NLA	NLA - Plug Button	1	1
5		1070322-NLA	NLA - Rod, Stabilizer	1	1
6		1070381-NLA	NLA - Spring, Compression, Black (1-15/64 x 5-1/4 x 5/32")	1	1
7		1070400	Screw, Hex Head (7/16-20 x 4")	1	1
8		1070375-NLA	NLA - Link, Stabilizer, Black	1	1
9		40157X011-NLA	NLA - Washer, Steel (7/16 x 15/16 x 1/16")	1	2
10	C	1070376-NLA	NLA - Fork, Stabilizer	1	1
10	A	1090141	Fork, Stabilizer	1	1
11	C	1071496-NLA	NLA - Pin, Roll (3/16 x 3/4")	1	1
11	A	40187X014-NLA	NLA - Pin, Roll (3/16 x 1")	1	1
12		1070379-NLA	NLA - Washer, Spring (5/8 x 1 x 1/16")	1	2
13		1070323-NLA	NLA - Spacer, Outer Link (7/16 x 1 x 1/32")	1	2
14		7930329	Washer, Steel (15/32 x 5/8 x 3/64")	25	2
15	E	1072014-NLA	NLA - Wheel Assembly, Semi-Pneumatic, Urethane (6" x 2")	1	1
15	F	1115179	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2")	1	1
15	F	1122066	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2") (Pair)	2	1
16	C,D	1070374-NLA	NLA - Stabilizer Assembly	1	1
16	A,B	1090142-NLA	NLA - Stabilizer Assembly	1	1
NOTE: A - After 6/29/99 B - Includes items 1-3, 5 and 7-15 C - Before 6/30/99 D - Includes items 1-15 E - Service part No Longer Available 8/15/03. Due to product improvement, order (pair) part number 1122066 dated after 8/14/03 so each side matches. The deep profile caster has 2 tread grooves w/ round corners instead of 4 tread grooves w/ square corners. F - Service part after 8/14/03					

Stabilizer and Shock Mounting Hardware (MWD)



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
2		1039649-NLA	NLA - Spacer (3/8 x 5/8 x 25/32")	1	2
3		1070324-NLA	NLA - Spacer, Inner Link (5/16 x 1 x 9/32")	1	4
4		1070379-NLA	NLA - Washer, Spring (5/8 x 1 x 1/16")	1	4
5		1070397-NLA	NLA - Screw, Hex Head (5/16-18 x 3-1/4")	1	2
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	4
7		1026158	Locknut (5/16-18)	1	4
8		1070398-NLA	NLA - Screw, Hex Head (5/16-18 x 1-1/2")	1	2
9	A	1070369-NLA	NLA - Hardware, Stabilizer and Shock Mounting	2	1

NOTE: A - Includes items 1-8.

Motor/Gearbox Assembly Reference Chart

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Arrow, Torque and GB (Gearless/Brushless)

Description	2-Pole Motor Before 9/1/98	4-Pole Motor 9/1/98-7/10/01	4-Pole Motor After 7/10/01	GB Gearless/Brushless
RWD-R MWD-L See Note(s) A	1070441-NLA	1085951-NLA See Note(s) B	1104823 See Note(s) A, B	N/A
RWD-R MWD-L WARR RPLMT See Note(s) D	N/A	1085951E-NLA	N/A	N/A
RWD-L MWD-R	1070442-NLA	1085952-NLA See Note(s) B	1104824 See Note(s) B, A	N/A
RWD-L MWD-R WARR RPLMT	N/A	1085952E-NLA See Note(s) E	N/A	N/A
Right or Left	N/A	N/A	N/A	See Note See Note(s) C
Right or Left WARR RPLMT	N/A	N/A	N/A	See Note See Note(s) C
NOTE: A - As of 4/27/07 the 2nd and 3rd Generation Storm Series will share this same Motor/Gearbox Assembly service part number. For 2nd Generation Storm Series, disregard the 3200 RPM and Drive/Push Decals packaged in box. B - As of May 2008, the Metal Motor End Cap will be replaced with a Composite Motor End Cap. The change does not affect form, fit, function or aesthetics. C - Part is no longer available as a service part. D - Part is no longer available as a service part. See part number 1085951 as a replacement. E - Part is no longer available as a service part. See part number 1085952 as a replacement.				

Arrow Heavy Duty and ALL Torque SP's

Description	2-Pole Motor Arrow H.D. Before 10/23/98	4-Pole Motor Arrow H.D. and ALL Torque SP's 10/23/98-7/10/01	4-Pole Motor Arrow H.D. and ALL Torque SP's After 7/10/01
RWD-R MWD-L See Note(s) B	1070414-NLA	1086215-NLA See Note(s) B	1104825 See Note(s) B, A
RWD-L MWD-R	1070415-NLA	1086216 See Note(s) B	1104826 See Note(s) B, A
NOTE: A - As of 4/27/07 the 2nd and 3rd Generation Storm Series will share this same Motor/Gearbox Assembly service part number. For 2nd Generation Storm Series, disregard the 3200 RPM and Drive/Push Decals packaged in box. B - As of May 2008, the Metal Motor End Cap will be replaced with a Composite Motor End Cap. The change does not affect form, fit, function or aesthetics.			

Motor/Gearbox Assembly Reference Chart

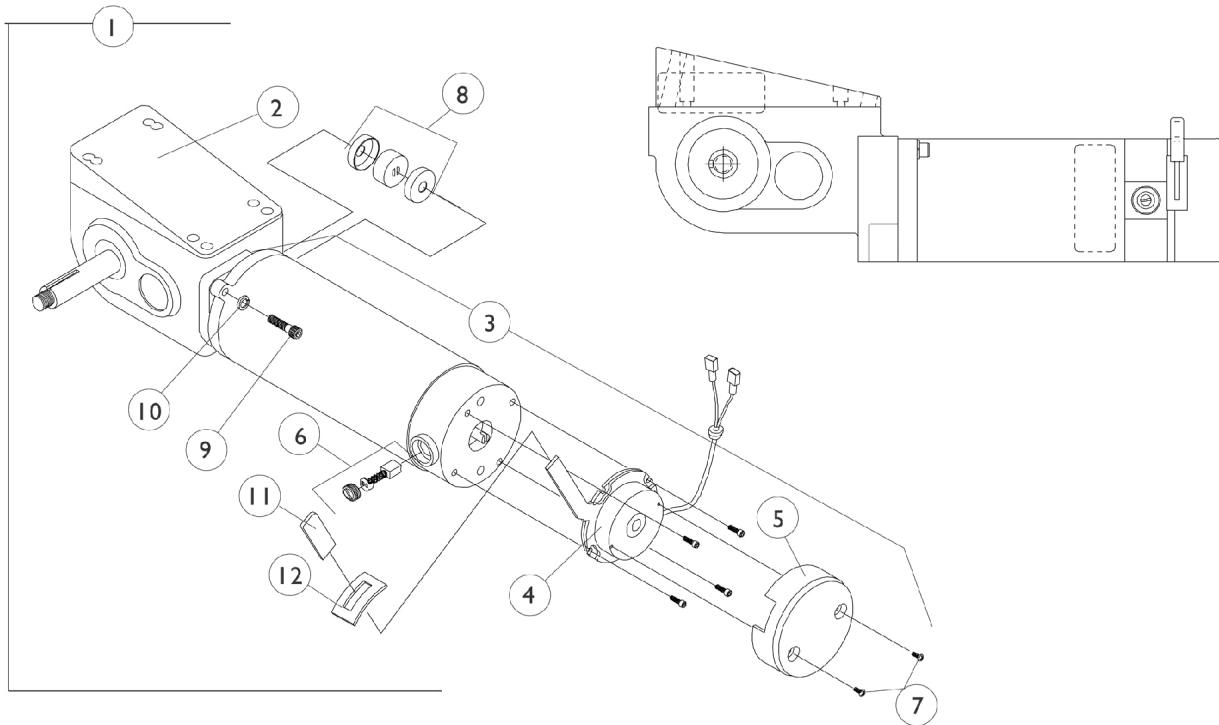
NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Ranger X and Ranger X (H.S.M.)

Description	2-Pole Motor Ranger X Before 9/15/98	4-Pole Motor Ranger X 9/15/98-7/10/01	4-Pole Motor Ranger X After 7/10/01	2-Pole Motor Ranger X (H.S.M.) Before 9/15/98 N/A After 9/14/98
RWD-R MWD-L See Note(s) B	1070437-NLA	1085951-NLA See Note(s) B	1104823 See Note(s) A	1070441-NLA
RWD-R MWD-L WARR RPLMT See Note(s) C	N/A	1085951E-NLA	N/A	N/A
RWD-L MWD-R	1070438-NLA	1085952-NLA See Note(s) B	1104824 See Note(s) B, A	1070442-NLA
RWD-L MWD-R WARR RPLMT	N/A	1085952E-NLA See Note(s) D	N/A	N/A
NOTE: A - As of 4/27/07 the 2nd and 3rd Generation Storm Series will share this same Motor/Gearbox Assembly service part number. For 2nd Generation Storm Series, disregard the 3200 RPM and Drive/Push Decals packaged in box. B - As of May 2008, the Metal Motor End Cap will be replaced with a Composite Motor End Cap. The change does not affect form, fit, function or aesthetics. C - Part is no longer available as a service part. See part number 1085951 as a replacement. D - Part is no longer available as a service part. See part number 1085952 as a replacement.				

2-Pole Motor and Gearbox Storm Arrow and Torque

NOTE: After 8/31/98, Storm Arrow and Torque motors changed from 2-pole to 4-pole motors. Storm Arrow heavy duty changed to 4-pole motors after 10/22/98.



2-Pole Motor and Gearbox Storm Arrow and Torque

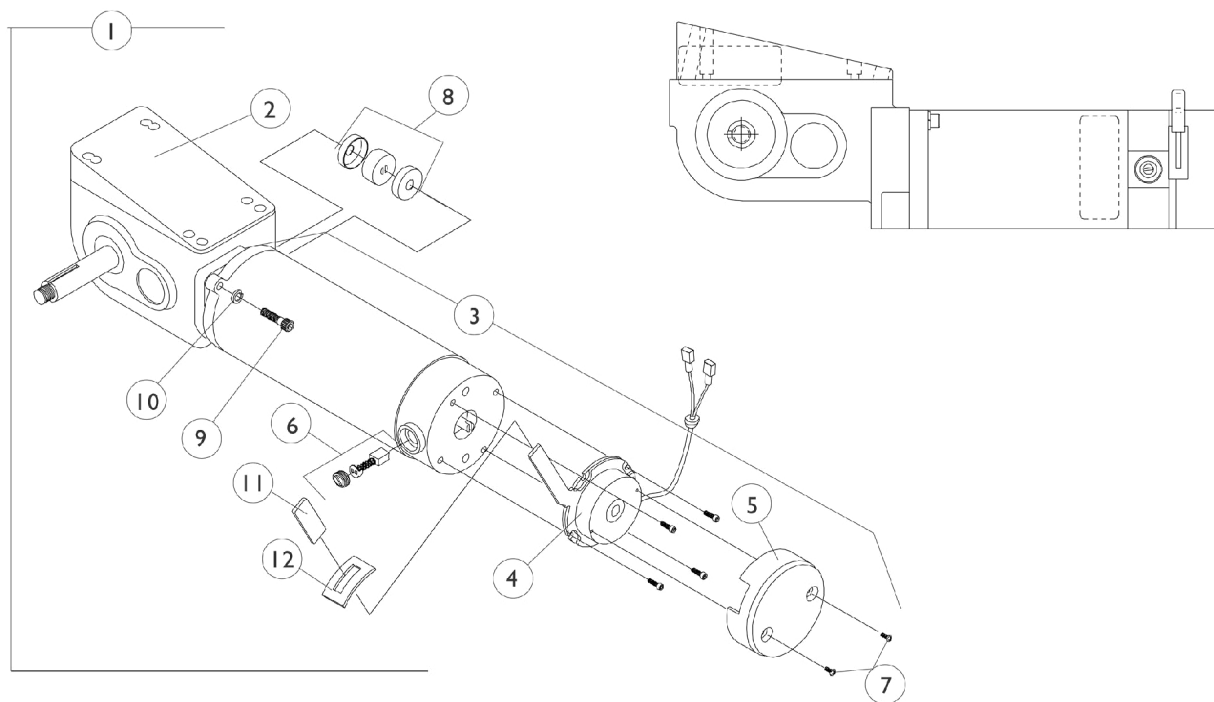
NOTE: After 8/31/98, Storm Arrow and Torque motors changed from 2-pole to 4-pole motors. Storm Arrow heavy duty changed to 4-pole motors after 10/22/98.

Item Number	Description	Storm Arrow and Torque Before 9/1/98 RWD-R MWD-L	Storm Arrow and Torque Before 9/1/98 RWD-L MWD-R	Storm Arrow Heavy Duty Before 10/23/98 RWD-R MWD-L	Storm Arrow Heavy Duty Before 10/23/98 RWD-L MWD-R
1.	Motor/Gearbox	1070441-NLA See Note(s) A, D	1070442-NLA See Note(s) D, A	1070414-NLA See Note(s) A, E	1070415-NLA See Note(s) A, E
2.	Gear Box	1070460-NLA See Note(s) A, D	1070461-NLA See Note(s) A, D	1070439-NLA See Note(s) A, E	1070440-NLA See Note(s) E, A
3.	Motor Assembly	1070507-NLA See Note(s) A, D	1070508-NLA See Note(s) A, D	1070507-NLA See Note(s) E, A	1070508-NLA See Note(s) A, E
3.	WARR RPLMT - Motor Assembly	1070507E-NLA See Note(s) A, D	1070508E-NLA See Note(s) A, D	1070507E-NLA See Note(s) A, E	1070508E-NLA See Note(s) E, A
4.	Brake Repair Kit	1064112-NLA	1064111-NLA	1064112-NLA	1064111-NLA
5.	Brake Cover with Screws	1064113-NLA	1064114-NLA	1064113-NLA	1064114-NLA
6.	Brushes with Caps (Pair)	1064336-NLA	1064336-NLA	1064336-NLA	1064336-NLA
7.	Screw (#4-40 x 1/4")	1050305-NLA	1050305-NLA	1050305-NLA	1050305-NLA
8.	NLA - Coupling w/ Cup (1" Diameter)	5165204-NLA See Note(s) B	5165204-NLA See Note(s) B	5165204-NLA See Note(s) B	5165204-NLA See Note(s) B
8.	NLA - Coupling w/ Cup (1-5/16" Diameter)	50000X007-NLA See Note(s) C	50000X007-NLA See Note(s) C	50000X007-NLA See Note(s) C	50000X007-NLA See Note(s) C
9.	Screw (1/4-20 x 1-1/8")	1043594	1043594	1043594	1043594
10.	Lockwasher	10502X001-NLA	10502X001-NLA	10502X001-NLA	10502X001-NLA
11.	Plastic Tip	1006490	1006490	1006490	1006490
12.	Slotted Plate	1057972-NLA	1057972-NLA	1057972-NLA	1057972-NLA

NOTE: A - When replacing a motor only gearbox only or motor/gearbox assembly for Storm Torque chairs manufactured before 3/25/98, a pair of motor/gearbox assemblies should be ordered to match.
B - Coupling with Cup for chairs manufactured before 11/12/01 - Use part # 50000X007 as a direct replacement part.
C - 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
D - No Longer Available (NLA). Convert to a right and left 4-Pole Motor/Gearbox Assembly part #'s 1085951 & 1085952
E - No Longer Available (NLA). Convert to a right and left 4-Pole Motor/Gearbox Assembly part #'s 1086215 & 1086216

2-Pole Motor and Gearbox Storm Ranger X and H.S.M. Option

NOTE: After 9/14/98 Storm Ranger X changed from 2-pole to 4-pole motors.
NOTE: After 9/14/98 Storm Ranger X with (H.S.M.) was discontinued on-chair



2-Pole Motor and Gearbox

Storm Ranger X and H.S.M. Option

NOTE: After 9/14/98 Storm Ranger X changed from 2-pole to 4-pole motors.

NOTE: After 9/14/98 Storm Ranger X with (H.S.M.) was discontinued on-chair

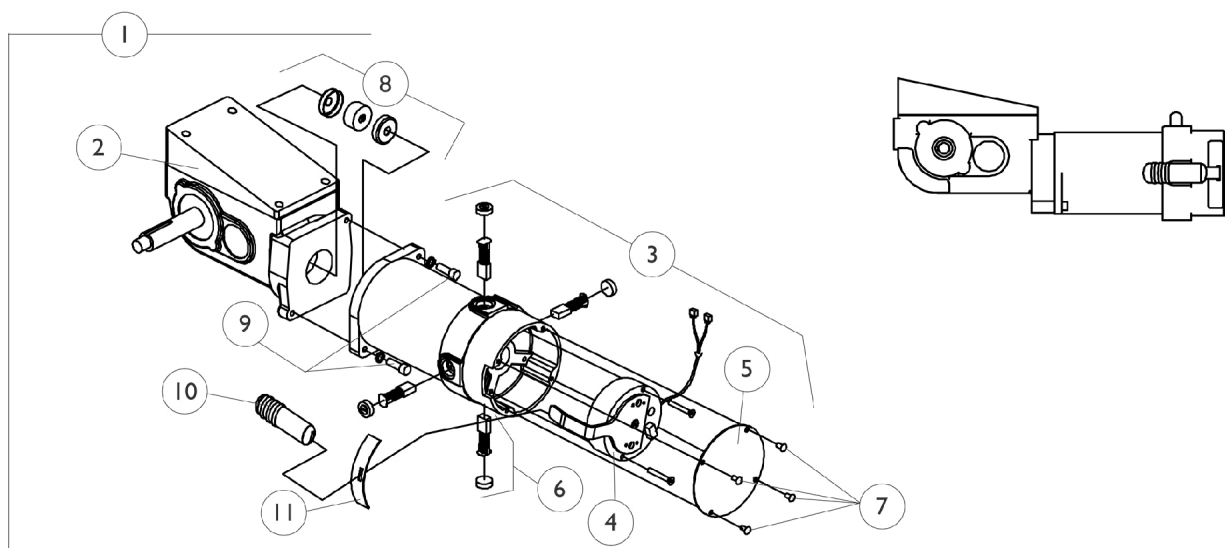
2-Pole Motor and Gearbox

Item Number	Description	Before 9/15/98 Storm Ranger X RWD-R MWD-L	Before 9/15/98 Storm Ranger X RWD-L MWD-R	Before 9/15/98 Storm Ranger X with H.S.M. Option RWD-R MWD-L	Before 9/15/98 Storm Ranger X with H.S.M. Option RWD-L MWD-R
1.	Motor/Gearbox	1070437-NLA	1070438-NLA	1070441-NLA See Note(s) C	1070442-NLA See Note(s) C
2.	Gear Box	1070460-NLA	1070461-NLA	1070460-NLA See Note(s) C	1070461-NLA See Note(s) C
3.	Motor Assembly	1070505-NLA	1070506-NLA	1070507-NLA See Note(s) C	1070508-NLA See Note(s) C
3.	WARR RPLMT - Motor Assembly	1070505E-NLA	1070506E-NLA	1070507E-NLA See Note(s) C	1070508E-NLA See Note(s) C
4.	Brake Repair Kit	1064112-NLA	1064111-NLA	1064112-NLA	1064111-NLA
5.	Brake Cover with Screws	1064113-NLA	1064114-NLA	1064113-NLA	1064114-NLA
6.	Brushes with Caps (Pair)	1064336-NLA	1064336-NLA	1064336-NLA	1064336-NLA
7.	Screw (#4-40 x 1/4")	1050305-NLA	1050305-NLA	1050305-NLA	1050305-NLA
8.	NLA - Coupling w/ Cup (1" Diameter)	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A
8.	NLA - Coupling w/ Cup (1-5/16" Diameter)	50000X007-NLA See Note(s) B	50000X007-NLA See Note(s) B	50000X007-NLA See Note(s) B	50000X007-NLA See Note(s) B, A
9.	Screw (1/4-20 x 1-1/8")	1043594	1043594	1043594	1043594
10.	Lockwasher	10502X001-NLA	10502X001-NLA	10502X001-NLA	10502X001-NLA
11.	Plastic Tip	1006490	1006490	1006490	1006490
12.	Slotted Plate	1057972-NLA	1057972-NLA	1057972-NLA	1057972-NLA
NOTE: A - Coupling with Cup for chairs manufactured before 11/12/05 - Use part # 50000X007 as a direct replacement part. B - 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 C - No Longer Available (NLA). Convert to a right and left 4-Pole Motor/Gearbox Assembly part #'s 1085951 & 1085952					

4-Pole Motors and Gearboxes

Storm Arrow, Arrow H.D., ALL Torques and Ranger X

NOTE: The dates listed in the chart show that the 4-pole motor/gearbox assemblies were made available to Storm Series Models at different introductory dates.



4-Pole Motors and Gearboxes

Storm Arrow, Arrow H.D., ALL Torques and Ranger X

NOTE: The dates listed in the chart show that the 4-pole motor/gearbox assemblies were made available to Storm Series Models at different introductory dates.

Item Number	Description	After 8/31/98 Storm Arrow and Torque RWD-R MWD-L	After 8/31/98 Storm Arrow and Torque RWD-L MWD-R	After 10/22/98 Storm Arrow Heavy Duty and ALL Torque SP RWD-R MWD-L	After 10/22/98 Storm Arrow Heavy Duty and ALL Torque SP RWD-L MWD-R	After 9/14/98 Storm Ranger X RWD-R MWD-L	After 9/14/98 Storm Ranger X RWD-L MWD-R
1.	Motor Gearbox Before 7/11/01	1085951-NLA See Note(s) F	1085952-NLA See Note(s) F	1086215-NLA See Note(s) F	1086216-NLA See Note(s) F	1085951-NLA See Note(s) F	1085952-NLA See Note(s) F
1.	WARR RPLMT - Motor Gearbox Before 7/11/01	1085951E-NL A See Note(s) I	1085952E-NL A See Note(s) J	N/A	N/A	1085951E-NL A See Note(s) I	1085952E-NL A See Note(s) J
1.	Motor Gearbox After 7/10/01	1104823 See Note(s) D, F	1104824 See Note(s) F, D	1104825 See Note(s) F, D	1104826 See Note(s) F, D	1104823 See Note(s) D, F	1104824 See Note(s) D, F
2.	Gearbox	1086223 See Note(s) C	1086224-NLA See Note(s) C	1086225-NLA See Note(s) C	1086226-NLA See Note(s) C	1086223 See Note(s) C	1086224-NLA See Note(s) C
3.	Motor Assembly Before 7/11/01	1086581-NLA	1070291-NLA	1086581-NLA	1070291-NLA	1086581-NLA	1070291-NLA
3. See Note(s) D	Motor Assembly After 7/10/01	1104869-NLA See Note(s) E	1104870-NLA See Note(s) E	1104869-NLA See Note(s) E	1104870-NLA See Note(s) E	1104869-NLA See Note(s) E	1104870-NLA See Note(s) E
4.	Brake Repair Kit	1070294-NLA See Note(s) H	1070295-NLA See Note(s) H	1070294-NLA See Note(s) H	1070295-NLA See Note(s) H	1070294-NLA See Note(s) H	1070295-NLA See Note(s) H
5.	Brake Cover with Screws Before 7/11/01	1070297-NLA	1070297-NLA	1070297-NLA	1070297-NLA	1070297-NLA	1070297-NLA
5.	Brake Cover (black) with Screws After 7/10/01	1104402-NLA	1104402-NLA	1104402-NLA	1104402-NLA	1104402-NLA	1104402-NLA
6.	Brushes with Caps	1070296-NLA See Note(s) G	1070296-NLA See Note(s) G	1070296-NLA See Note(s) G	1070296-NLA See Note(s) G	1070296 See Note(s) G	1070296-NLA See Note(s) G

4-Pole Motors and Gearboxes

Storm Arrow, Arrow H.D., ALL Torques and Ranger X

NOTE: The dates listed in the chart show that the 4-pole motor/gearbox assemblies were made available to Storm Series Models at different introductory dates.

Item Number	Description	After 8/31/98 Storm Arrow and Torque RWD-R MWD-L	After 8/31/98 Storm Arrow and Torque RWD-L MWD-R	After 10/22/98 Storm Arrow Heavy Duty and ALL Torque SP RWD-R MWD-L	After 10/22/98 Storm Arrow Heavy Duty and ALL Torque SP RWD-L MWD-R	After 9/14/98 Storm Ranger X RWD-R MWD-L	After 9/14/98 Storm Ranger X RWD-L MWD-R
7.	Screw (#8-32 x 1/4")	See Item 5	See Item 5	See Item 5	See Item 5	See Item 5	See Item 5
8.	NLA - Coupling w/ Cup (1" Diameter)	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A	5165204-NLA See Note(s) A
8.	NLA - Coupling w/ Cup (1-5/16" Diameter)	50000X007-N LA See Note(s) B	50000X007-N LA See Note(s) B	50000X007-N LA See Note(s) B	50000X007-N LA See Note(s) B	50000X007-N LA See Note(s) B	50000X007-N LA See Note(s) B
9.	Screw, SHC (1/4-20 x 1-1/8")	1043594 See Note(s) C	1043594 See Note(s) C	1043594 See Note(s) C	1043594 See Note(s) C	1043594 See Note(s) C	1043594 See Note(s) C
9.	Screw, SHC (M6 x 1 x 20MM)	1108978 See Note(s) C	1108978 See Note(s) C	1108978 See Note(s) C	1108978 See Note(s) C	1108978 See Note(s) C	1108978 See Note(s) C
10.	Plastic Tip Before 7/11/01	1082984-NLA	1082984-NLA	1082984-NLA	1082984-NLA	1082984-NLA	1082984-NLA
10.	Plastic Tip After 7/10/01	1101725	1101725	1101725	1101725	1101725	1101725
11.	Slotted Plate	1082985-NLA	1082985-NLA	1082985-NLA	1082985-NLA	1082985-NLA	1082985-NLA

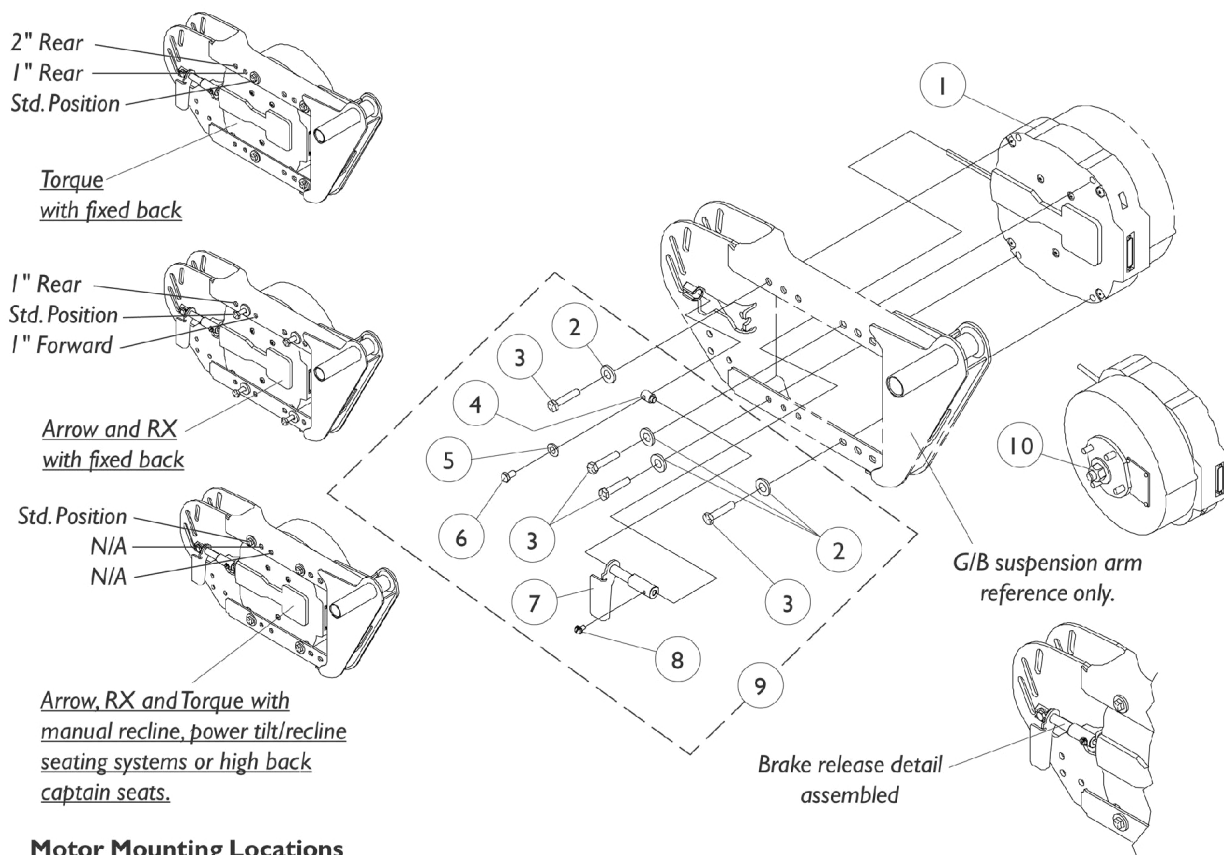
NOTE:

- A - Coupling with Cup for chairs manufactured before 11/12/01 - Use part # 50000X007 as a direct replacement part.
- B - 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
- C - When a new gearbox or mounting screws are ordered, (2 ea.) metric and (2 ea.) non-metric screws (item 9) must be ordered. Invacare Corp. utilizes alternate suppliers for this part number.
- D - As of 4/27/07 the 2nd and 3rd Generation Storm Series models will share this same Motor/Gearbox Assembly service part number. For 2nd Generation Storm Series, disregard the 3200 RPM and Drive/Push Decals packaged in box.
- E - 2nd and 3rd Generation Storm Series models share the same Motor Assembly service part number. For 2nd Generation Storm Series, disregard the 3200 RPM and Drive/Push Decals packaged in box.
- F - As of May 2008, the Metal Motor End Cap will be replaced with a Composite Motor End Cap. The change does not affect form, fit, function or aesthetics.
- G - Kit includes (4) Brushes, (4) Brush Caps and Instruction Sheet.
- H - Use existing screws when installing the Brake Repair Kit. The Motor Brake Mounting Screws are not saleable.
- I - Part is no longer available as a service part. See part number 1085951 as a replacement.
- J - Part is no longer available as a service part. See part number 1085952 as a replacement.

Motor GB and Attaching Hardware

Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



Motor Mounting Locations

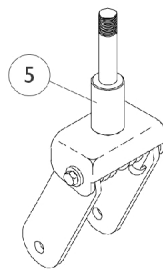
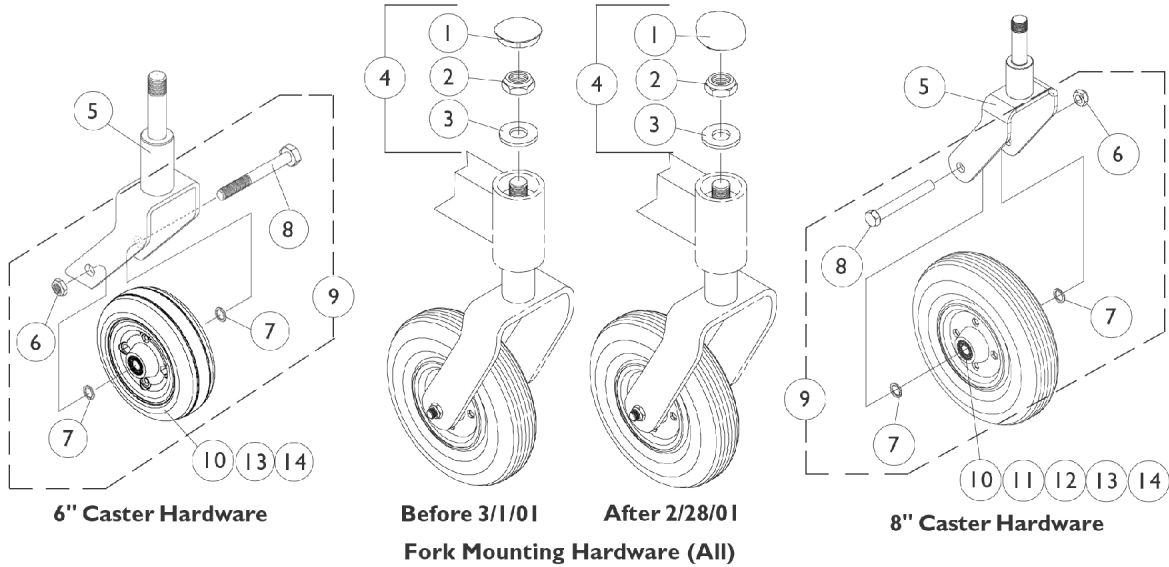
Motor GB and Attaching Hardware Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

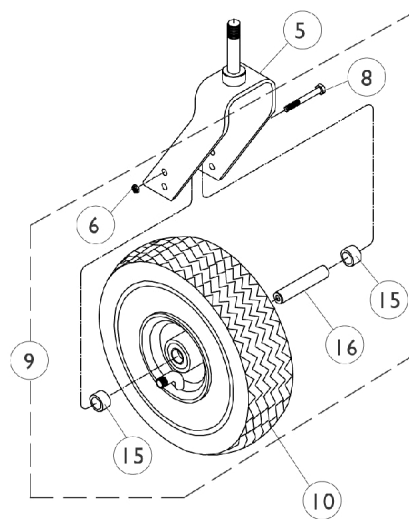
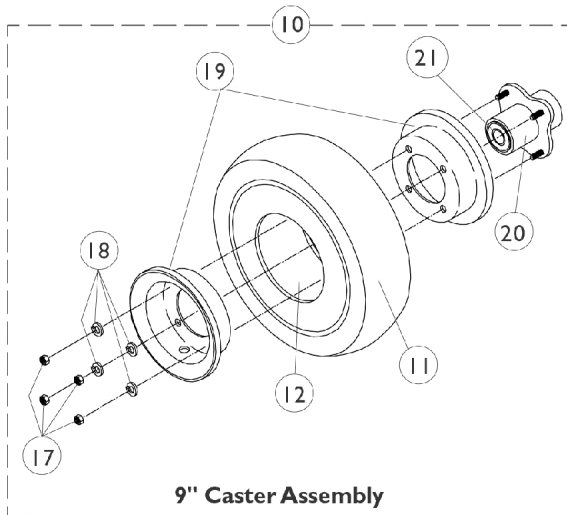
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	See Note	See Footnote	1	1
1	D	See Note	See Footnote	1	1
2		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	4
3		1085633-NLA	NLA - Screw, Hex Head w/ Patch (M8 x 1.25 x 45mm)	1	4
4		1078213-NLA	NLA - Pin, Alignment, Black	1	1
5		1018739	Washer (1/4 x 5/8 x 3/32")	1	1
6		1078214	Screw, Hex Head w/ Patch (1/4-20 x 1/2")	1	1
7		1079242-NLA	NLA - Handle, Brake Release, Black (G/B) - Right	1	1
7		1079243-NLA	NLA - Handle, Brake Release, Black (G/B) - Left	1	1
8		1078228-NLA	NLA - Screw, Slotted Hex Head w/ Patch (#10-32 x 5/16")	1	1
9	A	1079264-NLA	NLA - Hardware, Motor Attaching (G/B) - Right	1	1
9	A	1079265-NLA	NLA - Hardware, Motor Attaching (G/B) - Left	1	1
10	B	1112955-NLA	NLA - Kit, Repair, GB Motor, Anti-Rattle with Instruction Sheet	2	1
	C	1112828	Instruction Sheet, GB Motor Anti-Rattle Repair Kit	1	1
	C	1110531	Instruction Sheet, GB Motor Replacement For 3G Storm	1	1

NOTE: A - Includes items 2-8
B - Service Kit for two motors include 2 each hex head nuts, washers, hub keys and O-rings. Individual components are not available.
C - Not shown
D - Part is no longer available as a service part.

6", 8", and 9" Caster Assemblies



6" and 8" Caster Shock Fork



6", 8", and 9" Caster Assemblies

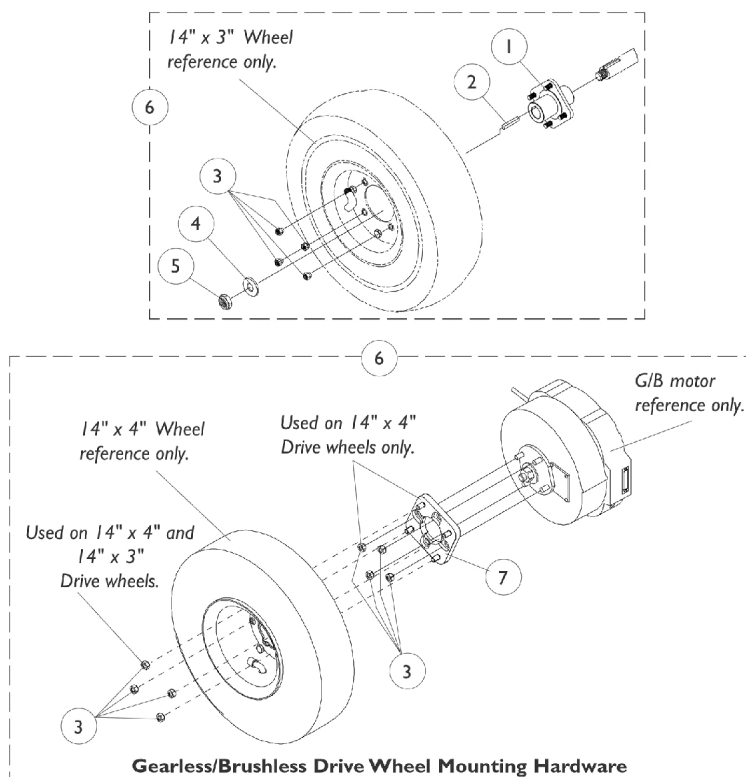
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	C	1027600-NLA	NLA - Cap, Black	1	1
1	D	1101737	Cap, End, Tube, Black	1	1
2		1028550	Locknut (5/8-18)	1	1
3		1041444	Washer, Nylon (5/8 x 1-5/16 x 1/8")	1	1
4	C,E	1050173-NLA	NLA - Hardware, Caster Fork Mounting	1	1
4	D,E	1104451	Hardware, Caster Fork Mounting	1	1
5	A,I	8881041458	Fork and Stem Assembly (6" Caster)	1	1
5	A,I	8881056379	Fork, Shock, Color (6")	1	1
5	A,I	8881039740-NLA	NLA - Fork and Stem Assembly (8" Caster)	1	1
5	A,J	8881056370-NLA	NLA - Fork, Shock, Color (8")	1	1
5	A,J	8881039754-NLA	NLA - Fork and Stem Assembly (9" and 10" Caster)	1	1
6	K	7930331-NLA	NLA - Locknut (7/16-20")	25	1
6	L	7930330-NLA	NLA - Locknut (5/16-24)	25	1
7		7930329	Washer, Steel (15/32 x 5/8 x 3/64")	25	2
8	K	1025726	Screw, Hex Head (7/16-20 x 3-1/4")	1	1
8	K,M	1058744-NLA	NLA - Screw, Hex Head (7/16-20 x 3-1/2")	1	1
8	L	1027730-NLA	NLA - Screw, Hex Head (5/16-24 x 5")	1	1
9	F,K	1042489	Hardware, Caster Axle	1	2
9	F,K	1058890-NLA	NLA - Hardware, Caster, Shock Fork (Pair)	2	1
9	G,L	1039757	Hardware, 9" Caster, Standard Fork (Per Side)	1	1
10	N	1072014-NLA	NLA - Wheel Assembly, Semi-Pneumatic, Urethane (6" x 2")	1	1
10	O	1115179	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2")	1	1
10	O	1122066	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2") (Pair)	2	1
10		1002002	Wheel Assembly w/ Bearings, Pneumatic (8" x 2")	1	1
10		1070811	Wheel Assembly, Semi-Pneumatic, Urethane, Light Grey (8" x 1-3/4")	1	1
10		1041498-NLA	NLA - Wheel Assembly, Pneumatic (9" x 2-3/4")	1	1
10	B	1029871-NLA	NLA - Wheel Assembly, Foam Filled (9 x 2-3/4")	1	1
11		40176X034	Tire, Pneumatic (8" x 2")	1	1
11		1027418-NLA	NLA - Tire, Pneumatic, Grey (9 x 2-3/4")	1	1
11	B	1028896-NLA	NLA - Tire w/ Foam Fill Insert, Grey (9" x 2-3/4")	1	1
12		1034942	Tube, Pneumatic Inner (8 x 2")	1	1
12		1027417	Tube, Pneumatic Inner (9 x 2-3/4")	1	1
13		1006049	Bearing (7/16")	1	2
14		1020592	Spacer, Bearing (7/16 x 5/8 x 1-3/4")	1	1
17		1024426-NLA	NLA - Nut, Hex (5/16-24)	1	4
18		1024442-NLA	NLA - Washer, Lock (5/16 x 9/16 x 1/16")	1	4
19	H	1013460-NLA	NLA - Kit, Rim, Outer/Inner Half w/ Hardware (10")	1	1
19	H	1025399-NLA	NLA - Kit, Rim, Outer/Inner Half w/ Hardware (9")	1	1
20		1013466	Hub with Bearings Assembly	1	1

6", 8", and 9" Caster Assemblies

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
21		1015610	Bearing with Grip Ring (5/8")	1	2
NOTE: A - Specify frame color when ordering. B - Tire comes with insert molded inside. C - Before 3/1/01 D - After 2/28/01 E - Includes items 1-3 F - Includes items 6-8 to accommodate 1 side only. G - Includes items 6, 8, 15, and 16. Hardware sold complete. H - Includes items 17-18 I - 300 LB Weight Limit and under J - 400 LB Weight Limit and under K - 6 and 8" Casters L - 9" Casters M - Shock Fork N - Service part No Longer Available 8/15/03. Due to product improvement, order (pair) part number 1122066 dated after 8/14/03 so each side matches. The deep profile caster has 2 tread grooves w/ round corners instead of 4 tread grooves w/ square corners. O - Service part after 8/14/03					

Hub Mounts For Non-Free Wheel Hub

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



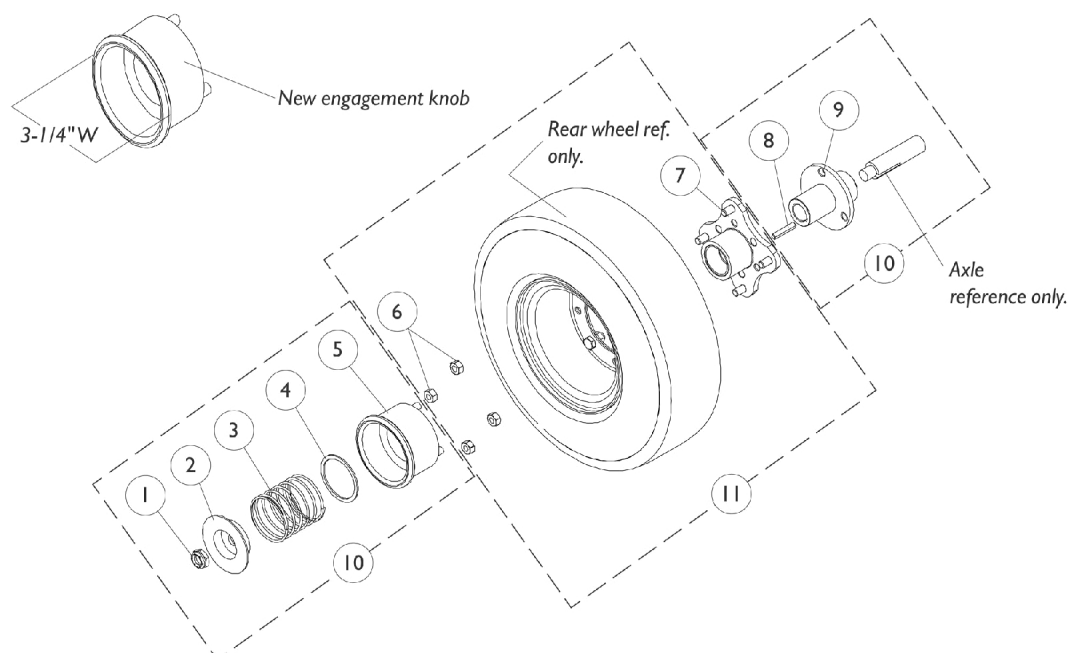
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	E	1070417-NLA	NLA - Wheel Hub (14 x 3" Wheel)	1	1
1		1063339-NLA	NLA - Hub, Wheel (14" x 4")	1	1
2		1000180	Key (3/16 x 1-1/4")	1	1
3		1024444	Locknut (5/16-24)	1	4
4	A	1036933	Washer (1/2 x 1-9/32 x 1/8")	1	1
5		7930302	Locknut (1/2-20)	25	1
6	B,E	1070435-NLA	NLA - Hardware, Wheel Hub	1	1
6	C	1079257-NLA	NLA - Hardware, Wheel Hub (3" Tire)	1	1
6	B	1064355-NLA	Kit, Drive Wheel Mounting Hardware (14" x 4")	1	1
6	D	1079258-NLA	NLA - Hardware, Drive Wheel Mounting (14" x 4")	1	1
7		1078242-NLA	NLA - Plate, Adapter with Studs	1	1

NOTE: A - Gearless/Brushless 14 x 4" wheels use a quantity of 8 beveled hex nuts.
 B - Includes items 1-5
 C - Includes item 3
 D - Includes items 3 and 7
 E - Wheel hub is No longer available. See page titled "Wheels, Free Wheel Hub Kits (Available as of 4/23/99)" and order part number 1079640.

Free Wheel Hub Mounts

(Available On-Chair as of 4/23/99)

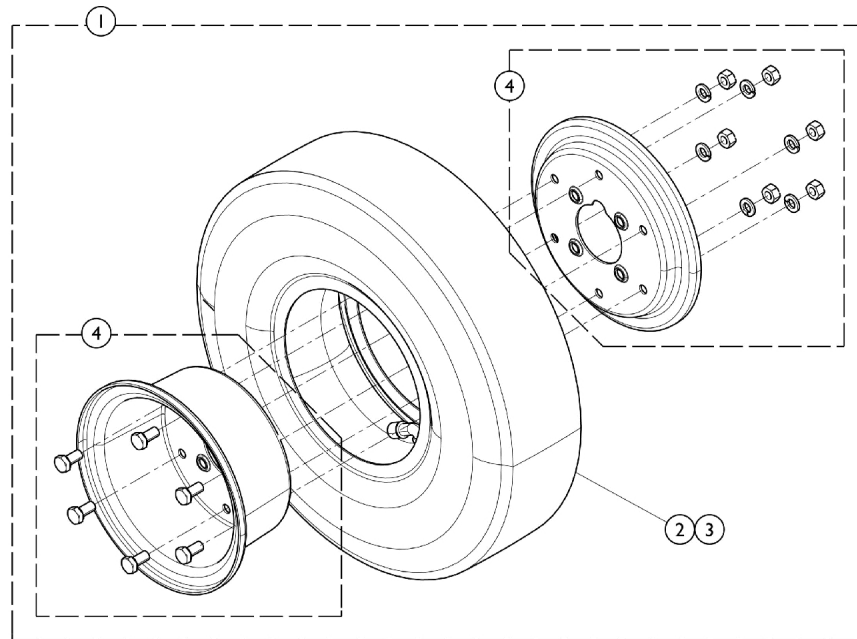
NOTE: To change a non-free wheel hub to a free wheeling hub, see section titled "Wheels, Drive Wheel Hub Mount, Free-Wheeling Hub KITS (as of 4/23/99)".



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930302	Locknut (1/2-20)	25	1
2		1078090	Cup, Washer	1	1
3		1079002-NLA	NLA - Spring, Compression (2-3/32 x 2-1/4 x 3/32")	1	1
4		1079001-NLA	NLA - Washer, Flat (1-13/16 x 2-1/8 x 1/16")	1	1
5		1077022	Knob, Engagement, Black	1	1
6		1024426-NLA	NLA - Nut, Hex (5/16-24)	1	4
7		1077023	Hub Assembly	1	1
8		1000180	Key (3/16 x 1-1/4")	1	1
9		1077021	Sleeve, Axle	1	1
10		1079004	Free Wheel Hub Assembly	1	1
11		1081358	Drive Wheel Assembly, Pneumatic w/ Hub, Grey Tire/Black Rim (14 x 3")	1	1
11		1081359	Drive Wheel Assembly, Flat Free w/ Hub, Grey Tire/Black Rim (14 x 3")	1	1
11		1081362-NLA	NLA - Drive Wheel Assembly, Pneumatic w/ Hub, Grey Tire/Black Rim (14 x 4")	1	1
11		1081363	Drive Wheel Assembly, Flat Free w/ Hub, Grey Tire/Black Rim (14 x 4")	1	1

Wheels - Drive Wheels for Non-Free Wheel Hubs

Gearless/Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque on 11/2/98. On 7/1/99, Gearless/Brushless motors became standard for Storm Arrow only.



Item #s 1, 2, and 3

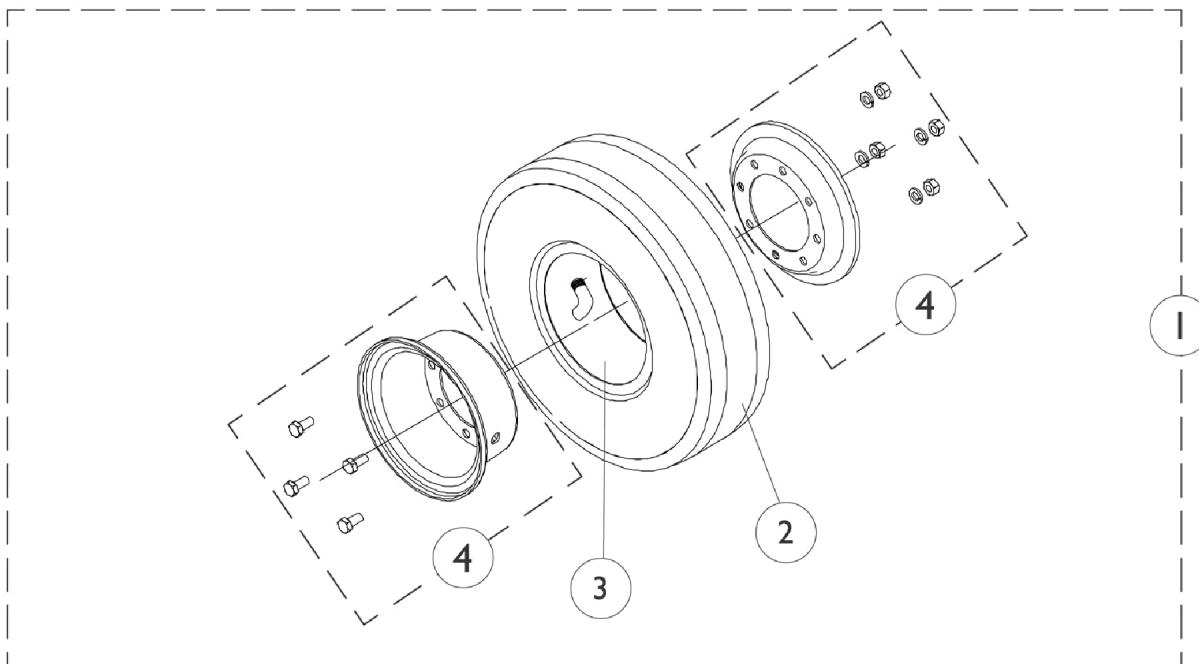
Wheel Size	Item #1 Complete Wheel	Item #1 Complete Wheel w/ Flat Free	Item #2 Tire	Item #2 Tire w/ Flat Free	Item #3 Tube
14 x 4" 4 Pole Motors	1042476	1042477	1042474	1042478	1042475
14 x 4" GB Motors	1079305-NLA	1079304	1042474	1042478	1042475
See Note(s) A					
14 x 3" 4 Pole and GB Motors	1039653	1041449-NLA	1039652	1101754	1039651
NOTE: A - For drive wheel rims and attaching hardware for the Gearless/Brushless 14 x 4" Wheel, see "Drive Wheels and Attaching Hardware for Free Wheel Hub Mounts".					

Wheels - Drive Wheels for Non-Free Wheel Hubs

Gearless/Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque on 11/2/98. On 7/1/99, Gearless/Brushless motors became standard for Storm Arrow only.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	#s 1, 2, and 3 Drive Wheels for Non-Free Wheel Hubs	1	1
4		1042453-NLA	NLA - Kit, 6" Rim w/ Hardware (14" x 4" Wheel)	1	1
4		1090651-NLA	NLA - Kit, 8" Rim w/ Hardware (14" x 3" Wheel)	1	1
	A	1008030-NLA	NLA - Screw, Hex Head (3/8-16 x 3/4")	1	6
	A	1005519	NLA - Lockwasher (3/8 x 11/16 x 3/32")	1	6
	A	18058X000-NLA	NLA - Nut, Hex (3/8-16)	1	6
	B	1024443-NLA	NLA - Screw, Hex Head (5/16-24 x 5/8")	1	6
	B	1024442-NLA	NLA - Washer, Lock (5/16 x 9/16 x 1/16")	1	6
	B	1024426-NLA	NLA - Nut, Hex (5/16-24)	1	6
	C,D	7930326-NLA	NLA - Package, Screw, Hex Head (1/4-20 x 3/4")	25	8
	C,D	7930333	Locknut (1/4-20)	25	8
	D	40176X010-NLA	NLA - Pump, Tire	1	1
NOTE: A - Included with Part Number 1042453 before 3/4/98. B - Included with Part Number 1042453 after 3/3/98. C - Included with Part Number 1090651. D - Not Shown.					

Drive Wheel and Attaching Hardware For Free Wheel Hub (Available ON-CHAIR as of 4/23/99)



Item # 1, 2, and 3

Wheel Size	Item #1 Wheel Complete	Item #1 Wheel Complete with Flat Free	Item #2 Tire	Item #2 Tire with Flat Free	Item #3 Tube
14 x 4"	1079305-NLA See Note(s) A	1079304 See Note(s) A	1042474 See Note(s) A	1042478 See Note(s) A	1042475 See Note(s) A
14 x 3"	1079298	1079301	1039652	1101754	1039651
NOTE: A - This 14 x 4" drive wheel is also used on the Gearless/Brushless non-free wheel hub mount adapter plate.					

Drive Wheel and Attaching Hardware For Free Wheel Hub (Available ON-CHAIR as of 4/23/99)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	# 1, 2, and 3 Drive Wheel and Attaching Hardware for Free Wheel Hub Mounts	1	1
4		1078246-NLA	NLA - Kit, 6" Rim w/ Hardware (14" x 4" Wheel)	1	1
4		1104889	Rim, 8" w/ Hardware (14 x 3" Wheel)	1	1
	A,B	1024443-NLA	NLA - Screw, Hex Head (5/16-24 x 5/8")	1	4
	A,B	1024442-NLA	NLA - Washer, Lock (5/16 x 9/16 x 1/16")	1	4
	A,B	1024426-NLA	NLA - Nut, Hex (5/16-24)	1	4
	A,C	7930326-NLA	NLA - Package, Screw, Hex Head (1/4-20 x 3/4")	25	8
	A,C	7930333	Locknut (1/4-20)	25	8
	A	40176X010-NLA	NLA - Pump, Tire	1	1
NOTE: A - Not Shown B - Included in rim with hardware part number 1078246 C - Included in rim with hardware part number 1104889					

Free Wheel Hub Kits

NOTE: Use kit numbers below to change Non-Free Wheel Hubs to Free Wheeling Hubs.

NOTE: All free wheel hub kits include the free wheel hub assembly, instruction sheet and wheel assembly with hub.

Free Wheel Hub Kit For (14" x 3" Wheel, Pneumatic)

Part Number	Description	Quantity
1079640-NLA	Free Wheel Hub Kit (14" x 3" Wheel, Pneumatic)	1
1079004	Free Wheel Hub Assembly	2
1079295-NLA	Instruction Sheet	1
1081358	Wheel Assembly w/ Hub, (14" x 3" Pneumatic)	2

Free Wheel Hub Kit For (14" x 3" Wheel w/ Flat Free)

Part Number	Description	Quantity
1079641-NLA	Free Wheel Hub Kit (14" x 3" Wheel w/ Flat Free)	1
1079004	Free Wheel Hub Assembly	2
1079295-NLA	Instruction Sheet	1
1081359	Wheel Assembly w/ Hub, (14" x 3" w/ Flat Free)	2

Free Wheel Hub Kit For (14" x 4" Wheel, Pneumatic)

Part Number	Description	Quantity
1079644-NLA	Free Wheel Hub Kit (14" x 4" Wheel, Pneumatic)	1
1079004	Free Wheel Hub Assembly	2
1079295-NLA	Instruction Sheet	1
1081362-NLA	Wheel Assembly w/ Hub, (14" x 4" Pneumatic)	2

Free Wheel Hub Kits

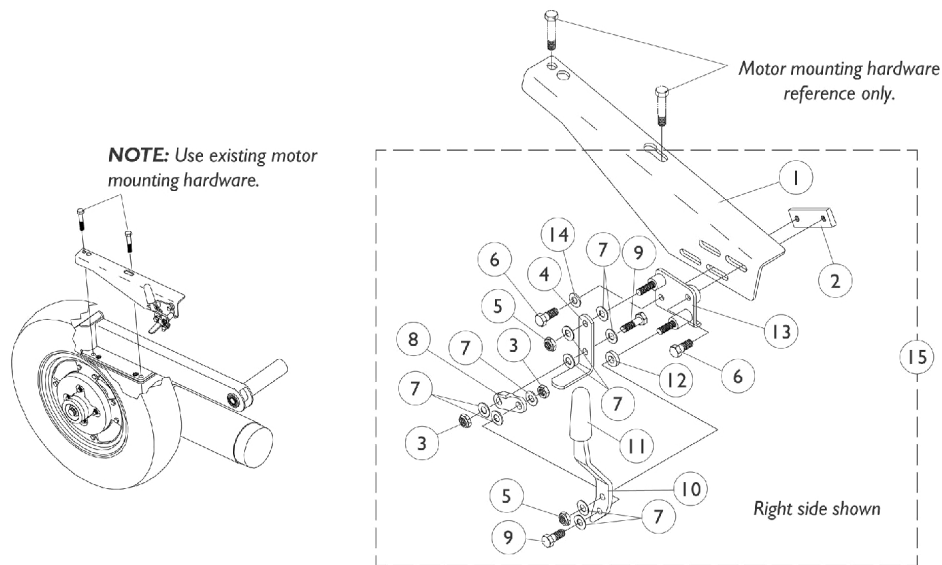
NOTE: Use kit numbers below to change Non-Free Wheel Hubs to Free Wheeling Hubs.

NOTE: All free wheel hub kits include the free wheel hub assembly, instruction sheet and wheel assembly with hub.

Free Wheel Hub Kit For (14" x 4" Wheel w/ Flat Free)

Part Number	Description	Quantity
1079645-NLA	Free Wheel Hub Kit (14" x 4" Wheel, w/ Flat Free)	1
1079004	Free Wheel Hub Assembly	2
1079295-NLA	Instruction Sheet	1
1081363	Wheel Assembly w/ Hub, (14" x 4" w/ Flat Free)	2

Wheel Lock



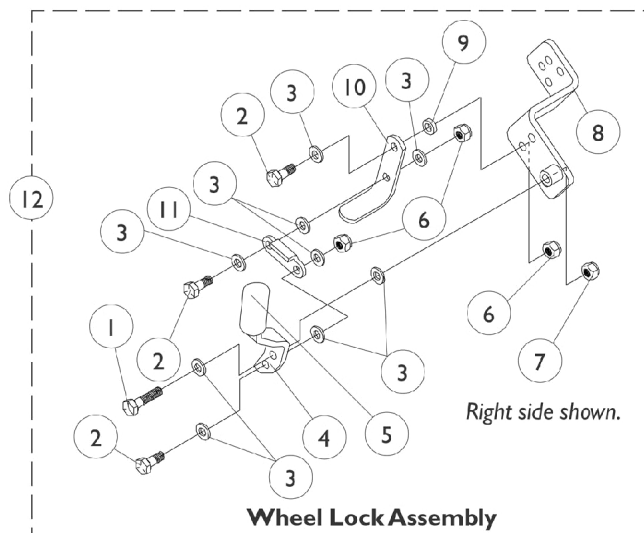
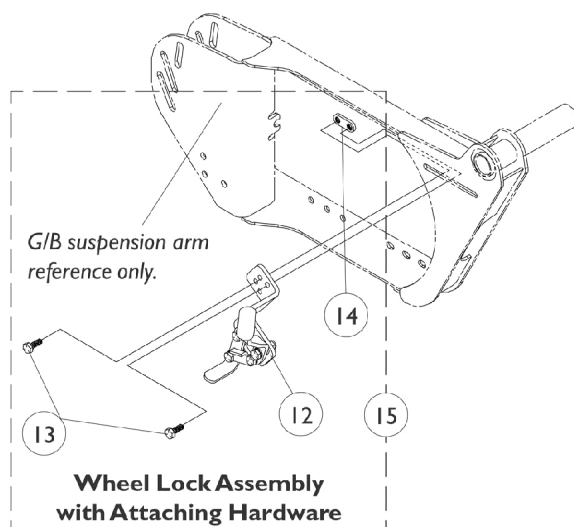
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1054510-NLA	NLA - Bracket, Wheel Lock Mount, Black - Right	1	1
1		1054512-NLA	NLA - Bracket, Wheel Lock Mount, Black - Left	1	1
2		1054508-NLA	NLA - Link, Inside, Black	1	1
3		7930334-NLA	NLA - Locknut (1/4-28)	25	2
4		1031833-NLA	NLA - Shoe, Wheel Lock	1	1
5		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	2
6		7930326-NLA	NLA - Package, Screw, Hex Head (1/4-20 x 3/4")	25	2
7		1026033	Washer, Nylon (1/4 x 1/2 x 1/16")	1	9
8		1018733-NLA	NLA - Link, Stop, Black	1	1
9		1028687	Screw, Hex Head (1/4-28 x 3/4")	1	2
10		1021408-NLA	NLA - Handle, Wheel Lock, Black - Right	1	1
10		1021409-NLA	NLA - Handle, Wheel Lock, Black - Left	1	1
11		47376X024	Tip, Rubber Wheel Lock Handle, Black	1	1
12		1026105-NLA	NLA - Spacer, Nylon (1/4 x 7/16 x 1/8")	1	1
13		1054513-NLA	NLA - Plate, Wheel Lock Base, Black - Right	1	1
13		1054514-NLA	NLA - Plate, Wheel Lock Base, Black - Left	1	1
14		1026907	Washer (1/4 x 1/2 x 1/16")	1	1
15	A	1054515-NLA	NLA - Wheel Lock Assembly, Right	1	1
15	A	1054516-NLA	NLA - Wheel Lock Assembly, Left	1	1
	B	1063339-NLA	NLA - Hub, Wheel (14" x 4")	1	1

NOTE: A - When ordering wheel locks for chairs made between 10/10/97 through 1/28/98 that have 14 x 4" drive wheels, two wheel lock hubs part number 1063339 need to be ordered as well.
B - Not Shown

Wheel Lock Assembly

Gearless/Brushless

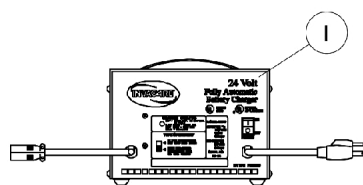
NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



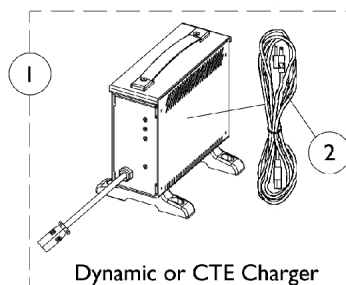
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1021406	Screw, Hex Head (1/4-20 x 1-1/4")	1	1
2		1028687	Screw, Hex Head (1/4-28 x 3/4")	1	3
3		1026033	Washer, Nylon (1/4 x 1/2 x 1/16")	1	9
4		1021408-NLA	NLA - Handle, Wheel Lock, Black - Right	1	1
4		1021409-NLA	NLA - Handle, Wheel Lock, Black - Left	1	1
5		47376X024	Tip, Rubber Wheel Lock Handle, Black	1	1
6		7930334-NLA	NLA - Locknut (1/4-28)	25	3
7		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
8		1078222-NLA	NLA - Bracket, Wheel Lock, Black - Right	1	1
8		1078223	Bracket, Wheel Lock, Black - Left	1	1
9		1026105-NLA	NLA - Spacer, Nylon (1/4 x 7/16 x 1/8")	1	1
10		1031833-NLA	NLA - Shoe, Wheel Lock	1	1
11		1018733-NLA	NLA - Link, Stop, Black	1	1
12	B	1079266-NLA	NLA - Wheel Lock Assembly, GB - Right	1	1
12	B	1079267-NLA	NLA - Wheel Lock Assembly, GB - Left	1	1
13		1045267	Screw, Hex Head w/ Patch (1/4-20 x 3/4")	1	2
14		1078199-NLA	NLA - Nut	1	1
15	A	1079252-NLA	NLA - Wheel Lock Assembly w/ Mounting Hardware - Right	1	1
15	A	1079253-NLA	NLA - Wheel Lock Assembly w/ Mounting Hardware - Left	1	1

NOTE: A - Includes items 12-14.
B - Includes items 1-11.

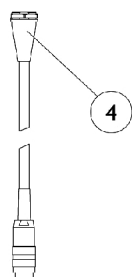
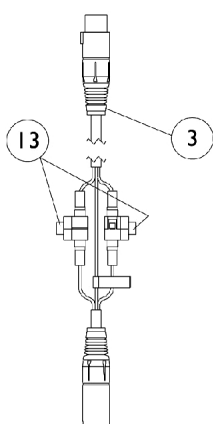
Battery Charger and Harnesses



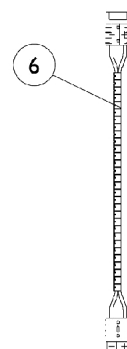
Lester Battery Charger



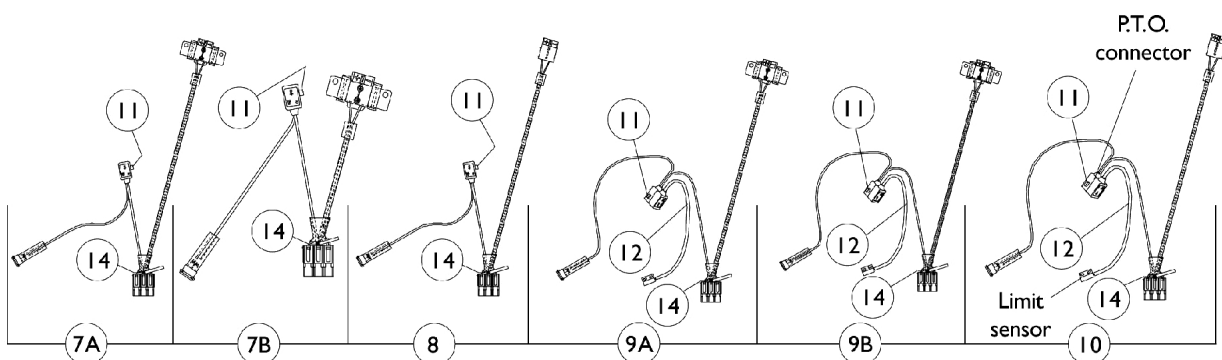
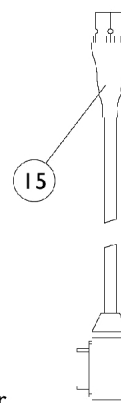
Dynamic or CTE Charger



GP 24 battery harness for
RII 80 AMP. controller.
Available service part
11/1/01



22NF battery harness for
RII 80 AMP. controller.
Available service part
11/1/01



Battery Charger and Harnesses

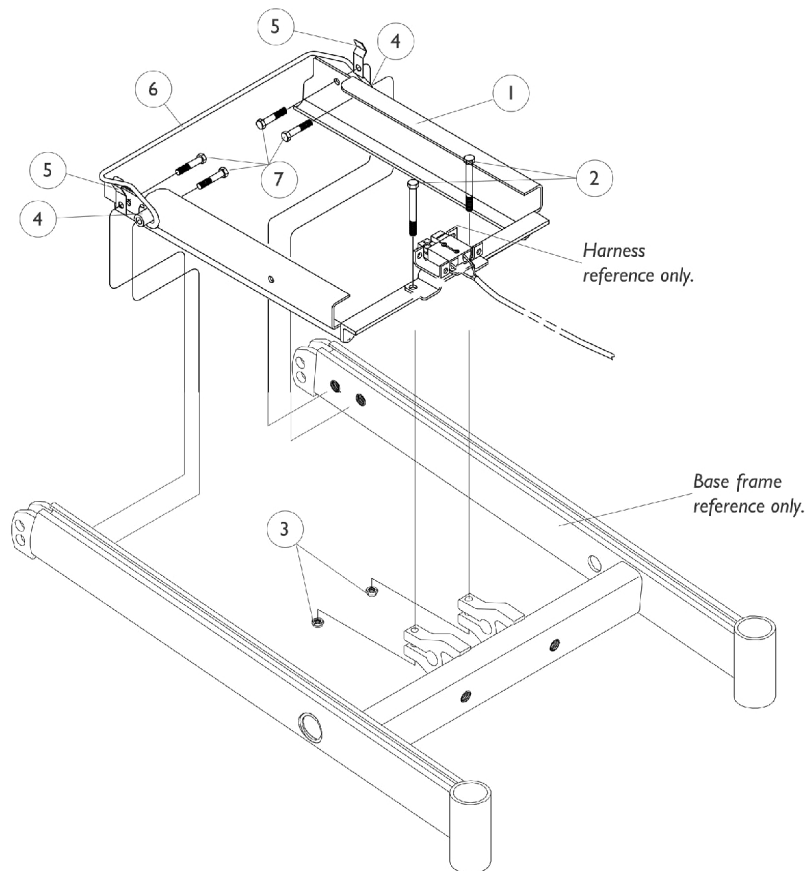
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,P	1053161-NLA	NLA - Charger, Battery, 8 Amp, 115vac, Off Board Dual Mode Round Plug, Lester	1	1
	E	1053162-NLA	NLA - Charger, Battery, 12 Amp, 115vac, Off Board, Dual Mode, Round Plug, Lester	1	1
1		1085678-NLA	NLA - Charger, Battery, 8 Amp. 115vac, Off Board, Dual Mode, Round Plug w/ AC Power Line Cord, Dynamic	1	1
1	N,N1	1123249	Charger, Battery, 8 Amp. 115vac (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
1	N,N1	1123249E-NLA	NLA - WARR RPLMT - Charger, Battery, 8 Amp, 115VAC (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
2	O	1089627-NLA	NLA - Cord, AC Power, 115VAC, 2 Prong Off-Board (11' 6" L)	1	1
2		1121086	Cord, AC Power, 115VAC, 3 Prong On-Board (6' 6-1/2" L)	1	1
3		1083929-NLA	NLA - Cable, Charger Extension, Round Plug (24" L)	1	1
4	B	1092912-NLA	NLA - Programmer Extension Cable Assembly (18" Long)	1	1
5	D	1109509-NLA	NLA - Harness, Battery (GP24)	1	1
6	D	1107296-NLA	NLA - Harness, Battery (22NF)	1	1
7A	F,H	1095263-NLA	NLA - Harness, Wiring, Round Plug, GP24 Dual Battery Box	1	1
7B	G,H	1092314	Harness, Wiring, Black Battery Connector, Round Plug, GP24 Dual Battery Box	1	1
8	J	1092306-NLA	NLA - Harness, Wiring, Round Plug, 22NF Single Battery Box	1	1
9A	F,I	1095264-NLA	NLA - Harness, Wiring, Round Plug, GP24 Dual Battery Box	1	1
9B	G,I	1095265-NLA	NLA - Harness, Wiring, Round Plug, GP24 Dual Battery Box	1	1
10	K	1095266-NLA	NLA - Harness, Wiring, Round Plug, 22NF Single Battery Box	1	1
11		1090117-NLA	NLA - Fuse - Buss Mini ATM-15 (15 AMP)	1	1
12	C	1092913-NLA	NLA - Cable, Drive Lockout Sensor	1	1
13	L	1098892-NLA	NLA - Fuse - Buss ATC-15 (15 AMP)	1	1
13	M	1090117-NLA	NLA - Fuse - Buss Mini ATM-15 (15 AMP)	1	2
14	L	1101099-NLA	NLA - Fuse, Buss ATC-20 (20 AMP)	1	1
14	M	1119230-NLA	NLA - Fuse - Buss Mini ATM-20 (20 AMP)	1	1
15		1098905-NLA	NLA - Cable Assembly, 24 Volt, Anderson/P.T.O.	1	1
	E	1095502-NLA	NLA - Package, Tie Wrap (11-1/2" L)	10	8

Battery Charger and Harnesses

NOTE: A - On 7/18/01 the Lester 8 amp. battery charger was reinstated.
B - Used only when a 2nd Generation Seating System is ordered.
C - used for manual recliners and high back captain seats.
D - Battery harness used with the MKIV RII 80 AMP. controller for Torque and Torque SP models. Available service part as of 11/1/01.
E - Not Shown.
F - Before 9/24/99
G - After 9/23/99
H - For A.S.B.A. Non-Recliner, All Powered Seating Systems and H.B. Semi Recline Captain Seats - GP24 Dual Battery Boxes
I - For A.S.B.A. Manual Recliner and H.B. Full Recline Captain Seats - GP24 Dual Battery Boxes
J - For A.S.B.A. Non-Recliner, All Powered Seating Systems and H.B. Semi Recline Captain Seats - 22NF Single Battery Box
K - For A.S.B.A. Manual Recliner and H.B. Full Recline Captain Seats - 22NF Single Battery Box
L - Before 4/1/03
M - After 3/31/03
N - CTE charger introduced 4/1/04. Used on Gel Cell or AGM (Absorbed Glass Mat) batteries. For wet cell batteries refer to the Lester charger.
N1 - CTE charger looks exactly the same as Dynamic's charger except for the company name that is silk screened on the narrow side panel, where the charger plug is (hard wired) attached. Serial number starts with 04A00000001.
O - No longer available as a service part. Please use 1121086 as its replacement.
P - Use Battery Charger part number 1123249 as a replacement.

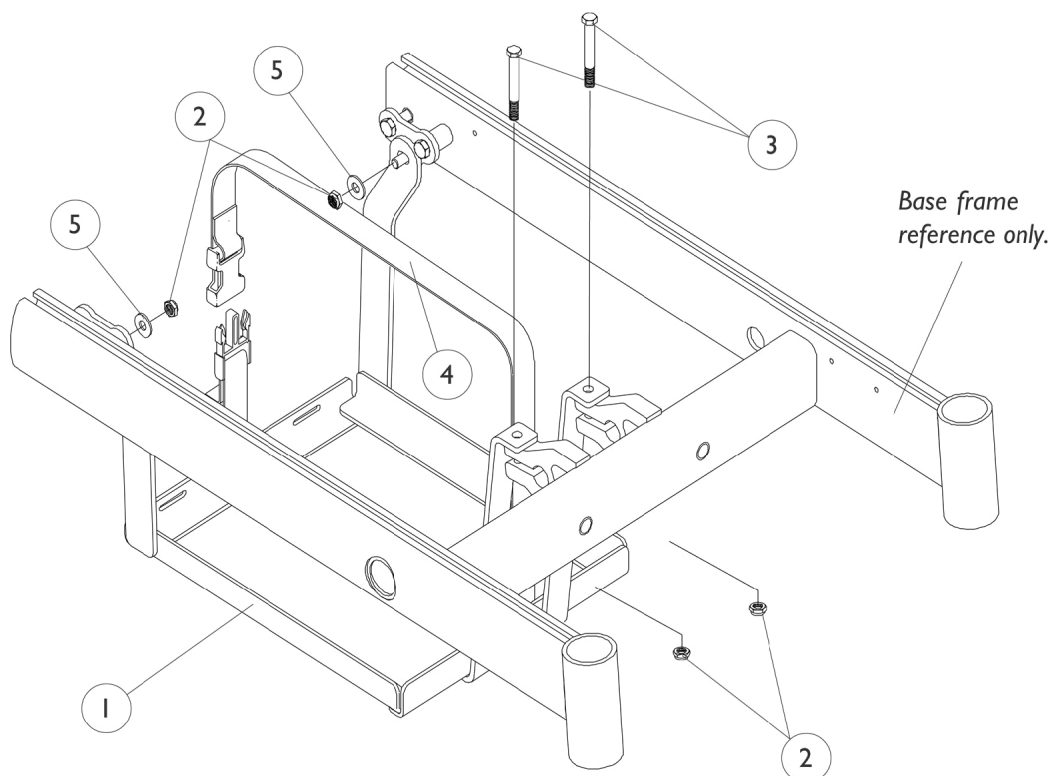
NOTE: A fused power take off (P.T.O.) connector was added to all harnesses 3/21/00.

Battery Box Support Frame for Group 24 Batteries



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1039715-NLA	NLA - Frame, Battery Box Support, Black	1	1
1	B	1086974	Frame, Battery Box Support, Black	1	1
2		1042484-NLA	NLA - Screw, Hex Head (5/16-18 x 2")	1	2
3		1026158	Locknut (5/16-18)	1	2
4		1039649-NLA	NLA - Spacer (3/8 x 5/8 x 25/32")	1	2
5		1049550-NLA	NLA - Clip, Retainer	1	2
6		1049549-NLA	NLA - Retainer Bar, Battery Box	1	1
7		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	4
NOTE: A - Before 9/24/99 B - After 9/23/99					

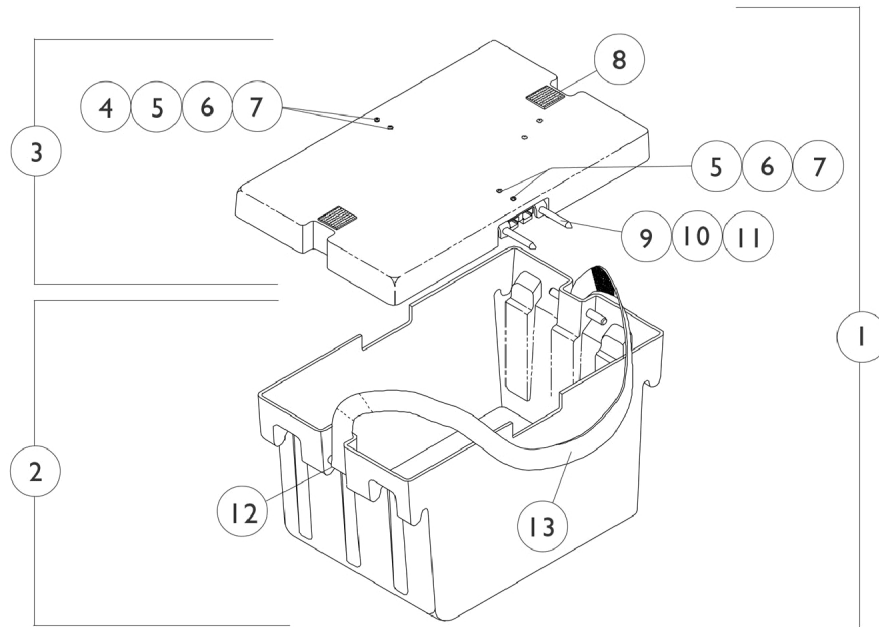
Battery Box Tray for Group 22NF Batteries



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1092190-NLA	NLA - Battery Tray with Strap Assembly	1	1
2		1028769	Locknut (5/16-18)	1	4
3		1042484-NLA	NLA - Screw, Hex Head (5/16-18 x 2")	1	2
4		1049846	Strap Assembly, Battery	1	1
5		1074133	Washer, Steel (5/16 x 3/4 x 1/16")	1	2
NOTE: A - Battery tray design changed 9/13/99 and serves as a direct replacement for all chairs manufactured before 9/13/99 as well					

Front Battery Box for Group 24 Batteries

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

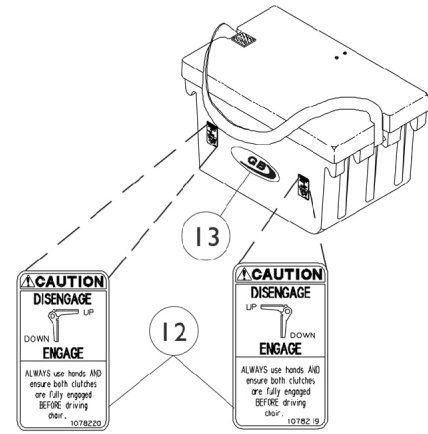
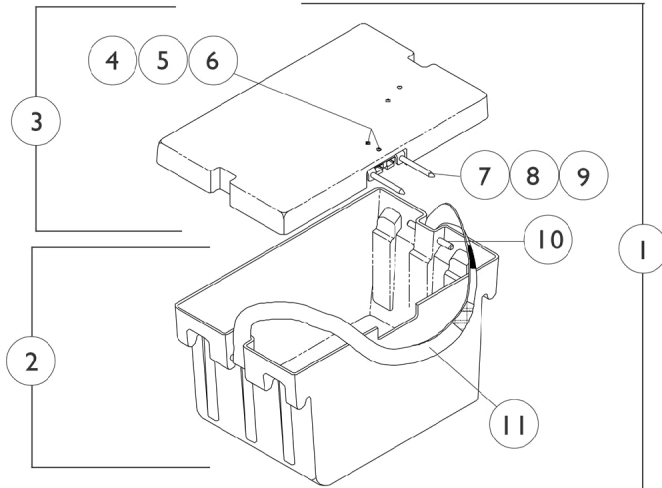


Front Battery Box for Group 24 Batteries

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1039705	Battery Box Assembly w/ Black Battery Connector, Front	1	1
2		1041439	Battery Box Bottom Assembly, Front	1	1
3		1041432	Battery Box Lid Assembly w/ Black Battery Connector, Front	1	1
4		1041420	Bracket, Connector Guide Mounting	1	2
5		1043599-NLA	NLA - Washer, Flat (5/32 x 3/8 x 1/32")	1	4
6		1039773-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 1-1/8")	1	4
7		P0870X050-NLA	NLA - Nut, Keps (#6-32)	1	4
8		1070504-NLA	NLA - Fastener, Hook with Adhesive Back (1" W x 1" L)	1	2
9		1041421	Pin, Connector Guide	1	2
10		1041422	Ring, Retaining	1	4
11		1041420	Bracket, Connector Guide Mounting	1	2
12		1041433-NLA	NLA - Pin, Handle	1	2
13		1041435	Handle, Strap, Front Battery Box, Black	1	1
	A,B	1041426	NLA - Harness, Front Wiring	1	1
	B,C,E	1080643	Kit, Upgrade Group 24 Batteries	1	1
			NLA - Instruction Sheet	1	1
			Harness, Wiring, Black Battery Connector, Round Plug, GP24 Dual Battery Box	1	1
			Tie Wrap (11-1/2" L)	1	4
			Battery Box w/ Mount, Group 24	1	1
	B,D	1087205-NLA	NLA - Kit, Upgrade, Group 24 Batteries	1	1
NOTE: A - Replace with item 3 part number (1041432) battery box lid assembly. B - Not Shown. C - Upgrade for Storm Arrow, RX, and Torque. D - Upgrade for Storm RX - Non-G/B. E - Part number 1085673 is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.					

Rear Battery Box for Group 24 Batteries



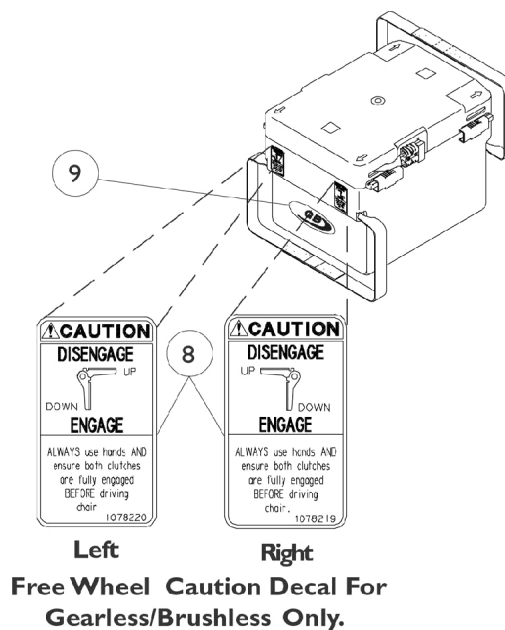
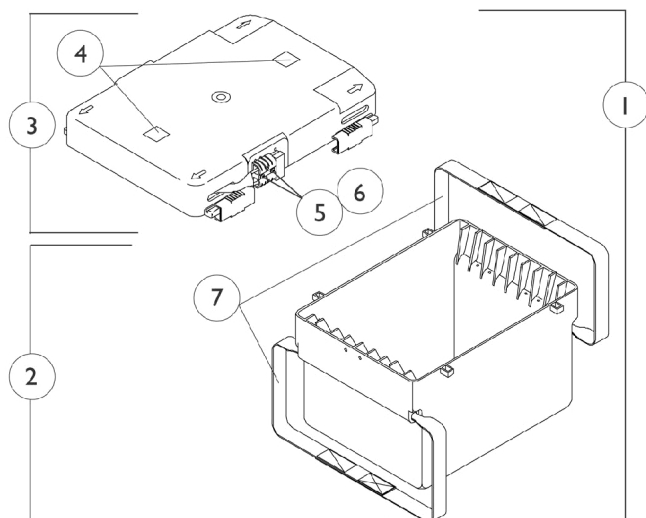
Left
Right
Free Wheel Caution Decal For
Gearless/Brushless Only.

Rear Battery Box for Group 24 Batteries

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	F	1041440	Battery Box Assembly w/ Black Battery Connector, Rear	1	1
1	G	1083048-NLA	NLA - Battery Box Assembly with Decal, G/B, Rear	1	1
2	F	1041438	Battery Box Bottom Assembly, Rear	1	1
2	G	1083049-NLA	NLA - Battery Box Bottom Assembly with Decals, G/B, Rear	1	1
3		1085414	Battery Box Lid Assembly w/ Black Battery Connector, Rear	1	1
4		1039773-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 1-1/8")	1	2
5		1043599-NLA	NLA - Washer, Flat (5/32 x 3/8 x 1/32")	1	2
6		P0870X050-NLA	NLA - Nut, Keps (#6-32)	1	2
7		1041421	Pin, Connector Guide	1	2
8		1041422	Ring, Retaining	1	4
9		1041420	Bracket, Connector Guide Mounting	1	1
10		1041433-NLA	NLA - Pin, Handle	1	2
11		1041434	Handle, Strap, Rear Battery Box, Black	1	1
12		1078219-NLA	NLA - Decal, Caution, Free Wheel - Right (G/B)	1	1
12		1078220-NLA	NLA - Decal, Caution, Free Wheel - Left (G/B)	1	1
13		1079259-NLA	NLA - Decal, Gearless/Brushless	1	1
	C,D	50000X166-NLA	NLA - Fuse - Buss 2-1/4" L (60 AMP)	1	1
	A,C,D	1085408-NLA	NLA - Fuse, G/B - Buss Automotive (30 AMP)	1	1
	C,E	1089385	Fuse, MIDI (Non-G/B & G/B) (80 AMP)	1	1
	B,C	1039726	NLA - Harness, Rear Wiring	1	1
	B,C	1085413	NLA - Harness, Wiring, Rear, G/B	1	1
	C	1087205-NLA	NLA - Kit, Upgrade, Group 24 Batteries	1	1
	C,H	1080643	Kit, Upgrade Group 24 Batteries	1	1
			NLA - Instruction Sheet	1	1
			Harness, Wiring, Black Battery Connector, Round Plug, GP24 Dual Battery Box	1	1
			Tie Wrap (11-1/2" L)	1	4
			Battery Box w/ Mount, Group 24	1	1
NOTE: A - Gearless/Brushless uses both 60 Amp. and 30 Amp. inline fuses. B - Replace with item 3 part number (1085414) battery box lid assembly. C - Not Shown. D - Before 6/15/00 E - After 6/14/00 F - Arrow, Torque, RX, and all Torque SP's. G - Arrow, RX, Torque. H - Part number 1085673 is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.					

Battery Box for Group 22NF Batteries

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



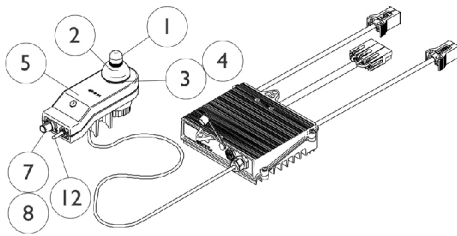
Battery Box for Group 22NF Batteries

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1050175	Battery Box Assembly	1	1
1		1083050-NLA	NLA - Battery Box Assembly with Decals, G/B	1	1
2		1049365	Battery Box Bottom with Straps	1	1
2		1083051-NLA	NLA - Battery Box Bottom with Straps and Decals, G/B	1	1
3		1049366	Battery Box Lid Assembly	1	1
3	A,C	1085410-NLA	NLA - Battery Box Lid Assembly	1	1
4		1070504-NLA	NLA - Fastener, Hook with Adhesive Back (1" W x 1" L)	1	2
5		1037901-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 7/8")	1	1
6		P0870X050-NLA	NLA - Nut, Keps (#6-32)	1	1
7		50000X121	Strap, Battery Lift	1	2
8		1078219-NLA	NLA - Decal, Caution, Free Wheel - Right (G/B)	1	1
8		1078220-NLA	NLA - Decal, Caution, Free Wheel - Left (G/B)	1	1
9		1079259-NLA	NLA - Decal, Gearless/Brushless	1	1
	C	50000X123	Cable, Battery Jumper	1	1
	C,D	50000X166-NLA	NLA - Fuse - Buss 2-1/4" L (60 AMP)	1	1
	B,C,D	1085408-NLA	NLA - Fuse, G/B - Buss Automotive (30 AMP)	1	1
	C,E	1089385	Fuse, MIDI (Non-G/B & G/B) (80 AMP)	1	1
NOTE: A - After 12/7/99 Gearless/Brushless models use part number 1049366 battery box lid assembly and serves as a direct replacement for all chairs manufactured before 12/8/99 as well. B - Gearless/Brushless uses both 60 Amp and 30 Amp inline fuses. C - Not Shown. D - Before 12/8/99 E - After 12/7/99					

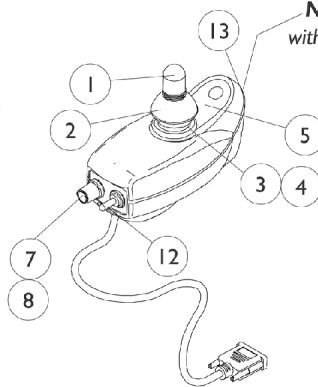
MKIV Joysticks

RII, RX, A, A+, TCHJOY



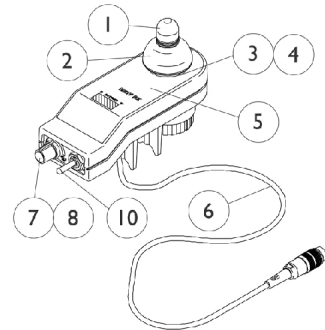
1088723NLA
RII Joystick/Controller
Before 5/1/00

✱ For chairs made before 5/1/00,
the following must be ordered:
RII Joystick part # (1092610)
RII Retro Controller part # (1095269)
Remote Programmer part # (1109091)

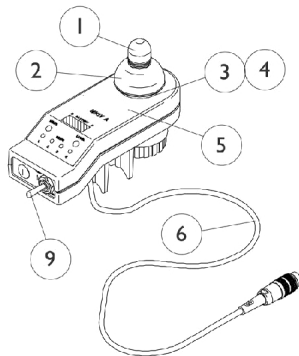


1092610
RII Joystick
After 4/30/00

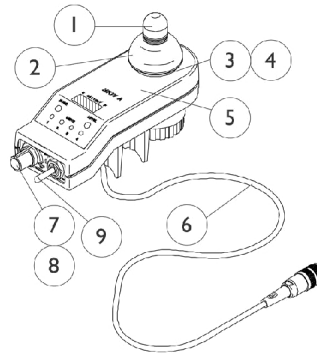
NOTE: RII 80 AMP. decal is not included
with joystick. Available service part on Torque
and Torque SP's as of 11/1/01.



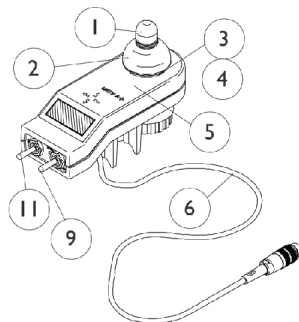
1038603
RX Joystick



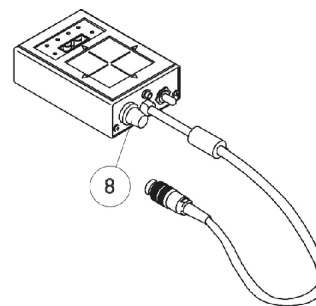
1038604
A Joystick
(Before 9/1/96)



1065944
A Joystick
(After 8/31/96)



1038608
A+ Joystick



1095289
TCHJOY
Touchpad "A"
Joystick

MKIV Joysticks

RII, RX, A, A+, TCHJOY

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	B,C	1080723-NLA	NLA - Joystick/Controller, MKIV RII	1	1
	B	1095269-NLA	NLA - Controller, MKIV RII, Retro	1	1
	B	1109091-NLA	NLA - Programmer, Remote	1	1
	B	See Chart	MKIV Joysticks	1	1
NOTE: B - Not Shown C - For joystick inductive and switch components, refer to chart under RII joystick assembly part number 1092610					

Item Number	Description	RII	RX	A Before 9/1/96	A After 8/31/96	A+	TCHJOY
See Pictorial	Joystick Assembly	1092610-NLA	1038603-NLA	1038604-NLA	1065944-NLA	1038608-NLA	1095289-NLA
1	Knob, Joystick	1040217	1040217	1040217	1040217	1040217	N/A
2	Skirt, Joystick	1040218	1040218	1040218	1040218	1040218	N/A
3	Inductive, Joystick	1036764-NLA See Note(s) B	1036764-NLA See Note(s) C	1036764-NLA See Note(s) B	1036764-NLA See Note(s) C	1036764-NLA See Note(s) B	N/A
3	Inductive, Joystick	N/A	1104397-NLA See Note(s) D	N/A	1104397-NLA See Note(s) D	N/A	N/A
4	Boot, Joystick	50000X364-NLA	50000X364-NLA	50000X364-NLA	50000X364-NLA	50000X364-NLA	N/A
5	Overlay, Joystick Decal	1049692-NLA See Note(s) A	1038642-NLA	1040190-NLA	1040190-NLA	1036776-NLA	N/A
6	Cable Assembly	N/A See Note(s) A	1036750-NLA See Note(s) C	1036750-NLA See Note(s) B	1036750-NLA See Note(s) C	1036750-NLA See Note(s) B	N/A
6	Cable Assembly	N/A	1104205-NLA See Note(s) D	N/A	1104205-NLA See Note(s) D	N/A	N/A
7	Potentiometer, Speed	1040225-NLA See Note(s) B	1040225-NLA See Note(s) C	N/A	1040225-NLA See Note(s) C	N/A	N/A
7	Potentiometer, Speed	N/A	1115518-NLA See Note(s) D	N/A	1115518-NLA See Note(s) D	N/A	N/A
8	Knob, Potentiometer	1025516-NLA	1025516-NLA	N/A	1025516-NLA	N/A	1025516-NLA
9	Switch, On/Off Momentary	N/A	N/A	1040185-NLA See Note(s) B	1040185-NLA See Note(s) C	1040185-NLA See Note(s) B	N/A
9	Switch, On/Off Momentary	N/A	N/A	N/A	1115523-NLA See Note(s) D	N/A	N/A
10	Switch, Off/ 1-2	N/A	1038627-NLA See Note(s) C	N/A	N/A	N/A	N/A

MKIV Joysticks

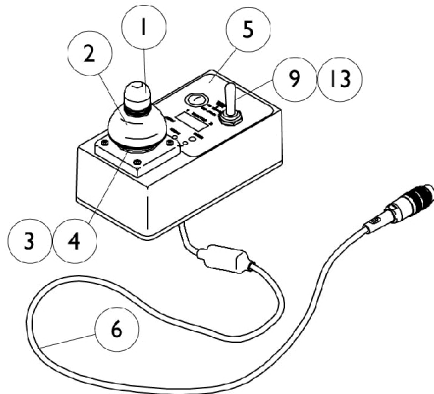
RII, RX, A, A+, TCHJOY

Item Number	Description	RII	RX	A Before 9/1/96	A After 8/31/96	A+	TCHJOY
10	Switch, Off/ 1-2	N/A	1115521-NLA See Note(s) D	N/A	N/A	N/A	N/A
11	Switch, Program	N/A	N/A	N/A	N/A	1040186-NLA See Note(s) B	N/A
12	Switch, Toggle SPDT	1010042-NLA See Note(s) B	N/A	N/A	N/A	N/A	N/A
13	Decal, RII 80 AMP.	1108692-NLA	N/A	N/A	N/A	N/A	N/A
NOTE: A - Cable assembly and joystick overlay decal for RII joystick before 10/01/02 and after 9/30/02 are not available. B - Item requires soldering C - Before 10/01/02 item requires soldering D - After 9/30/02 item has a non-solder connector.							

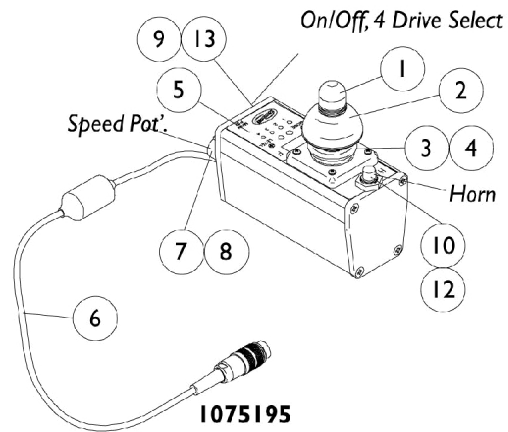
MKIV Joysticks

PS, PSF, and PSR

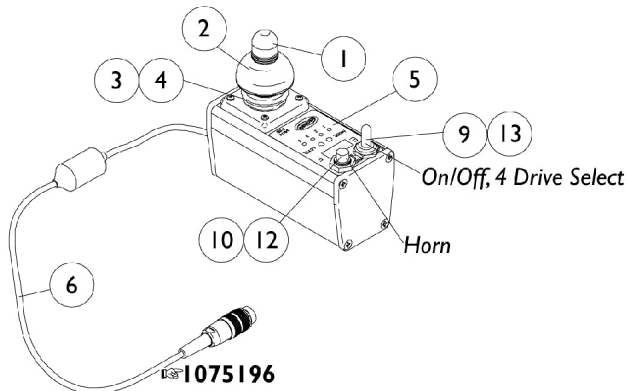
NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configured part.



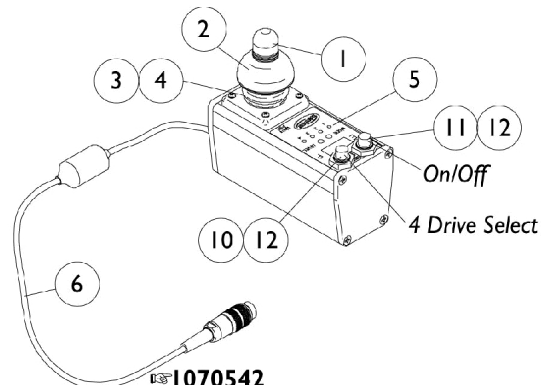
1058468 NLA
PS Joystick
Before 12/1/97



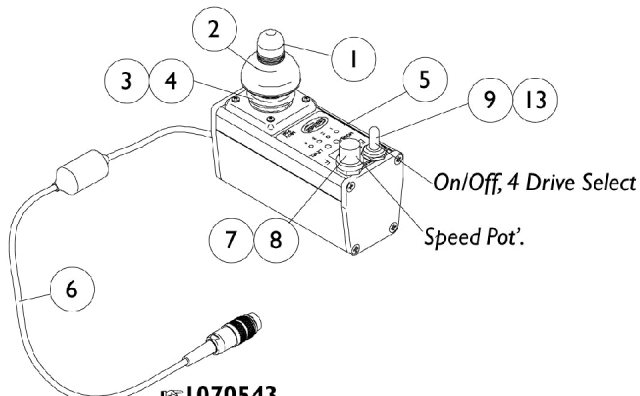
1075195
PSF Joystick
After 11/30/97



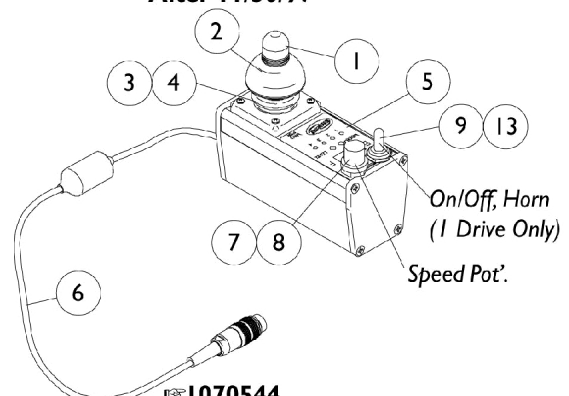
1075196
PSR Joystick
ON CHAIR: STANDARD
After 11/30/97



1070542
PSR Joystick without Horn
ON CHAIR: PBOD/OL
After 11/30/97



1070543
PSR Joystick without Horn
ON CHAIR: RHSS/OL
After 11/30/97



1070544
PSR Joystick
ON CHAIR: TOHSS/OL
After 11/30/97

MKIV Joysticks

PS, PSF, and PSR

NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configured part.

Item Number	Description	PS Before 12/1/97	PSF After 11/30/97	PSR After 11/30/97
See Pictorial	Joystick Assembly	N/A	N/A	1075196-NLA
See Pictorial	Joystick Assembly	1058468-NLA	1075195-NLA	8881075196
See Pictorial	Joystick Assembly	N/A	N/A	1070542-NLA
See Pictorial	Joystick Assembly	N/A	N/A	1070543-NLA
See Pictorial	Joystick Assembly	N/A	N/A	1070544-NLA
1	Knob, Joystick	1040217	1040217	1040217
2	Skirt, Joystick	1040218	1040218	1040218
3	Inductive, Joystick	1036764-NLA See Note(s) A	1036764-NLA See Note(s) A	1036764-NLA See Note(s) A
4	Boot, Joystick	50000X364-NLA	50000X364-NLA	50000X364-NLA
5	Overlay, Joystick Decal	1058460-NLA	1075034-NLA	1079925-NLA
6	Cable Assembly	1036750-NLA	1036750-NLA	1036750-NLA
7	Potentiometer Speed	N/A	1040225-NLA	1040225-NLA
8	Knob Potentiometer	N/A	1025516-NLA	1025516-NLA
9	Switch, On/Off Momentary	1040185-NLA	1040185-NLA	1040185-NLA
10	Switch, Push Button SPST Momentary	N/A	1010047-NLA	1010047-NLA
11	Switch, Push Button SPST	N/A	N/A	1010048-NLA
12	Boot, Switch	N/A	1010049-NLA	1010049-NLA
13	Boot, Switch	1058464-NLA	1058464-NLA	1058464-NLA

MKIV Joysticks

PS, PSF, and PSR

NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configured part.

NOTE: A - The dynamic inductive shaft will have a hole drilled 1/4" down from the top. Flightlink doesn't have this feature.

NOTE: PSR STANDARD joystick configuration below show the on/off switch on the left side for part # 1075196. When the on/off switch is required on the right side, refer to part number 8881075196 and order as a configured part.

PBOD: This PSR joystick includes push button on/off with a push button drive select. This gives you access to the four drives, but no horn and no speed select.

RHSS: This PSR joystick replaces the horn with a speed selector. This allows you to deviate from having a horn to having a speed select dial, plus the drive selector to the four drives.

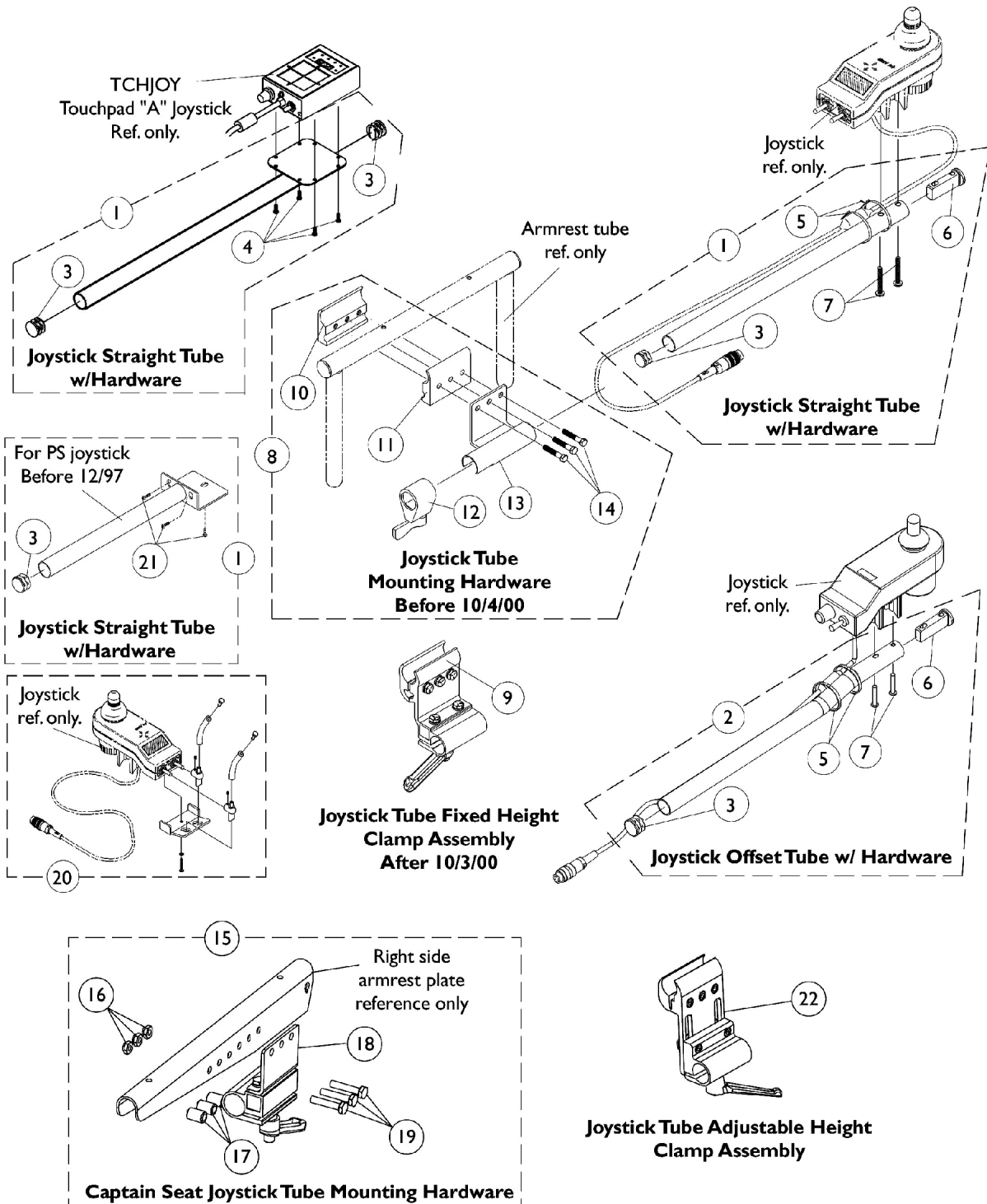
TOHSS: This PSR joystick includes a toggle on/off with horn and a speed select dial. You have access to only one drive.

OL: On/Off positioned on left side of the PSR joystick.

OR: On/Off positioned on right side of the PSR joystick.

MKIV Joystick Mounting Hardware and Joystick Accessories

NOTE: Captain Seat joystick tube mounting hardware adapts to the offset joystick tube and become standard on-chair after 10/3/00.



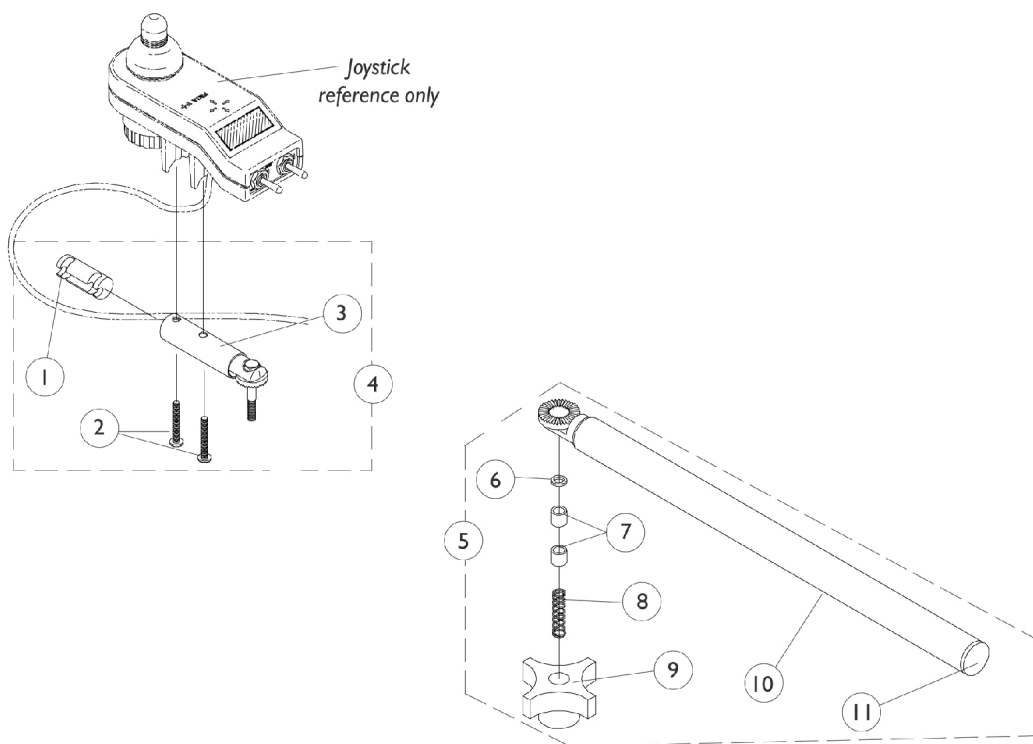
MKIV Joystick Mounting Hardware and Joystick Accessories

NOTE: Captain Seat joystick tube mounting hardware adapts to the offset joystick tube and become standard on-chair after 10/3/00.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1092604-NLA	NLA - Kit, Straight Joystick Tube with Hardware	1	1
1	B	1052719-NLA	NLA - Kit, Straight Joystick Tube with Hardware	1	1
1	C	1043568	Kit, Straight Joystick Tube with Hardware	1	1
2	D,D1,E	1093069	Kit, 1/2" Offset Joystick Tube with Hardware	1	1
3	F	1027095	Plug Button, Black (7/8")	1	1
4		1052041	Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
5		1095502-NLA	NLA - Package, Tie Wrap (11-1/2" L)	10	1
6		1093063	Spacer, Joystick Tube, Black	1	1
7		1025714	Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
8	G	1049591-NLA	NLA - Hardware, Joystick Tube Mounting	1	1
9	D,D1,H	1093071	Clamp, Fixed Height Joystick Tube	1	1
10		1027267-NLA	NLA - Half Clamp, Threaded Holes	1	1
11		1027266	Half Clamp, Non-Threaded Holes	1	1
12		1027274	Adjustment Lock Assembly, Black	1	1
13		1049582-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
14		16690X004-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/8")	1	3
15	I	1105050-NLA	NLA - Kit, Joystick Tube Mounting Hardware - Captain/ Van Seat	1	1
16		1025195	Locknut (1/4-20)	1	3
17		1101524-NLA	NLA - Spacer (1/4 x 7/16 x 5/8")	1	3
18	I	1105049	Clamp Assembly, Fixed Height, Captain/ Van Seat	1	1
19		1057955	Screw, Hex Head (1/4-20 x 1-1/4")	1	1
20		1055736-NLA	NLA - Kit, Toggle Switch Extension	1	1
21		1016401-NLA	NLA - Screw, Phillips Round Head (#10-32 x 3/8")	1	3
22	K	1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
	J	1006270	Extension, Joystick, "T" Style (1560) (4" W x 5-1/2" L)	1	1
	J	1006271	Extension, Joystick, Straight Style (1561) (1/2" W x 5" L)	1	1

NOTE: A - For TCHJOY Touch Pad "A" or TCPDM4 Touch Pad Joystick and includes the joystick tube, items 3 and 4
 B - For PS joystick before 12/1/97 and includes the joystick tube, items 3 and 21
 C - For MKIV RII, RX, A, A+, PSF/PSR joysticks before 10/4/00 and includes the joystick tube, items 3 and 5-7
 D - The joystick straight tube changed to an offset joystick tube on 10/4/00. The joystick tube mounting hardware also changed to a new fixed height clamp assembly to allow an individual to use an
 D1 - adjustment lever to securely hold the joystick tube in place. The fixed height joystick tube clamp can be used as a direct replacement in the field for the joystick tube mounting hardware part number 1049591 manufactured for chairs before 10/4/00.
 E - For MKIV RII, RX, A, A+, PSF/PSR joysticks after 10/3/00 and includes the offset joystick tube, items 3 and 5-7
 F - The Touch Pad joystick tube takes a quantity of 2 plug buttons
 G - For (PS joystick before 12/1/97), TCHJOY and MKIV RII, RX, A, A+, PSF/PSR joystick before 10/4/00 and includes items 10-14
 H - For MKIV RII, RX, A, A+, PSF/PSR joystick after 10/3/00. Individual components are non-saleable
 I - Includes items 16-19. Due to product improvement, the joystick mounting bracket with a separate adjustment lock were replaced with the clamp assembly shown as of 2/20/03 and is backward compatible
 J - Not Shown
 K - Can be used to replace a Fixed Height Joystick Tube Clamp in the field.

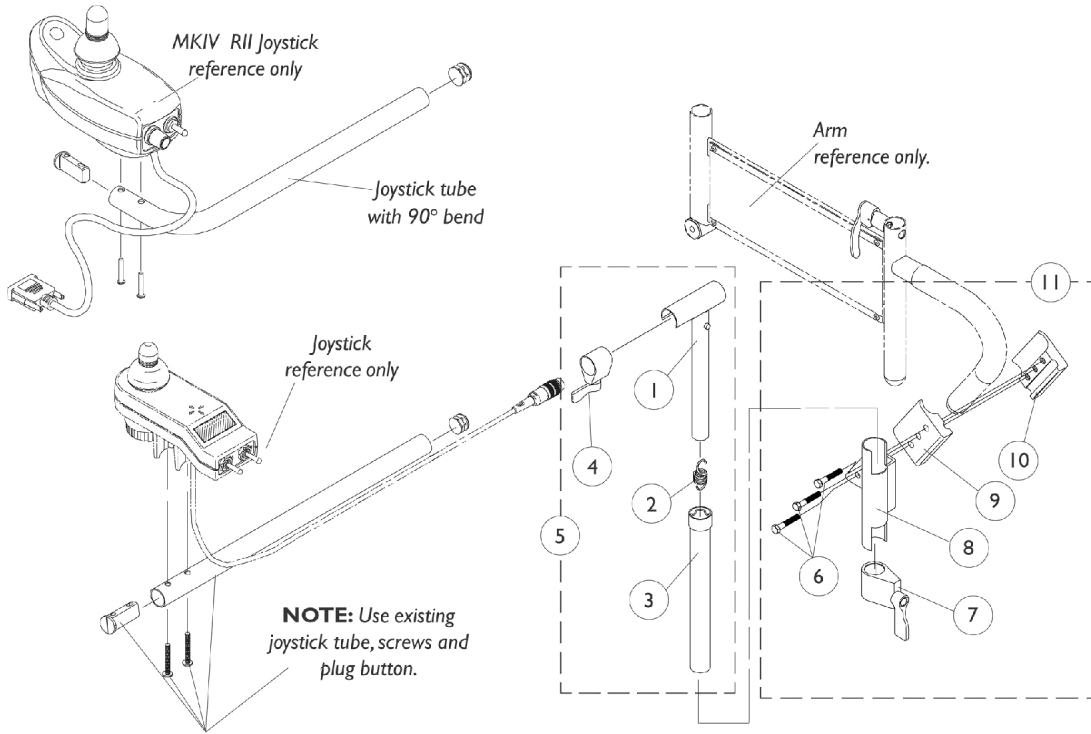
MKIV Swivel Joystick Hardware



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1093063	Spacer, Joystick Tube, Black	1	1
2		7930327-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1-1/8")	25	3
3		1049962-NLA	NLA - Bracket, Swivel Joystick, MKIV	1	1
4		1049963-NLA	NLA - Bracket, Swivel Joystick with Hardware	1	1
5		1035986-NLA	NLA - Joystick Swivel Tube with Hardware, Black	1	1
6		1020551-NLA	NLA - Washer, Flat (1/4 x 3/8 x 1/16")	1	1
7		1005844-NLA	NLA - Bushing	1	2
8		1002511-NLA	NLA - Spring, Hitch Bracket	1	1
9		1023670-NLA	NLA - Knob, Clamping, Grey	1	1
10		1035990-NLA	NLA - Tube, Swivel Joystick, Black	1	1
11		1027095	Plug Button, Black (7/8")	1	1

MKIV Mid-Line Swing Bracket Assembly

NOTE: Joystick Tube with 90 degree bend replaces the standard tube when joysticks PSF, PSR and (RII part number 1092610) are used. Joystick Tube with 90 degree bend must be ordered as a special when a replacement is needed.

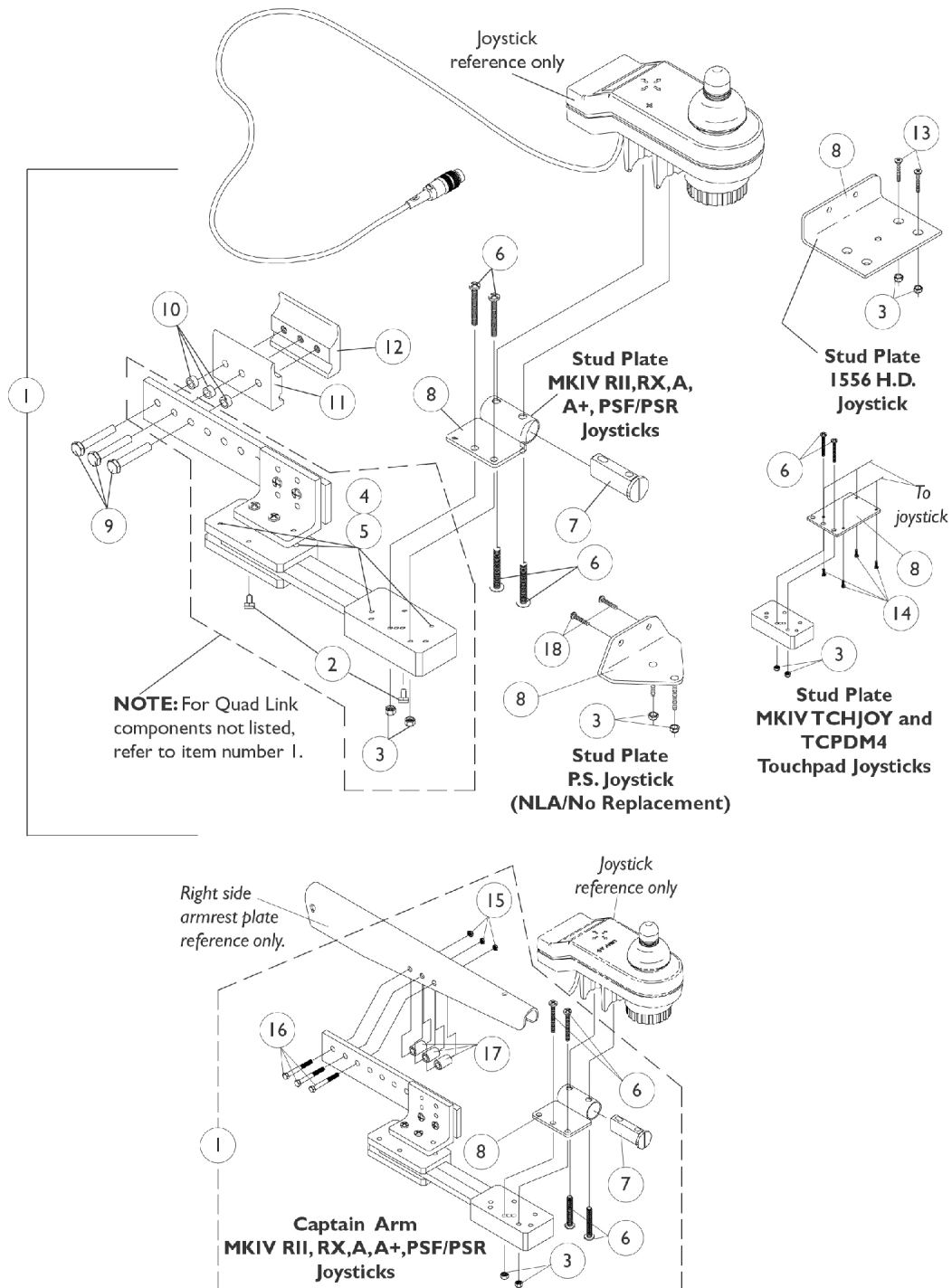


Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	B	1035528-NLA	NLA - Tube, Adjustment, Inside, Mid-Line, Black	1	1
2		1016778-NLA	NLA - Spring, Extension (9/16 x 1-3/8" L)	1	1
3		1035860-NLA	NLA - Tube, Adjustment, Outside, Mid-Line, Black	1	1
4		1027274	Adjustment Lock Assemnbly, Black	1	1
5		1035852-NLA	NLA - Swing Bracket Assembly, Mid-Line, Black	1	1
6	A	7930349-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/8")	25	3
7		1027274	Adjustment Lock Assemnbly, Black	1	1
8		1071879-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
9	A	1027266	Half Clamp, Non-Threaded Holes	1	1
10		1027267-NLA	NLA - Half Clamp, Threaded Holes	1	1
11		1071880-NLA	NLA - Hardware, Attaching - Mid-Line	1	1
	C,D	1092610-NLA	NLA - Joystick, RII	1	1

NOTE: A - Left side joystick mounting bracket or hardware must be ordered as a special.
B - Includes items 1-4
C - Includes items 6-10
D - Not Shown

Quad Link Assembly

Before 4/07/06



Quad Link Assembly

Before 4/07/06

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1052402-NLA	NLA - Kit, Quad Link Assembly - Right	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube, Black	1	1
8			NLA - Stud Plate, Quad Link	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11	A	1115372-NLA	Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1
1			NLA - Kit, Quad Link Assembly - Left	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube, Black	1	1
8			NLA - Stud Plate, Quad Link	1	1
9	B,F	1034703-NLA	Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1
1			NLA - Kit, Quad Link Assembly - Right	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
8			Plate, Stud, Quad Link For 1556 Heavy Duty Joystick	1	1
9	B	1114866-NLA	Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1
13			Screw, Phillips Flat Head (#10-32 x 1-1/8")	1	2
1			NLA - Kit, Quad Link Assembly - Left	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
8			Plate, Stud, Quad Link For 1556 Heavy Duty Joystick	1	1

Quad Link Assembly

Before 4/07/06

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
9	C	1102027-NLA	Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1
13			Screw, Phillips Flat Head (#10-32 x 1-1/8")	1	2
1			NLA - Kit, Quad Link Assembly - Right For TCHJOY/TCPDM4 Touchpad	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
8			NLA - Plate, Stud, Quad Link MKIV TCHJOY/TCPDM4	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11	D	1074153-NLA	Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1
14			NLA - Screw, Phillips Flat Head Countersunk (#4-40 x 3/8")	1	4
1			NLA - Kit, Quad Link Assembly - Right For Van Seats	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	4
7			Spacer, Joystick Tube, Black	1	1
8			NLA - Stud Plate, Quad Link	1	1
15			Locknut (1/4-20)	1	3
16			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
17			NLA - Spacer (1/4 x 7/16 x 5/8")	1	3
1	E	1106191-NLA	NLA - Kit, Quad Link Assembly - Right For PS joystick	1	1
2			NLA - Ball Plunger Assembly with Lock Washer	2	1
3			Locknut (#10-32)	1	2
4			NLA - Screw, Cap, Socket Head (#10-32 x 1/2")	1	4
5			NLA - Bushing, Bronze (3/16 x 1/4 x 1/4")	1	4
8			NLA - Plate, Stud, Quad Link P.S. Joystick	1	1
9			Screw, Hex Head (1/4-20 x 1-1/2")	1	3
10			NLA - Spacer (1/4 x 3/8 x 3/16")	1	3
11			Half Clamp, Non-Threaded Holes	1	1
12			NLA - Half Clamp, Threaded Holes	1	1

Quad Link Assembly

Before 4/07/06

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
18			Screw, Phillips Pan Head (#10-32 x 11/16")	1	2
2		1114863-NLA	NLA - Ball Plunger Assembly with Lock Washer	2	1
NOTE: A - Includes the Quad Link, items 2-12 and used with MKIV RII, RX, A, A+, PSF/PSR joysticks B - Includes the Quad Link, items 2-5, 8-13 and used with a 1556 Heavy duty joystick C - Includes the Quad Link, items 2-6, 8-12, 14 and used with MKIV TCHJOY/TCPDM4 joysticks. For left side mounted Quad Link, order as a special. D - Includes the Quad Link, items 2-8, 15-17 and used with MKIV RII, RX, A, A+, PSF/PSR joysticks for Van Seats. For left side mounted Quad Link, order as a special. E - Includes the Quad Link, items 2-5, 8-12, 18 and used with a PS joystick. F - Quad Link Assembly is no longer available. Please see Quad Link Assembly (After 4/06/06) category and use new Quad Link design as a replacement.					

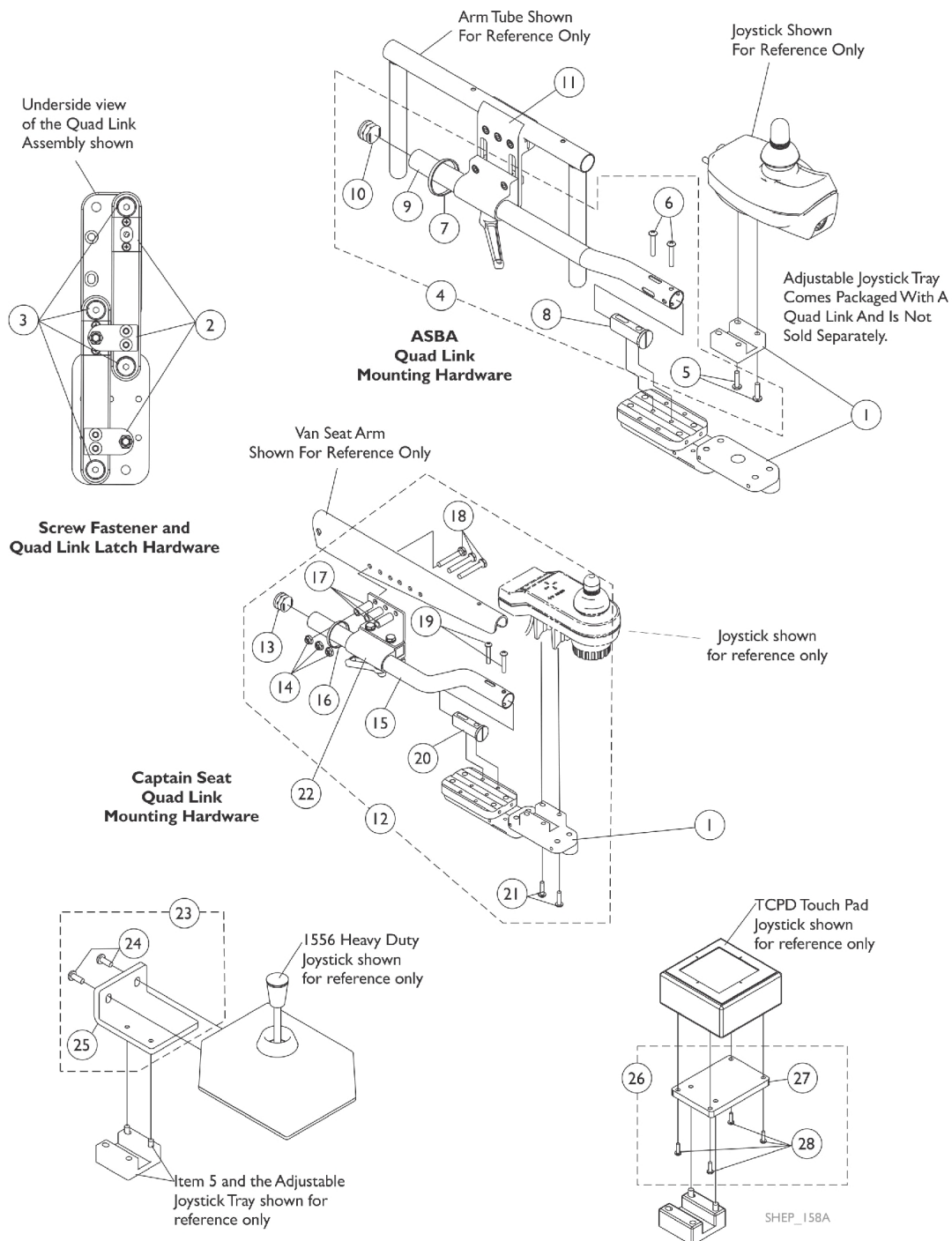
Quad Link (QLA - ASBA) and (QL - Captain Seat)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:

- a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
- b) Captain Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)

NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad are used.



Quad Link (QLA - ASBA) and (QL - Captain Seat)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:

a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)

b) Captain Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)

NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad are used.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1140896	Quad Link w/ Adjustable Joystick Tray (QLA) and Instruction Sheet - Right	1	1
1		1140897	Quad Link w/ Adjustable Joystick Tray (QLA) and Instruction Sheet - Left	1	1
1	I	1140898	Quad Link (QL) with Instruction Sheet - Right	1	1
1	I	1140899	Quad Link (QL) with Instruction Sheet - Left	1	1
2	A	1140425	Kit, Quad Link Latch Hardware	1	1
3	B	1140424-NLA	NLA - Kit, Quad Link Screw Fastener Hardware	1	1
4	C,C1	1139416	Kit, ASBA/ADJASBA Quad Link Mounting Hardware	1	1
5			Screw, Phillips Pan Head w/ Patch (#10-32 x 3/4")	1	2
6			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
7			Tie Wrap (11-1/2" L)	1	1
8			Spacer, Joystick Tube, Black	1	1
9			Tube, Joystick Offset (1/2")	1	1
10			Plug Button, Black (7/8")	1	1
5		1105414	Screw, Phillips Pan Head w/ Patch (#10-32 x 3/4")	1	2
11		1093071	Clamp, Fixed Height Joystick Tube	1	1
12	C1,G,H,H1	1143041-NLA	NLA - Kit, Quad Link Mounting Hardware - Van Seat	1	1
13			Plug Button, Black (7/8")	1	1
14			Locknut (1/4-20)	1	3
15			Tube, Joystick Offset (2")	1	1
16			Tie Wrap (11-1/2" L)	1	1
17			NLA - Spacer (1/4 x 7/16 x 5/8")	1	3
18			Screw, Hex Head (1/4-20 x 1-1/4")	1	3
19			Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	2
20			Spacer, Joystick Tube, Black	1	1
21			Screw, Phillips Pan Head w/ Patch (#10-32 x 3/4")	1	2
22		1139681	Clamp Assembly, Fixed Height, Captain/ Van Seat	1	1
23	D	1139925-NLA	NLA - Kit, 1556 Heavy Duty Joystick To Quad Link Mounting Hardware	1	1
24			Screw, Phillips Pan Head (#10-32 x 1/2")	1	2
25			NLA - Plate, 1556 HD Joystick Quad Link	1	1
26	E	1139683-NLA	NLA - Kit, TCPD Touch Pad To Quad Link Mounting Hardware	1	1
27			Plate, TCPD Touch Pad Quad Link	1	1
28			Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
	F	1134844	Instruction Sheet, Quad Link	1	1

Quad Link (QLA - ASBA) and (QL - Captain Seat)

After 4/06/06

When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:

a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)

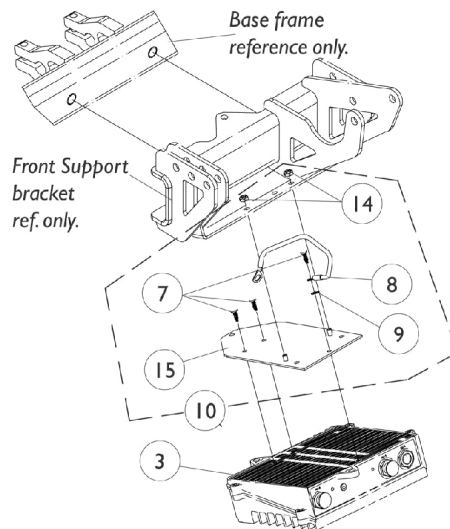
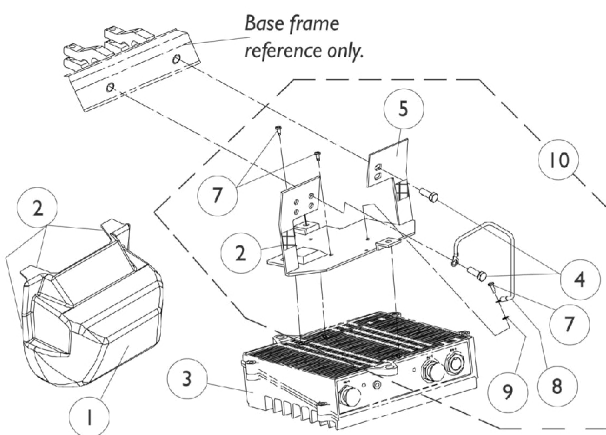
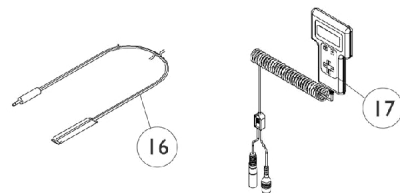
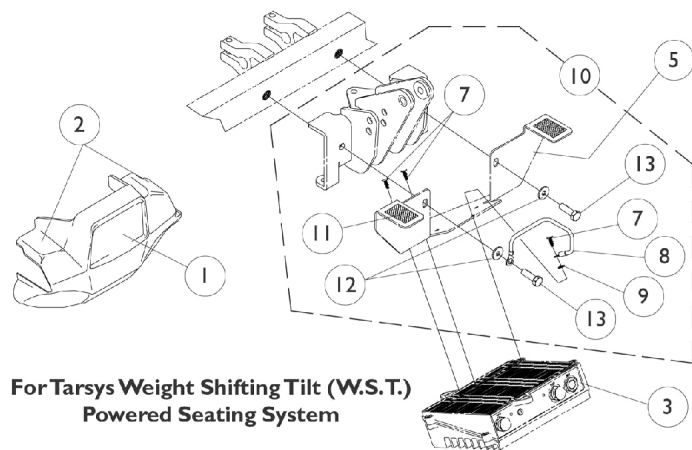
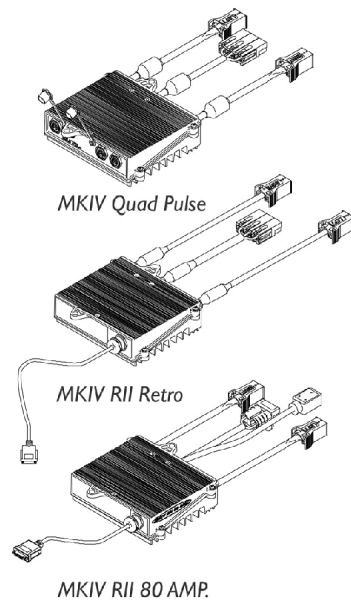
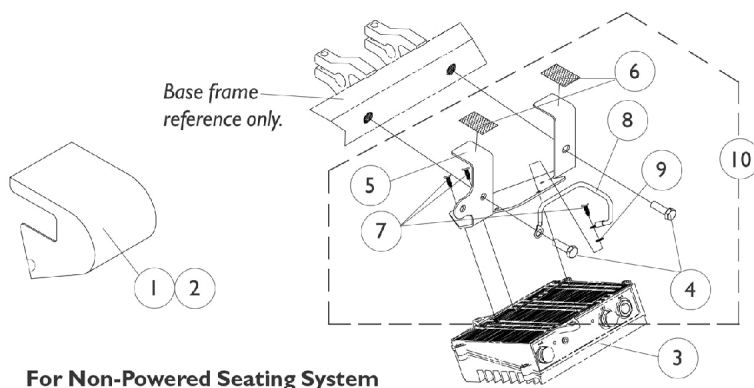
b) Captain Seat; Quad Link Mtg. Hdwr. (item 12), Quad Link (item 1) & Joystick Tube Clamp (item 22)

NOTE: Substitute (item 4 & 12) with 2 ea. of the PPH Screws (item 5) when an offset joystick tube is currently on the chair. Additional Joystick Mtg. Hdwr. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad are used.

NOTE: A - Latch Kit includes 4 ea. Button Head Cap Screws (10-32 x 3/8"), 2 ea. Latch Spring Assembly, 4 ea. Phillips Flat C'Sunk Head Screws, 2 ea. Spring Catch Plates, 2 ea. Socket Head Set Screws (10-32 x 3/8")
B - Screw Fastener Kit includes 4 ea. Socket Head Shoulder Screws (3/8 x 3/8"), 2 ea. Socket Head Cap Screws (1/4-20 x 3/8"), 2 ea. Socket Head Set Screws (1/4-20 x 1/2"), 4 ea. Socket Head Set Screws (10-32 x 1/8")
C - Includes items 5-10. The Quad Link Mounting Hardware accommodates MKIV RX, A, A+ and PSF/PSR joysticks.
C1 - When ordering the Quad Link for the first time, Additional hardware is required for 1556 Heavy Duty and TCPD Touch Pad joysticks. See pictorial for reference.
D - Includes items 24 and 25
E - Includes items 27 and 28
F - Not Shown
G - Includes items 13-21. The Quad Link Mounting Hardware accommodates MKIV RX, A, A+ and PSF/PSR joysticks.
H - If Quad Link is to be mounted on chairs w/ van seats built Before 4/07/06, then the Armrest Attach. Hdwr. (1074120) for 18" wide or (1101917) for 20" & 22" wide must be ordered as well.
H1 - See page titled "Captain Seat Arms and Hardware" page. The new armrest plates have 3 additional holes drilled so that the quad link can be properly mounted.
I - Use with Captain Seats only

MKIV Controllers, Programmer and Hardware

MKIV Quad Pulse, RII Retro, and RII 80 Amp.



MKIV Controllers, Programmer and Hardware

MKIV Quad Pulse, RII Retro, and RII 80 Amp.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1070407-NLA	NLA - Shroud Cover with Fastener Strips, Controller	1	1
1	B	1082320-NLA	NLA - Cover, Shroud with Fastener Strips, Controller	1	1
1	C	1091310-NLA	NLA - Cover, Controller Shroud w/ Hardware	1	1
2	A	1079246-NLA	NLA - Fastener, Loop Adhesive Back (1" W x 3" L)	1	2
2	B	0065400	Fastener, Loop Adhesive Back (2" W x 1-1/2" L)	1	2
2	C	1092662-NLA	NLA - Package, Fastener, Dual Lock 250 (1/2" W x 7/8" L)	10	4
3	D	1105707-NLA	NLA - Controller, MKIV Quad Pulse	1	1
3	D	1095269-NLA	NLA - Controller, MKIV RII, Retro	1	1
3	E,F,G	1106819-NLA	NLA - Controller, MKIV RII (80 AMP)	1	1
4		1104258	Screw, Hex Head w/ Patch (5/16-18 x 1")	1	2
5	A	1092661-NLA	NLA - Bracket w/ Fastener Strips, Controller Mounting	1	1
5	B	1082321-NLA	NLA - Bracket, with Fastener Strips Controller Mounting	1	1
5	C	1092659-NLA	NLA - Kit, Controller Mounting Bracket with Fastener Strips, Black	1	1
6		1070504-NLA	NLA - Fastener, Hook with Adhesive Back (1" W x 1" L)	1	2
7		1040223-NLA	NLA - Screw (#8-32 x 1/2")	1	3
8		1104260-NLA	NLA - Wire, Grounding Jumper Strap E.S.D.	1	1
9		1027263-NLA	NLA - Washer, Lock Internal Tooth (#10)	1	1
10	A,H	1070401-NLA	NLA - Bracket with Hardware, Controller Mounting	1	1
10	C,I	1092650-NLA	NLA - Bracket with Hardware, Controller Mounting	1	1
10	J	1107312-NLA	NLA - Bracket with Hardware, Controller Mounting	1	1
10	B,K	1083451-NLA	NLA - Hardware, Controller Mounting without Bracket	1	2
11		0065100-NLA	NLA - Hook Fastener with Adhesive Back (2" W x 1-1/2" L)	1	2
12		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	2
13		1104257	Screw, Hex Head w/ Patch (5/16-18 x 1-1/4")	25	2
14		7930332-NLA	NLA - Locknut, High Profile (#10-32)	1	1
15		1087790-NLA	NLA - Bracket, Controller Mounting, Black	1	1
16		1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
16	Q	1123276	Kit, Switch, Black Egg Reset w/ Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
17	L	1109091-NLA	NLA - Programmer, Remote	1	1
	M	1105912-NLA	NLA - Kit, Electro Static Discharge Ground Strap - MKIV	1	1
	M,R	1105913-NLA	NLA - Instruction Sheet, E.S.D. Strap Kit MKIV	1	1
	M,N	1064404-NLA	NLA - Virtual Service Modem Kit	1	1
	M,O	1091631-NLA	NLA - Virtual Service Software Kit	1	1
	M,N	1103051-NLA	NLA - MKIV One 2 One Software Kit	1	1

MKIV Controllers, Programmer and Hardware

MKIV Quad Pulse, RII Retro, and RII 80 Amp.

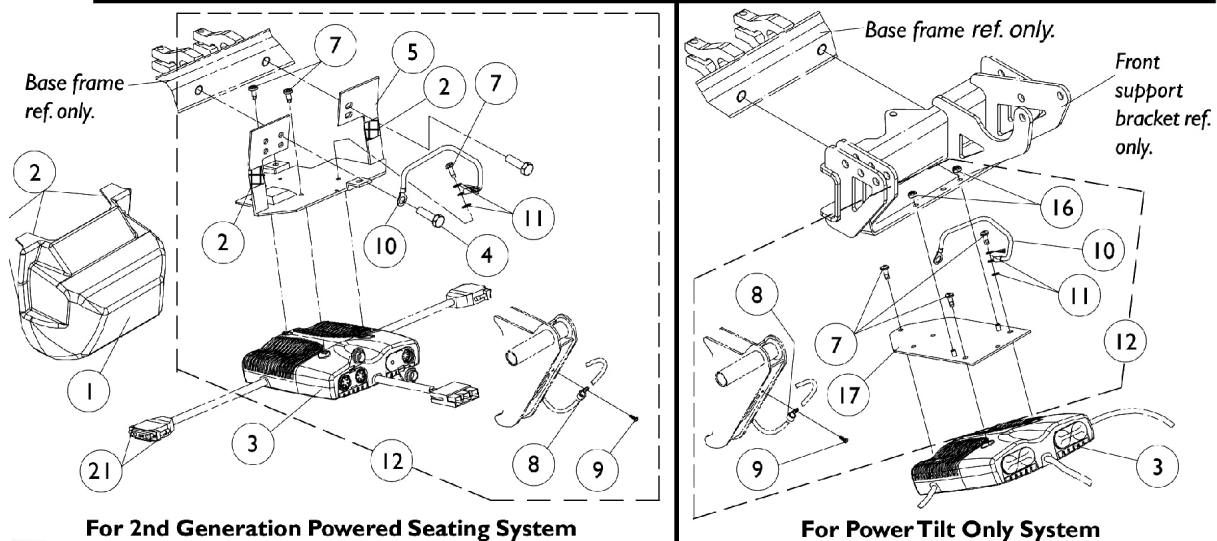
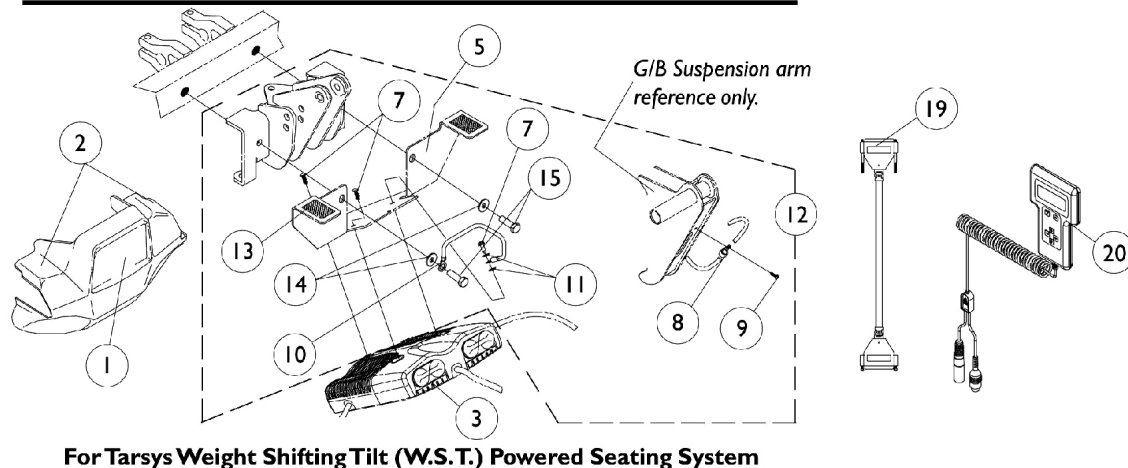
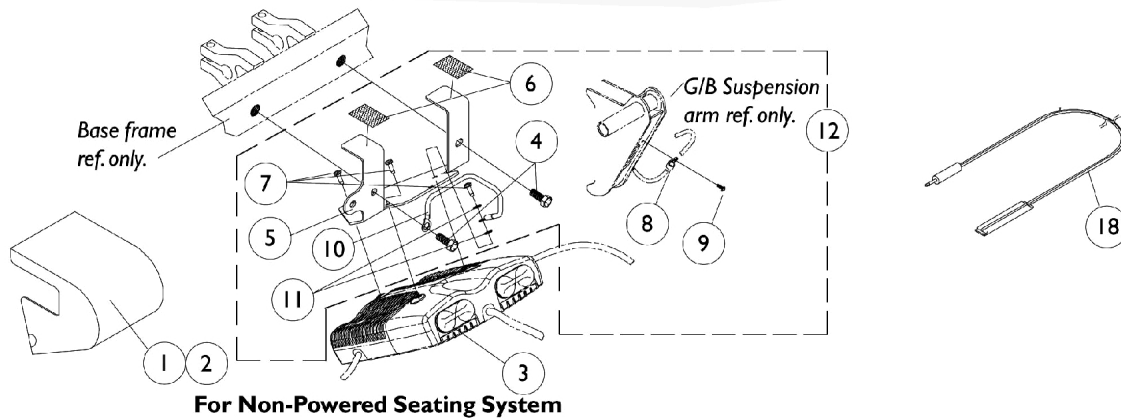
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	M,P	1046117-NLA	NLA - Printer and Interface	1	1
	M	1095204-NLA	NLA - Cable, Virtual Service, Charger/Modem	1	1
	M	1091980-NLA	NLA - Disk, 3.5 H.D. Floppy with V.S. Software	1	1
	M	1091637-NLA	NLA - Adaptor, Null Modem	1	1
	M	1091636-NLA	NLA - Service Manual - V.S. Software Kit	1	1
	M	1026572-NLA	NLA - Paper, Printer	1	1
	M	1027280-NLA	NLA - Harness, Printer Wiring	1	1

NOTE: A - Used on Non-powered Seating Systems.
 B - Used on W.S.T. Powered Seating Systems.
 C - Used on 2nd Generation Powered Seating Systems.
 D - For chairs built before 4/12/01, an E.S.D. ground strap kit should be used when a new controller is ordered.
 E - RII retro controller after 4/30/00 with joystick serve as a direct replacement for joystick/controller part number 1080723.
 F - Battery harness must be present when the RII 80 Amp. controller is used. RII 80 Amp. joystick decal is also used.
 Available as a service part upgrade 11/1/01 for all Torque models with 4-pole motors only.
 G - Torque and Torque SP after 10/31/01.
 H - Includes items 4-9
 I - Includes items 2, 4, 5, and 7-9.
 J - Includes items 7-9 and 14-15.
 K - Includes items 7-9 and 11-13
 L - Remote programmer with the dual connectors is the only programmer useable with RII Joystick.
 M - Not Shown.
 N - Part number 1095204 is available for individual sale
 O - Part numbers 1091980, 1091637, 1091636 and 1095204 are available for individual sale
 P - Part numbers 1026572 and 1027280 are available for individual sale
 Q - Not Shown. After 5/23/04 the Egg Reset Switch became available as a service part and can be used as a direct replacement for the tape reset switch part # 1020818.
 R - Item is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.

MKIV Controller, Programmer and Hardware

Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.



MKIV Controller, Programmer and Hardware

Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	G	1070407-NLA	NLA - Shroud Cover with Fastener Strips, Controller	1	1
1	H	1082320-NLA	NLA - Cover, Shroud with Fastener Strips, Controller	1	1
1	I	1091310-NLA	NLA - Cover, Controller Shroud w/ Hardware	1	1
2	G	1079246-NLA	NLA - Fastener, Loop Adhesive Back (1" W x 3" L)	1	2
2	H	0065400	Fastener, Loop Adhesive Back (2" W x 1-1/2" L)	1	2
2	I	1092662-NLA	NLA - Package, Fastener, Dual Lock 250 (1/2" W x 7/8" L)	10	4
3	B,C,S	1110861-NLA	NLA - Controller with Instructions, MKIV GB (TrueTrack) Non-Heavy Duty	1	1
3	B,C,T	1109540-NLA	NLA - Controller with Instructions, MKIV GB (TrueTrack) Non-Heavy Duty	1	1
4		1104258	Screw, Hex Head w/ Patch (5/16-18 x 1")	1	2
5	G	1092661-NLA	NLA - Bracket w/ Fastener Strips, Controller Mounting	1	1
5	H	1082321-NLA	NLA - Bracket, with Fastener Strips Controller Mounting	1	1
5	I	1092659-NLA	NLA - Kit, Controller Mounting Bracket with Fastener Strips, Black	1	1
6		1070504-NLA	NLA - Fastener, Hook with Adhesive Back (1" W x 1" L)	1	2
7		1104259	Screw, Phillips Pan Head w/ Patch (#10-32 x 1/2")	1	3
8		1079245-NLA	NLA - Clamp, Cable	1	2
9		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	2
10		1104260-NLA	NLA - Wire, Grounding Jumper Strap E.S.D.	1	1
11		1027263-NLA	NLA - Washer, Lock Internal Tooth (#10)	1	2
12	G,L	1079244-NLA	NLA - Hardware, Controller Bracket Mounting (GB)	1	1
12	D,I	1092651-NLA	NLA - Bracket with Hardware, Controller Mounting	1	1
12	E,J	1107311-NLA	NLA - Bracket with Hardware, Controller Mounting	1	1
12	H,K	1082689-NLA	NLA - Hardware, Bracket, Controller Mounting	1	2
13		0065100-NLA	NLA - Hook Fastener with Adhesive Back (2" W x 1-1/2" L)	1	2
14		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	2
15		1104257	Screw, Hex Head w/ Patch (5/16-18 x 1-1/4")	1	1
16		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	2
17		1087790-NLA	NLA - Bracket, Controller Mounting, Black	1	1
18		1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
18	U	1123276	Kit, Switch, Black Egg Reset w/ Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
19	A	1091121-NLA	NLA - Cable, Motor Extension, GB (8")	1	2
20		1109091-NLA	NLA - Programmer, Remote	1	1
21		1159217	Package, Thumb Screw (1-1/2" L)	10	1

MKIV Controller, Programmer and Hardware

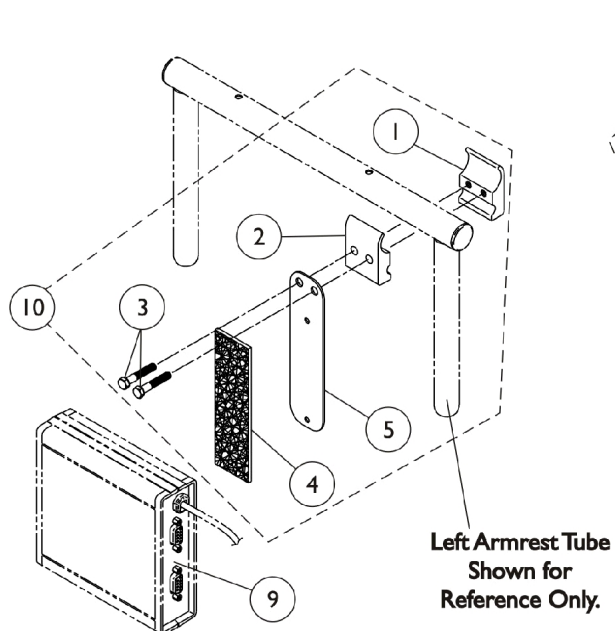
Gearless/Brushless

NOTE: Gearless/ Brushless motors were made available on-chair as an option for Storm Arrow, Ranger X and Torque 11/2/98. On 7/1/99 Gearless/ Brushless motors became standard for Storm Arrow only.

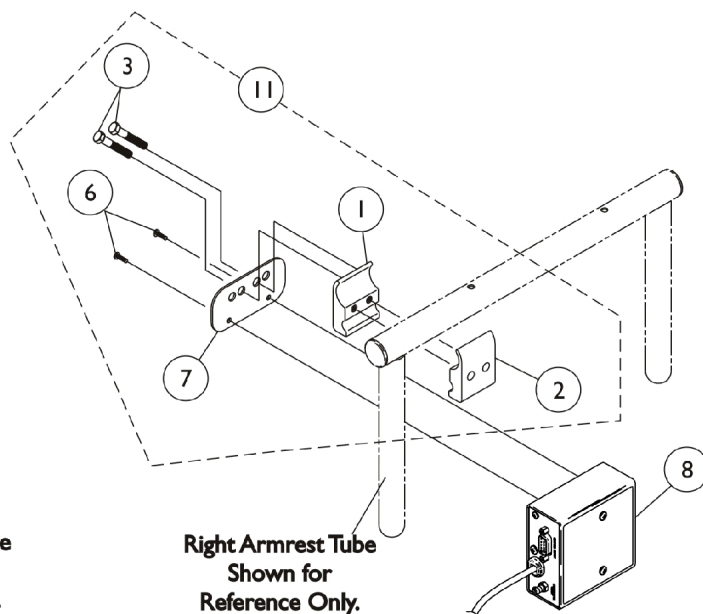
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	F,M	1105910-NLA	NLA - Kit, ESD Ground Strap - GB	1	1
	F,V	1105911-NLA	NLA - Instruction Sheet, ESD Kit (GB)	1	1
	F,N	1118363-NLA	NLA - Instruction Sheet, Replacing and Calibrating MKIV (GB) Controller	1	1
	F,O	1043576-NLA	NLA - Service Manual, MKIV Electronics	1	1
	F,P	1064404-NLA	NLA - Virtual Service Modem Kit	1	1
	F	1095204-NLA	NLA - Cable, Virtual Service, Charger/Modem	1	1
	F,Q	1091631-NLA	NLA - Virtual Service Software Kit	1	1
	F	1091980-NLA	NLA - Disk, 3.5 H.D. Floppy with V.S. Software	1	1
	F	1091637-NLA	NLA - Adaptor, Null Modem	1	1
	F	1091636-NLA	NLA - Service Manual - V.S. Software Kit	1	1
	F,P	1103051-NLA	NLA - MKIV One 2 One Software Kit	1	1
	F,R	1046117-NLA	NLA - Printer and Interface	1	1
	F	1026572-NLA	NLA - Paper, Printer	1	1
	F	1027280-NLA	NLA - Harness, Printer Wiring	1	1

NOTE: A - Extension cables to be used with testing equipment only.
 B - Controller w/o instructions before 4/1/02 is 1079890 and after 3/31/02 is 1109528 as noted on the controller decal.
 C - It is recommended that an E.S.D. strap kit part number 1105910 be ordered when a new controller is needed.
 D - Includes items 2, 4, 5, and 7-11.
 E - Includes items 7-11, 16, and 17.
 F - Not Shown
 G - Used on Non-powered Seating Systems.
 H - Used on W.S.T. Powered Seating Systems.
 I - Used on 2nd Generation Powered Seating Systems.
 J - Used on Power Tilt System.
 K - Includes items 7-11 and 13-14.
 L - Includes items 4-11.
 M - Includes items 4, 7, 10-11, 15, and Instruction Sheet.
 N - Used for Controllers Manufactured before 4/1/02.
 O - Used for Controllers Manufactured after 3/31/02.
 P - Part # 1095204 is available for individual sale.
 Q - Part # 1091980, 1091637, 1091636, and 1095204 are available for individual sale.
 R - Part # 1026572 and 1027280 are available for individual sale.
 S - Controller for chairs made before 4/1/02. No Longer Available. Use part number 1109540 as a replacement.
 T - Controller for chairs made after 3/31/02
 U - Not Shown. After 5/23/04 the Egg Reset Switch became available as a service part and can be used as a direct replacement for the tape reset switch part # 1020818.
 V - Item is no longer available from the Invacare Service Parts Department. Refer to the Invacare Website under "Product Literature Search". Enter the part number in the "Keywords" field and download a free PDF version copy.

MKIV Sip-N-Puff/Digital Interface and COM12 and COM34



COM12
1038639 And COM34
1086241 ON CHAIR
OFF CHAIR



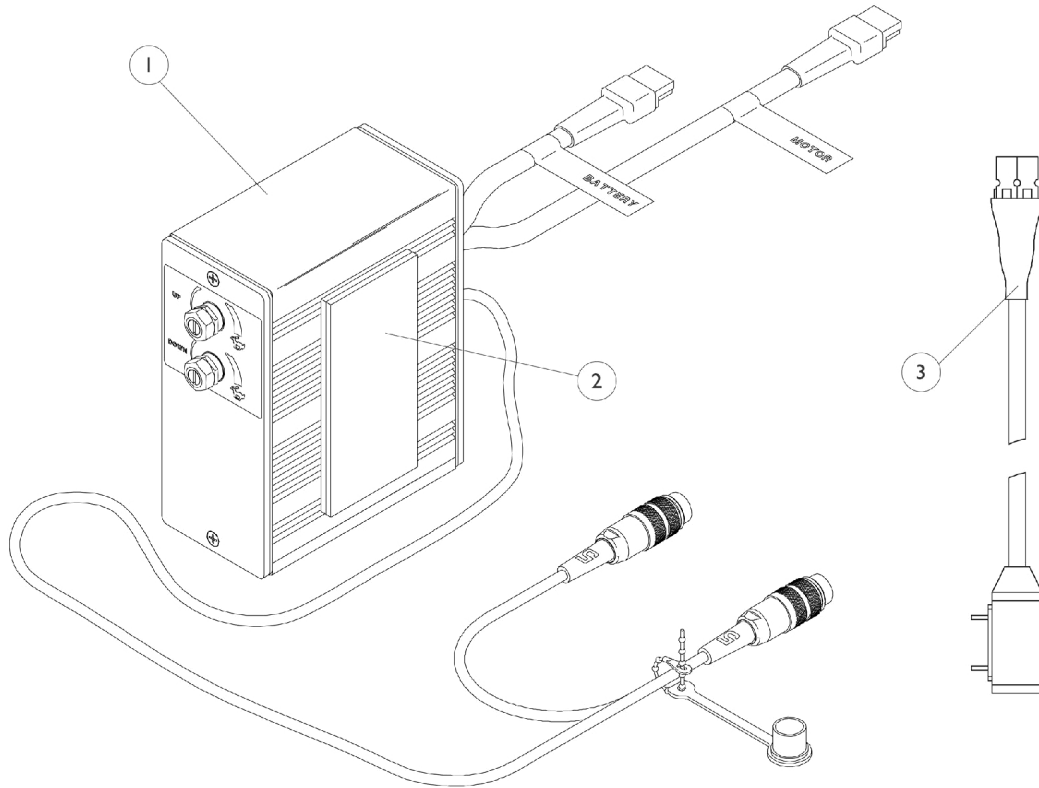
SNPM4
1038635 ON CHAIR
OFF CHAIR

MKIV Sip-N-Puff/Digital Interface and COM12 and COM34

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
8	A	1038635-NLA	NLA - Sip-N-Puff w/ Digital Interface	1	1
9		See Note	See Footnote	1	1
9		1086241-NLA	NLA - Module, Communication, COM34/AUX34	1	1
10		1049592-NLA	NLA - Kit, COM12/AUX12 and COM34/AUX34 Mounting Hardware	1	1
1			NLA - Half Clamp, Threaded Holes	1	1
2			Half Clamp, Non-Threaded Holes	1	1
3			NLA - Screw, Hex Head (1/4-20 x 1-1/8")	1	2
4			NLA - Fastener, Dual Lock Hook and Loop Adhesive (2" W x 12" L)	1	1
5			NLA - Plate, COM12/AUX12 and COM34/AUX34 Mounting	1	1
11		B,C	1049593	Kit, SNP/DI, MK5 SAC, 4WSB, S4WSB, GTAM, AUX12M6, AUX34M6 Mtg. Hdwr.	1
1			NLA - Half Clamp, Threaded Holes	1	1
2			Half Clamp, Non-Threaded Holes	1	1
3			NLA - Screw, Hex Head (1/4-20 x 1-1/8")	1	2
6			Screw, Phillips Pan Head (#4-40 x 3/8")	1	2
7			Plate, Mounting	1	1
NOTE: A - Mounting hardware includes items 1-5. Item 4 that is packaged with the kit will only be a 4" long "loop" fastener B - Includes items 1-3 and 6-7 C - As of 5/22/07 the Mounting Plate holes and the orientation of the Hardware was revised to attach the electronics closer to the chair. The Mounting Hardware Kit is backward compatible.					

MKIV Recliner Control and Recliner Cable

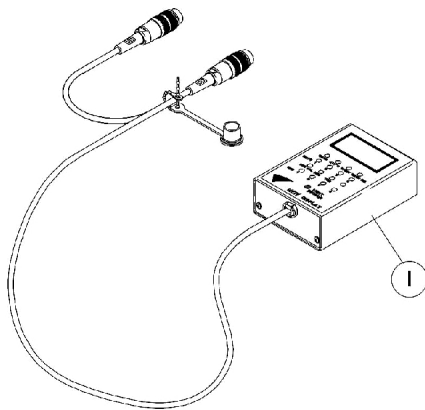
NOTE: Recliner control is not adaptable with 2nd Generation Powered Seating Systems. Actuator damage may occur.



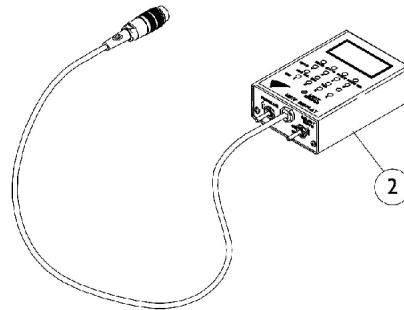
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1054376-NLA	NLA - Control, Recliner	1	1
2		1095501-NLA	NLA - Fastener, Dual Lock Hook and Loop Adhesive (2" W x 12" L)	1	1
3		1098905-NLA	NLA - Cable Assembly, 24 Volt, Anderson/P.T.O.	1	1
	A	1005151-NLA	NLA - Cable, Recliner	1	1

NOTE: A - Not Shown

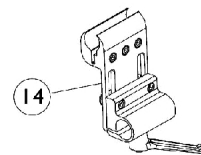
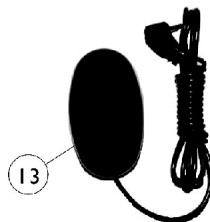
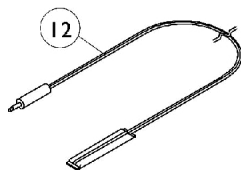
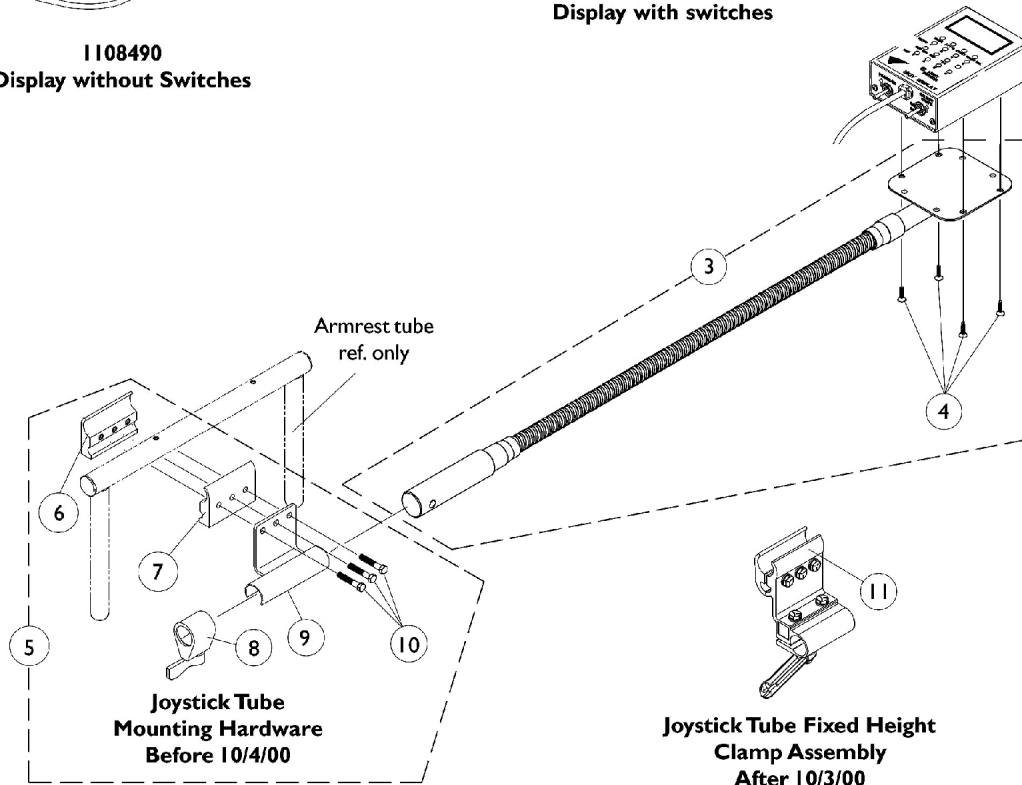
MKIV Displays



I108490
Display without Switches



I108489
Display with switches

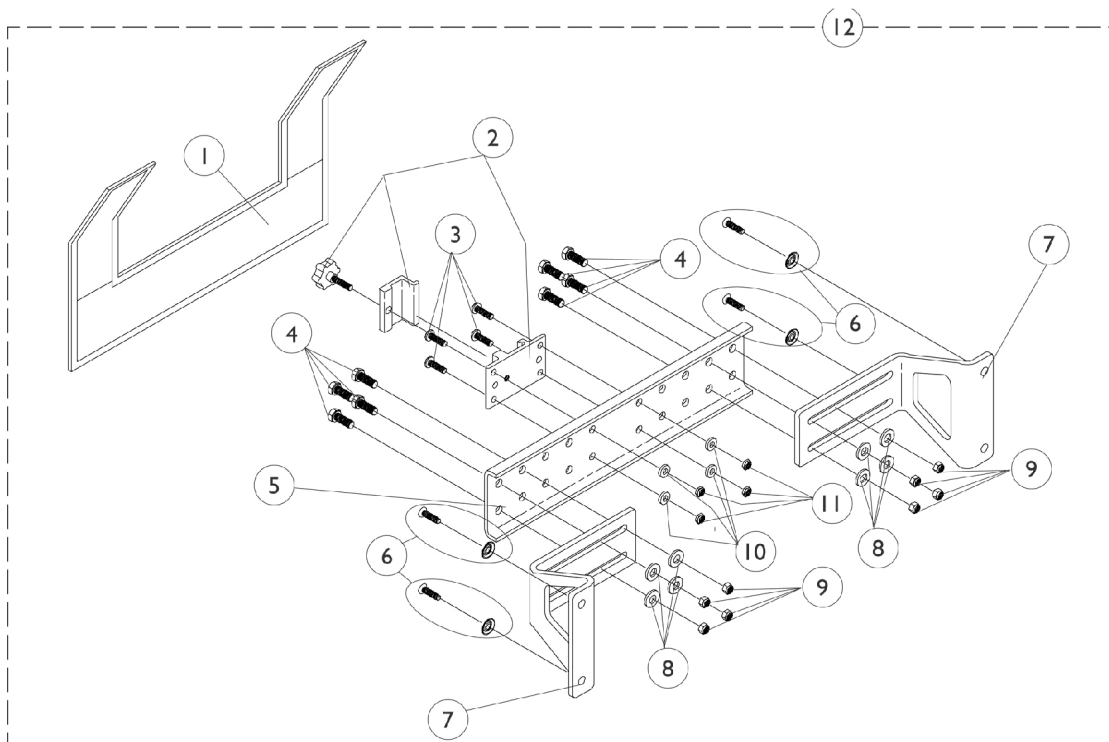


**Joystick Tube Adjustable Height
Clamp Assembly**

MKIV Displays

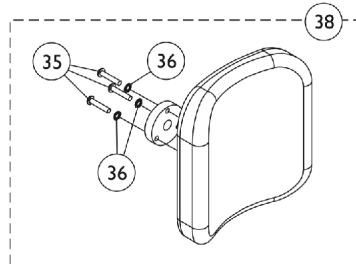
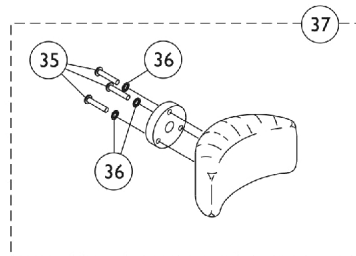
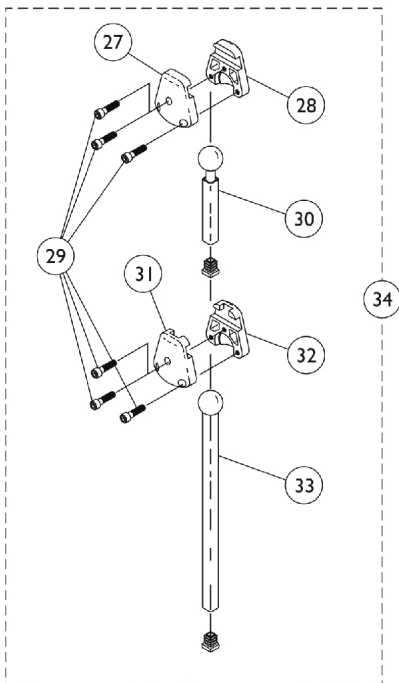
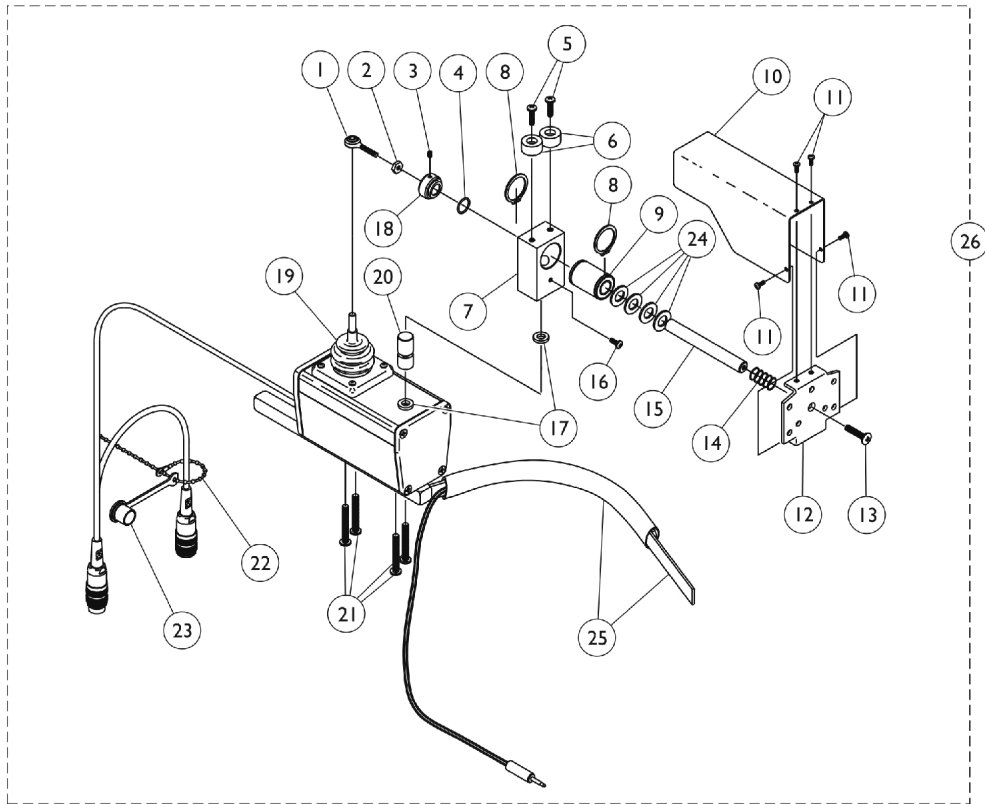
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1108490-NLA	NLA - Display without Switches	1	1
2		1108489	Display with Switches	1	1
3	A	1049594-NLA	NLA - Tube, Flex with Screws	1	1
4		7930339-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
5	B	1049591-NLA	NLA - Hardware, Joystick Tube Mounting	1	1
6		1027267-NLA	NLA - Half Clamp, Threaded Holes	1	1
7		1027266	Half Clamp, Non-Threaded Holes	1	1
8		1027274	Adjustment Lock Assemnbly, Black	1	1
9		1049582-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
10		16690X004-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/8")	1	1
11	C	1093071	Clamp, Fixed Height Joystick Tube	1	1
12	D	1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
13	E	1123276	Kit, Switch, Black Egg Reset w/ Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
14	F	1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
NOTE: A - Includes the Flex Tube and item 4 B - Before 10/4/00 and includes items 6-10 C - After 10/3/00 and can be used as a direct replacement for the Joystick Tube Mounting Hardware part number 1049591 in the field D - Before 5/24/04 E - After 5/23/04 the Egg Reset Switch replaced the Red Flex Ribbon (Tape) Reset Switch F - Can be used to replace a Fixed Height Joystick Tube Clamp in the field.					

MKIV R.I.M. Head Control Mounting Hardware (1500M4)



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1055149	Cover, Nylon	1	1
1		1055151-NLA	NLA - Cover, Nylon	1	1
2		1055148-NLA	NLA - Clamp with Knob, Two-Piece	1	1
3		1003645	Screw, Socket Button Head (#10-32 x 3/4")	1	4
4		7930326-NLA	NLA - Package, Screw, Hex Head (1/4-20 x 3/4")	25	8
5		1054931-NLA	NLA - Bracket, Attaching, Black (12 - 18" W)	1	1
5		1054933-NLA	NLA - Bracket, Attaching, Black (19 - 24" W)	1	1
6		1031095	Screws with Washers (#10-16 x 7/8")	4	1
6		1076284	Screw w/ Washer (#10 x 7/8")	1	4
7		1054929-NLA	NLA - Bracket, Wing, Black	1	2
8		1026907	Washer (1/4 x 1/2 x 1/16")	1	8
9		7930333	Locknut (1/4-20)	25	8
10		1026034-NLA	NLA - Washer, Nylon (3/16 x 7/16 x 1/8")	1	4
11		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	4
12		1056347	Hardware, Rim Control Mounting (RIMHW) (12-18" W)	1	1
12		1056348	Hardware, Rim Control Mounting (RIMHW) (19-24" W)	1	1

MKIV R.I.M. Head Control Assembly (1500M4)



MKIV R.I.M. Head Control Assembly (1500M4)

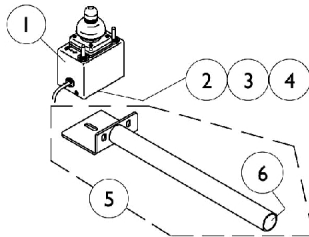
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1001625	Tie Rod End	1	1
2		48095X000-NLA	NLA - Locknut (#10-32)	1	1
3		1025275-NLA	NLA - Screw, Set w/ Patch (#8-32 x 1/4")	1	1
4		2001139	O-Ring (1/2" I.D.)	1	1
5		1028529	Screw, Phillips Pan Head (#8-32 x 3/8")	1	2
6		1055002-NLA	NLA - Washer, Nylon	1	2
7		1056206	Block, Pivot	1	1
8		1054939-NLA	NLA - Ring, Snap	1	2
9		1018113	Bearing, Linear	1	1
10		1055014-NLA	NLA - Shield, Push Rod	1	1
11		1021742	Screw, Phillips Pan Head (#4-40 x 1/2")	1	4
12		1055031-NLA	NLA - Bracket, Headrest Mounting, Black	1	1
13		40127X002-NLA	NLA - Screw, Phillips Oval Head (#10-32 x 3/4")	1	1
14		1055145-NLA	NLA - Spring, Compression (19/32 x 1-1/4 x 1/32")	1	1
15		1055016-NLA	NLA - Rod, Push	1	1
16		1026728-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 1/4")	1	1
17		1010398	Washer, Nylon (1/4 x 1/2 x 1/16")	1	2
18		1025236-NLA	NLA - Collar, Shoulder	1	1
19		50000X364-NLA	NLA - Boot, Joystick	1	1
20		1055017-NLA	NLA - Rod, Pivot	1	1
21		11008X014-NLA	NLA - Screw, Phillips Round Head (#10-32 x 1")	1	4
22		1038256-NLA	NLA - Tie Wrap (4-1/4" L)	1	1
23		1037373-NLA	NLA - Cover, Splash	1	1
24		1003766-NLA	NLA - Washer, Plain (1/2 x 1 x 1/8")	1	4
25		1025271-NLA	NLA - Ribbon Reset Switch and Bracket Assembly	1	1
26	A	1056210E-NLA	NLA - Reconditioned - Joystick, Remote Head	1	1
27		1055023-NLA	NLA - Clamp, Horizontal Pivot	1	1
28		1055024-NLA	NLA - Clamp, Threaded, Horizontal Pivot	1	1
29		1055144-NLA	NLA - Screw, Socket Head (M6 x 1 x 25mm)	1	6
30		1055028	Tube, Slide, Square, Short	1	1
31		1055025-NLA	NLA - Clamp, Vertical Pivot	1	1
32		1055026-NLA	NLA - Clamp, Threaded, Vertical Pivot	1	1
33		1055027-NLA	NLA - Tube, Slide, Square, Long	1	1
34	B	1056213-NLA	NLA - Hardware, Adjustment	1	1
35		1005383	Screw, Socket Button Head (#10-32 x 1")	1	3
36		1027263-NLA	NLA - Washer, Lock Internal Tooth (#10)	1	3
37	C	1056211-NLA	NLA - Kit, Headrest with Hardware, Otto Bock, Small	1	1
38	D	1056212	Kit, Headrest with Hardware, Large	1	1
	E	1056087-NLA	NLA - Screw, Socket Head (#10-32 x 1/2")	1	4

MKIV R.I.M. Head Control Assembly (1500M4)

NOTE: A - Includes items 1-25.
B - Includes items 27-33 and the Plug Buttons that attach to item 30 and 33 Slide Tubes. The Plug Buttons are not saleable.
C - Includes the Headrest Adapter and items 35 and 36.
D - Includes the Headrest Adapter and items 35 and 36. The LaBac Headrest is no longer used as of 12/6/10 that was attached with Screw part # 1056087 (4 ea.). The screw is still available to order for existing LaBac Headrest in the field.
E - Used for existing LaBac Headrest in the field only.

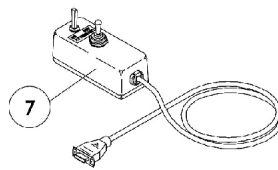
MKIV Joystick Options

REMOTE JOYSTICK



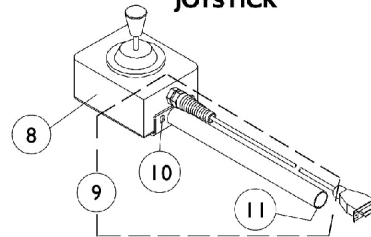
ON CHAIR: 1555M4
OFF CHAIR: 1038634
Used with display w/o switches
1108490

ATTENDANT CONTROL JOYSTICK



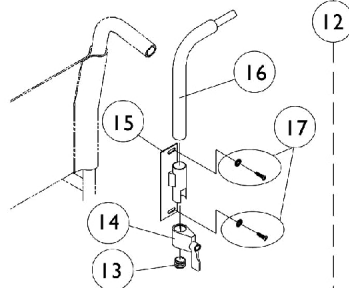
ON CHAIR: 1552M4
OFF CHAIR: 1025590

HEAVY DUTY JOYSTICK



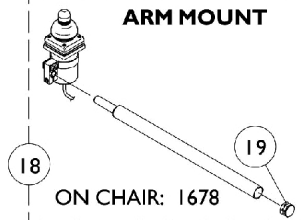
ON CHAIR: 1556M4
OFF CHAIR: 1041544
Used with display w/ switches
1108489

REAR CANE MOUNT



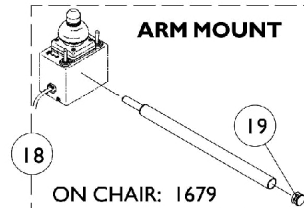
ON CHAIR: 1673

ARM MOUNT



ON CHAIR: 1678

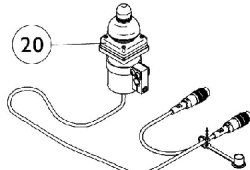
ARM MOUNT



ON CHAIR: 1679

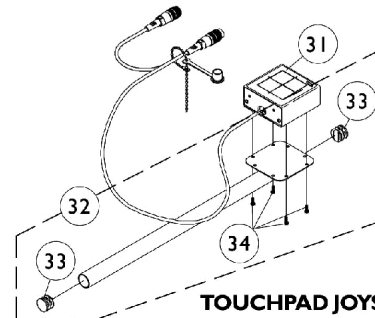
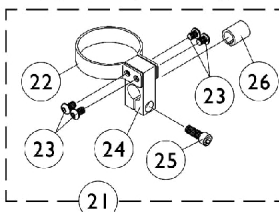
NOTE: Arm mounting tube shown above and additional arm mounting hardware are shipped when the On-Chair model number 1678 or 1679 is ordered.

DUAL/COMPACT JOYSTICK W/ MTG. HARDWARE



ON CHAIR: 1812M4/1558M4
OFF CHAIR: 1038638

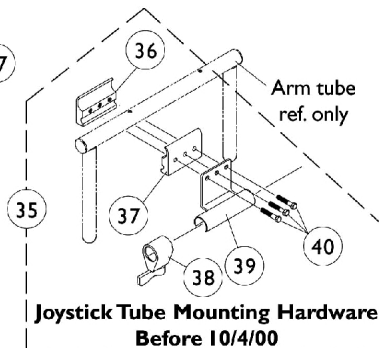
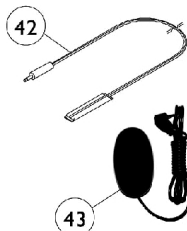
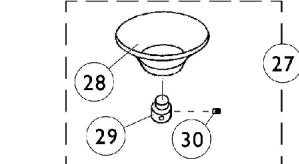
DUAL/COMPACT JOYSTICK MOUNTING HARDWARE



TOUCHPAD JOYSTICK

ON CHAIR: TCPDM4
OFF CHAIR: 1091353

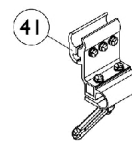
Used with display w/ switches
1108489



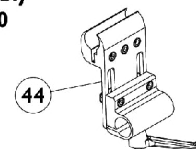
Joystick Tube Mounting Hardware
Before 10/4/00

★ Reset Switch may be required.

Joystick Tube Fixed Height
Clamp Assembly
After 10/3/00



Joystick Tube Adjustable Height
Clamp Assembly



MKIV Joystick Options

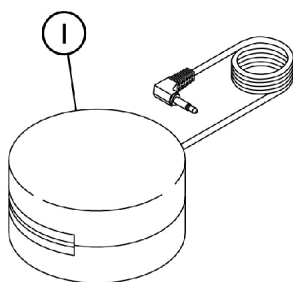
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	N	See Note	See Footnote	1	1
2		1010848-NLA	NLA - Clamp, Universal Swivel	1	1
3		12595X000	Handle, Lock, Chrome	1	1
4		15108X000	Locknut (1/4-20)	1	1
5		1044928-NLA	NLA - Joystick Tube with Plug Button Assembly	1	1
6		1027095	Plug Button, Black (7/8")	1	1
7		1025590	Joystick, Attendant Control (1552M)	1	1
8		1041544-NLA	NLA - Joystick, Heavy Duty	1	1
9	A	1052719-NLA	NLA - Kit, Straight Joystick Tube with Hardware	1	1
10		1016401-NLA	NLA - Screw, Phillips Round Head (#10-32 x 3/8")	1	3
11		1027095	Plug Button, Black (7/8")	1	1
12	B	1044917	Hardware, Rear Cane Mount (1673/RCM)	1	1
13		1027095	Plug Button, Black (7/8")	1	1
14		1027274	Adjustment Lock Assemnbly, Black	1	1
15		1025245-NLA	NLA - Bracket, Upright, Black -Right	1	1
16		1044918-NLA	NLA - Tube, Joystick	1	1
17		1076284	Screw w/ Washer (#10 x 7/8")	2	1
18	C	1052309	Tube, Arm Mount with Plug Button, Black	1	1
19		1027095	Plug Button, Black (7/8")	1	1
20		1038638-NLA	NLA - Joystick, MKIV Dual/Compact	1	1
21	D	1108012	Hardware, Dual/Compact Joystick Clamp Mounting	1	1
22		1025048	Clamp	1	1
23		1021460	Screw, Socket Button Head (#10-32 x 5/16")	1	4
24		1025045-NLA	NLA - Clamp, Mounting	1	1
25		1027089-NLA	NLA - Screw, Socket Head (#10-24 x 1/2")	1	1
26		1026273-NLA	NLA - Spacer, Split (3/8" I.D.)	1	1
27	E	60102524	Kit, Chin Cup Assembly - 1826	1	1
28		1017545	Cup, Chin	1	1
29		1017612-NLA	NLA - Screw, Adaptor	1	1
30		90032X000	Screw, Set Socket Cup Point (#8-32 x 1/4")	1	2
31		1091353-NLA	NLA - Touchpad, Joystick Assembly	1	1
32	F	1092604-NLA	NLA - Kit, Straight Joystick Tube with Hardware	1	1
33		1027095	Plug Button, Black (7/8")	1	2
34		1052041	Screw, Phillips Pan Head (#4-40 x 3/8")	1	4
35	G	1049591-NLA	NLA - Hardware, Joystick Tube Mounting	1	1
36		1027267-NLA	NLA - Half Clamp, Threaded Holes	1	1
37		1027266	Half Clamp, Non-Threaded Holes	1	1
38		1027274	Adjustment Lock Assemnbly, Black	1	1
39		1049582-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
40		16690X004-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/8")	1	3
41	H	1093071	Clamp, Fixed Height Joystick Tube	1	1
42	I	1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
43	J	1123276	Kit, Switch, Black Egg Reset w/ Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1

MKIV Joystick Options

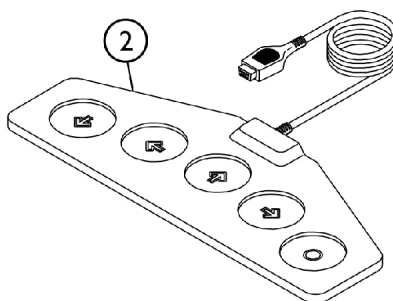
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
44	M	1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
	K	1108490-NLA	NLA - Display without Switches	1	1
	L	1108489	Display with Switches	1	1
NOTE: A - Includes the joystick tube and items 10 and 11 B - Includes items 13-17 C - For On-Chair model numbers 1678 and 1679. Includes the joystick tube and item 19 D - Includes items 22-26 E - Includes items 28-30 F - Includes the joystick tube, items 33 and 34 G - Before 10/4/00 and includes items 36-40 H - After 10/3/00. Individual components are non-saleable. Can be used as a direct replacement in the field for the Joystick Tube Mounting Hardware part number 1049591. I - Before 5/24/04 J - After 5/23/04. The Egg Reset Switch replaced the Red Flex Ribbon (Tape) Reset Switch K - Not Shown and used with the Remote Joystick L - Not Shown and used with the Heavy Duty and Touch Pad Joystick M - Can be used to replace a Fixed Height Joystick Tube Clamp in the field. N - No longer available as a service part in the field.					

Tash and Therafin Accessories

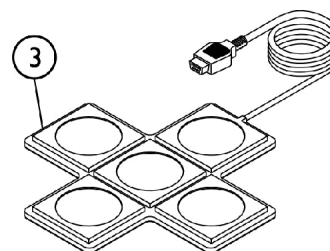
NOTE: For more information on Tash and Therafin products, please contact one of our Rehab Specialists.



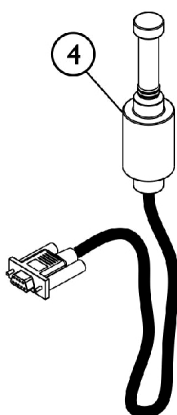
P5820 Red Soft Switch
P5821 Green Soft Switch



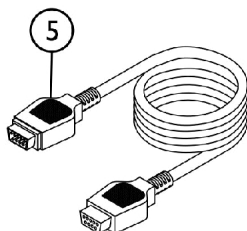
P5018 Wafer Board



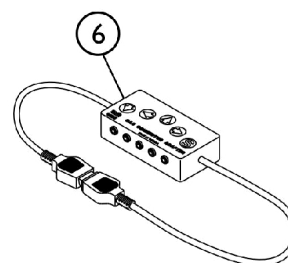
P5026 Star Control



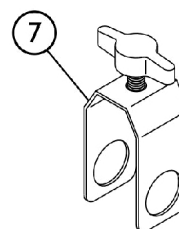
P5020 Mini Joystick with Push



P4337 Multi-Ability Cable



P4353-CA5 Multi-Connector Box



P5970 "U" Clamp

SHEP_090A

Tash and Therafin Accessories

NOTE: For more information on Tash and Therafin products, please contact one of our Rehab Specialists.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		P5820-NLA	NLA - Switch, Red Soft	1	1
1		P5821	NLA - Switch, Green Soft	1	1
2	C	P5018-NLA	NLA - Wafer Board (5018)	1	1
3	C	P5026-NLA	NLA - Star Control	1	1
4	C	P5020-NLA	NLA - Mini Joystick with Push (5020)	1	1
5		P4337-NLA	NLA - Multi-Ability Cable	1	1
6		P4353-NLA	NLA - CA5 Multi-Connector Box	1	1
7		P5970-NLA	NLA - Clamp, "U"	1	1
	B	1142362	Bib Assembly (PKG32669)	1	1
	B	P21456-NLA	NLA - Adaptor Clamp - Tash	1	1
	B	P21457-NLA	NLA - Adaptor Clamp - Invacare	1	1
	B	P21460-NLA	NLA - Midline Swingway System	1	1
	A,B	1140824	Kit, Sip-N-Puff, 16" Fixed (PKG32666) Includes: (3) Air Tube Straws, (2) Saliva Traps, Tubing, Pivot Shaft/Flexible Metal Gooseneck Assembly, and Extruded Figure "8" Clamp to fit 7/8" Wheelchair Frame Tubing. Extruded Back Cane Adapter Clamp.	1	1
	B	1108489	Display with Switches	1	1
NOTE: A - See items included. B - Not Shown C - Must be used with display with switches part #1108489.					

Power Wheelchair Tool Kit

I



**Multimeter
with Leads**



**Grounding
Wire**



**1" Test
Leads**



**Protractor/Angle
Locator**



**Invacare
Pen Light**



**Invacare
Tape Measure**



**Invacare
Phillips/Flat Head
Screwdriver**



MKIV Programmer

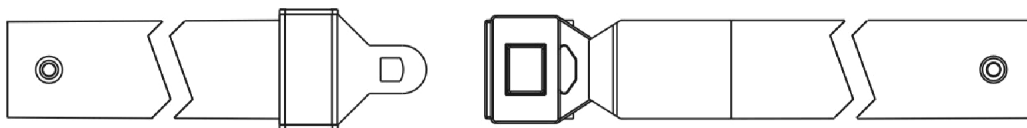


**Virtual Service
Charger Cable**

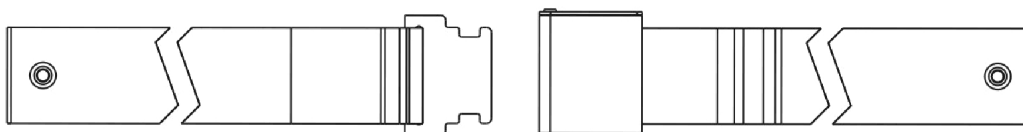
Power Wheelchair Tool Kit

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1125222-NLA	NLA - Kit, Power Wheelchair Tool Includes: 1 ea. Multimeter with Leads 1 ea. Locator, Protractor/Angle Magnetic Base 1 ea. Instructions, MKIV Programmer 1 ea. Wire, Grounding with Hand Strap and Clip 1 ea. Leads, 1" Test 1 ea. Light, Pen with Invacare Logo 1 ea. Tape Measure, Compact with Invacare Logo 1 ea. Screwdriver, Pen-Size Phillips/Flat Head 1 ea. Cable, Virtual Service Charger/Modem	1	1

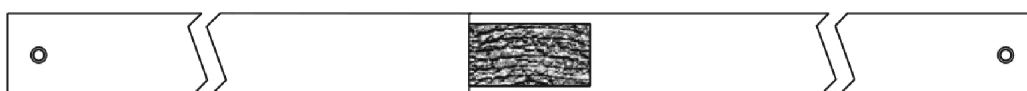
Miscellaneous Accessories



Auto Style Push Button Buckle



Airline Style Buckle Positioning Strap



Hook and Loop Style Buckle Positioning Strap

Miscellaneous Accessories

Positioning Straps

Description	12"-15" Wide	16"-19" Wide	20"-22" Wide	23"-24" Wide
Auto Style Push Button	1036527 Strap, Positioning, Seat/Chest w/ Auto Style Buckle (Eyelet to Eyelet Length 33") See Note(s) A	1004310 Strap, Positioning, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 48")	1034625 Strap, Positioning, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 61")	1034622-NLA NLA - Strap, Positioning, Seat/Chest w/ Auto Style Push Button Buckle (Eyelet to Eyelet Length 69") See Note(s) C
Airline Style	N/A	TAGTS1034751-NLA NLA - Strap, Positioning, Seat/Chest w/ Airline Style Buckle (Eyelet to Eyelet Length 46")	1034752-NLA NLA - Strap, Positioning, Seat/Chest w/ Airline Style Buckle (Eyelet to Eyelet Length 61") See Note(s) E, C	1034753-NLA NLA - Strap, Positioning, Seat/Chest w/Airline Style Buckle (Eyelet to Eyelet Length 70") See Note(s) C
Hook and Loop	N/A	1034745 Strap, Positioning, Seat/Chest w/ Hook and Loop Style Buckle (Eyelet to Eyelet Length 61") See Note(s) B	1034745 Strap, Positioning, Seat/Chest w/ Hook and Loop Style Buckle (Eyelet to Eyelet Length 61") See Note(s) B	1034745 Strap, Positioning, Seat/Chest w/ Hook and Loop Style Buckle (Eyelet to Eyelet Length 61") See Note(s) B
NOTE: A - 12"-15" wide positioning straps come in rainbow color. B - Hook and Loop style positioning strap for power chairs is used for chest positioning only C - 20" wide positioning straps are used with 18" wide captain seats and 23" wide positioning straps are used with a 22" wide captain seat. E - 1034752 Airline Buckle Style is No Longer Available. Use Auto Style part number 1034625 as a replacement.				

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A	40176X010-NLA	NLA - Pump, Tire	1	1
	A	See Chart	Miscellaneous Accessories	1	1
NOTE: A - Not Shown					

Warranty Replacement Parts

Part Number	Description	Quantity per Assembly
1123249E-NLA See Note(s) A	WARR RPLMT - Charger, Battery, 8 Amp, 115VAC (Off Board) Single Mode Round Plug w/ AC Power Line Cord, CTE Corp.	1
NOTE: A - See "Battery Charger and Harnesses (For Charger Bracket - See Frame, Seat Mtg. Hardware)" Category for more information.		

Invacare Corporation

www.invacare.com



Yes, you can.

One Invacare Way
Elyria, Oh USA
44036-2125
800-333-6900

Technical Support
800-832-4707
Florida Technical Support
407-321-5630

Customer Service
800-333-6900

© 2022 Invacare Corporation. All rights reserved. Republication, duplication or modification in whole or in part is prohibited without prior written permission from Invacare. Trademarks are identified by [™] and ®. All trademarks are owned by or licensed to Invacare Corporation or its subsidiaries unless otherwise noted.
(Revised 11/01/22)

Form No. 97-188