

**Storm Series®
Ranger II™
Excel™
R2™ jr.**

FWD

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. 98-289. 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, Yes, you can., the Medallion Design, and Storm Series are registered trademarks; R2, Ranger II, and Excel are trademarks of Invacare Corporation. Dynamic is a registered trademark of Dynamic Controls Limited. 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 - Headrest & Attaching Hardware - Sling Seat Only	139
Accessories - Miscellaneous	141
Accessories - Oxygen Holder Assembly Kit - Captain Seat (After 4/14/03)	146
Accessories - Oxygen Holder Assembly Kit - Captain Seat (Before 4/15/03)	144
Accessories - Oxygen Holder Assembly Kit - Sling Seats Only	148
Accessories - Power Wheelchair Tool Kit	150
Arms - Captain Seat & Hardware	34
Arms - Excel	39
Arms - Ranger II / R2 jr.	36
Battery Boxes & Trays	51
Battery Boxes & Trays - R2 jr. (14" Wide)	53
Battery Chargers & Harness - R2 jr. (14" Wide)	58
Battery Chargers & Harnesses	55
Canes - Back & Attaching Hardware - Sling Seat Only	20
Caster & Forks - Rear	42
Crossbraces - Seat Extensions & Hardware - R2 jr.	16
Crossbraces - Seat Extensions & Hardware - Sling Seat	14
Crossbraces & Hardware - Captain Seat	18
Drive Wheel & Hub Mount (14 x 3")	49
Drive Wheel, 2-Pole Motor & Gearbox (Ranger II Basic, Excel and R2 jr.) (12-1/2 x 2-1/4") ..	44
Drive Wheel, 4-Pole Motor & Gearbox (Ranger II Standard) (12-1/2 x 2-1/4")	46

TABLE of CONTENTS

Description	Page Number
Electronics - COM12 & COM34	130
Electronics - MKIV Controller, Programmer & Attaching Hardware	127
Electronics - MKIV Displays	132
Electronics - MKIV Joystick Mounting Hardware & Joystick Accessories	115
Electronics - MKIV Joystick Options	134
Electronics - MKIV Joysticks - Excel, RII, RX, A, A+, TCHJOY	110
Electronics - MKIV Joysticks - PSF and PSR	113
Electronics - MKIV Mid-Line Swing Bracket Assembly	119
Electronics - MKIV Recliner Control & Recliner Cable	131
Electronics - MKIV Sip-N-Puff/Digital Interface	129
Electronics - MKIV Swivel Joystick Hardware	117
Electronics - Quad Link Assembly (After 4/06/06)	124
Electronics - Quad Link Assembly (Before 4/07/06)	121
Electronics - Tash & Therafin Accessories	137
Frame Finishes, Touch-Up Paint & Upholstery Options	6
Frames - Captain Seat Frame & Actuator Hardware (After 8/31/02)	32
Frames - Captain Seat Frame & Actuator Hardware (Before 9/1/02)	30
Frames - Side & Hardware	12
Front Riggings - Adjustable Flip-Up Removable Footboard (After 2/29/00)	102
Front Riggings - Adjustable Flip-Up Removable Footboard (Before 3/1/00)	99
Front Riggings - Adjustable Heel Loops	108

TABLE of CONTENTS

Description	Page Number
Front Riggings - Calf Pads & Attaching Hardware	89
Front Riggings - Footrest & Legrest Accessories	105
Front Riggings - Footrest Supports - P93M	81
Front Riggings - Footrest Supports - PW93	75
Front Riggings - Footrest Supports - PW93E	77
Front Riggings - Footrest Supports - PW93ST	79
Front Riggings - Legrest Release Handle & Ratchet	87
Front Riggings - Legrest Supports - Articulating - PAS4A/PAL4A	85
Front Riggings - Legrest Supports - P904A	83
Front Riggings - Pivot/ Slide Tube w/ Footplate - PW93ST	93
Front Riggings - Pivot/ Slide Tube w/ Footplate - P904, PAL4A, PAS4A	97
Front Riggings - Pivot/ Slide Tube w/ Footplate - P93M	95
Front Riggings - Pivot/ Slide Tube w/ Footplate - PW93, PW93E	91
Front Riggings - Reference Chart	72
Packaging - Literature - Decals - Sling Seat w/ Shrouds & Captain Seat	10
Packaging - Literature - Decals - Sling Seat w/o Shrouds	8
Seats - Captain (After 8/31/02)	28
Seats - Captain (Before 9/1/02)	25
Seats - Solid Folding & Inserts	23
Shroud Covers (After 2/29/00)	64
Shroud Covers (Before 3/1/00)	60

TABLE of CONTENTS

Description	Page Number
Shroud Covers R2 jr. (After 2/29/00)	70
Shroud Covers R2 jr. (Before 3/1/00)	68
Upholstery - Seat and Back	21
Warranty Replacement Parts	152

Frame Finishes, Touch-Up Paint & 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
30P	1031448-NLA	.6 oz.	Sunny Yellow
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 Paint & Upholstery Options

Sparkle Frame Finishes

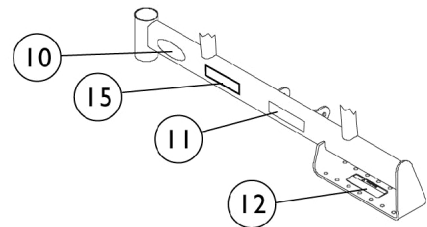
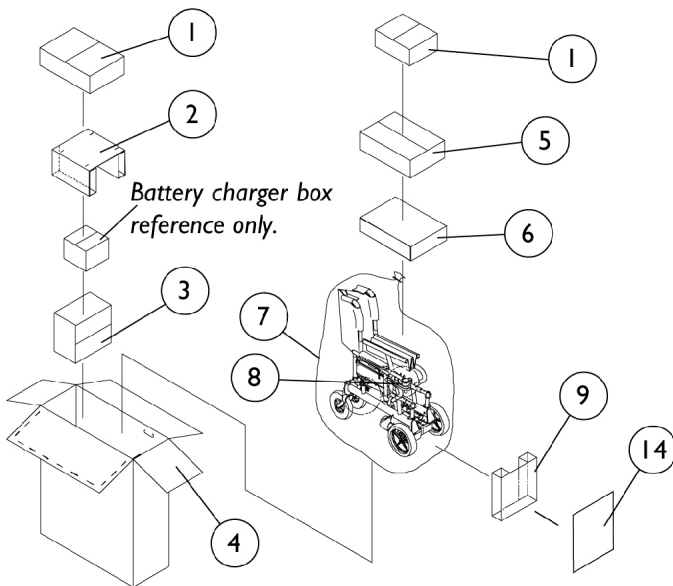
Color Number	Color
72P	Twilight Sparkle
73P	Gold Sparkle
74P	Green Sparkle
75P	Blue Sparkle
76P	Red Sparkle
88P	Wet Black with Twilight Sparkle

Upholstery Options

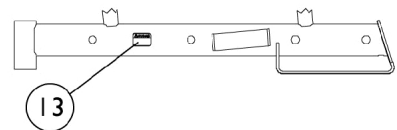
Vinyl Colors	Nylon Colors
U67 Black	U240 Black
U75 Dove Grey	
U85 Dark Blue	
U86 Ruby	
U97 Sky Blue	
U88 Camel	

Packaging - Literature - Decals

Sling Seat w/o Shrouds



Right/Left Outside of Frame



Left Inside of Frame

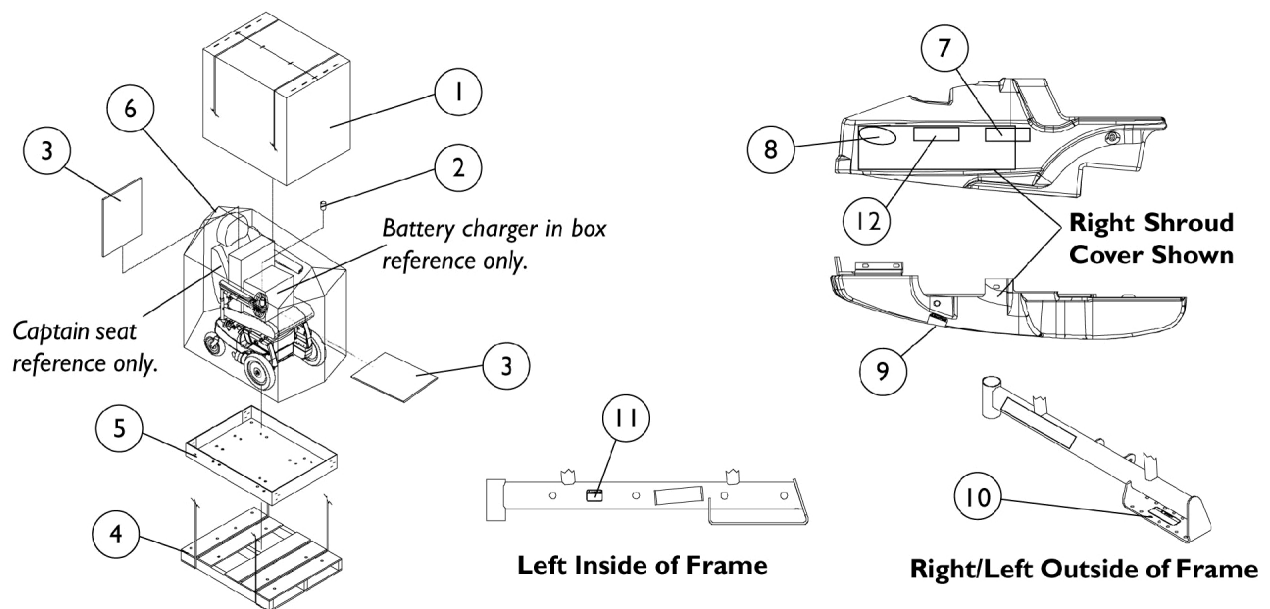
Packaging - Literature - Decals

Sling Seat w/o Shrouds

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		40131X148-NLA	NLA - Carton, Hardware	1	1
2		1074356-NLA	NLA - Insert, Carton	1	1
3		1023167-NLA	NLA - Carton, Battery Boxes	1	1
4		1074355-NLA	NLA - Carton	1	1
5		40131X011-NLA	NLA - Carton, Front Riggings	1	1
6		1058833-NLA	NLA - Carton	1	1
7		1015592	Bag, Poly (72" L x 35" W x 19" D)	1	1
8		1043198-NLA	NLA - Tube, Paper	1	1
9		1080739-NLA	NLA - Insert, Carton	1	1
10	A	1090146-NLA	NLA - Decal, Invacare 3-D Logo (1-19/32" L)	1	2
11	A,B	1095224-NLA	NLA - Decal, Model, Black - Ranger II	1	2
11	A	1095225-NLA	NLA - Decal, Model, White - Ranger II	1	2
11	A,B	1095232-NLA	NLA - Decal, Model, Black - Excel	1	2
11	A	1095233	Decal, Model, White - Excel	1	2
11		1090273-NLA	NLA - Decal, Model - R2 Junior	1	2
12		1080267-NLA	NLA - Decal, Warning Motor	1	2
13		1080266-NLA	NLA - Decal, Warning Controller	1	1
14	D	40131X039-NLA	NLA - Insert, Carton	1	1
15		1097104-NLA	NLA - Decal - 250-S	1	2
	C	1080265-NLA	NLA - Decal, FWD	1	2
	C	1065145-NLA	NLA - Decal, Virtual Service	1	2
	C	1035900	Decal, Transportation	1	1
	C	1119281-NLA	NLA - Plate, Name, Patent Numbers	1	1
	C,E	1095272-NLA	NLA - Instruction Manual, MKIV RII	1	1
	C	1080722-NLA	NLA - Owner's Manual - Ranger II and R2 jr.	1	1
	C	1080737-NLA	NLA - Owner's Manual - P9000 and Excel	1	1
NOTE: A - Invacare logo added and model decals changed 1/11/00. When replacing side frames before 1/11/00 order decals in pairs to match. B - Used for chairs with frame colors 02P, 29P, 30P, and 84P only. C - Not Shown D - R2 jr. E - 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. NOTE: When adjusting or replacing parts, please refer to the Owner's Manual for assistance.					

Packaging - Literature - Decals

Sling Seat with Shrouds and Captain Seat



Packaging - Literature - Decals

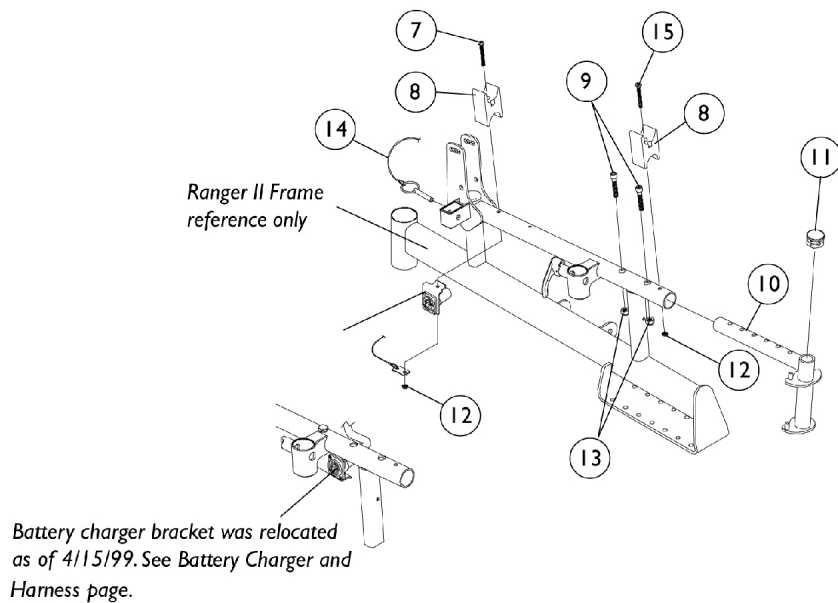
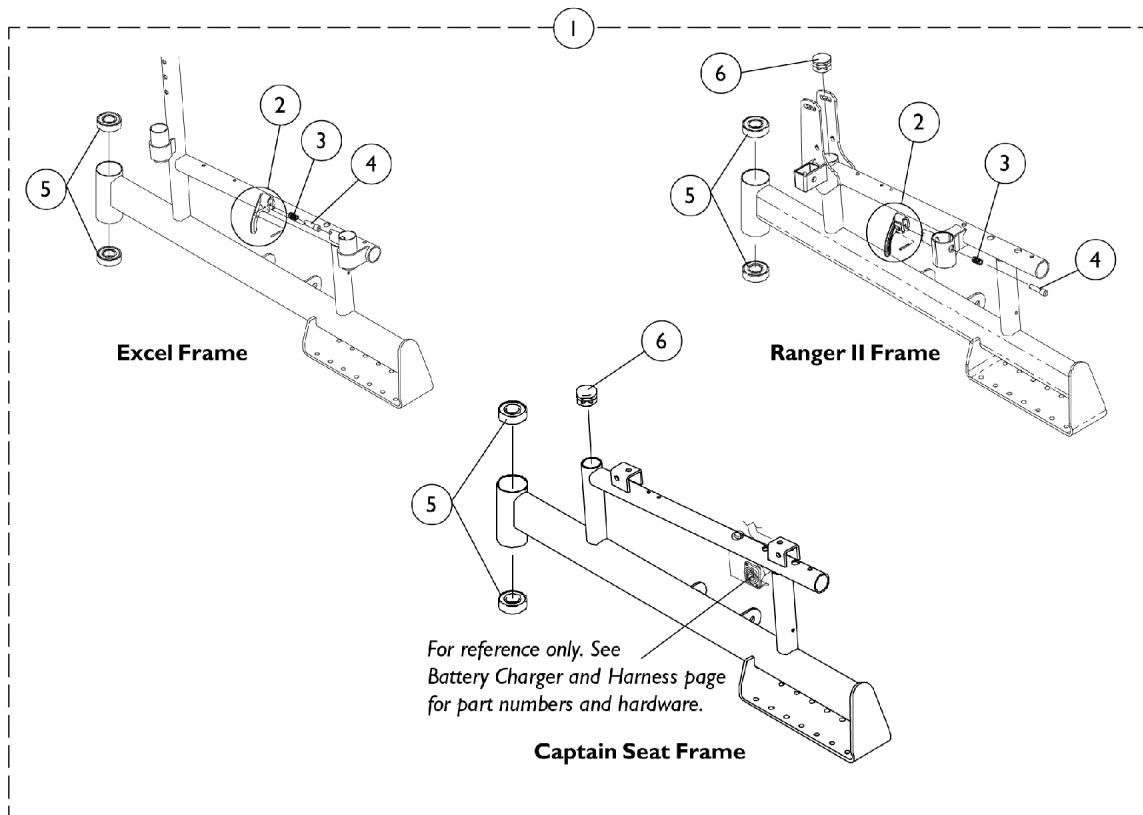
Sling Seat with Shrouds and Captain Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1030364	Carton, Cover	1	1
1	C	1031682	Carton, Cover	1	1
2		1043198-NLA	NLA - Tube, Paper	1	1
3		40131X161	Insert, Plain Pad	1	1
4	E	See Note	See Footnote	--	--
5		1030362	Carton, Tray	1	1
6		1015592	Bag, Poly (72" L x 35" W x 19" D)	1	1
7	A	1095225-NLA	NLA - Decal, Model, White - Ranger II	1	2
7	A	1095233	Decal, Model, White - Excel	1	2
7		1090273-NLA	NLA - Decal, Model - R2 Junior	1	2
8	A	1095489	Decal, Invacare 3-D Logo (2-1/2" L)	1	2
9	C	1076575-NLA	NLA - Decal, Caution, Limit Switch	1	1
10		1080267-NLA	NLA - Decal, Warning Motor	1	2
11		1080266-NLA	NLA - Decal, Warning Controller	1	1
12		1097104-NLA	NLA - Decal - 250-S	1	2
	B	1080265-NLA	NLA - Decal, FWD	1	2
	B	1065145-NLA	NLA - Decal, Virtual Service	1	2
	B	1035900	Decal, Transportation	1	1
	B	1119281-NLA	NLA - Plate, Name, Patent Numbers	1	1
	B,F	1095272-NLA	NLA - Instruction Manual, MKIV RII	1	1
	B	1080722-NLA	NLA - Owner's Manual - Ranger II and R2 jr.	1	1
	B	1080737-NLA	NLA - Owner's Manual - P9000 and Excel	1	1
	B	1085398-NLA	NLA - Service Manual - Ranger II & R2 jr.	1	1
	B	1085397-NLA	NLA - Service Manual - Excel	1	1

NOTE: A - Invacare logo added and model decals changed 1/11/00. When replacing shrouds before 1/11/00 order decals in pairs to match.
 B - Not Shown.
 C - Used on High Back Captain Seats Only.
 D - Sling Seat and Low Back Captain Seat.
 E - Wooden skid is not provided.
 F - 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.

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

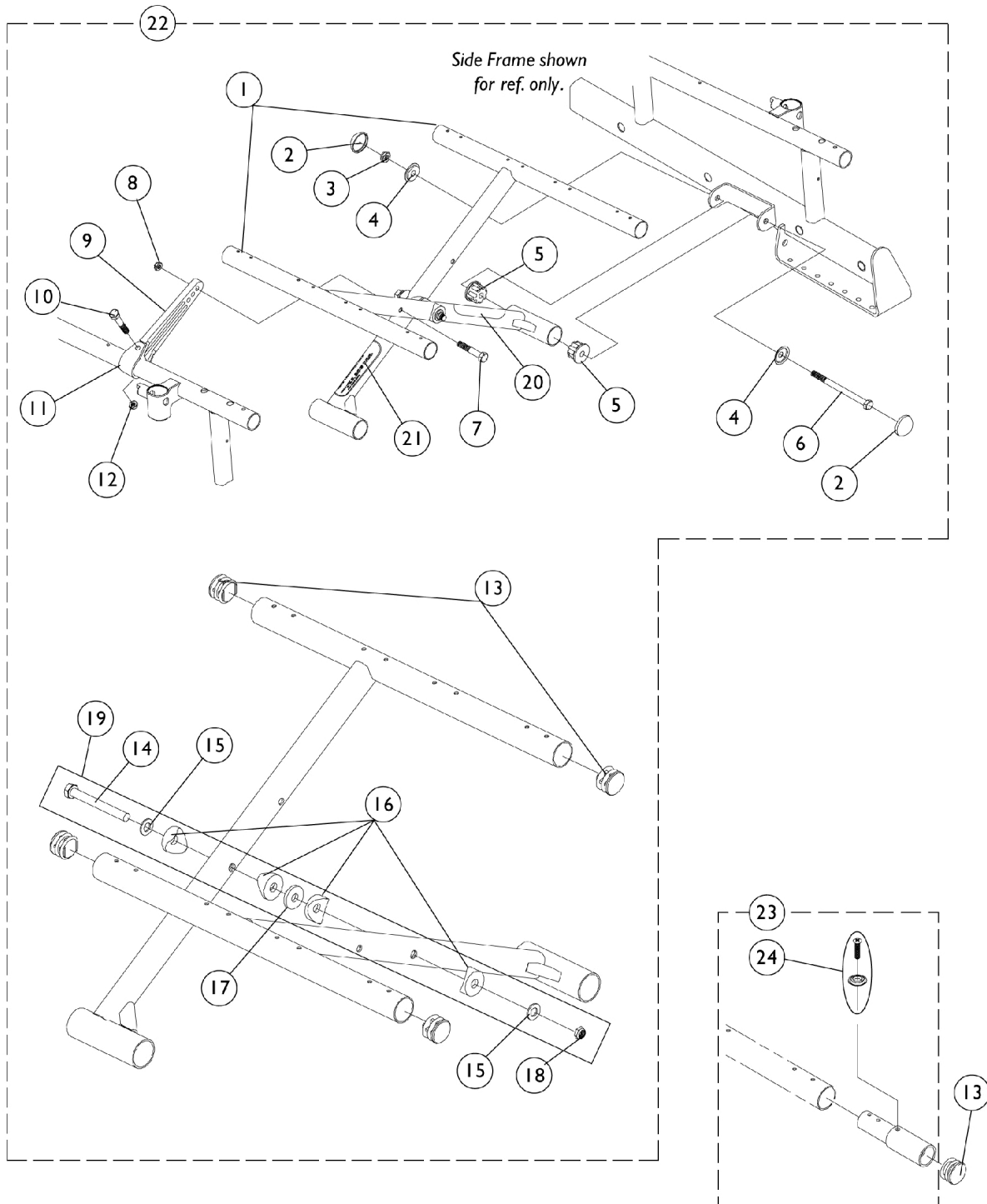
Side Frames & Hardware



Side Frames & Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,B,C	8881080260-NL A	NLA - Frame, Side with Hardware, Color - Right	1	2
1	A,B,C	8881080261-NL A	NLA - Frame, Side with Hardware, Color - Left	1	2
1	A,B,D	8881080734-NL A	NLA - Frame, Side with Hardware, Color - Right	1	2
1	A,B,D	8881080735-NL A	NLA - Frame, Side with Hardware, Color - Left	1	2
1	A,B,E	8881085258-NL A	NLA - Frame, Side with Hardware, Color - Right	1	2
1	A,B,E	8881085259-NL A	NLA - Frame, Side with Hardware, Color - Left	1	2
2		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
3		47471X074	Spring, Arm Lock	1	2
4		1028594	Pin, Arm Lock, Black	1	2
5		40117X006	Bearing (5/8")	1	4
6		1029501	Plug Button, Black (1")	1	2
7		1085124-NLA	NLA - Screw, Socket Flat Head (#10-32 x 1-3/4")	1	4
8		1007541	Clamp, Seat	1	4
9		7930304-NLA	NLA - Screw, Socket Head (1/4-20 x 1-1/4")	25	1
10		1060099-NLA	NLA - Hanger, Front Rigging, Black - Right	1	2
10		1060100-NLA	NLA - Hanger, Front Rigging, Black - Left	1	2
11		1027097	Plug Button, Black (3/4")	1	2
12		1025731	Locknut (#10-32)	1	3
13		7930333	Locknut (1/4-20)	25	1
14		1068039	Pin, Pull	1	2
15		1085134-NLA	NLA - Screw, Socket Flat Head (#10-32 x 1-5/8")	1	2
NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - Decals not included with frames. See page titled, "Packaging, Literature and Decals." C - Ranger II. D - Excel. E - Captain Seat.					

Crossbraces, Seat Extensions & Hardware Sling Seat



Crossbraces, Seat Extensions & Hardware Sling Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080244-NLA	NLA - Crossbrace Assembly, Black - Right (16" W)	1	2
1	A	1080245-NLA	NLA - Crossbrace Assembly, Black - Left (16" W)	1	2
1	A	1080246-NLA	NLA - Crossbrace Assembly, Black - Right (18" W)	1	2
1	A	1080247-NLA	NLA - Crossbrace Assembly, Black - Left (18" W)	1	2
1	A	1080248-NLA	NLA - Crossbrace Assembly, Black - Right (20" W)	1	2
1	A	1080249-NLA	NLA - Crossbrace Assembly, Black - Left (20" W)	1	2
2		1028835-NLA	NLA - Cap, Hub, Black	1	4
3		7930363-NLA	NLA - Package, Locknut (5/16"-24)	25	1
4		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
5		1056708-NLA	NLA - Plug, Pivot Tube	1	4
6		1038179-NLA	NLA - Screw, Hex Head (5/16-24 x 4-1/4")	1	2
2-6	B,C	1057830-NLA	NLA - Hardware, Crossbrace Pivot Tube	2	1
7		1024793-NLA	NLA - Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		7930333	Locknut (1/4-20)	25	1
9		1057382-NLA	NLA - Link, Pivot, Hemi, Black (16 - 18" W)	1	2
9		1057383-NLA	NLA - Link, Pivot, Hemi, Black (19 - 20" W)	1	2
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
11		1057828-NLA	NLA - Strap, Pivot Link	1	2
12		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
13		1029501	Plug Button, Black (1")	1	4
14		1025705-NLA	NLA - Screw, Hex Head (5/16-24 x 3-1/4")	1	1
15		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
16		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
17		7930313	Package, Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
18		7930330-NLA	NLA - Locknut (5/16-24)	25	1
19	D	1086180-NLA	NLA - Hardware, Crossbrace Center Bolt Attaching	1	1
20		1035900	Decal, Transportation	1	1
21		1119281-NLA	NLA - Plate, Name, Patent Numbers	1	1
22	F,G	1080728-NLA	NLA - Hardware, Crossbrace	1	1
23	H	1058616-NLA	NLA - Kit, Seat Extension - 1" (Pair)	2	1
23	I	1058617	Kit, Seat Extension - 2" (Pair)	2	1
24		1026298	Package, Screw with Washer (#10 x 7/8") (Pair)	2	1
24		1076284	Screw w/ Washer (#10 x 7/8")	1	2
24	E	40163X003-NLA	NLA - Screw, Phillips Pan Head (#10 X 5/8")	1	2

NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals."

B - Not Shown.

C - Includes Items 2-6.

D - Includes items 14-18.

E - Solid Folding Seats Only.

F - Less items 1-9.

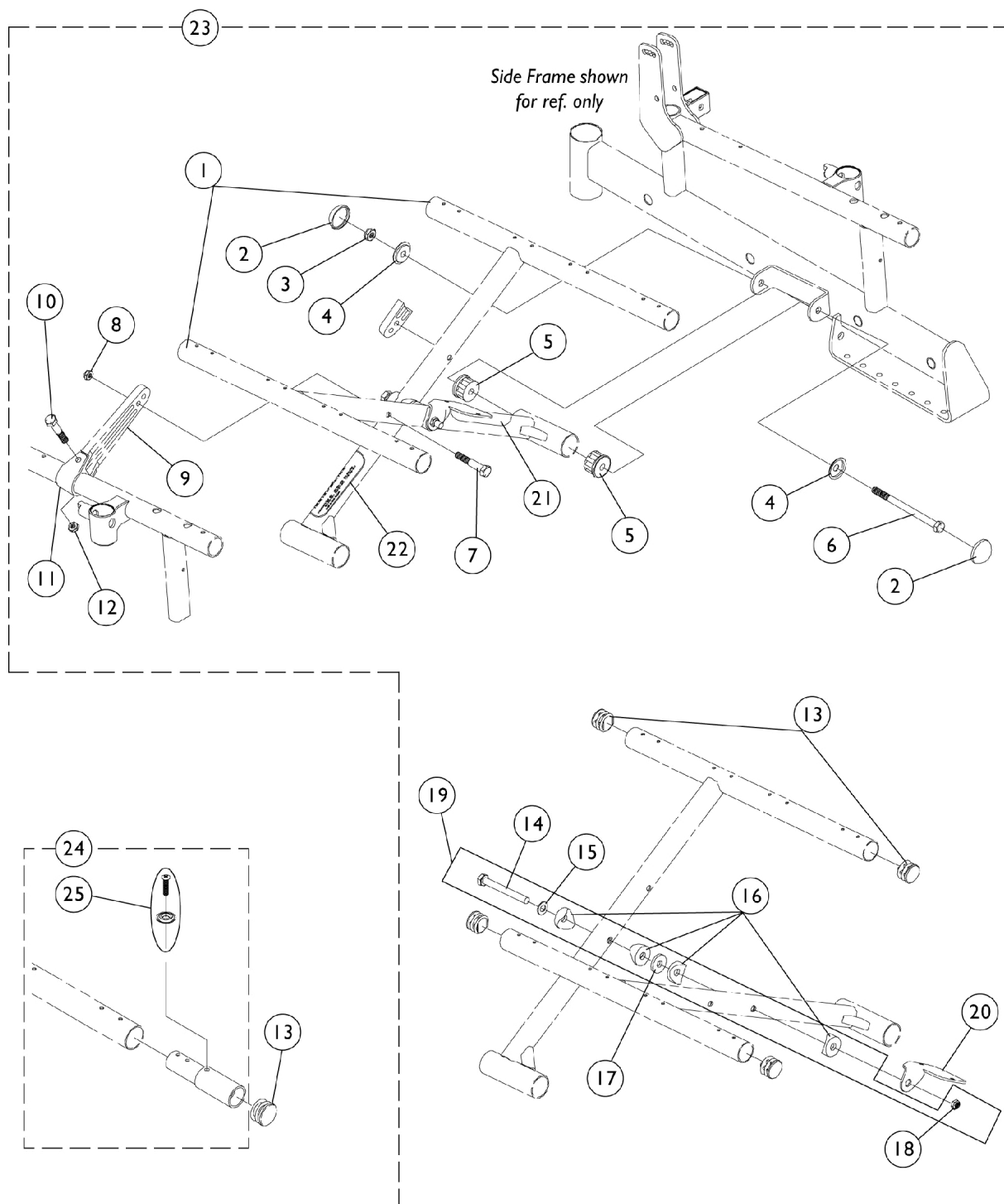
G - Includes items 2-8, 10-18, 20 and 21.

H - For 17" Depth.

I - For 18" Depth.

Crossbraces, Seat Extensions and Hardware

R2 jr. - 14" Wide - Sling Seat

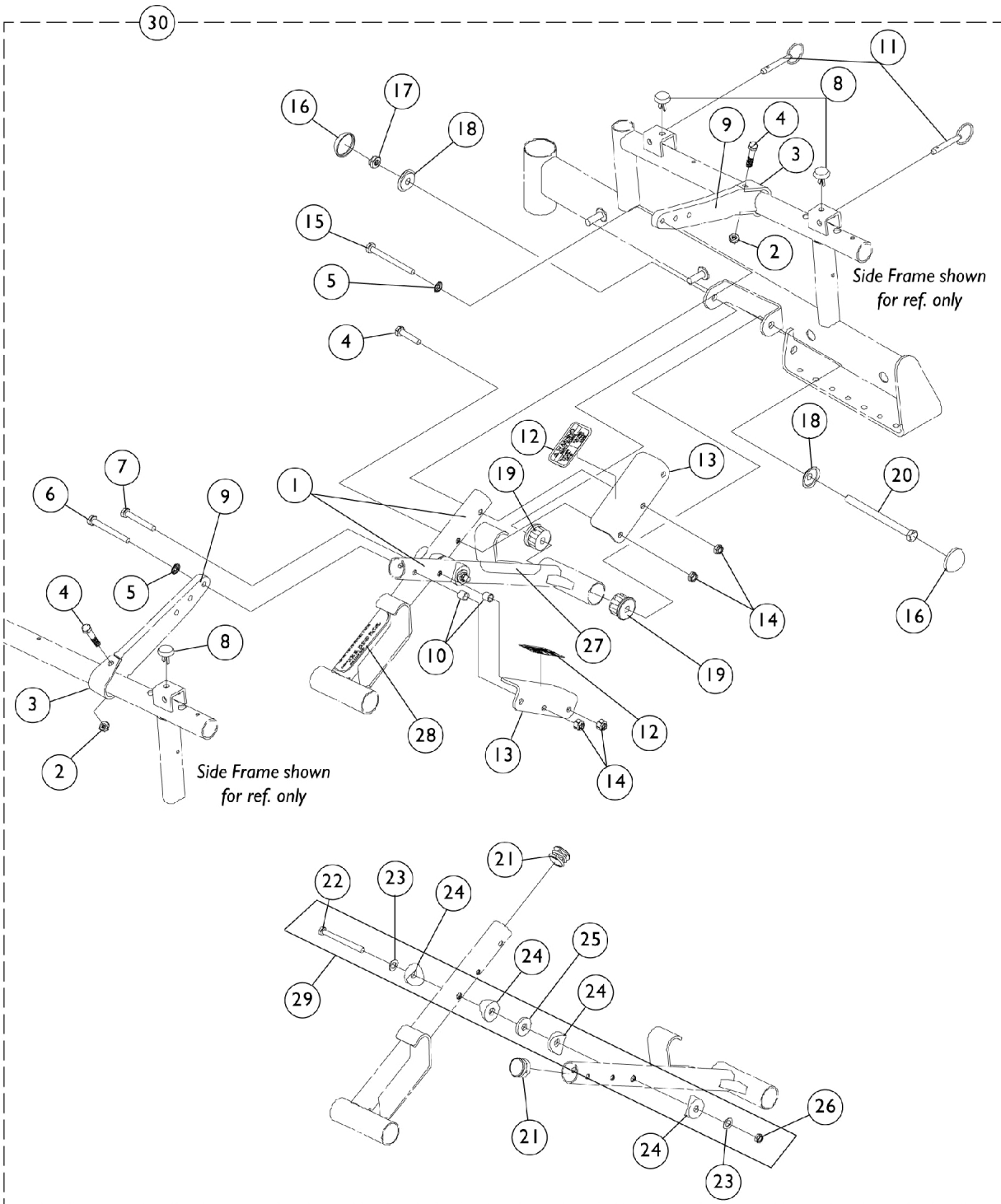


Crossbraces, Seat Extensions and Hardware

R2 jr. - 14" Wide - Sling Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1080253-NLA	NLA - Crossbrace Assembly, Black - Right (14" W)	1	2
1	A	1080254-NLA	NLA - Crossbrace Assembly, Black - Left (14" W)	1	2
2		1028835-NLA	NLA - Cap, Hub, Black	1	4
3		7930363-NLA	NLA - Package, Locknut (5/16"-24)	25	1
4		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
5		1056708-NLA	NLA - Plug, Pivot Tube	1	4
6		1038179-NLA	NLA - Screw, Hex Head (5/16-24 x 4-1/4")	1	2
2-6	B,E	1057830-NLA	NLA - Hardware, Crossbrace Pivot Tube	2	1
7		1024793-NLA	NLA - Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		7930333	Locknut (1/4-20)	25	1
9		1057381-NLA	NLA - Link, Pivot, Hemi, Black (14 - 15" W)	1	2
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
11		1057828-NLA	NLA - Strap, Pivot Link	1	2
12		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
13		1029501	Plug Button, Black (1")	1	4
14		1025705-NLA	NLA - Screw, Hex Head (5/16-24 x 3-1/4")	1	1
15		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	1
16		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
17		7930313	Package, Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
18		7930330-NLA	NLA - Locknut (5/16-24)	25	1
19	C	1086180-NLA	NLA - Hardware, Crossbrace Center Bolt Attaching	1	1
20		1086176-NLA	NLA - Bracket, Wire Connector Support, Black	1	1
21		1035900	Decal, Transportation	1	1
22		1119281-NLA	NLA - Plate, Name, Patent Numbers	1	1
23	D	1086177-NLA	NLA - Hardware, Crossbrace	1	1
24	F	1058616-NLA	NLA - Kit, Seat Extension - 1" (Pair)	2	1
24	G	1058617	Kit, Seat Extension - 2" (Pair)	2	1
25		1026298	Package, Screw with Washer (#10 x 7/8") (Pair)	2	1
25		1076284	Screw w/ Washer (#10 x 7/8")	1	2
NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals." B - Not Shown. C - Includes Items 14-18. D - Includes Items 2-8, 10-18, 20-22, Less Items 1 and 9. E - Includes Items 2-6. F - For 17" Depth. G - For 18" Depth.					

Crossbraces & Hardware Captain Seat



Crossbraces & Hardware

Captain Seat

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1086798-NLA	NLA - Crossbrace, Captain Seat, Black - Right (18" W)	1	2
1	A	1086799-NLA	NLA - Crossbrace, Captain Seat, Black - Left (18" W)	1	2
2		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
3		1057828-NLA	NLA - Strap, Pivot Link	1	2
4		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	2
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	2
6		1026154-NLA	NLA - Screw, Hex Head (1/4-20 x 2-1/4")	1	1
7		1024793-NLA	NLA - Screw, Hex Head (1/4-20 x 1-3/4")	1	2
8		1071604-NLA	NLA - Bumper, Nylon	1	4
9		1057382-NLA	NLA - Link, Pivot, Hemi, Black (16 - 18" W)	1	2
10		1031884-NLA	NLA - Bushing, Black or Color Chairs (9/32 x 3/8 x 11/32")	1	2
11		1071602-NLA	NLA - Pin, Anchor (Captain Seat)	1	4
12		1074142-NLA	NLA - Decal, Crossbrace	1	2
13	A	1086800-NLA	NLA - Bracket, Push, Black	1	2
14		7930333	Locknut (1/4-20)	25	1
15		1024796-NLA	NLA - Screw, Hex Head (1/4-20 x 2")	1	1
16		1028835-NLA	NLA - Cap, Hub, Black	1	4
17		7930363-NLA	NLA - Package, Locknut (5/16"-24)	25	1
18		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	4
19		1056708-NLA	NLA - Plug, Pivot Tube	1	4
20		1038179-NLA	NLA - Screw, Hex Head (5/16-24 x 4-1/4")	1	2
16-20	B,C	1057830-NLA	NLA - Hardware, Crossbrace Pivot Tube	2	1
21		1029501	Plug Button, Black (1")	1	2
22		1025705-NLA	NLA - Screw, Hex Head (5/16-24 x 3-1/4")	1	1
23		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
24		1016263	Spacer, Coved (3/4 x 1 x 1/2")	1	4
25		7930313	Package, Washer, Nylon (5/16 x 7/8 x 1/8")	25	1
26		7930330-NLA	NLA - Locknut (5/16-24)	25	1
27		1035900	Decal, Transportation	1	1
28		1119281-NLA	NLA - Plate, Name, Patent Numbers	1	1
29	D	1086180-NLA	NLA - Hardware, Crossbrace Center Bolt Attaching	1	1
30	E	1082683-NLA	NLA - Hardware, Crossbrace	1	1

NOTE: A - Decals not included with frames. See page titled, "Packaging, Literature and Decals."

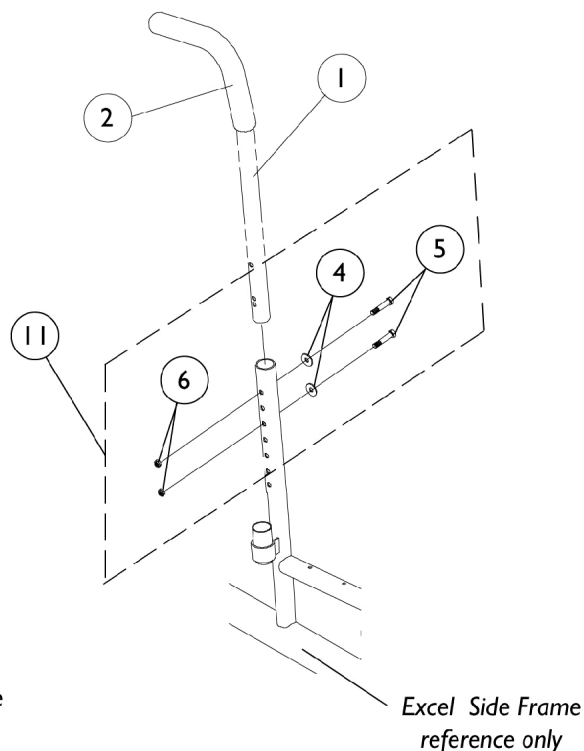
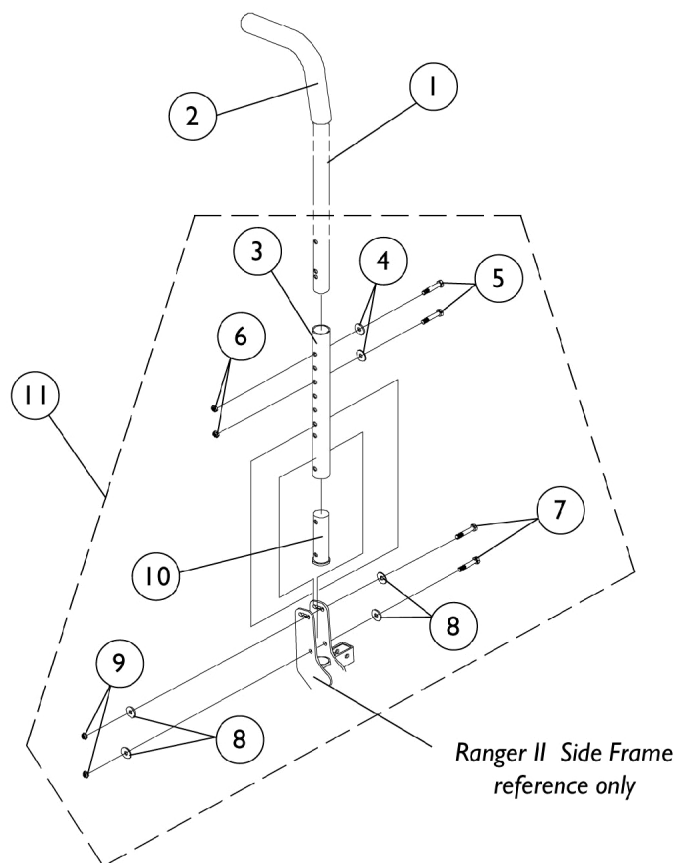
B - Not Shown.

C - Includes Items 16-20.

D - Includes Items 22-26.

E - Includes Items 2-8 and 10-28. Less items 1 and 9.

Back Canes & Attaching Hardware Sling Seat Only



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1028372	Back Cane Assembly, 10 Degree Bend	1	2
2		1006229	Grip, Foam (8")	1	2
3		1071565-NLA	NLA - Tube, Rear Upright, Black	1	2
4		1026907	Washer (1/4 x 1/2 x 1/16")	1	4
5		1057955	Screw, Hex Head (1/4-20 x 1-1/4")	1	4
6		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
7		1055348	Screw, Hex Head (1/4-28 x 1-3/4")	1	4
8		1026900	Washer (1/4 x 23/32 x 1/16")	1	8
9		7930345	Locknut (1/4-28)	25	1
10		1071488-NLA	NLA - Insert, Threaded	1	2
11	A	1079389-NLA	NLA - Hardware, Back Cane Mounting, Ranger II (Pair)	2	1
11	B	1057956-NLA	NLA - Hardware, Back Cane Mounting, Excel (Pair)	2	1

NOTE: A - Includes items 3-10.
B - Includes Items 4-6.

Seat and Back Upholstery

Seat Upholstery - Nylon Standard on RII and Excel

Width	16" Deep	17" Deep	18" Deep
14" W	1016315	1016316-NLA	1016317-NLA
16" W	1016321	1016322-NLA	1016323-NLA
18" W	1016327	1016328	1016329
20" W	1017643	1017646-NLA	1017649

Seat Upholstery - Vinyl (Option on RII and Excel)

Width	16" Deep	17" Deep	18" Deep
14" W	8881024417-NLA See Note(s) A	8881024418-NLA See Note(s) A	8881024419-NLA See Note(s) A
16" W	8881024423-NLA See Note(s) A	8881024424-NLA See Note(s) A	8881024134-NLA See Note(s) A
18" W	8881024132-NLA See Note(s) A	8881024137-NLA See Note(s) A	8881024138-NLA See Note(s) A
20" W	8881024129-NLA See Note(s) A	8881024141-NLA See Note(s) A	8881024142-NLA See Note(s) A

NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paints and Upholstery Options."

Seat and Back Upholstery

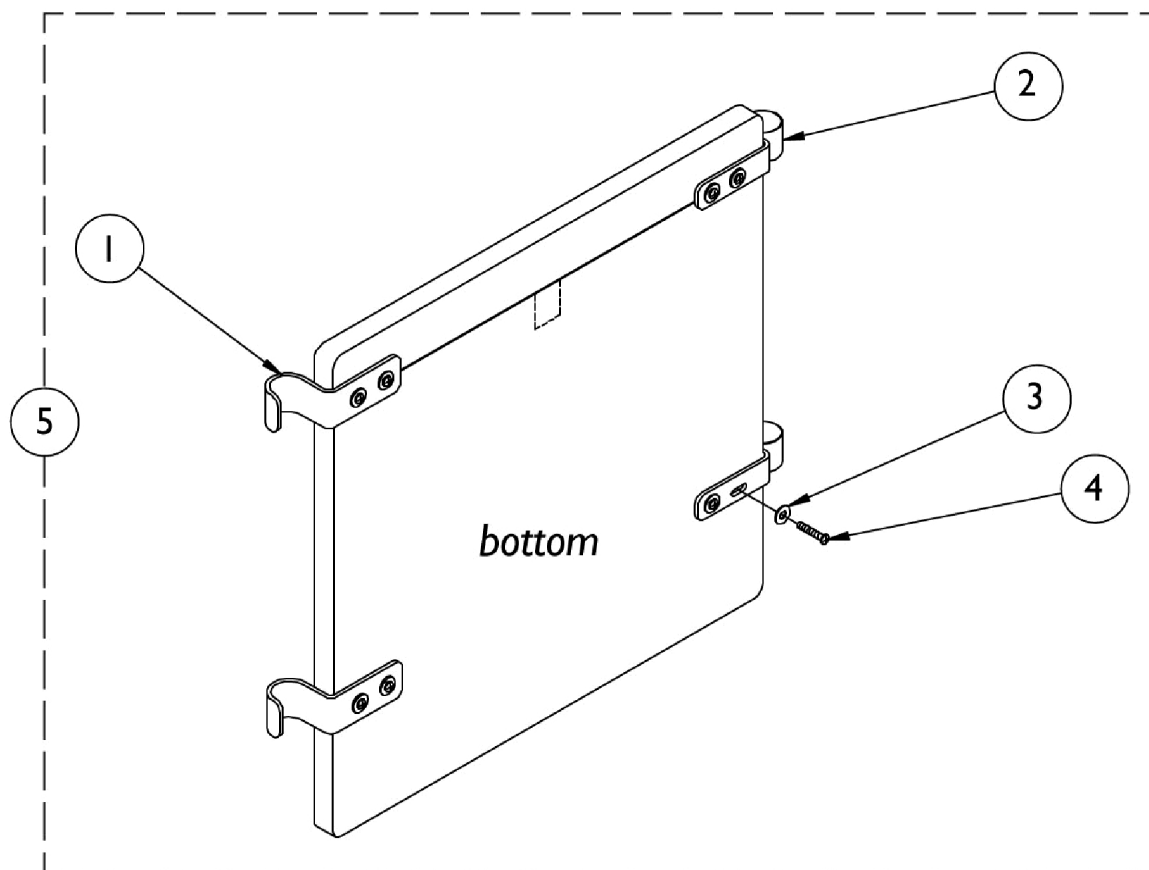
Back Upholstery

Width	Nylon	Vinyl
14" W	1060611-NLA	8881058352-NLA See Note(s) A, B
16" W	1060612	8881058353-NLA See Note(s) A, B
18" W	1060613	8881058354-NLA See Note(s) A, B
20" W	1060614	8881058355-NLA See Note(s) A, B
NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paints and Upholstery Options." B - Vinyl is optional on RII and Excel models		

Attaching Hardware - Back and Seat Upholstery

Back Upholstery Hardware	Seat Upholstery Hardware
1029850	1057950
Package consists of: (2) ea. Screw with Washer (10 x 7/8") (2) ea. Cable Ties	Package consists of: (8) ea. Screw with Washer (10 x 7/8")

Solid Folding Seats & Inserts



Solid Folding Seats

Solid Folding Seats & Inserts

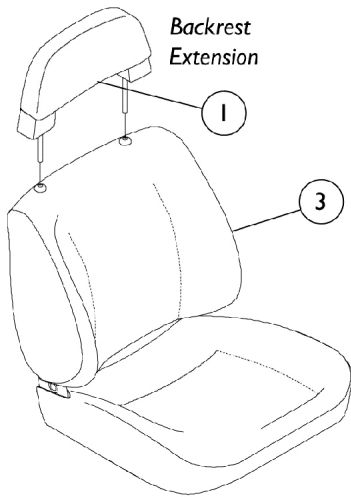
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1016771-NLA	NLA - Hook, Seat	1	2
2		1016770-NLA	NLA - Bracket, Seat, Chrome	1	2
3		1013218	Washer (#10 Flat)	1	8
4		7930360-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
5	A	8881110378-NLA	NLA - Solid Folding Seat w/ Hardware, Vinyl (16" W x 16" D)	1	1
5	A	8881110379	Solid Folding Seat w/ Hardware, Vinyl (18" W x 16" D)	1	1
5	A	8881110372	Solid Folding Seat w/ Hardware, Nylon (20" W x 16" D)	1	1
5	A	8881035936	Solid Folding Seat w/ Hardware, Nylon (20" W x 18" D)	1	1
	B	See Chart	Solid Seat Inserts	1	1
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - Not Shown					
NOTE: Solid Folding Seats measure two inches narrower than actual seat width.					

Solid Seat Inserts

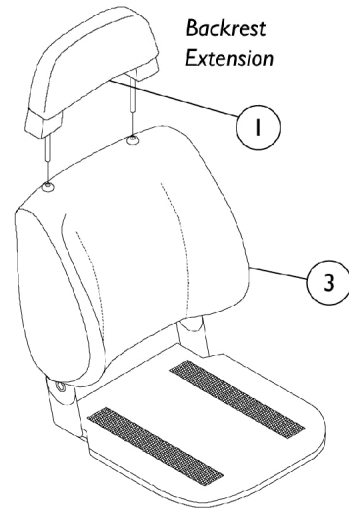
Chair	Upholstery Type	
Width x Depth	Nylon	Vinyl
16 x 16"	8881052563 See Note(s) A	8881034648-NLA See Note(s) A
16 x 17"	8881052564 See Note(s) A	8881034657-NLA See Note(s) A
16 x 18"	8881052565 See Note(s) A	8881034666-NLA See Note(s) A
18 x 16"	8881052569 See Note(s) A	8881034650 See Note(s) A
18 x 17"	8881052570 See Note(s) A	8881034659-NLA See Note(s) A
18 x 18"	8881052571 See Note(s) A	8881034668 See Note(s) A
20 x 16"	8881052575 See Note(s) A	8881034652-NLA See Note(s) A
20 x 17"	8881052576 See Note(s) A	8881034661-NLA See Note(s) A
20 x 18"	8881052577 See Note(s) A	8881034670 See Note(s) A
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."		
NOTE: Solid Folding Seats measure two inches narrower than actual seat width.		

Captain Seat Assembly

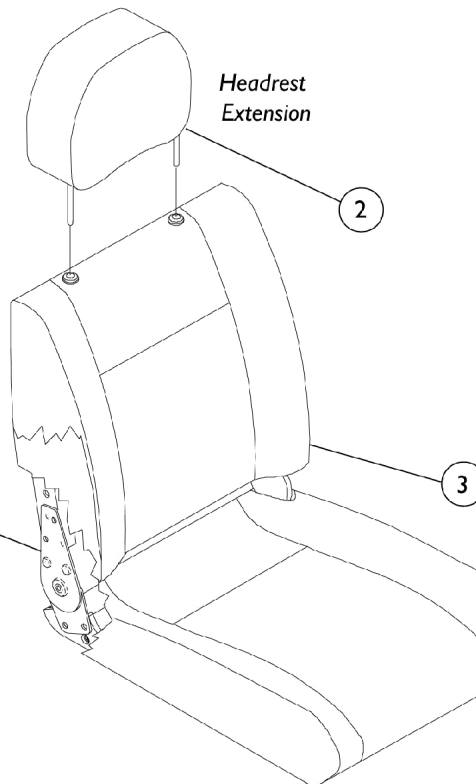
(Before 9/1/02)



Extended Back 18" Wide



**Extended Back, Forward
Folding 18" Wide
with Solid Seat Base**



High Back 18" Wide with Full Recline

NOTE: High back 18" wide captain seat includes the actuator hardware.

Captain Seat Assembly (Before 9/1/02)

Item #1 - Extended Back Backrest

Extended Back Backrest (E.B.)	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
E.B. Before 8/4/99 and Forward Folding Before 5/12/00	1078997-NLA See Note(s) A	N/A	N/A
E.B. After 8/3/99 and Forward Folding After 5/11/00	1090374-NLA See Note(s) B	N/A	N/A
E.B. Before 7/22/99	N/A	1081285-NLA See Note(s) A	1086109-NLA See Note(s) A
E.B. After 7/21/99	N/A	1090375-NLA See Note(s) B	1090376-NLA See Note(s) B
NOTE: A - 9" Backrest Post Spacing. B - 4-3/4" Backrest/Headrest Post Spacing.			

Item #2 - High Back Headrest

Headrest	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
Headrest, High Back Before 8/16/99	1071576-NLA See Note(s) C	N/A	N/A
Headrest, High Back After 8/15/99	1090379-NLA See Note(s) B	N/A	N/A
Headrest, High Back	N/A	1090380-NLA See Note(s) C	N/A
NOTE: B - 4-3/4" Backrest/Headrest Post Spacing. C - 4-23/32" Headrest Post Spacing.			

Captain Seat Assembly

(Before 9/1/02)

Item #3 - 18" Wide Extended Back Captain Seat

Captain Seat - Extended Back	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
Before 8/4/99	1078965-NLA See Note(s) D	N/A	N/A
After 8/3/99	1090371-NLA See Note(s) E, D	N/A	N/A
Before 7/22/99	N/A	1081284-NLA See Note(s) D	1086108-NLA See Note(s) D
After 7/21/99	N/A	1090372-NLA See Note(s) E, D	1090373-NLA See Note(s) E, D
and Forward Folding Before 5/12/00	1085104-NLA See Note(s) D	N/A	N/A
and Forward Folding After 5/11/00	1090370-NLA See Note(s) D, E	N/A	N/A
NOTE: D - For Captain Seats marked NLA, use Captain Seats dated after 8/31/02 as replacements. E - Backrest/Headrest post spacing changed. When replacing seat assemblies made before the date specified, a new style backrest or headrest must be ordered as well to match. NOTE: When converting between high back and extended back captain seats, the wiring harness will also need to be converted. See page titled "Battery Charger and Harnesses".			

Item #3 - 18" Wide High Back Captain Seat

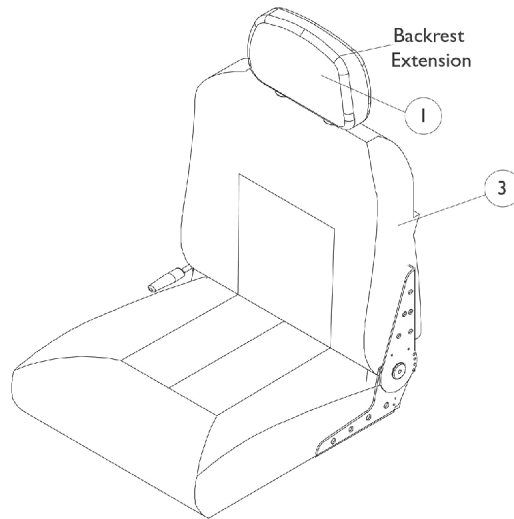
Captain Seat - High Back	Grey Fabric/Vinyl	All Grey Vinyl	Brunswick Buff All Tan Vinyl
18" Wide High Back Before 8/16/99	1070456-NLA See Note(s) F, D	N/A	N/A
18" Wide High Back After 8/15/99	1091068-NLA See Note(s) E, F, D	N/A	N/A
18" Wide High Back	N/A	1091069-NLA See Note(s) F, D	N/A
NOTE: D - For Captain Seats marked NLA, use Captain Seats dated after 8/31/02 as replacements. E - Backrest/Headrest post spacing changed. When replacing seat assemblies made before the date specified, a new style backrest or headrest must be ordered as well to match. F - High back 18" wide captain seats includes all actuator attaching hardware (LESS) the limit switch sensor harness #1074983. See page titled "Captain Seat Frame and Actuator Hardware". NOTE: When converting between high back and extended back captain seats, the wiring harness will also need to be converted. See page titled "Battery Charger and Harnesses".			

Captain Seat Assembly

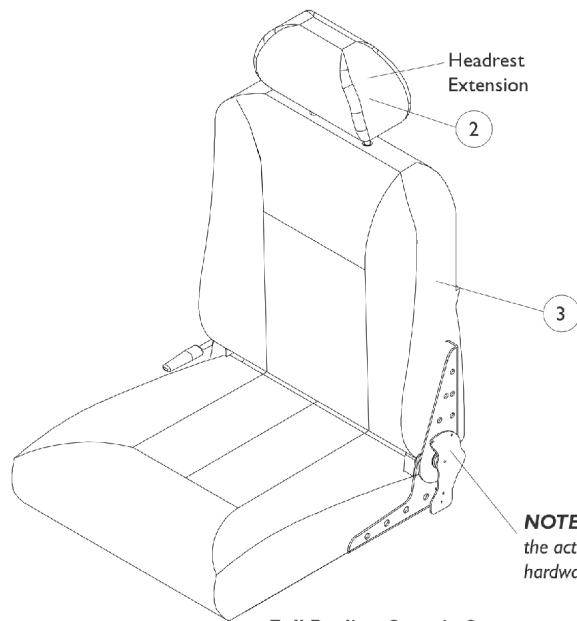
(After 8/31/02)

Captain Seats recline approximately 90° - 114° for semi recline backs and 90° - 170° for full recline back models. Adjustable depths are (16, 17, 18" deep for 18" wide seats).

Recline release levers are standard on the right side. Semi recline left side release levers can be ordered as a special with a new captain seat. All full recline captain seats must be ordered as a "special order" to have the limit switch sensor actuator hardware mounted on the right side.



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)

Captain Seats recline approximately 90° - 114° for semi recline backs and 90° - 170° for full recline back models. Adjustable depths are (16, 17, 18" deep for 18" wide seats).

Recline release levers are standard on the right side. Semi recline left side release levers can be ordered as a special with a new captain seat. All full recline captain seats must be ordered as a "special order" to have the limit switch sensor actuator hardware mounted on the right side.

Backrest/Headrest Extensions and Captain Seat Assemblies

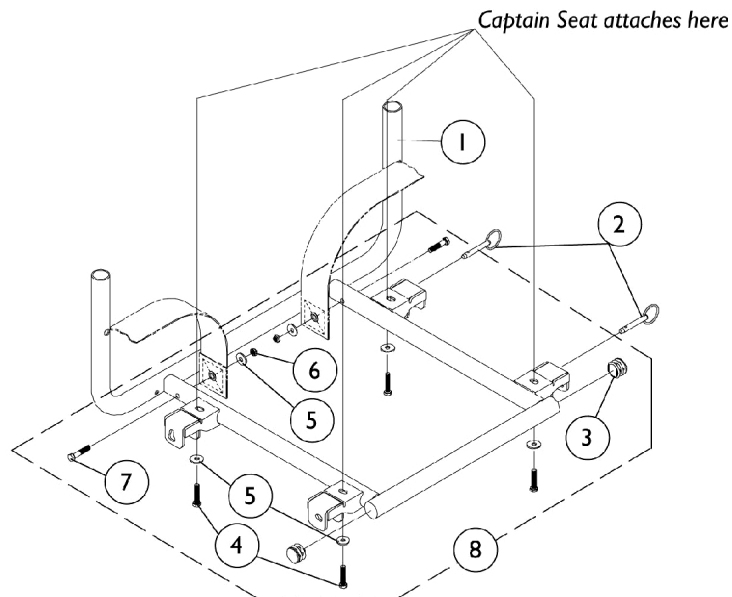
Item Number	Description	All Grey Fabric	All Grey Vinyl	All Tan Vinyl
1	Backrest - For Semi Recline	1106969-NLA	1108408	1106968-NLA
2	Headrest - For Full Recline	1106967	1108409-NLA	1106966
3	18" Wide - Semi Recline with Backrest	1109254-NLA	1109242	1109248-NLA
3	18" Wide - Full Recline with Backrest	1109257-NLA	1109245-NLA	1109251-NLA

NOTE: When converting from a semi recline to a full recline captin seat, a limit switch sensor harness part # 1074983 must be ordered as well. See page titled "Captain Seat Frame and Actuator Hardware."

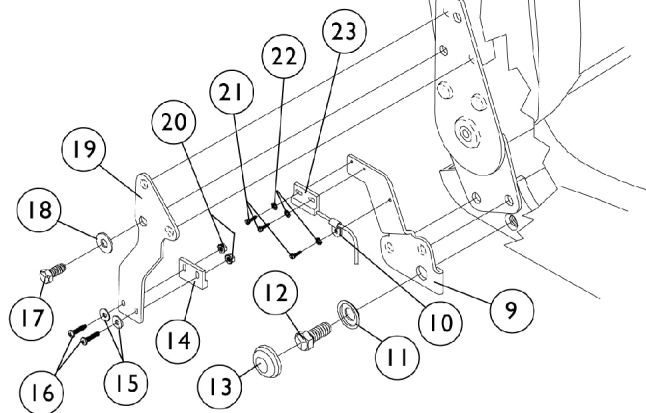
NOTE: Actuator mounting hardware is not included with captain seat, see page titled, "Captain Seat Frame and Actuator Hardware."

NOTE: New seat mounting screws #1025713 in (4) are required when converting a captain seat available before 9/1/02 to a captain seat available after 8/31/02.

Captain Seat Frame and Actuator Hardware (Before 9/1/02)

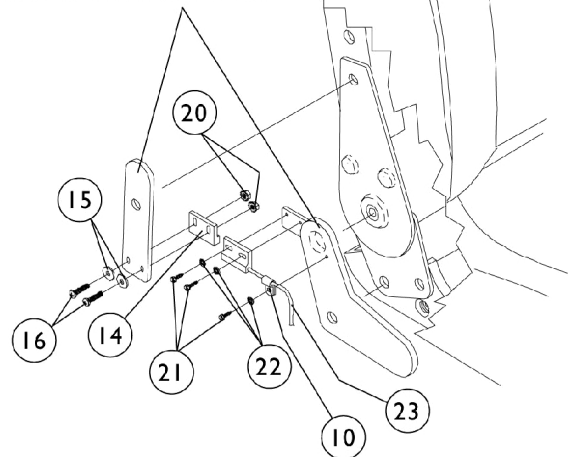


*Captain Seat shown
for ref. only*



**Actuator Attaching Hardware
Before 8/16/99
(High Back 18" Wide Models Only)**

*Upper/Lower Actuator
Brackets are non-serviceable*



**Actuator Attaching Hardware
After 8/15/99
(High Back 18" Wide Models Only)**

Captain Seat Frame and Actuator Hardware (Before 9/1/02)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1070751-NLA	NLA - Frame, Seat, Color	1	1
2		1071602-NLA	NLA - Pin, Anchor (Captain Seat)	1	4
3		1029501	Plug Button, Black (1")	1	2
4	B	1071603-NLA	NLA - Screw, Hex Head w/ Patch (M6 x 1 x 20mm)	1	4
4	C	1045267	Screw, Hex Head w/ Patch (1/4-20 x 3/4")	1	4
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	6
6		7930333	Locknut (1/4-20)	25	2
7		1037610	Screw, Hex Head (1/4-20 x 1-5/8")	1	2
8	B,D	1074115-NLA	NLA - Hardware, Seat Mounting, Extended Backs (18" W)	1	1
8	C,D	1079207-NLA	NLA - Hardware, Seat Mounting, Extended Backs and Forward Folding Seat (18" W)	1	1
9		1076392-NLA	NLA - Bracket, Lower Limit Switch Sensor, Black	1	1
10		1098624-NLA	NLA - Clamp, Cable	1	1
11		1016289	Washer, Caplugs (15/32" I.D. x 1-3/32" O.D.)	1	1
12		1076568-NLA	NLA - Screw, Hex Head (7/16-20 x 1")	1	1
13		1016291	Cap, Hub, Black	1	1
14		1024001	Sensor, Actuator Switch	1	1
15		16348X007	Rivet Washer (1/8 x 3/8 x 1/16")	1	2
16		1074128	Screw, Phillips Pan Head (#4-40 x 7/16")	1	2
17		7930322-NLA	NLA - Package, Screw, Hex Head (M8 x 1.25 x 20mm)	25	1
18		7930358-NLA	NLA - Washer, Steel (5/16 x 3/4 x 1/16")	25	1
19		1076394	Bracket, Upper Limit Sensor Switch	1	1
20		P0870X000	Nut, Hex Keps (#4-40)	1	2
21		1025116-NLA	NLA - Screw, Slotted Hex Washer Head Tap (#4-3/8")	1	3
22		1008525-NLA	NLA - Washer, Internal Tooth Lock (#4-40)	1	3
23	A	1074983-NLA	NLA - Cable, Limit Switch Sensor	1	1

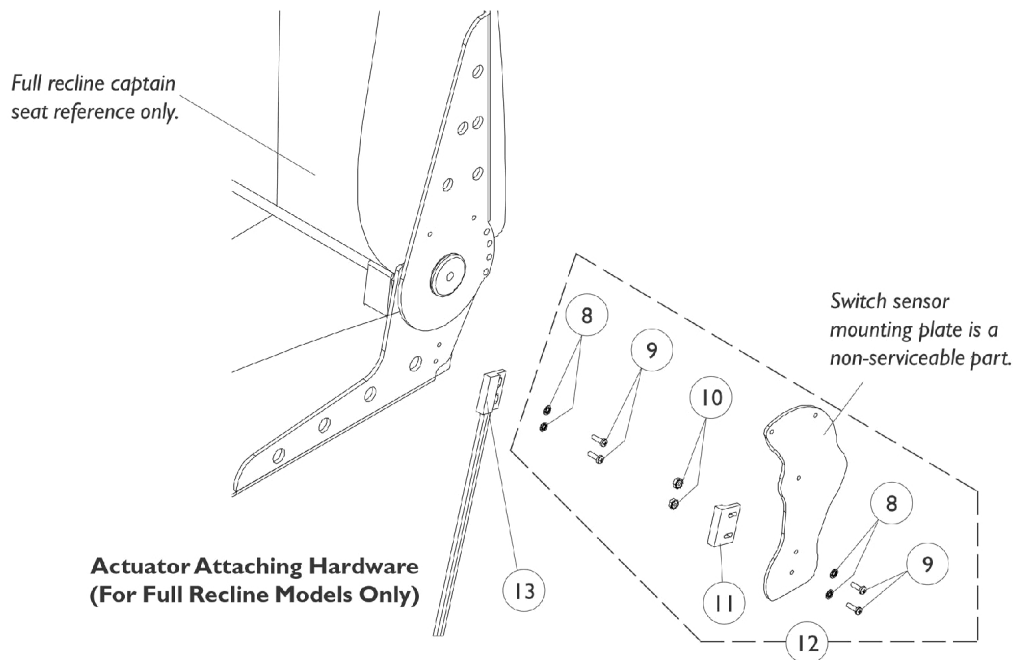
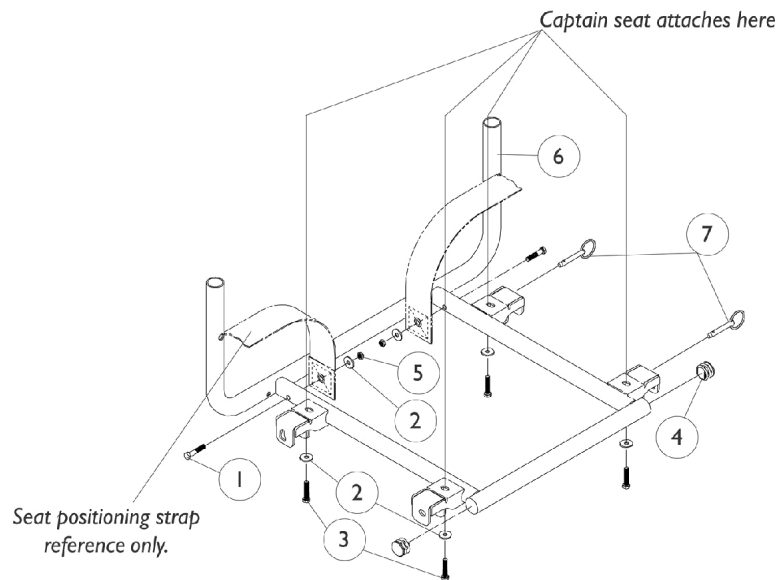
NOTE: A - Item number 23 is not included with a high back seat assembly.

B - High Backs 18" Wide.

C - Extended Backs and Forward Folding Seats 18" Wide.

D - Includes Items 3-7.

Captain Seat Frame & Actuator Hardware (After 8/31/02)

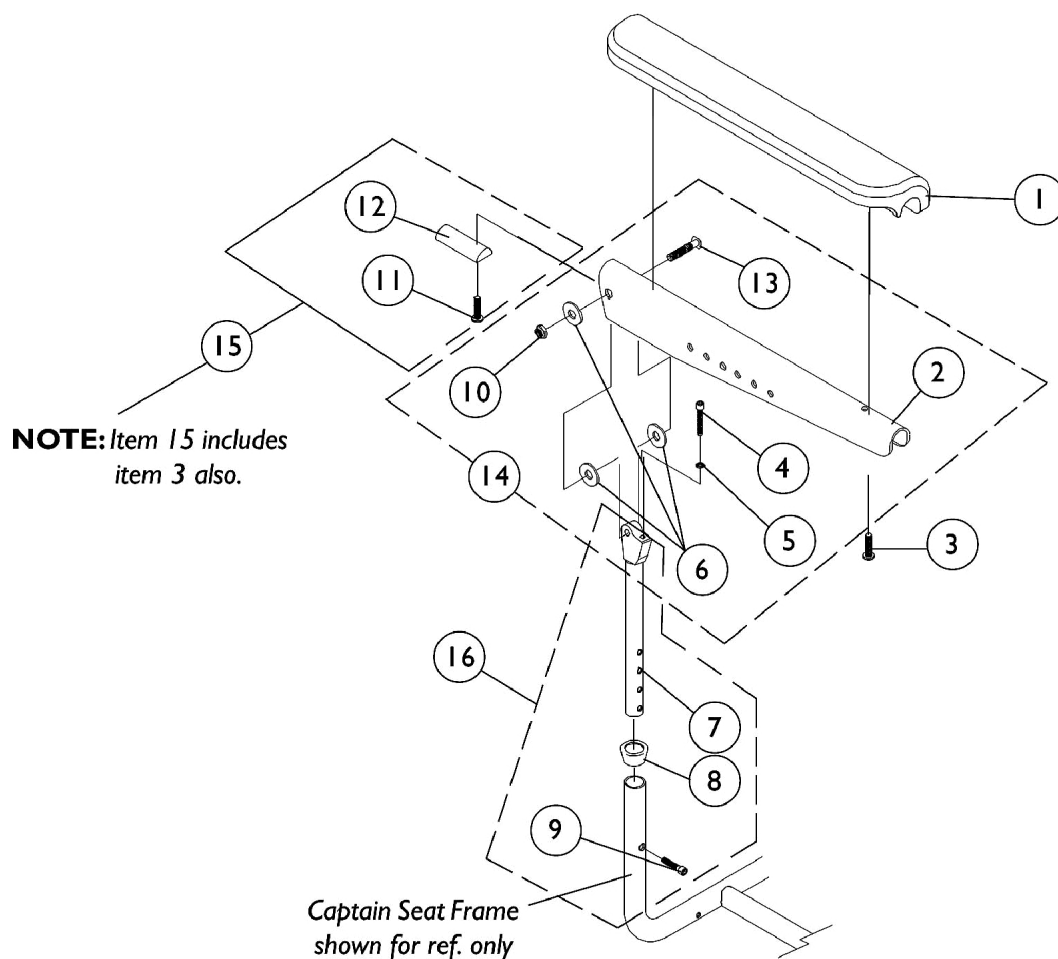


Captain Seat Frame & Actuator Hardware (After 8/31/02)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1070751-NLA	NLA - Frame, Seat, Color	1	1
2		1071602-NLA	NLA - Pin, Anchor (Captain Seat)	1	4
3		1029501	Plug Button, Black (1")	1	2
4		1025713-NLA	NLA - Screw, Hex Head (1/4-20 x 1")	1	4
5		1026900	Washer (1/4 x 23/32 x 1/16")	1	6
6		7930333	Locknut (1/4-20)	25	2
7		1037610	Screw, Hex Head (1/4-20 x 1-5/8")	1	2
8		1008525-NLA	NLA - Washer, Internal Tooth Lock (#4-40)	1	4
9		7930339-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 3/8")	25	4
10		P0870X000	Nut, Hex Keps (#4-40)	1	2
11		1024001	Sensor, Actuator Switch	1	1
12	A,B	1107242-NLA	NLA - Hardware, Actuator Switch Sensor Mounting	1	1
13	B	1074983-NLA	NLA - Cable, Limit Switch Sensor	1	1
NOTE: A - Includes Item 8-11. B - Item 12 and 13 are not included with a high back seat assembly.					

Captain Seat Arms & Hardware

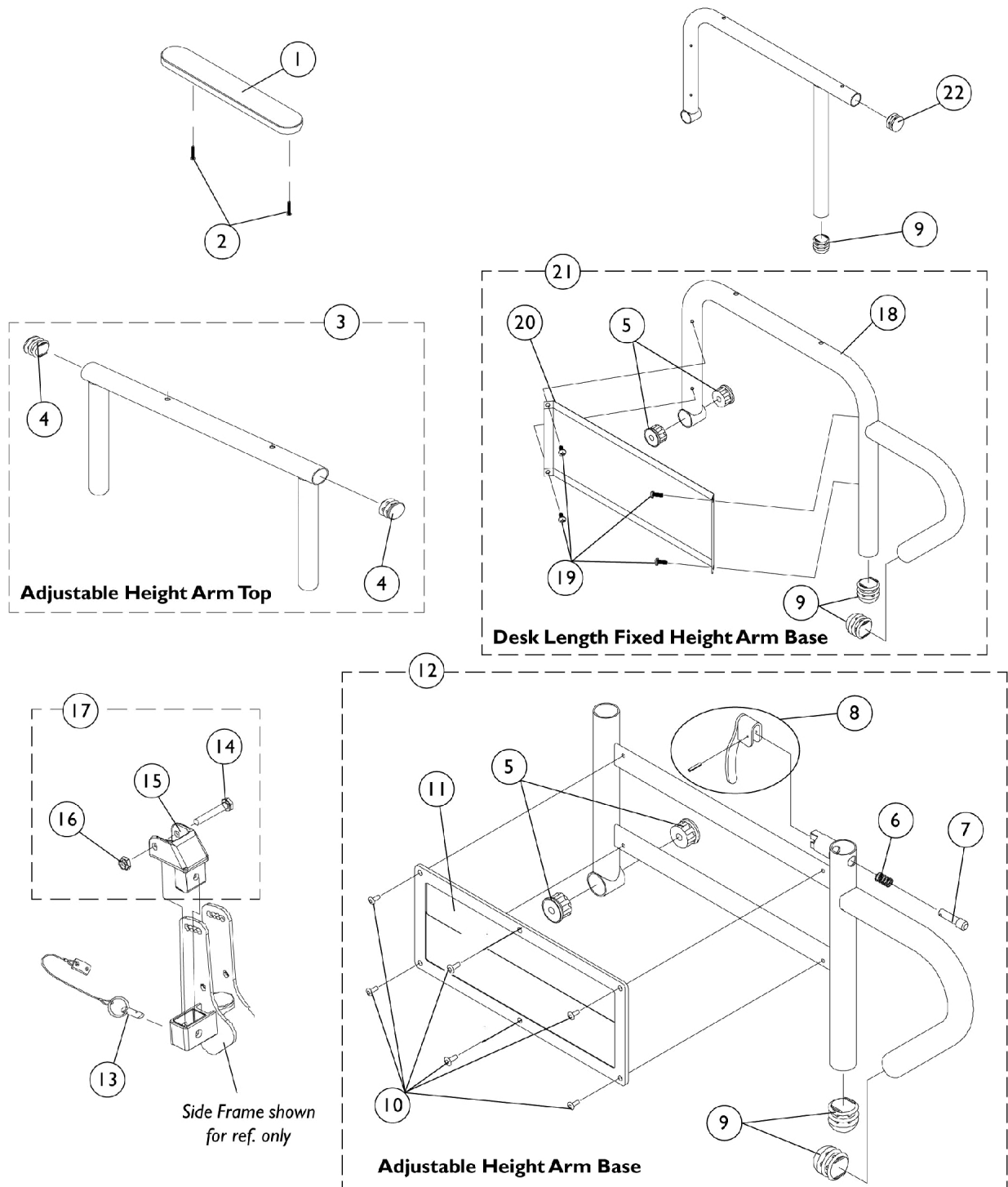
18" Wide Models



Captain Seat Arms & 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	1
2		1071359-NLA	NLA - Plate, Armrest (Black)	1	1
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	1
5		1025711-NLA	NLA - Nut, Hex (1/4-20)	1	1
6		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	3
7		1070928	Tube, Arm, Upper Height and Width Adjustable, Black	1	1
8		15680X013	Anti-Rattle (1")	1	1
9		7930304-NLA	NLA - Screw, Socket Head (1/4-20 x 1-1/4")	25	1
10		1026906-NLA	NLA - Locknut (5/16-24)	1	1
11		1102546-NLA	NLA - Screw, Phillips Pan Head (#10-32 x 7/8")	1	1
12		1070106-NLA	NLA - Insert, Armrest, Black	1	1
13		1031026	Screw w/ Lug (5/16-24 x 1-3/8")	1	1
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, and 13. C - Includes Items 3, 11, and 12. D - Includes Items 7-9.					

Arms - Ranger II / R2 jr.



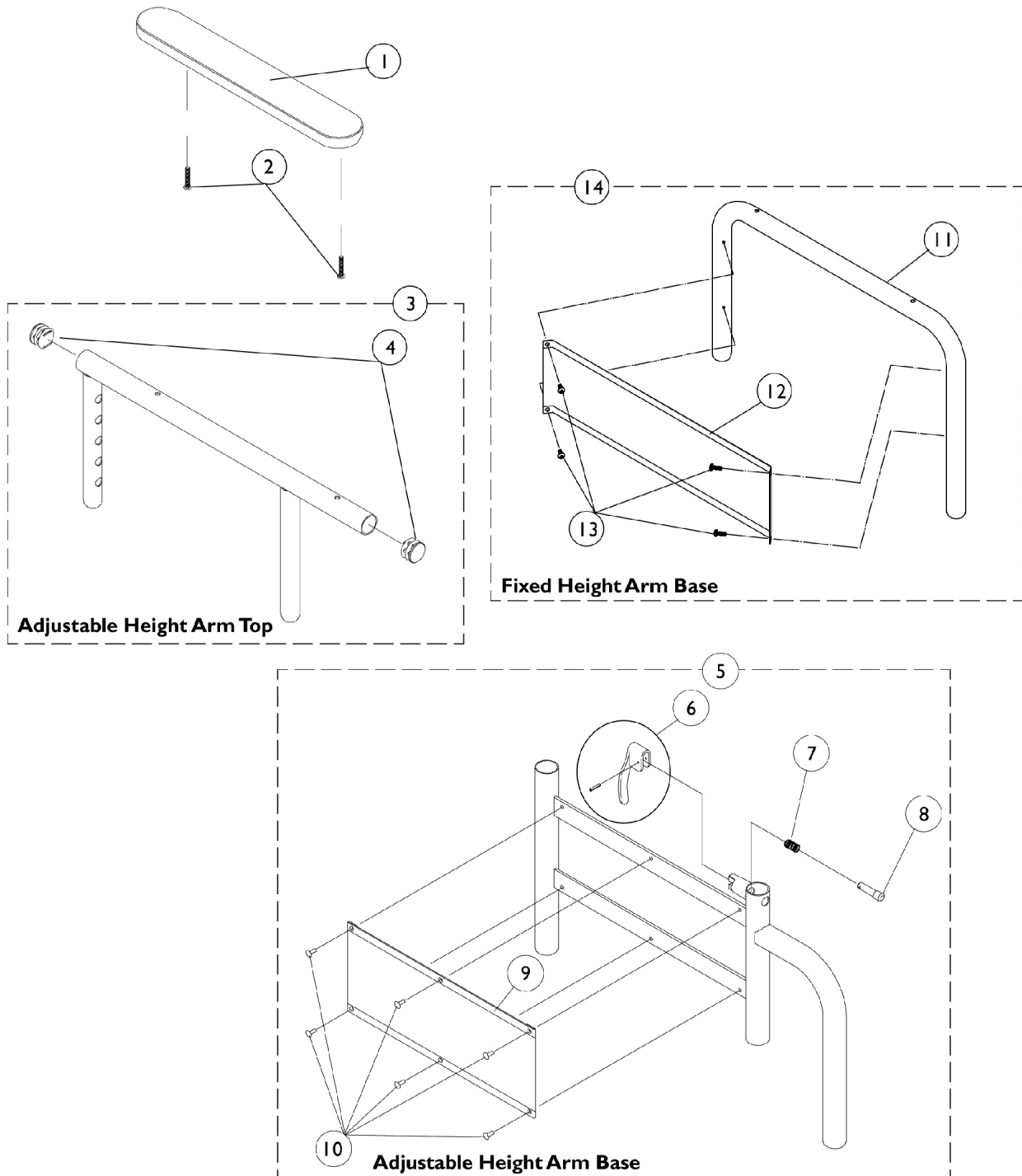
Arms - Ranger II / R2 jr.

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	B,F	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	8881011811-NL A	NLA - Pad, Arm, Vinyl, Desk Length (9" L x 2" W)	1	1
1	B,F	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		1055949	Package, Screw, Phillips Pan Head (#10-32 x 1-3/8")	2	1
2	D	1094270-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1-1/4")	2	1
3		1071253	Arm Tube Assembly w/ Plug Buttons, Full Length, Black - Right/Left	1	1
3		1070859	Arm Tube Assembly w/ Plug Buttons, Desk Length, Black - Right/Left	1	1
4		1027095	Plug Button, Black (7/8")	1	2
5		1065936	Plug, Pivot	1	2
6		47471X074	Spring, Arm Lock	1	1
7		1028594	Pin, Arm Lock, Black	1	1
8		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
9		1067734	Plug Button, Black (5/8")	1	2
10		1028645	Rivet	1	6
11		1064130-NLA	NLA - Guard, Clothing	1	1
12	C	8881071554-NL A	NLA - Arm Base, Adjustable Height, Color - Right	1	1
12	C	8881071555-NL A	NLA - Arm Base, Adjustable Height, Color - Left	1	1
13		1068039	Pin, Pull	1	1
14		1019590	Screw, Socket Button Head (1/4-20 x 1-5/8")	1	1
15		1068025	Clevis, Pivot	1	1
16		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
17	E	1090277-NLA	NLA - Hardware, Mounting, Swingaway Armrest	1	1
18	C	8881071517-NL A	NLA - Tube, Arm, Full Length, Color - Right	1	1
18	C	8881071518-NL A	NLA - Tube, Arm, Full Length, Color - Left	1	1
18	C	8881071519-NL A	NLA - Tube, Arm, Desk Length, Color - Right	1	1

Arms - Ranger II / R2 jr.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
18	C	8881071520-NL A	NLA - Tube, Arm, Desk Length, Color - Left	1	1
19		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	4
20		1035472-NLA	NLA - Guard, Clothing, Desk Length	1	1
21	C	8881071550-NL A	NLA - Arm Assembly, Full Length, Color - Right	1	1
21	C	8881071551-NL A	NLA - Arm Assembly, Full Length, Color - Left	1	1
21	C	8881071552-NL A	NLA - Arm Assembly, Desk Length, Color - Right	1	1
21	C	8881071553-NL A	NLA - Arm Assembly, Desk Length, Color - Left	1	1
22		1027095	Plug Button, Black (7/8")	1	1
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in pairs with screws for chairs manufactured before 1/3/02. C - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." D - For Black Urethane Waterfall Arm Pads Only. E - Includes Items 14, 15 and 16. F - After 7/9/07 Invacare recommends ordering armpads in pairs to assure uniform appearance on chair					

Arms - Excel



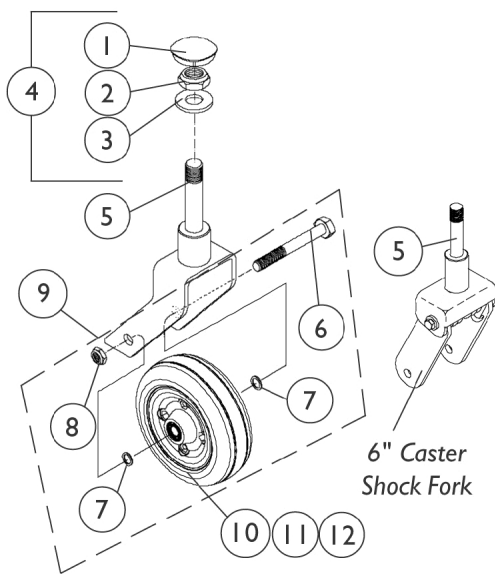
Arms - Excel

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	B,D	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	8881011811-NL A	NLA - Pad, Arm, Vinyl, Desk Length (9" L x 2" W)	1	1
1	B,D	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		1055949	Package, Screw, Phillips Pan Head (#10-32 x 1-3/8")	2	1
2		1094270-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1-1/4")	2	1
3		1041522	Arm Tube Assembly w/ Plug Buttons, Full Length, Black - Right/Left	1	1
3		1070859	Arm Tube Assembly w/ Plug Buttons, Desk Length, Black - Right/Left	1	1
4		1027095	Plug Button, Black (7/8")	1	2
5	C	8881057741-NL A	NLA - Arm Base, Adjustable Height, Color - Right	1	1
5	C	8881057742-NL A	NLA - Arm Base, Adjustable Height, Color - Left	1	1
6		1090768	Kit, Lock Handle w/Rivets (Pair)	2	1
7		47471X074	Spring, Arm Lock	1	1
8		1028594	Pin, Arm Lock, Black	1	1
9		1064130-NLA	NLA - Guard, Clothing	1	1
10		1028645	Rivet	1	6
11	C	8881057723	Desk Length Arm Tube (Color), Right	1	1
11	C	8881057724-NL A	NLA - Tube, Arm, Desk Length, Color - Left	1	1
11	C	8881057715-NL A	NLA - Tube, Arm, Full Length, Color - Right	1	1
11	C	8881057716-NL A	NLA - Tube, Arm, Full Length, Color - Left	1	1
12		1035472-NLA	NLA - Guard, Clothing, Desk Length	1	1
12		1044572-NLA	NLA - Guard, Clothing, Full Length (16 - 19" D)	1	1
13		1025729	Screw, Phillips Pan Head Tap (#8-32 x 3/8")	1	4
14	C	8881057729-NL A	NLA - Arm Assembly, Desk Length, Color - Right	1	1

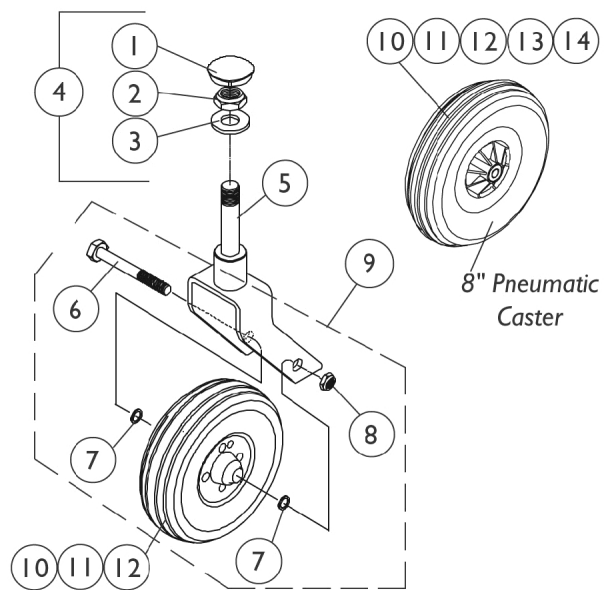
Arms - Excel

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
14	C	8881057730-NL A	NLA - Arm Assembly, Desk Length, Color - Left	1	1
14	C	8881057719-NL A	NLA - Arm, Full Length without Armpad, Color - Right	1	1
14	C	8881057720-NL A	NLA - Arm, Full Length without Armpad, Color - Left	1	1
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - As of 1/3/02 upholstered waterfall armpads were replaced with black urethane waterfall armpads. Order in parts with screws for chairs manufactured before 1/3/02. C - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." D - After 7/9/07 Invacare recommends ordering armpads in pairs to assure uniform appearance on chair					

Rear Casters - Forks & Hardware



6" Caster Assembly



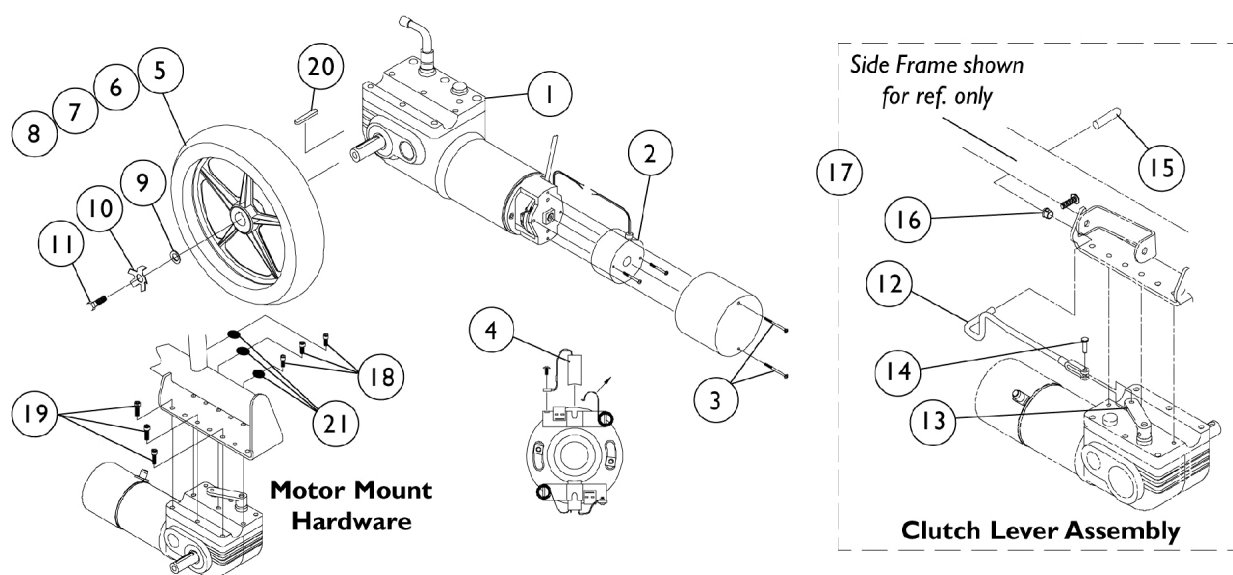
8" Caster Assembly

Rear Casters - Forks & Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1056739	Plug Button, Head 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	1057949	Hardware, Fork Stem	1	1
5	A	8881071460-NL A	NLA - Fork and Stem (6" Caster)	1	1
5	A	8881071600-NL A	NLA - Fork, Caster, Shock (6")	1	1
5	A	8881058562-NL A	NLA - Fork, Caster, Standard (8")	1	1
6	D	1025726	Screw, Hex Head (7/16-20 x 3-1/4")	1	1
6	E	1058744-NLA	NLA - Screw, Hex Head (7/16-20 x 3-1/2")	1	1
7		7930329	Washer, Steel (15/32 x 5/8 x 3/64")	25	1
8		7930331-NLA	NLA - Locknut (7/16-20")	25	1
9	D,F	1042489	Hardware, Caster Axle	1	2
9	E,F	1058890-NLA	NLA - Hardware, Caster, Shock Fork (Pair)	2	1
10	G	1072014-NLA	NLA - Wheel Assembly, Semi-Pneumatic, Urethane (6" x 2")	1	1
10	H	1115179	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2")	1	1
10	H	1122066	Wheel Assembly, Semi-Pneumatic, Urethane, Deep Profile, Grey Tire/Black Hub (6" x 2") (Pair)	2	1
10		1070811	Wheel Assembly, Semi-Pneumatic, Urethane, Light Grey (8" x 1-3/4")	1	2
10		1002002	Wheel Assembly w/ Bearings, Pneumatic (8" x 2")	1	1
11		1006049	Bearing (7/16")	1	2
12		1020592	Spacer, Bearing (7/16 x 5/8 x 1-3/4")	1	1
13		40176X034	Tire, Pneumatic (8" x 2")	1	1
14		1034942	Tube, Pneumatic Inner (8 x 2")	1	1
	B	40176X010-NLA	NLA - Pump, Tire	1	1

NOTE: A - Specify frame finish when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
 B - Not Shown.
 C - Includes Items 1-3.
 D - Standard Fork.
 E - Shock Fork.
 F - Includes items 6-8 to accommodate 1 side only.
 G - 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.
 H - Service part after 8/14/03

Drive Wheel, 2-Pole Motor & Gearbox (12-1/2 x 2-1/4") (Ranger II Basic, Excel and R2 jr.)



Drive Wheel, 2-Pole Motor & Gearbox (12-1/2 x 2-1/4") (Ranger II Basic, Excel and R2 jr.)

Item Number	Description	Part Number
1	Motor and Gearbox - Right	1071593-NLA
1	Motor and Gearbox - Left	1071594-NLA
2	Brake Repair Kit	1055872-NLA
3	Brake Cover with Screws (Pair)	1038361-NLA
4	Brushes (Pair)	561-005-NLA See Note(s) C
5	Drive Wheel, Foam Fill (12-1/2") with Locking Tab	1064177
	Drive Wheel, Pneumatic (12-1/2") with Locking Tab	1064178-NLA
6	Tire (12-1/2 x 2-1/4")	1011524
7	Flat Free Insert	1073936-NLA See Note(s) A
8	Tube (12-1/2 x 2-1/4")	1011525
9	Washer (21/64 x 53/64 x 7/64")	1079247
10	Washer, Locking Tab (Pair)	1064179
11	Screw, Hex Head (M8 x 20MM) (Pkg. of 25)	7930322-NLA
12	Clutch Lever - Right	1098712-NLA See Note(s) B
	Clutch Lever - Left	1098713-NLA See Note(s) B
13	Bracket, Clutch Lever	1071567-NLA
14	Pin, Clevis	1071568
15	Tip, Plastic	1040060
16	Bushing, Snap	1071562-NLA
17	Clutch Lever Assembly - Right	1074114-NLA
	Clutch Lever Assembly - Left	1074135-NLA
18	Screw, Socket Head (M6 x 15MM)	1080713-NLA
19	Screw, Socket Head (M6 x 35MM)	1080712-NLA
20	Key	1023264
21	Washer, Star (1/4")	10513X000-NLA

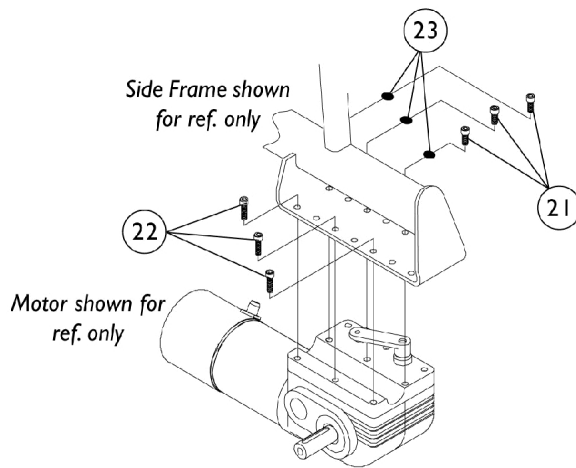
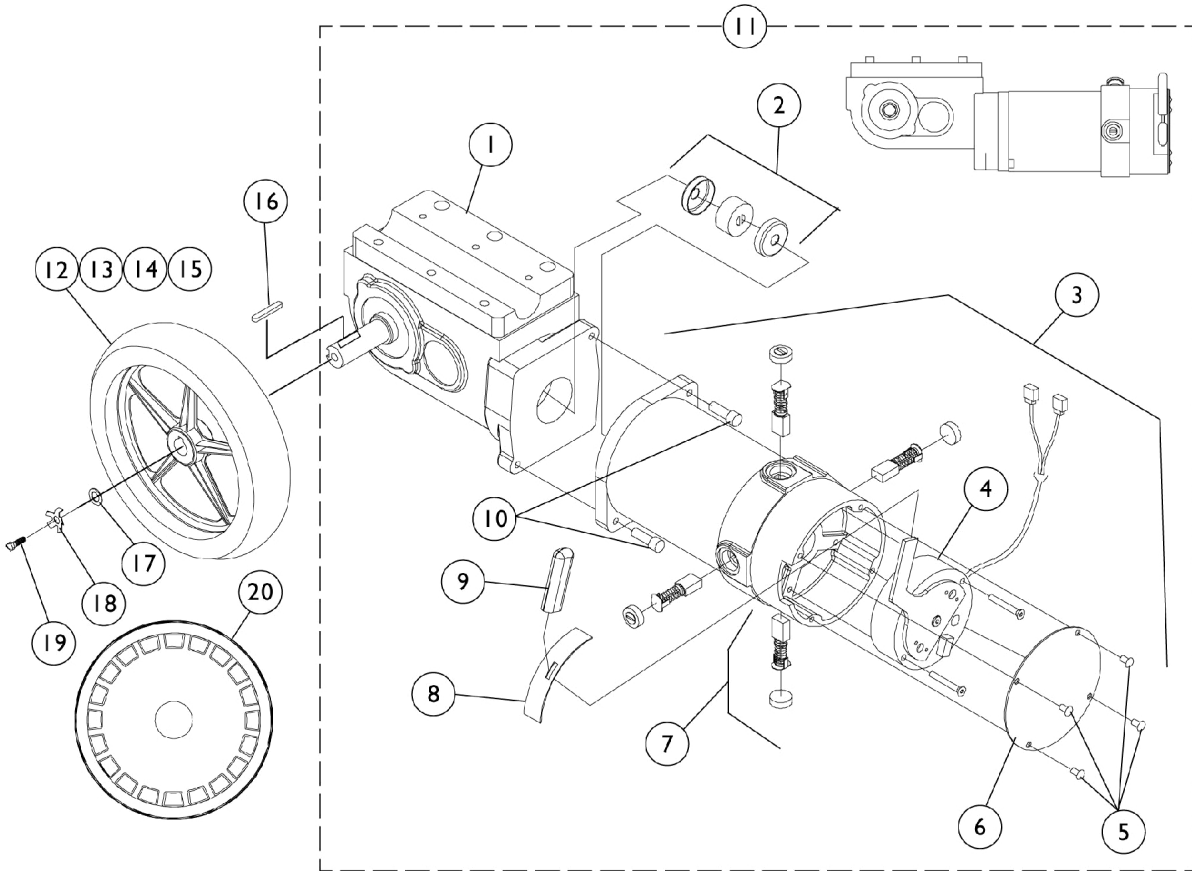
NOTE: A - As of 10/20/99 the "solid" flat free insert was replaced by a "foam fill" process. When a flat free insert is requested, a complete wheel must be ordered.

B - Short end of Clutch Lever was lengthened from 2" to 2-3/4" long as of 12/1/00. Replace in pairs for chairs made before 12/11/00.

C - 561-005 are internal brushes and do not use Caps.

NOTE: Light Duty, 250-S models use long cap motors.

(Ranger II Standard w/ Brake Lever)



Motor Mount Hardware

Drive Wheel, 4-Pole Motor & Gearbox (12-1/2 x 2-1/4") (Ranger II Standard w/ Brake Lever)

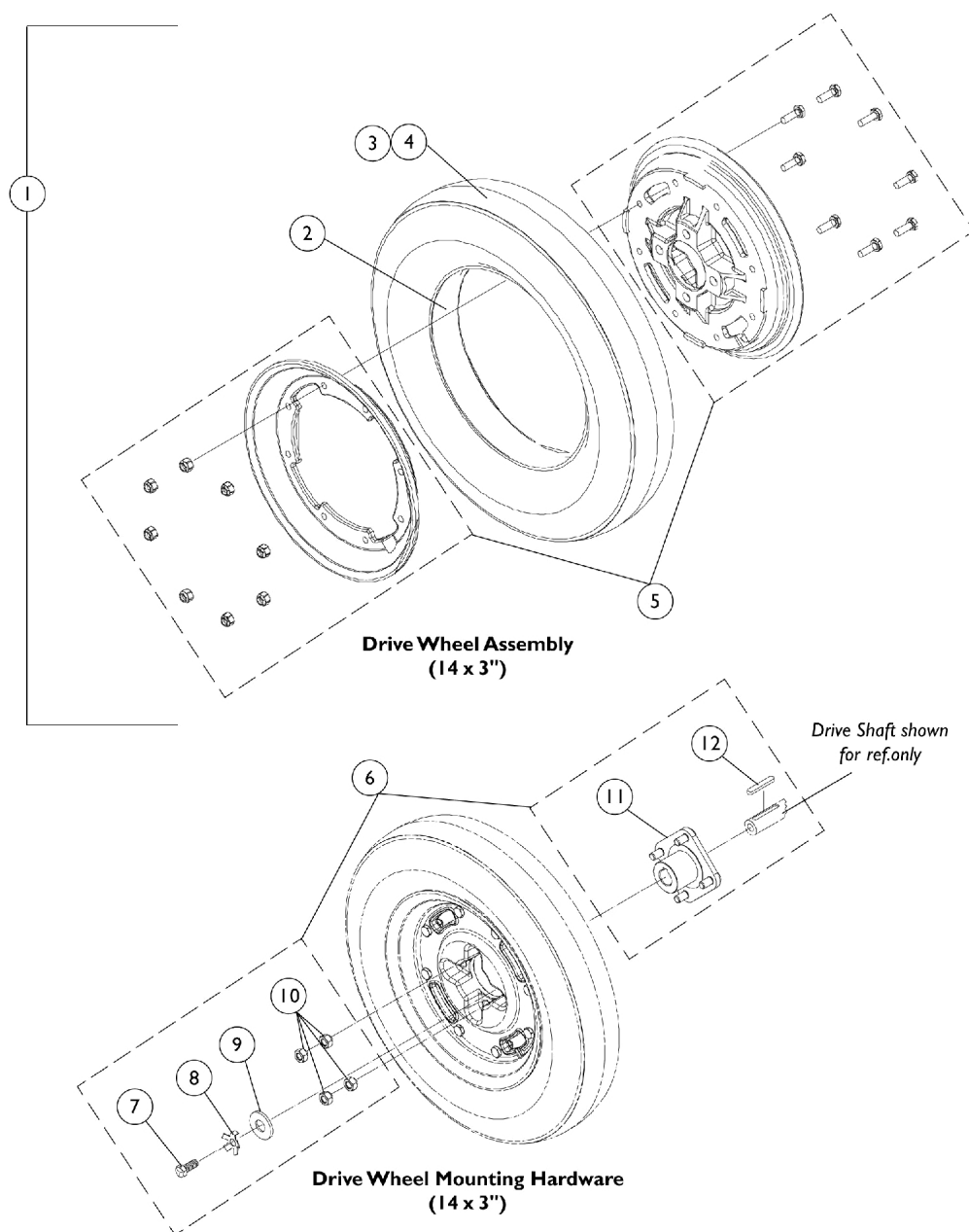
Item Number	Description	Part Number
1	Gearbox - Right	1086228-NLA See Note(s) E
1	Gearbox - Left	1086227-NLA See Note(s) E
2	NLA - Coupling w/ Cup (1" Diameter)	5165204-NLA See Note(s) C
2	NLA - Coupling w/ Cup (1-5/16" Diameter)	50000X007-NLA See Note(s) D
3	Motor Assembly - Right (Before 10/29/01)	1086788-NLA
3	Motor Assembly - Left (Before 10/29/01)	1087218-NLA
3	Motor Assembly - Right (After 10/28/01)	1109229-NLA
3	Motor Assembly - Left (After 10/28/01)	1109228-NLA
4	Brake Repair Kit - Right	1070295-NLA See Note(s) H
4	Brake Repair Kit - Left	1070294-NLA See Note(s) H
5	Screw, Socket Pan Head (8-32 x 1/4")	See Item 5
6	Brake Cover with Screws (Before 10/29/01)	1070297-NLA
6	Brake Cover (Black) with Screws (After 10/28/01)	1104402-NLA
7	Brushes with Caps	1070296-NLA See Note(s) G
8	Slotted Plate	1082985-NLA
9	Plastic Tip (Before 10/29/01)	1082984-NLA
9	Plastic Tip (After 10/28/01)	1101725
10	Screw, SHC (1/4-20 x 1-1/8")	1043594 See Note(s) E
10.	Screw, SHC (M6 x 1 x 20MM)	1108978 See Note(s) E
11 See Note(s) F	Motor and Gearbox - Right (Before 10/29/01)	1086218-NLA
11	Motor and Gearbox - Left (Before 10/29/01)	1086217-NLA See Note(s) F
11	Motor and Gearbox - Right (After 10/28/01)	1109170-NLA

Drive Wheel, 4-Pole Motor & Gearbox (12-1/2 x 2-1/4") (Ranger II Standard w/ Brake Lever)

Item Number	Description	Part Number
11	Motor and Gearbox - Left After 10/28/01	1109169-NLA
12	Wheel with Foam Fill (12-1/2) with Locking Tab	1064177 See Note(s) A
12	Wheel, Pneumatic (12-1/2") with Locking Tab	1064178-NLA See Note(s) A
13	Tire (12-1/2 x 2-1/4")	1011524
14	Flat Tire Insert	1073936-NLA See Note(s) B
15	Tube (12-1/2 x 2-1/4")	1011525
16	Key	1023264
17	Washer (21/64 x 53/64 x 7/64")	1079247
18	Washer, Locking Tab (Pair)	1064179
19	Screw, Hex Head (M8 x 20MM) (Pkg. of 25)	7930322-NLA
20	Shroud Cover - Black, Drive Wheel	1074974-NLA
21	Screw, Socket Head (M6 x 15MM)	1080713-NLA
22	Screw, Socket Head (M6 x 35MM)	1080712-NLA
23	Washer, Star (1/4")	10513X000-NLA
NOTE: A - Drive wheel comes with a locking tab and instruction sheet. B - As of 10/20/99, the "solid" flat free insert was replaced by a "foam fill" process. When a Flat Free Insert is requested, a complete wheel must be ordered. C - Coupling with Cup for chairs manufactured before 11/12/01 - Use part # 50000X007 as a direct replacement part. D - 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 E - When a new gearbox or mounting screws are ordered, (2 ea.) metric and (2 ea.) non-metric screws (item 10) must be ordered. Invacare Corp. utilizes alternate suppliers for this part number. 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.		

Drive Wheel and Hub Mount (14 x 3")

Optional on Chair
(As Of 10/15/99)



Drive Wheel and Hub Mount (14 x 3")

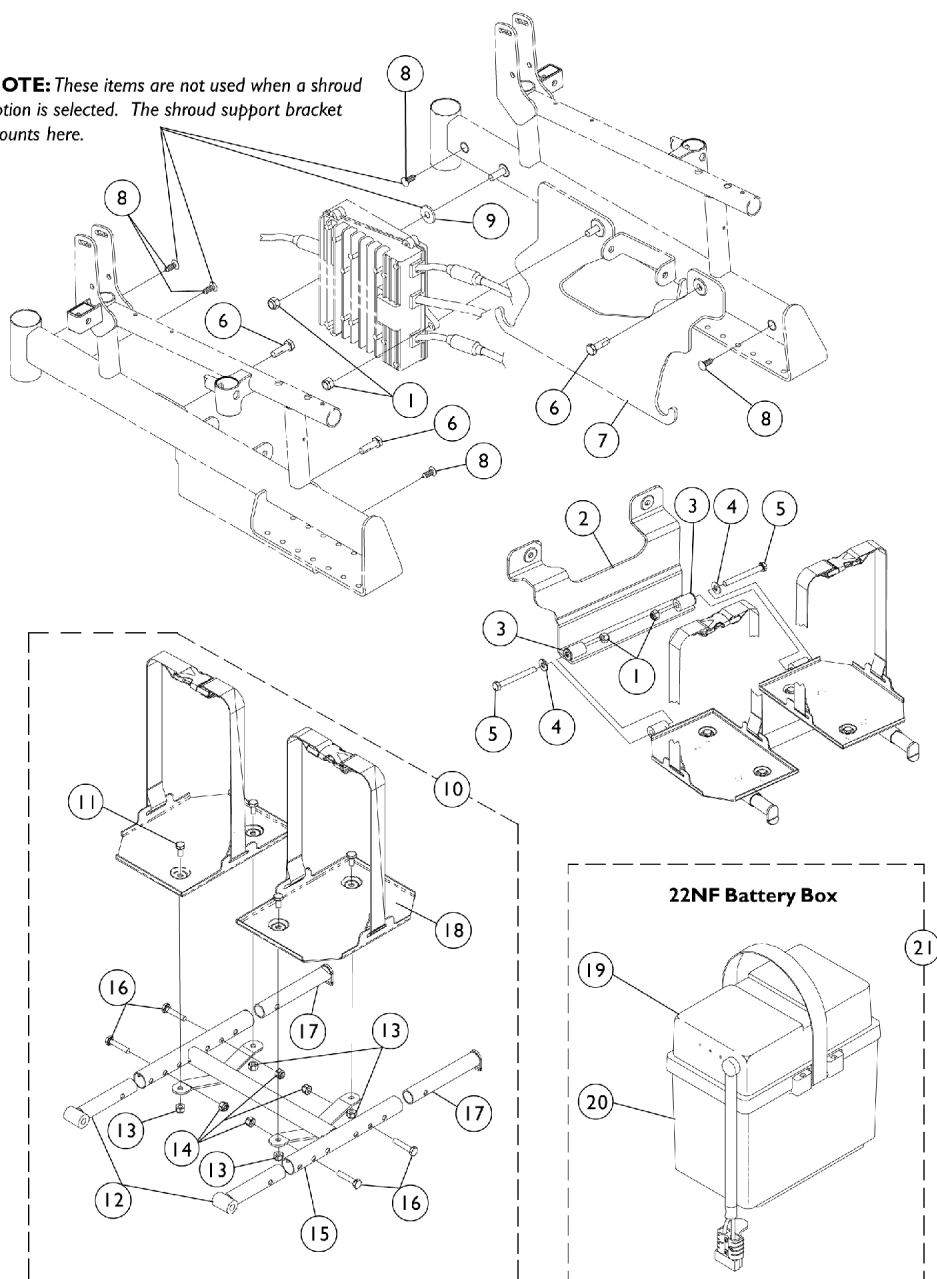
Optional on Chair

(As Of 10/15/99)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1090649-NLA	NLA - Pneumatic Wheel Drive Assembly (14" x 3")	1	1
1		1090650-NLA	NLA - Drive Wheel Assembly w/ Flat Free Insert, Grey Tire/Black Rim (14 x 3")	1	1
2		1101754	Tire w/ Foam Fill Insert, Grey (14" x 3")	1	1
3		1039652	Tire, Pneumatic, Grey (14" x 3")	1	1
4		1039651	Tube, Inner, Black (14 x 3")	1	1
5	A	1090651-NLA	NLA - Kit, 8" Rim w/ Hardware (14" x 3" Wheel)	1	1
6	B	1090648-NLA	NLA - Hardware, Drive Wheel Mounting w/ Instruction Sheet (14 x 3")	1	1
7		7930322-NLA	NLA - Package, Screw, Hex Head (M8 x 1.25 x 20mm)	25	1
8		1064179	Kit, Locking Tab Washer w/ Instruction Sheet (Pair)	2	1
9		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
10		1024444	Locknut (5/16-24)	1	4
11		1086681-NLA	NLA - Hub, Wheel (14" x 3")	1	1
12		1023264	Key (6mm x 6mm x 40mm)	1	1
NOTE: A - Hardware consists of: (8) ea. Screw, Hex Head Cap (1/4-20 x 3/4") and (8) ea. Locknut, High Profile (1/4-20"). B - Includes Items 7-12 and Instruction Sheet.					

Battery Boxes & Trays

NOTE: These items are not used when a shroud option is selected. The shroud support bracket mounts here.



Battery Boxes & Trays

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1026158	Locknut (5/16-18)	1	2
2		1080242-NLA	NLA - Bracket, Pivot, Black - Right	1	1
3		1026032	Washer, Nylon (11/32 x 11/16 x 1/16")	1	2
4		1018739	Washer (1/4 x 5/8 x 3/32")	1	2
5		1042486	Screw, Hex Head (5/16-18 x 2-3/4")	1	2
6	K	1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	1
6	L	1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
7		1080240-NLA	NLA - Bracket, Pivot, Black - Left	1	1
8		1058520-NLA	NLA - Fastener, Panel Snap-In	1	5
9		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
10	H	1080255-NLA	NLA - Tray, Battery Assembly w/ Hardware	1	1
11		1025752-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/2")	1	4
12		1080250-NLA	NLA - Pin, Tray Pivot	1	2
13		7930323-NLA	NLA - Package, Locknut (1/4-20)	25	1
14		7930333	Locknut (1/4-20)	25	1
15		1080241-NLA	NLA - Support, Tray	1	1
16		1021406	Screw, Hex Head (1/4-20 x 1-1/4")	1	4
17		1080256-NLA	NLA - Pin, Tray	1	2
18		1080239-NLA	NLA - Tray w/ Buckle	1	2
19	A,B,I	1097003	Battery Box Top, Rear, 22NF	1	2
20	J	1057944	Battery Box Bottom with Strap, 22NF	1	2
	G	1057954-NLA	NLA - Strap, Battery	1	1
	G	1041433-NLA	NLA - Pin, Handle	1	2
21	I	1097007	Battery Box Assembly, Rear, 22NF	1	2
	A,E,G	50000X166-NLA	NLA - Fuse - Buss 2-1/4" L (60 AMP)	1	2
	F,G	1089385	Fuse, MIDI (Non-G/B & G/B) (80 AMP)	1	2
	C,G	1060318-NLA	NLA - Hardware, Battery Terminal, UI Batteries (Pair)	2	1
	D,G	1058618-NLA	NLA - Hardware, Battery Terminal, 22NF Batteries (Pair)	2	1

NOTE: A - As of 11/05/99 the battery harness fuse changed from a Bussman 60AMP to a MIDI 80AMP fuse. This battery box top is compatible for all chairs manufactured before 11/05/99 and must be ordered whenever a replacement Bussman 60AMP fuse is replaced.

B - It is recommended that new terminal hardware be ordered when a new battery box top is ordered.

C - Hardware includes small battery terminal caps (gray and orange), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties, locking tab washers and instruction sheet for two batteries.

D - Hardware includes battery clamps, battery clamp caps (red and black), small battery terminal caps (red and black), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties and locking tab washers for two batteries.

E - Before 11/5/99.

F - After 11/4/99.

G - Not Shown.

H - Includes Items 11-18.

I - 22NF and UI 250-S Models.

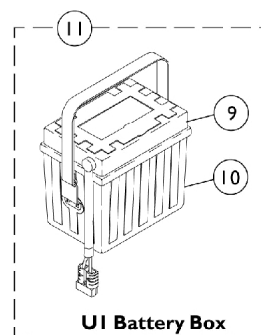
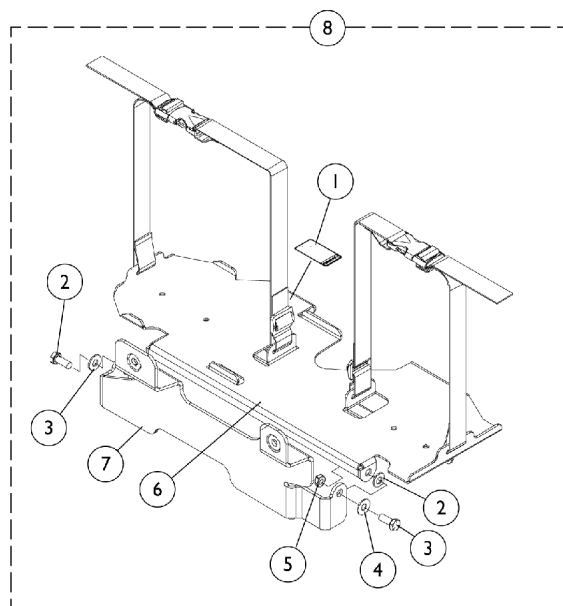
J - Includes: Battery Strap #105794 and Handle Pin #104133.

K - With One Piece Footboard.

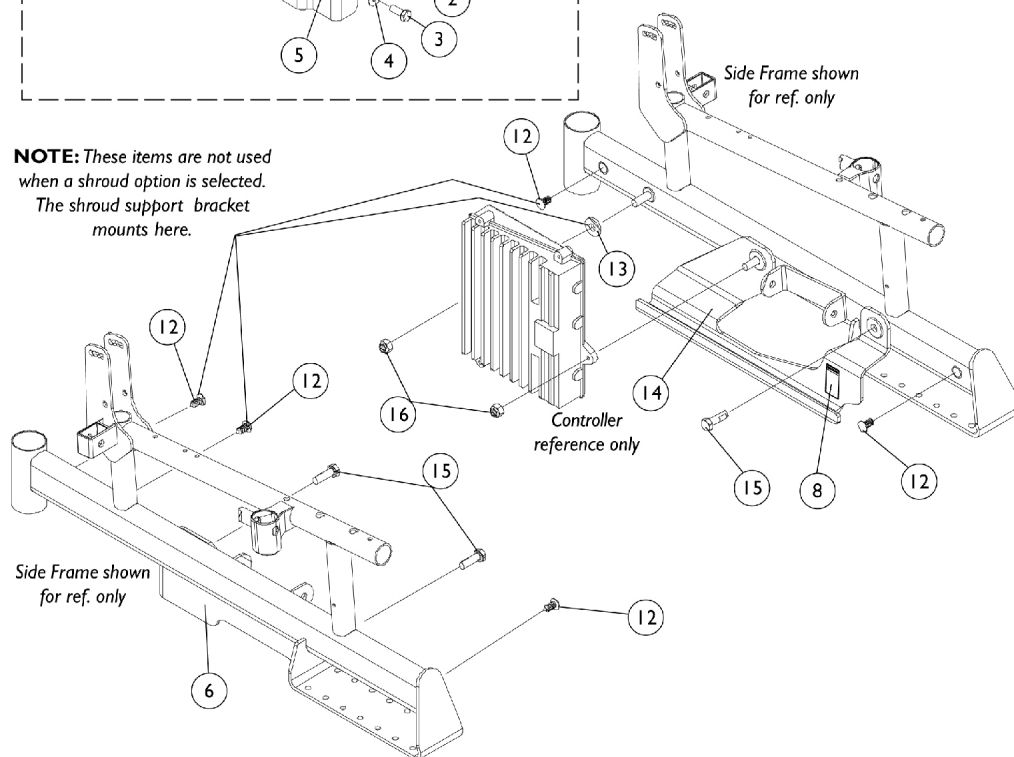
L - Without One Piece Footboard.

Battery Boxes & Trays

R2 jr. (14" Wide)



NOTE: These items are not used when a shroud option is selected. The shroud support bracket mounts here.



Battery Boxes & Trays

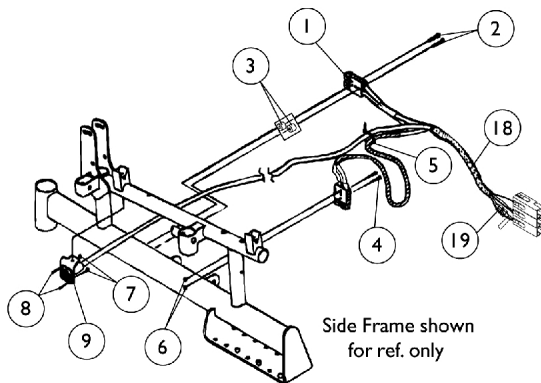
R2 jr. (14" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1079203	Decal, Warning Pinch Point	1	1
2		1026032	Washer, Nylon (11/32 x 11/16 x 1/16")	1	2
3		1086166-NLA	NLA - Screw, Hex Head (5/16-18 x 3/4")	1	2
4		1074133	Washer, Steel (5/16 x 3/4 x 1/16")	1	2
5		1028769	Locknut (5/16-18)	1	2
6		1090275-NLA	NLA - Tray, Battery with Buckle and Warning Decal	1	1
7		1086160-NLA	NLA - Bracket, Pivot, Black - Right	1	1
8	A	1086167-NLA	NLA - Battery Tray Assembly	1	1
9	B,C	1057941-NLA	NLA - Battery Box Top Assembly, Dual w/ Single Extended Connector, UI	1	2
10		1009268-NLA	NLA - Battery Box Bottom Assembly, U1	1	2
11	D	1057942-NLA	NLA - Battery Box Assembly, Dual w/ Single Extended Connector, UI	1	2
12		1058520-NLA	NLA - Fastener, Panel Snap-In	1	5
13		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
14		1090276-NLA	Bracket, Pivot with Warning Decal, Black - Left	1	1
15		1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
16		1026158	Locknut (5/16-18)	1	2
	C,F	1089385	Fuse, MIDI (Non-G/B & G/B) (80 AMP)	1	2
	E,F	1060318-NLA	NLA - Hardware, Battery Terminal, UI Batteries (Pair)	2	1

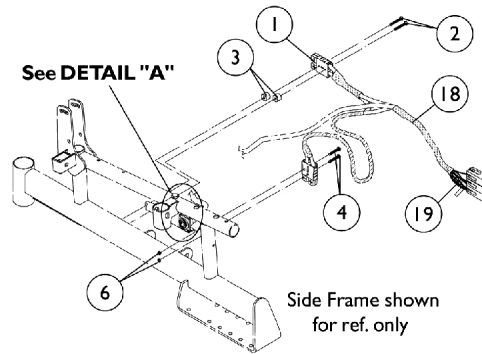
NOTE: A - Includes Items 2-7.
 B - It is recommended that new terminal hardware be ordered when a new battery box top is ordered.
 C - As of 11/05/99 the battery harness fuse changed from a Bussman 60AMP to a MIDI 80AMP fuse. This battery box top is compatible for all chairs manufactured before 11/05/99 and must be ordered whenever a replacement Bussman 60AMP fuse is requested.
 D - Includes Items 9 and 10.
 E - Hardware includes small battery terminal caps (gray and orange), 1/4-20 x 7/8" hex flange screws, 1/4-20 hex flange nuts, cable ties, locking tab washers and instruction sheet for two batteries.
 F - Not Shown.

Battery Chargers & Harnesses

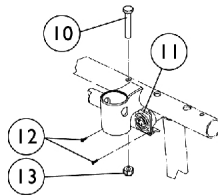
NOTE: Light Duty, 250-S models use a 4 amp. charger #1061411.



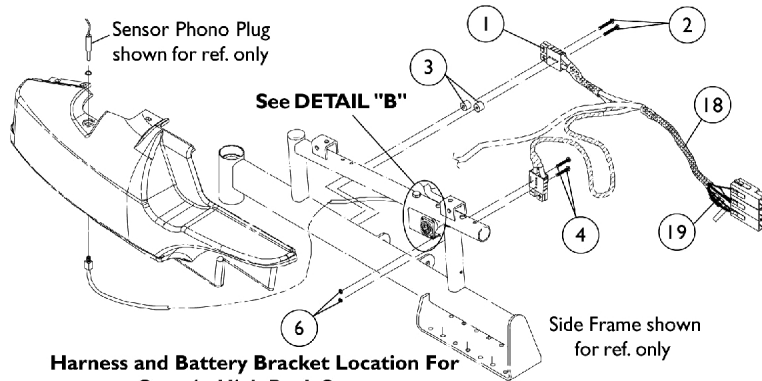
**Harness and Battery Bracket Location
For Sling Seats Before 4/15/99**



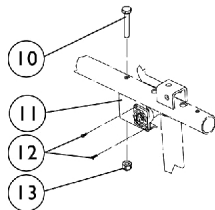
**Harness and Battery Bracket Location For Captain
Low Back Seats and (Sling Seats After 4/14/99)**



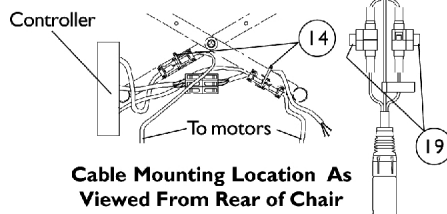
DETAIL "A"



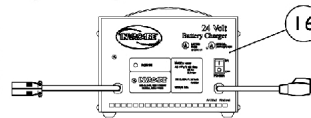
**Harness and Battery Bracket Location For
Captain High Back Seats**



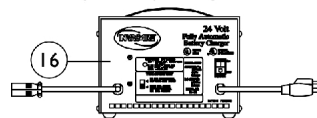
DETAIL "B"



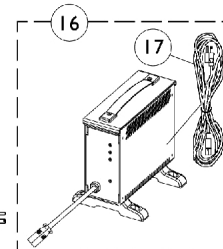
**Cable Mounting Location As
Viewed From Rear of Chair**



Lester 4 Amp. Battery Charger



Lester 8 Amp. Battery Charger



**Dynamic or CTE
Battery Charger**

Battery Chargers & Harnesses

NOTE: Light Duty, 250-S models use a 4 amp. charger #1061411.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1053834-NLA	NLA - Harness, Wiring, Standard	1	1
1	E	1070590-NLA	NLA - Harness, Wiring	1	1
2	A	1088802-NLA	NLA - Screw, Phillips Pan Head (6-32 x 1-1/4")	1	2
3	A	1088801-NLA	NLA - Washer, Nylon (3/16 x 1/2 x 3/8")	1	2
4		1011980-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 3/4")	1	2
5		1095503-NLA	NLA - Package, Tie Wrap (5-5/8" L)	10	1
6		P0870X050-NLA	NLA - Nut, Keps (#6-32)	1	2
7		P0870X000	Nut, Hex Keps (#4-40)	1	2
8		7930318-NLA	NLA - Package, Screw, Phillips Pan Head (#4-40 x 1/2")	25	1
9		1053837-NLA	NLA - Bracket, Charger Connector, Black	1	1
10		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
11		1086804-NLA	NLA - Bracket, Battery Charger Connector	1	1
12		1087226-NLA	NLA - Screw, Phillips Pan Head Tap (#4-24 x 3/8")	1	2
13		7930333	Locknut (1/4-20)	25	1
14		1095502-NLA	NLA - Package, Tie Wrap (11-1/2" L)	10	1
15		1083929-NLA	NLA - Cable, Charger Extension, Round Plug (24" L)	1	1
16	B,K	1053161-NLA	NLA - Charger, Battery, 8 Amp, 115vac, Off Board Dual Mode Round Plug, Lester	1	1
16		1085678-NLA	NLA - Charger, Battery, 8 Amp. 115vac, Off Board, Dual Mode, Round Plug w/ AC Power Line Cord, Dynamic	1	1
16	H	1061411-NLA	NLA - Charger, Battery, 4 Amp. 115vac, Off Board, Dual Mode, Round Plug, Lester	1	1
16	I,I1	1123249	Charger, Battery, 8 Amp. 115vac (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
16	I,I1	1123249E-NLA	NLA - WARR RPLMT - Charger, Battery, 8 Amp, 115VAC (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
17	J	1089627-NLA	NLA - Cord, AC Power, 115VAC, 2 Prong Off-Board (11' 6" L)	1	1
17		1121086	Cord, AC Power, 115VAC, 3 Prong On-Board (6' 6-1/2" L)	1	1
18	C	1090357-NLA	NLA - Wrap, Slit Wire Harness (1/2" O.D., 36" Long Cut To Length)	1	1
19	F	1098892-NLA	NLA - Fuse - Buss ATC-15 (15 AMP)	1	1
19	G	1090117-NLA	NLA - Fuse - Buss Mini ATM-15 (15 AMP)	1	1

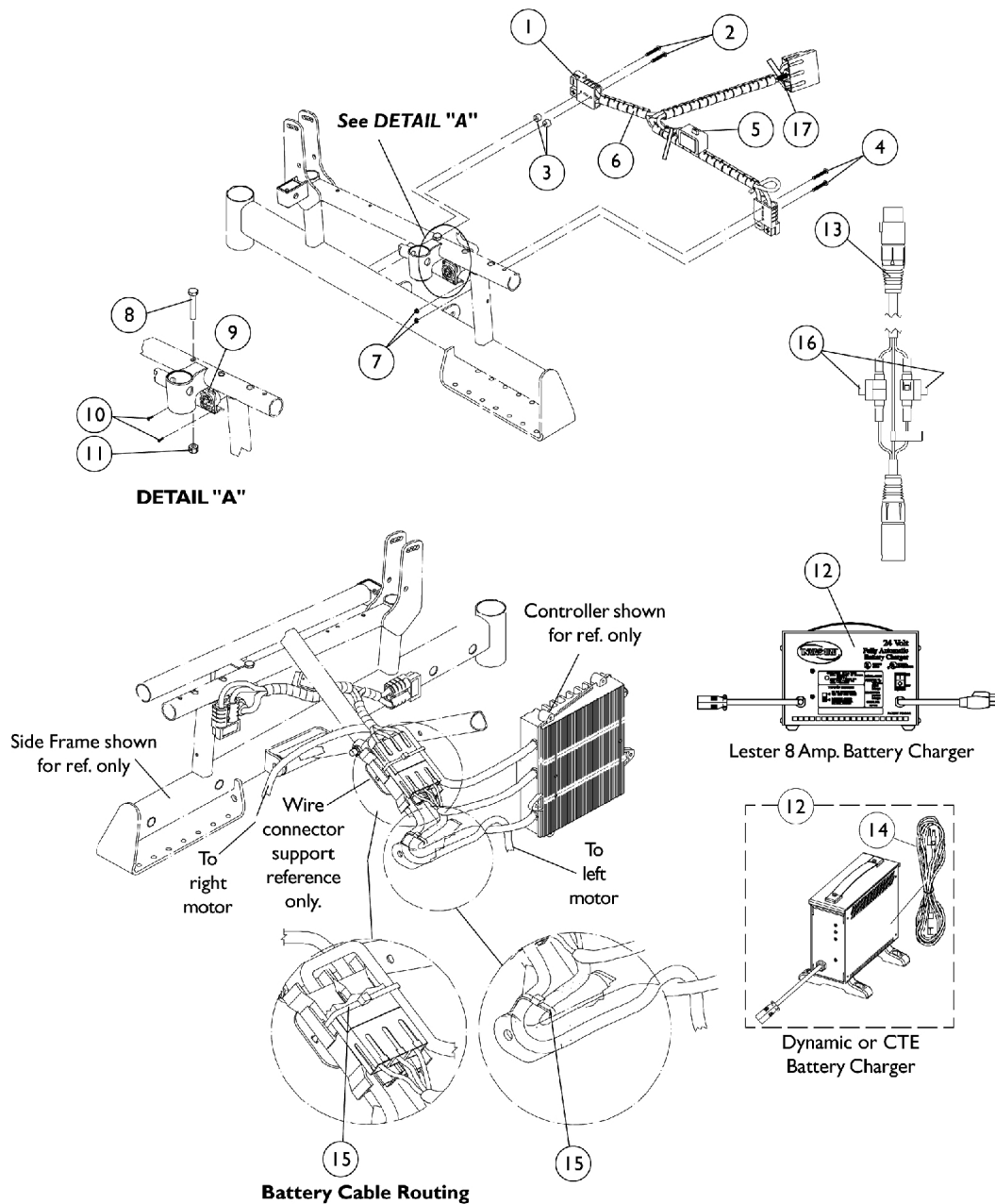
Battery Chargers & Harnesses

NOTE: Light Duty, 250-S models use a 4 amp. charger #1061411.

NOTE: A - Items 2 and 3 changed after 4/14/99. Order Items 2 and 3 together for chairs manufactured before 4/15/99.
B - On 7/18/01 Lester 8AMP battery charger was reinstated.
C - Plastic wire wrap replaced mesh fabric and heat shrink 9/1/99. Part #1090357 can be used for chairs manufactured before 9/1/99 as well.
D - Sling Seats and Low Back Captain Seat.
E - High Back Captain Seat.
F - Before 4/1/03. Wiring Harnesses (2) required. Charger Extension Cable (1) required.
G - After 3/31/03. Wiring Harnesses (2) required. Charger Extension Cable (2) required.
H - CTE 8 Amp. charger replaced the obsoleted 4 Amp. charger as of 4/1/04.
I - CTE charger introduced 4/1/04. Used on Gel Cell or AGM (Absorbed Glass Mat) batteries. For wet cell batteries refer to the 8 amp. Lester charger.
I1 - 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.
J - No longer available as a service part. Please use 1121086 as its replacement.
K - Use Battery Charger part number 1123249 as a replacement.

Battery Chargers & Harness

R2 jr. (14" Wide)



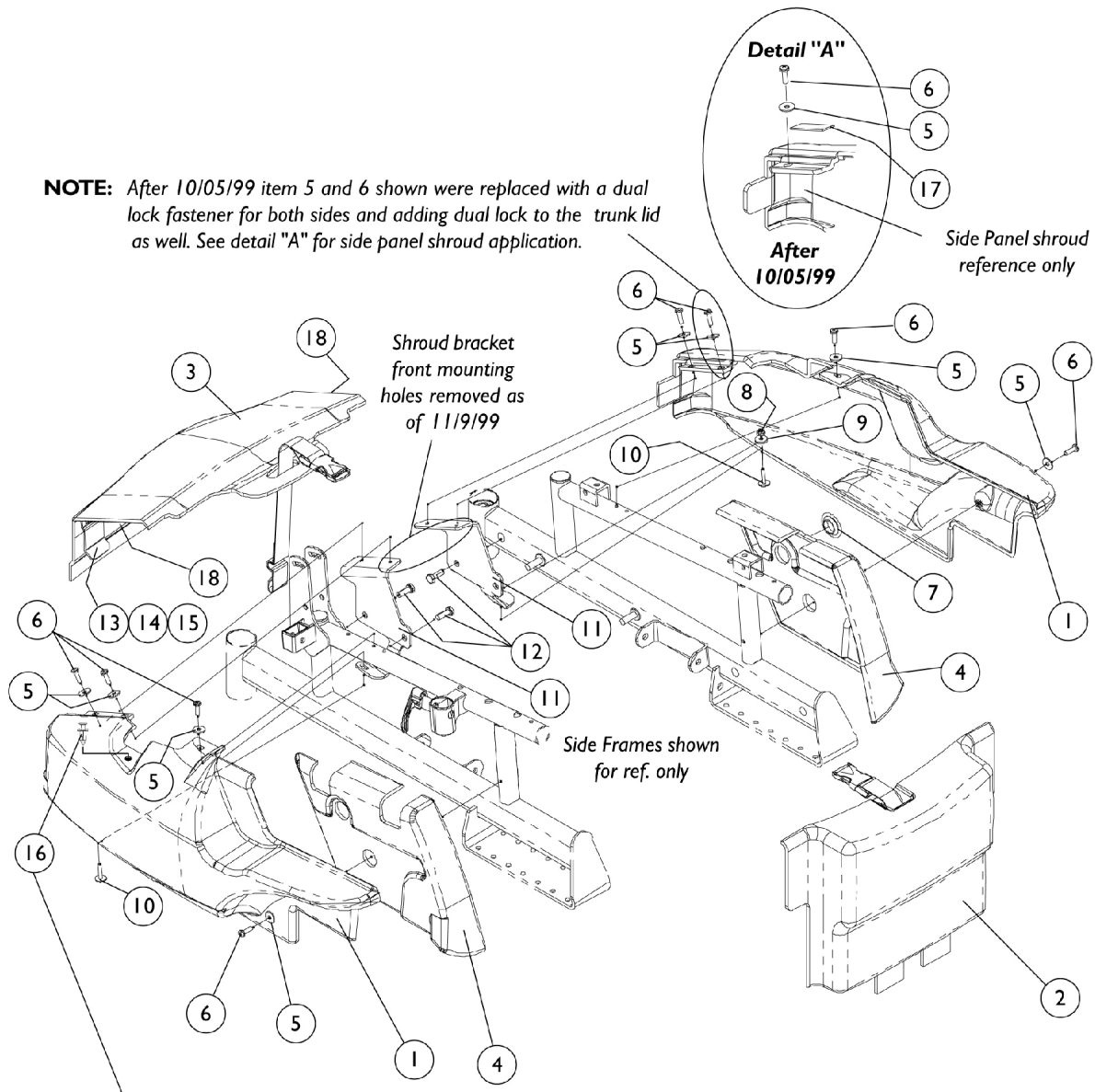
Battery Chargers & Harness R2 jr. (14" Wide)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1086168-NLA	NLA - Harness, Wiring, R2 jr.	1	1
2		1088802-NLA	NLA - Screw, Phillips Pan Head (6-32 x 1-1/4")	1	2
3		1088801-NLA	NLA - Washer, Nylon (3/16 x 1/2 x 3/8")	1	2
4		1011980-NLA	NLA - Screw, Phillips Pan Head (#6-32 x 3/4")	1	2
5		1090117-NLA	NLA - Fuse - Buss Mini ATM-15 (15 AMP)	1	1
6		1090357-NLA	NLA - Wrap, Slit Wire Harness (1/2" O.D., 36" Long Cut To Length)	1	1
7		P0870X050-NLA	NLA - Nut, Keps (#6-32)	1	2
8		1030949	Screw, Hex Head (1/4-20 x 1-1/2")	1	1
9		1086804-NLA	NLA - Bracket, Battery Charger Connector	1	1
10		1087226-NLA	NLA - Screw, Phillips Pan Head Tap (#4-24 x 3/8")	1	1
11		7930333	Locknut (1/4-20)	25	1
12	A	1053161-NLA	NLA - Charger, Battery, 8 Amp, 115vac, Off Board Dual Mode Round Plug, Lester	1	1
12		1085678-NLA	NLA - Charger, Battery, 8 Amp. 115vac, Off Board, Dual Mode, Round Plug w/ AC Power Line Cord, Dynamic	1	1
12	D,D1	1123249	Charger, Battery, 8 Amp. 115vac (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
12	D,D1	1123249E-NLA	NLA - WARR RPLMT - Charger, Battery, 8 Amp, 115VAC (Off Board) Single Mode Round Plug w/ AC Power Line Cord	1	1
13		1083929-NLA	NLA - Cable, Charger Extension, Round Plug (24" L)	1	1
14	E	1089627-NLA	NLA - Cord, AC Power, 115VAC, 2 Prong Off-Board (11' 6" L)	1	1
14		1121086	Cord, AC Power, 115VAC, 3 Prong On-Board (6' 6-1/2" L)	1	1
15		1095502-NLA	NLA - Package, Tie Wrap (11-1/2" L)	10	1
16	B	1098892-NLA	NLA - Fuse - Buss ATC-15 (15 AMP)	1	1
16	C	1090117-NLA	NLA - Fuse - Buss Mini ATM-15 (15 AMP)	1	2
17	B	1101099-NLA	NLA - Fuse, Buss ATC-20 (20 AMP)	1	1
17	C	1119230-NLA	NLA - Fuse - Buss Mini ATM-20 (20 AMP)	1	1

NOTE: A - On 7/18/01 Lester 8 AMP battery charger was reinstated.
 B - Before 4/1/03
 C - After 3/31/03
 D - CTE charger introduced 4/1/04. Used on Gel Cell or AGM (Absorbed Glass Mat) batteries. For wet cell batteries refer to the 8 amp. Lester charger.
 D1 - 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.
 E - No longer available as a service part. Please use 1121086 as its replacement.

Shroud Covers (Before 3/1/00)

NOTE: After 10/05/99 item 5 and 6 shown were replaced with a dual lock fastener for both sides and adding dual lock to the trunk lid as well. See detail "A" for side panel shroud application.



Shroud Covers (Before 3/1/00)

Item #'s 1-4 Shroud Covers

Item Number	Description	Bright Plum Metallic	Bright Blue Metallic	Blue Green Chameleon	Candy Apple Red	Bright Silver Metallic
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Right	1087147-NLA See Note(s) B	1087148-NLA See Note(s) B	1087149-NLA See Note(s) B	1087150-NLA See Note(s) B	1087151-NLA See Note(s) B
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Left	1087152 See Note(s) B	1087153-NLA See Note(s) B	1087154-NLA See Note(s) B	1087155-NLA See Note(s) B	1087156-NLA See Note(s) B
2	Battery Cover Ranger II Only - 16" W	1085576-NLA See Note(s) C, A	1085577-NLA See Note(s) A, C	1085578-NLA See Note(s) A, C	1085579-NLA See Note(s) A, C	1086624-NLA See Note(s) A, C
2	Battery Cover Ranger II Only - 18" W	1085580-NLA See Note(s) A, C	1085581-NLA See Note(s) A, C	1085582-NLA See Note(s) C	1085583 See Note(s) C	1086625-NLA See Note(s) C, A
2	Battery Cover Ranger II Only - 20" W	1085584	1085585	1085586-NLA See Note(s) A	1085587	1086626-NLA See Note(s) A
3	Trunk Lid - 16" W	1087157-NLA See Note(s) C, A	1087158-NLA See Note(s) A, C	1087159-NLA See Note(s) A, C	1087160-NLA See Note(s) A, C	1087161-NLA See Note(s) A, C
3	Trunk Lid - 18" W	1087162-NLA See Note(s) A, C	1087163-NLA See Note(s) C	1087164-NLA See Note(s) C	1087165-NLA See Note(s) C	1087166-NLA See Note(s) A, C
3	Trunk Lid - 20" W	1087167 See Note(s) C	1087168-NLA See Note(s) A	1087169-NLA See Note(s) C	1087170-NLA See Note(s) C	1087171-NLA See Note(s) A, C
4	Filler w/o Plug Button (Captain) - Black Only - Right	1088309-NLA	1088309-NLA	1088309-NLA	1088309-NLA	1088309-NLA
4	Filler w/o Plug Button (Captain) - Black Only - Left	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA
4	Filler w/o Plug Button (Sling Seat) - Black Only - Right	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA

Shroud Covers (Before 3/1/00)

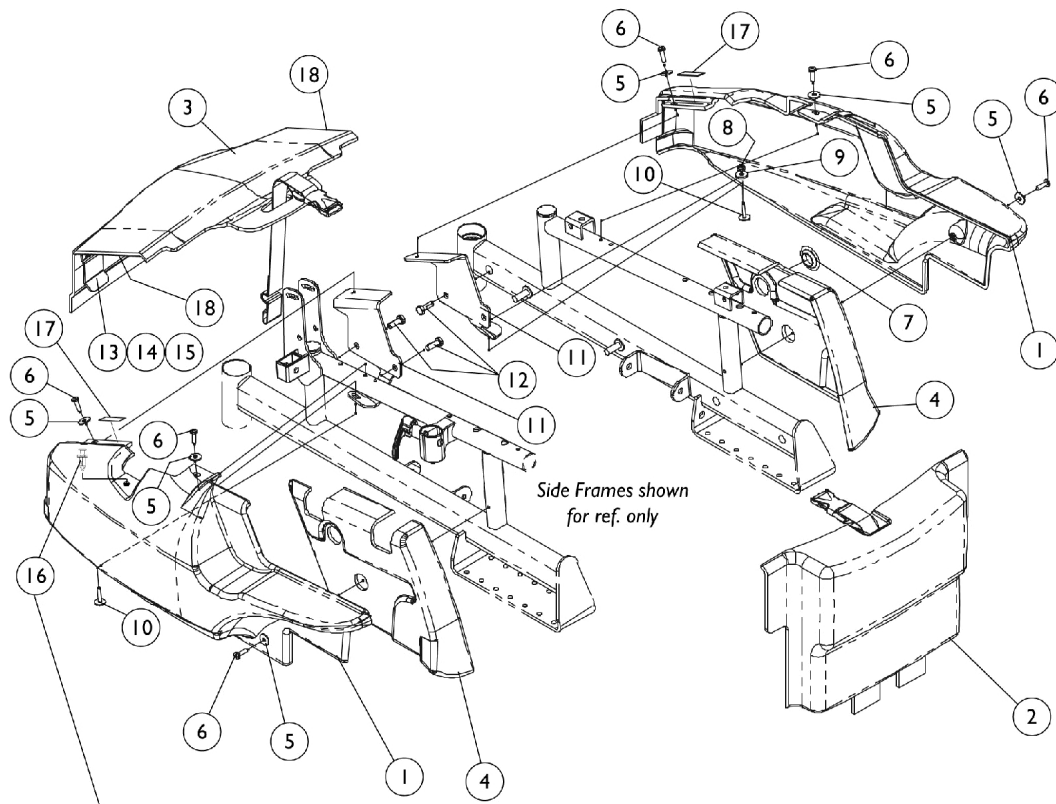
Item #'s 1-4 Shroud Covers

Item Number	Description	Bright Plum Metallic	Bright Blue Metallic	Blue Green Chameleon	Candy Apple Red	Bright Silver Metallic
4	Filler w/o Plug Button (Sling Seat) - Black Only - Left	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA
NOTE: A - Shroud is No Longer Available. See Shroud pages dated "After 2/29/00" for color conversion options. B - Decals not included. See page titled, "Packaging, Literature and Decals." C - Captain seat shrouds in 18" wide only.						

Shroud Covers (Before 3/1/00)

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-4		See Chart	Item #'s 1-4 Shroud Covers	1	1
5	A	1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6	A	1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		1089724-NLA	NLA - Plug Button, Black	1	2
8		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
9		1070594-NLA	NLA - Bushing, Rubber	1	1
10		1070575-NLA	NLA - Screw, SEMS w/ Washer (#10-32 x 7/8")	1	2
11		1088261-NLA	NLA - Bracket, Shroud, Black - Right	1	1
11		1088262	Bracket, Shroud, Black - Left	1	1
12		1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
13		1070577-NLA	NLA - Plate, Trunk Clip	1	2
14		1070588-NLA	NLA - Screw, Phillips Truss Head (#10-32 x 1/2")	1	4
15		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
16	B	1088497-NLA	NLA - Fastener, Panel (5/8" W x 3/4" L)	1	1
17		1070555-NLA	NLA - Fastener, Dual Lock (5/8" W x 2" L)	1	2
18		1070556-NLA	NLA - Fastener, Dual Lock (1" W x 2" L)	1	2
	C,D	1087172	Hardware, Side Panel Attaching	1	1
NOTE: A - After 10/05/99 quantity changed from 8 to 6 when dual lock fastener was added to side panel shrouds and trunk lid. See detail "A" on previous page. B - Sling Seat Only. C - Includes Items 5, 6, 10, 11, 12, 15 and 17. D - Not Shown.					

Shroud Covers (After 2/29/00)



Shroud Covers (After 2/29/00)

Item #'s 1-4 Shroud Covers

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Right	1095408-NLA See Note(s) A	1095409 See Note(s) A	1095407-NLA See Note(s) A	1095406-NLA See Note(s) A
1	Side Panel with Rubber Bushing (Captain & Sling Seat) - Left	1095412 See Note(s) A	1095413 See Note(s) A	1095411 See Note(s) A	1095410 See Note(s) A
2	Battery Cover Ranger II Only - 16" W	1095392-NLA See Note(s) B	1095393-NLA See Note(s) B	1095391-NLA See Note(s) B	1095390-NLA See Note(s) B
2	Battery Cover Ranger II Only - 18" W	1095396-NLA See Note(s) B	1095397-NLA See Note(s) B	1095395-NLA See Note(s) B	1095394-NLA See Note(s) B
2	Battery Cover Ranger II Only - 20" W	1095400-NLA See Note(s) B	1095401-NLA See Note(s) B	1095399-NLA See Note(s) B	1095398-NLA See Note(s) B
3	Trunk Lid - 16" W	1095416-NLA See Note(s) B	1095417-NLA See Note(s) B	1095415-NLA See Note(s) B	1095414-NLA See Note(s) B
3	Trunk Lid - 18" W	1095420-NLA See Note(s) B	1095421-NLA See Note(s) B	1095419-NLA See Note(s) B	1095418-NLA See Note(s) B
3	Trunk Lid - 20" W	1095424-NLA See Note(s) B	1095425-NLA See Note(s) B	1095423-NLA See Note(s) B	1095422-NLA See Note(s) B
4	Filler without Plug Button (Captain) (Black only) - Right	1088309-NLA	1088309-NLA	1088309-NLA	1088309-NLA
4	Filler without Plug Button (Captain) (Black only) - Left	1088310-NLA	1088310-NLA	1088310-NLA	1088310-NLA
4	Filler without Plug Button (Sling Seat) (Black only) - Right	1088311-NLA	1088311-NLA	1088311-NLA	1088311-NLA
4	Filler without Plug Button (Sling Seat) (Black only) - Left	1088312-NLA	1088312-NLA	1088312-NLA	1088312-NLA

Shroud Covers (After 2/29/00)

Item #'s 1-4 Shroud Covers

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
	Color Conversion Package, Ranger II - 16" W	1096899 See Note(s) B, A, C, D	1096900 See Note(s) A, B, C, D	1096898 See Note(s) D, A, B, C	1096897 See Note(s) A, B, C, D
	Color Conversion Package, Ranger II - 18" W	1096895 See Note(s) D, A, B, C	1096896 See Note(s) A, D, C, B	1096894 See Note(s) A, B, D	1096893-NLA See Note(s) A, B, D
	Color Conversion Package, Ranger II - 20" W	1096903 See Note(s) D, C	1096904 See Note(s) D	1096902 See Note(s) D, C	1096901 See Note(s) D, C
	Color Conversion Package, Excel - 16" W	1096915-NLA See Note(s) D, C	1096916-NLA See Note(s) C, D	1096914-NLA See Note(s) D	1096913-NLA See Note(s) D
	Color Conversion Package, Excel - 18" W	1096911-NLA See Note(s) D, C	1096912-NLA See Note(s) D, C	1096910-NLA See Note(s) D, C	1096909-NLA See Note(s) D, B, C, A
	Color Conversion Package, Excel - 20" W	1096919-NLA See Note(s) B, C, A, D	1096920-NLA See Note(s) A, C, D, B	1096918-NLA See Note(s) A, D, C, B	1096917-NLA See Note(s) A, B, C, D
NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals." B - Captain seat shrouds in 18" wide only. C - Not Shown. D - Includes Items 1, 3, 5, 6, 8, 10, 16 and 17.					

Shroud Covers (After 2/29/00)

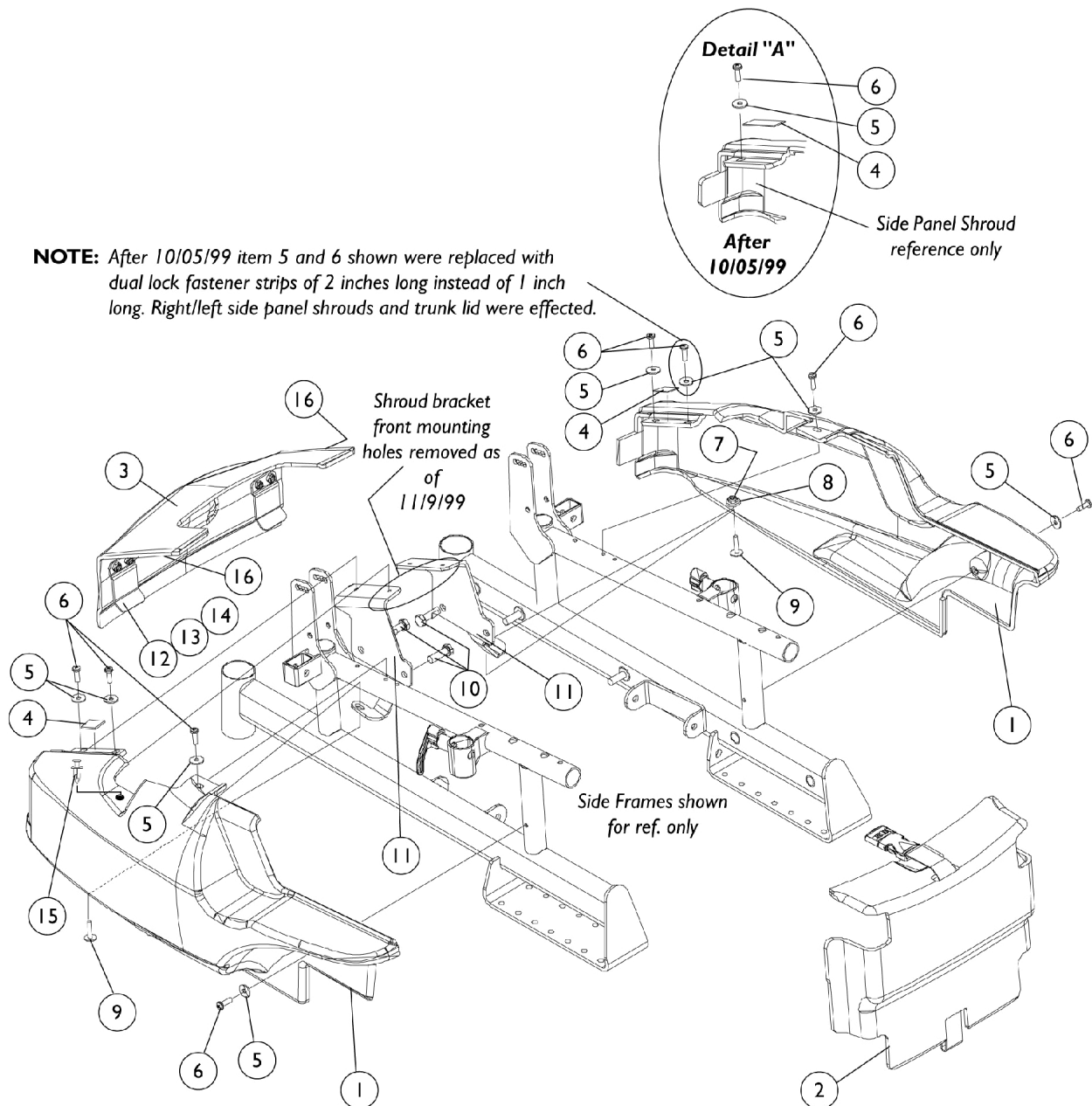
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-4		See Chart	Item #'s 1-4 Shroud Covers	1	1
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	6
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	6
7		1089724-NLA	NLA - Plug Button, Black	1	2
8		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
9		1070594-NLA	NLA - Bushing, Rubber	1	1
10		1070575-NLA	NLA - Screw, SEMS w/ Washer (#10-32 x 7/8")	1	2
11		1088261-NLA	NLA - Bracket, Shroud, Black - Right	1	1
11		1088262	Bracket, Shroud, Black - Left	1	1
12		1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
13		1070577-NLA	NLA - Plate, Trunk Clip	1	2
14		1070588-NLA	NLA - Screw, Phillips Truss Head (#10-32 x 1/2")	1	4
15		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
16	C	1088497-NLA	NLA - Fastener, Panel (5/8" W x 3/4" L)	1	1
17		1070555-NLA	NLA - Fastener, Dual Lock (5/8" W x 2" L)	1	2
18		1070556-NLA	NLA - Fastener, Dual Lock (1" W x 2" L)	1	2
	A,B	1087172	Hardware, Side Panel Attaching	1	1

NOTE: A - Not Shown.
 B - Includes Items 5, 6, 10, 11, 12, 15, and 17.
 C - Sling Seat Only.

Shroud Covers

R2 jr. (14" Wide)

(Before 3/1/00)



Shroud Covers

R2 jr. (14" Wide)

(Before 3/1/00)

Item #'s 1-3 Shroud Covers

R2 jr. (14" Wide)

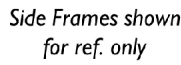
Item Number	Description	Bright Plum Metallic	Bright Blue Metallic	Blue Green Chameleon	Candy Apple Red	Bright Silver Metallic
1	Side Panel with Rubber Bushing (Sling Seat) - Right	1087147-NLA See Note(s) A, B	1087148-NLA See Note(s) A, B	1087149-NLA See Note(s) B, A	1087150-NLA See Note(s) B, A	1087151-NLA See Note(s) A, B
1	Side Panel with Rubber Bushing (Sling Seat) - Left	1087152 See Note(s) A, B	1087153-NLA See Note(s) A	1087154-NLA See Note(s) A	1087155-NLA See Note(s) A	1087156-NLA See Note(s) A
2	Battery Cover	1085572-NLA See Note(s) B	1085573-NLA See Note(s) B	1085574-NLA See Note(s) B	1085575-NLA See Note(s) B	1086623-NLA See Note(s) B
3	Trunk Lid	1086181-NLA See Note(s) B	1086182-NLA See Note(s) B	1086183-NLA See Note(s) B	1086184-NLA See Note(s) B	1086185-NLA See Note(s) B

NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals."
B - These Shrouds are no longer available. See page titled, "Shroud Covers - After 2/29/00" for color conversion options.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	Item #'s 1-3 Shroud Covers	1	1
4		1070555-NLA	NLA - Fastener, Dual Lock (5/8" W x 2" L)	1	2
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
8		1070594-NLA	NLA - Bushing, Rubber	1	2
9		1070575-NLA	NLA - Screw, SEMS w/ Washer (#10-32 x 7/8")	1	2
10		1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
11		1088261-NLA	NLA - Bracket, Shroud, Black - Right	1	1
11		1088262	Bracket, Shroud, Black - Left	1	1
12		1070577-NLA	NLA - Plate, Trunk Clip	1	2
13		1070588-NLA	NLA - Screw, Phillips Truss Head (#10-32 x 1/2")	1	4
14		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
15		1088497-NLA	NLA - Fastener, Panel (5/8" W x 3/4" L)	1	1
16		1070556-NLA	NLA - Fastener, Dual Lock (1" W x 2" L)	1	2
	A,B	1086186	Hardware, Side Panel Attaching	1	1

NOTE: A - Not Shown.
B - Includes Items 4-7 and 9-11.

**R2 jr. (14" Wide)
(After 2/29/00)**



Shroud Covers

R2 jr. (14" Wide)

(After 2/29/00)

Item #'s 1-3 Shroud Covers

R2 jr. (14" Wide)
After 2/29/00

Item Number	Description	Ocean Blue	Emerald Green	Liquid Black	Candy Apple Red
1	Side Panel with Rubber Bushing - Right	1095408-NLA See Note(s) A	1095409 See Note(s) A	1095407-NLA See Note(s) A	1095406-NLA See Note(s) A
1	Side Panel with Rubber Bushing - Left	1095412 See Note(s) A	1095413 See Note(s) A	1095411 See Note(s) A	1095410 See Note(s) A
2	Battery Cover	1095388-NLA	1095389-NLA	1095387-NLA	1095386-NLA
3	Trunk Lid	1095404-NLA	1095405-NLA	1095403-NLA	1095402-NLA
	Color Conversion Package	1096907 See Note(s) B, A, C	1096908 See Note(s) B, C, A	1096906 See Note(s) C, B, A	1096905 See Note(s) A, B, C
NOTE: A - Decals not included. See page titled, "Packaging, Literature and Decals." B - Includes Items 1-7, 9, 15. C - Not Shown.					

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1-3		See Chart	Item #'s 1-3 Shroud Covers	1	1
4		1070555-NLA	NLA - Fastener, Dual Lock (5/8" W x 2" L)	1	2
5		1070587	Washer, Flat (3/16 x 5/8 x 1/16")	1	8
6		1028755	Screw, Phillips Pan Head (#10-32 x 5/8")	1	8
7		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
8		1070594-NLA	NLA - Bushing, Rubber	1	2
9		1070575-NLA	NLA - Screw, SEMS w/ Washer (#10-32 x 7/8")	1	2
10		1050161-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1")	1	3
11		1088261-NLA	NLA - Bracket, Shroud, Black - Right	1	1
11		1088262	Bracket, Shroud, Black - Left	1	1
12		1070577-NLA	NLA - Plate, Trunk Clip	1	2
13		1070588-NLA	NLA - Screw, Phillips Truss Head (#10-32 x 1/2")	1	4
14		7930332-NLA	NLA - Locknut, High Profile (#10-32)	25	1
15		1088497-NLA	NLA - Fastener, Panel (5/8" W x 3/4" L)	1	1
16		1070556-NLA	NLA - Fastener, Dual Lock (1" W x 2" L)	1	2
	A,B	1086186	Hardware, Side Panel Attaching	1	1
NOTE: A - Not Shown. B - Includes Items 4-7 and 9-11.					

Front Riggings Reference Chart

Support Assemblies

Riggings	Color Right	Color Left	Chrome Right	Chrome Left
PW93	8881070776	8881070777	N/A	N/A
PW93ST	8881070784-NLA	8881070785-NLA	N/A	N/A
PW93E	8881070768-NLA	8881070769-NLA	N/A	N/A
P93M	8881037836-NLA	8881037837-NLA	N/A	N/A
P904A (14-20" W)	8881058646-NLA See Note(s) A	8881058647-NLA See Note(s) A	N/A See Note(s) A	N/A See Note(s) A
PAS4A/PAL4A (14-20" W)	N/A	N/A	1058482-NLA See Note(s) A	1058483-NLA See Note(s) A

NOTE: A - Calf pads and attaching hardware not included with legrest. See page titled "Calf Pads and Attaching Hardware."

Pivot/Slide Tube with Footplate P93M

Side	Alumunim Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)
14"W - Right	1058573-NLA	N/A	1031928-NLA
14"W - Left	1058574-NLA	N/A	1031929-NLA
16-20"W - Right	1057969-NLA	1028892-NLA See Note(s) A	1031924-NLA
16-20"W - Left	1057970-NLA	1028893-NLA See Note(s) A	1031925-NLA
16-20"W 2" Longer - Right	N/A	N/A	1086519-NLA
16-20"W 2" Longer - Left	N/A	N/A	1086523-NLA
16-20"W 4" Longer - Right	N/A	N/A	1086520-NLA
16-20"W 4" Longer - Left	N/A	N/A	1086524-NLA

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

NOTE: The Pivot/Slide tube mounting hardware is not included.

Front Riggings Reference Chart

Pivot/Slide Tube with Footplate PW93/PW93E

Side	Aluminum Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)	Adjustable Angle Flip-up Footplate (AT5543)
14"W - Right	1041542-NLA	N/A	1086790-NLA	1060444
14"W - Left	1041543-NLA	N/A	1086791-NLA	1060445
16-20"W - Right	1074149	1074151-NLA	1026395	1062756
16-20"W - Left	1074150	1074152-NLA	1026396	1062757
16-20"W 2" Longer - Right	1086494-NLA	N/A	1086515	N/A
16-20"W 2" Longer - Left	1086497-NLA	N/A	1086517	N/A
16-20"W 4" Longer - Right	1086495-NLA	N/A	1086516	N/A
16-20"W 4" Longer - Left	1086498-NLA	N/A	1086518	N/A

NOTE: The Pivot/Slide tube mounting hardware is not included.

Pivot/Slide Tube with Footplate PW93ST

Side	Composite Footplate (1651)
16-20"W - Right	1057859
16-20"W - Left	1057860

NOTE: The Pivot/Slide tube mounting hardware is not included.

Front Riggings Reference Chart

Pivot/Slide Tube with Footplate

PAS4A

Side	Aluminum Footplate (Standard - 1650)	Extra Large Aluminum Footplate (1350)
14"W - Right	1023905-NLA	1035454-NLA
14"W - Left	1023906-NLA	1035455-NLA

NOTE: The Pivot/Slide tube mounting hardware is not included.

Pivot/Slide Tube with Footplate

PAL4A

Side	Aluminum Footplate (Standard - 1650)	Extra Large Aluminum Footplate (1350)
16-20"W - Right	1023907	1035456
16-20"W - Left	1023908	1035457

NOTE: The Pivot/Slide tube mounting hardware is not included.

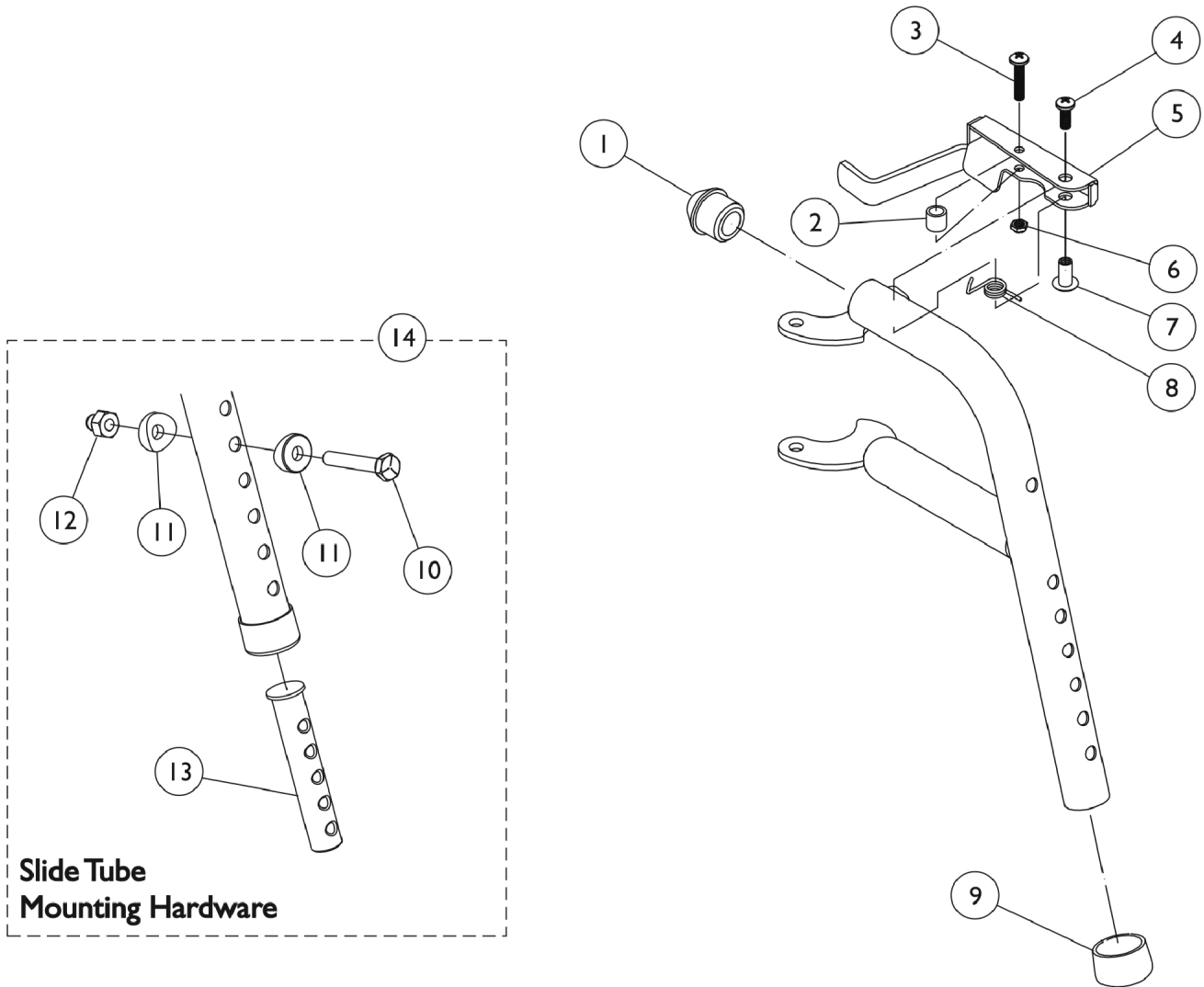
Pivot/Slide Tube with Footplate

P904A

Side	Aluminum Footplate (Standard - 1650)	Deluxe Aluminum Footplate (1450)	Extra Large Aluminum Footplate (1350)
14"W - Right	1058612-NLA	N/A	1058828-NLA
14"W - Left	1058613-NLA	N/A	1058829-NLA
16-20"W - Right	1058604	1028723-NLA	1058830
16-20"W - Left	1058605	1028724-NLA	1058831
16-20"W 2" Longer - Right	1086529-NLA	N/A	1086541-NLA
16-20"W 2" Longer - Left	1086531-NLA	N/A	1086551-NLA
16-20"W 4" Longer - Right	1086530-NLA	N/A	1086542-NLA
16-20"W 4" Longer - Left	1086532-NLA	N/A	1086552-NLA

NOTE: The Pivot/Slide tube mounting hardware is not included.

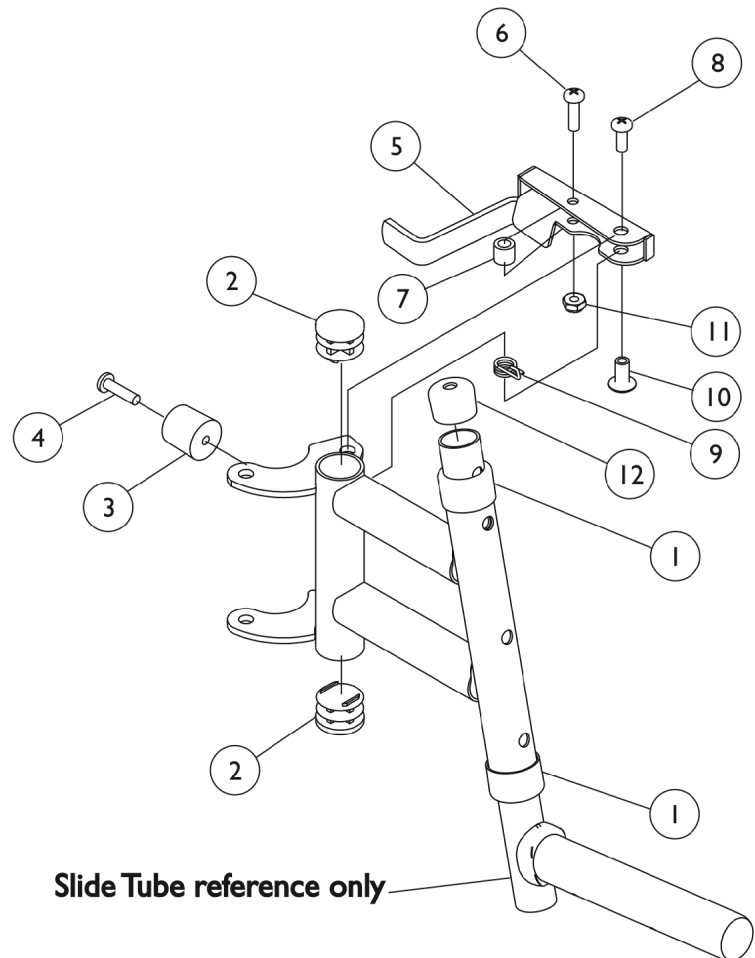
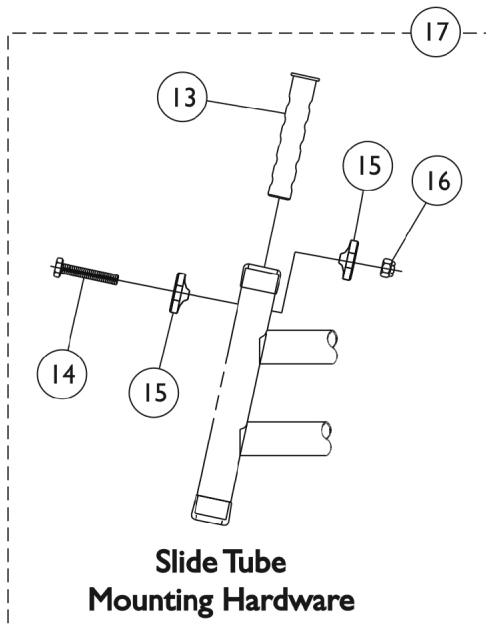
PW93 Footrest Supports



PW93 Footrest Supports

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	2
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 - Not Shown. B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." 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.					

PW93E Footrest Supports

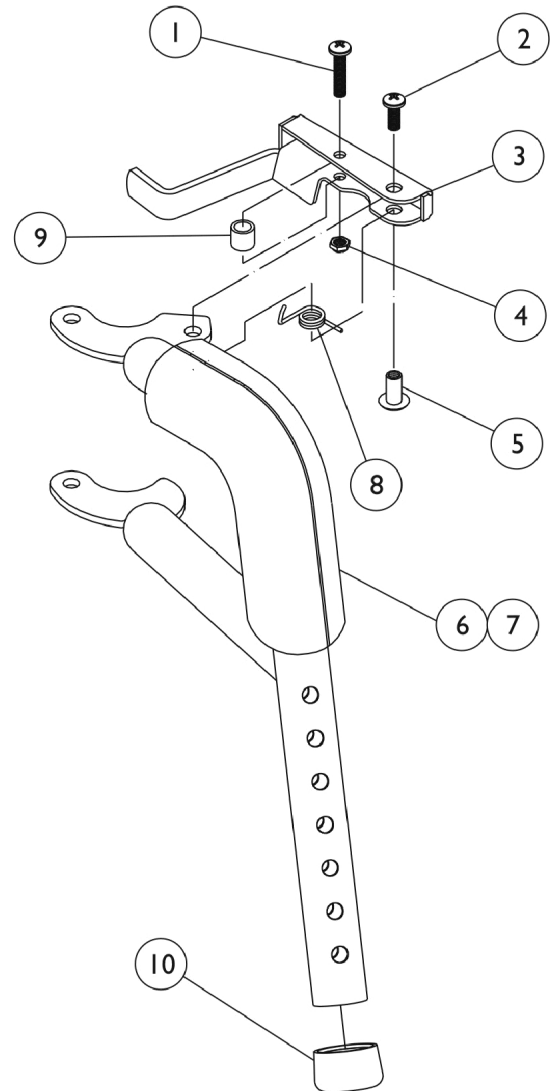
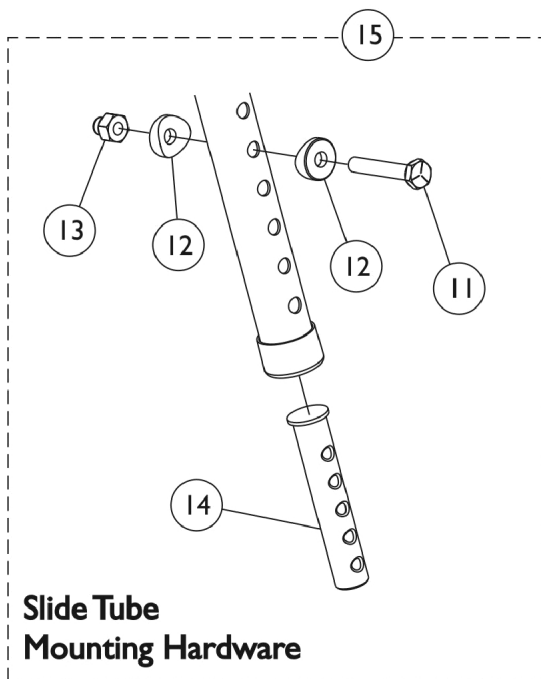


PW93E Footrest Supports

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 - Not Shown.
 B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
 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 Support

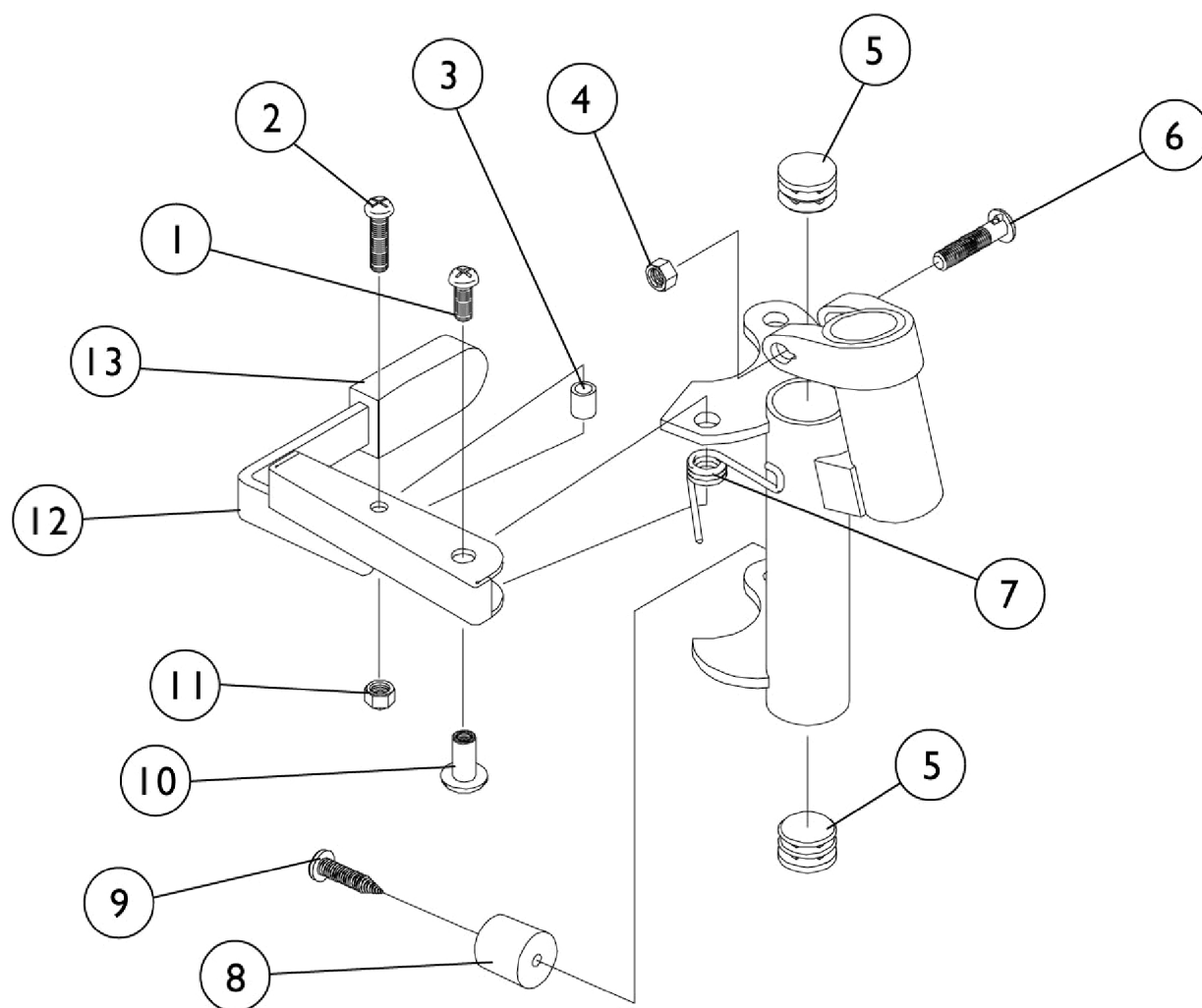


PW93ST Footrest Support

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
	A,B	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
	A,B	1028485-NLA	NLA - Nut, Hex (#10-32)	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	E	1020534	Insert, Threaded	1	1
15	D	1074143	Kit, Slide Tube Mounting Hardware	1	1
	A,B	1006490	Tip, Plastic, Black	1	1
	C,B	8881070784-NL A	NLA - Footrest Support Assembly, Adult, Color - Right	1	1
	C,B	8881070785-NL A	NLA - Footrest Support Assembly, Adult, Color - Left	1	1

NOTE: A - These items are only required on Release Handles for chairs Before 10/1/00.
 B - Not Shown.
 C - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
 D - Per Side.
 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.

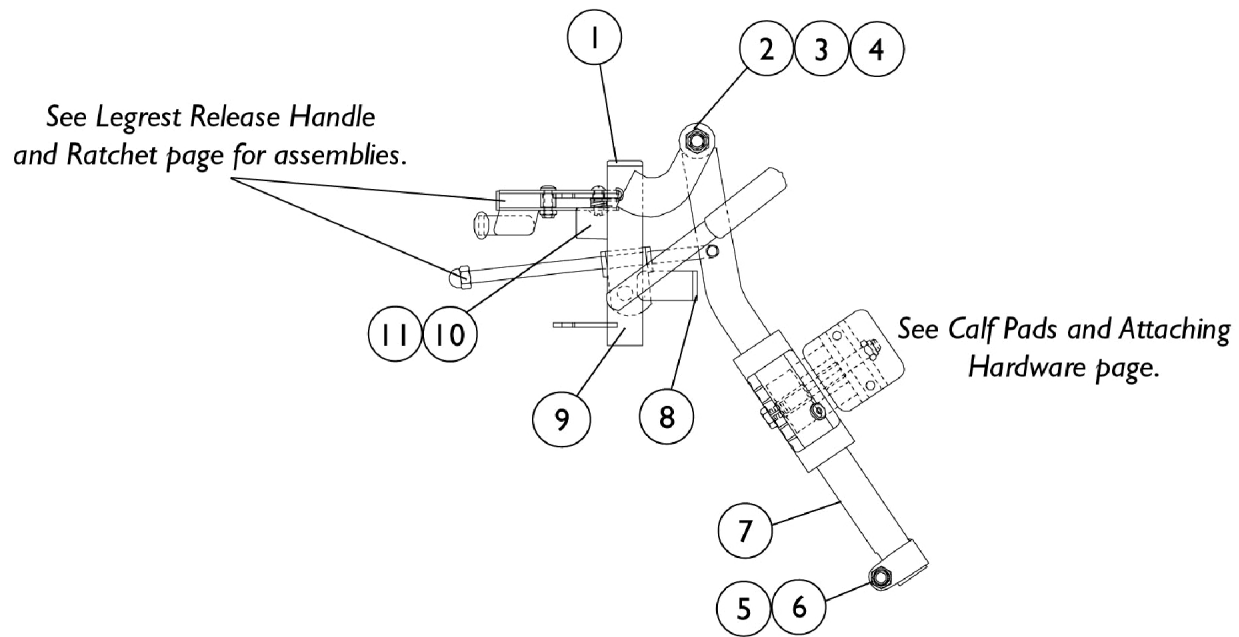
P93M Footrest Supports



P93M Footrest Supports

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		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 - Not Shown. B - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."					

P904A Legrest Supports

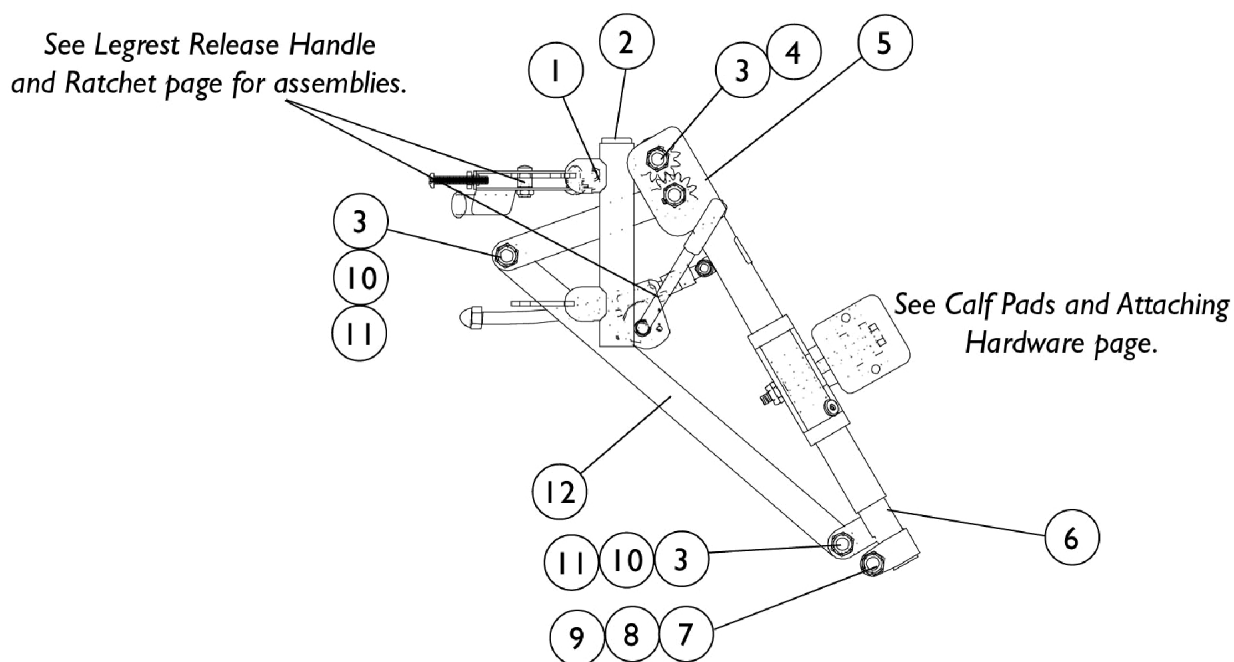


P904A Legrest Supports

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	1
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 when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."
B - Not Shown.

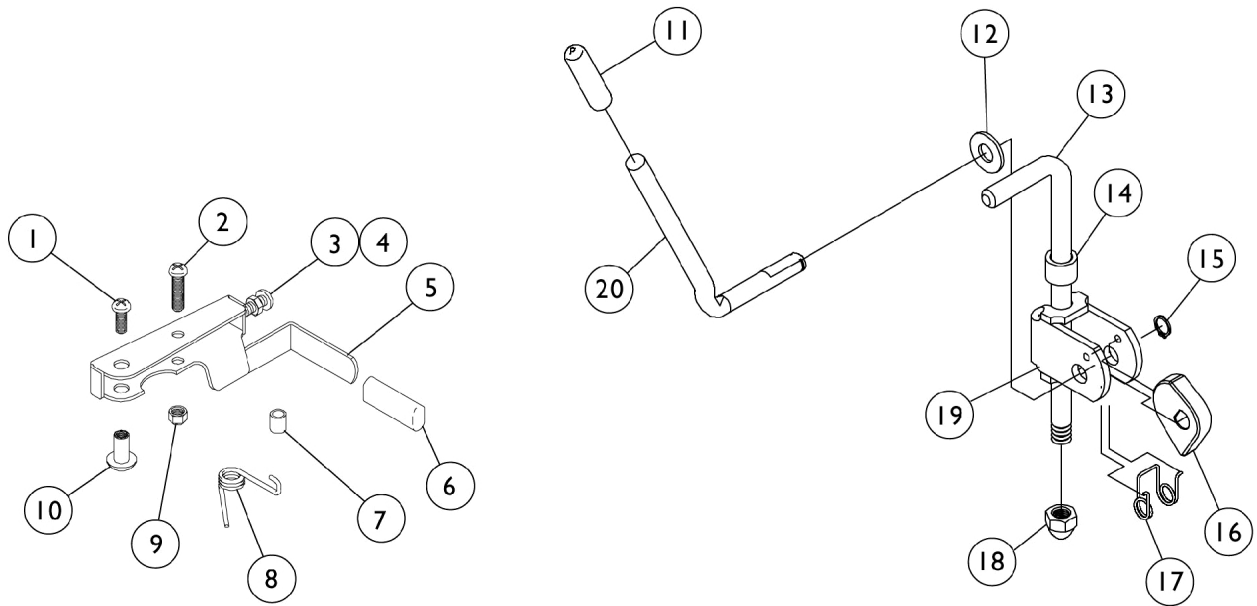
PAS4A/PAL4A Articulating Legrest Supports



PAS4A/PAL4A Articulating Legrest Supports

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 Handle & Ratchet

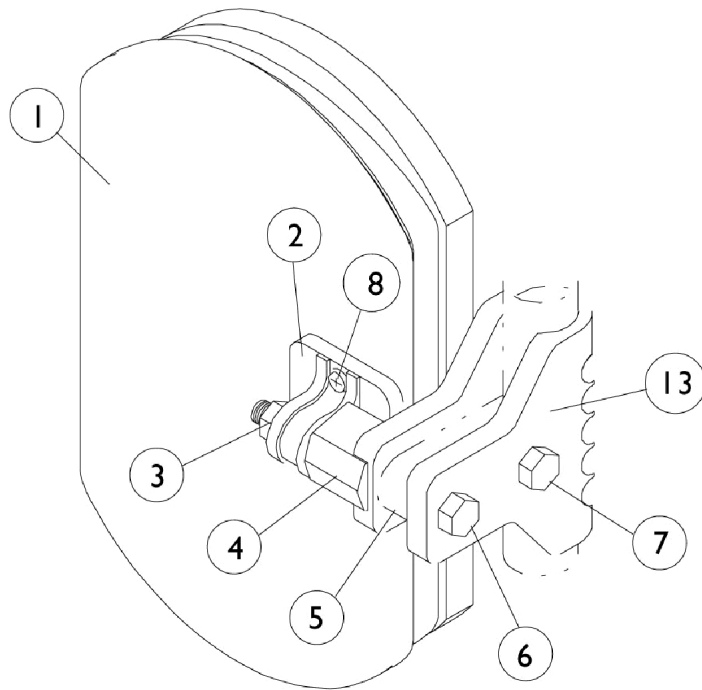


Legrest Release Handle & Ratchet

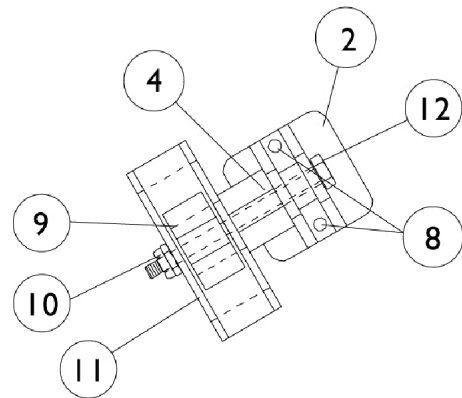
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		7930328-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 11/16")	25	1
2		7930335-NLA	NLA - Package, Screw, Phillips Pan Head (#10-32 x 1/2")	25	1
3	A	1026107	Screw, Phillips Pan Head (#10-32 x 1-3/8")	1	1
4	A	1028485-NLA	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")	2	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 & 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.



904 Legrest



**PAL4A/PAS4A
Articulating Legrest**

Calf Pads & 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.

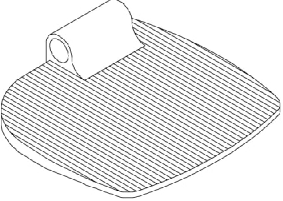
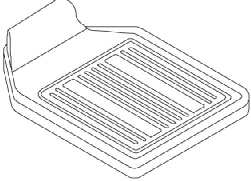
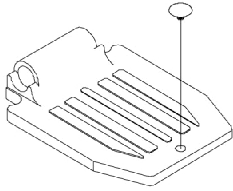
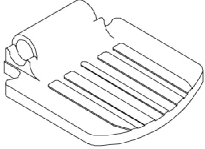
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A,B,G	88804529X003	Pad, Legrest, Vinyl - Right	1	1
1	A,B,G	88804529X004	Pad, Legrest, Vinyl - Left	1	1
1	A,C,D	8881091759	Pad w/ Cover and Screws, Legrest Vinyl (Pair)	2	1
1	A,C,E, G	8881091764	Pad, Legrest, Vinyl - Right/Left	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	F	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	1
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. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - 14" Wide - R2 jr. C - 16-20" Wide. D - Before 9/5/00. E - After 9/4/00. F - Includes Screws and Instruction Sheet. G - 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.					

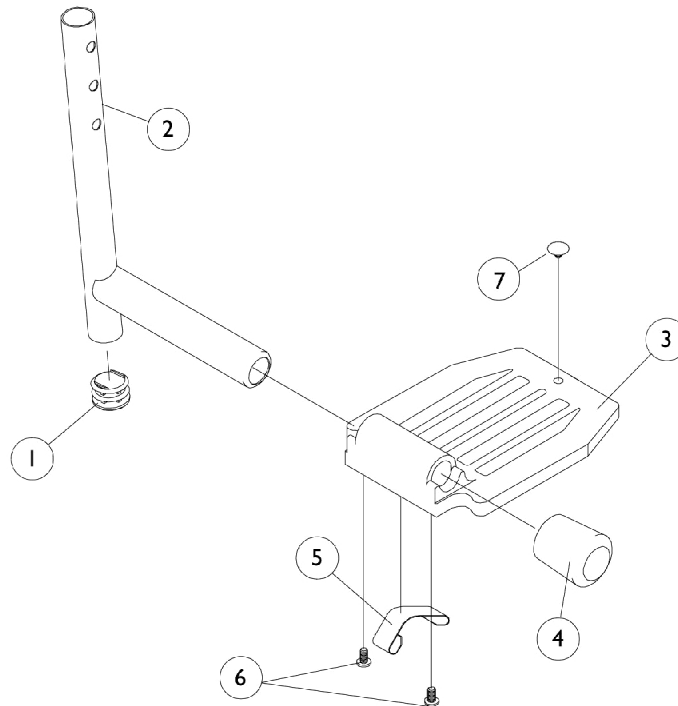
Pivot/ Slide Tube w/ Footplate

PW93, PW93E

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
I350 Extra large	I450 Deluxe	16" to 20" Wide Standard Alum.	14" Wide Standard Alum.



Pivot/ Slide Tube w/ Footplate

PW93, PW93E

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	B,A	1048834	Pivot/Slide Tube w/ Plug Button, Black	1	1
2	C	1070762-NLA	NLA - Tube, Pivot/Slide w/ Plug Button, Deluxe Aluminum, Black	1	1
2	B,C	1098906	Pivot/Slide Tube w/ Plug Button, Black (2" Longer)	1	1
2	B,C	1086482	Pivot/Slide Tube w/ Plug Button, Black (4" Longer)	1	1
3	D	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	D	1002343	Footplate, Aluminum, Extra Large, Black - Right (7" W x 8-1/2" L)	1	1
3	D	1002344	Footplate, Aluminum, Extra Large, Black - Left (7" W x 8-1/2" 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	B	1016346	Cap, End, Tube, Black (7/8")	1	1
4	A	1027095	Plug Button, Black (7/8")	1	1
5	B	1006981	Spring, Tension	1	1
5	C	1036120-NLA	NLA - Spring	1	2
5	E,A	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	1
7		1070168	Plug, Push, Footplate	1	1

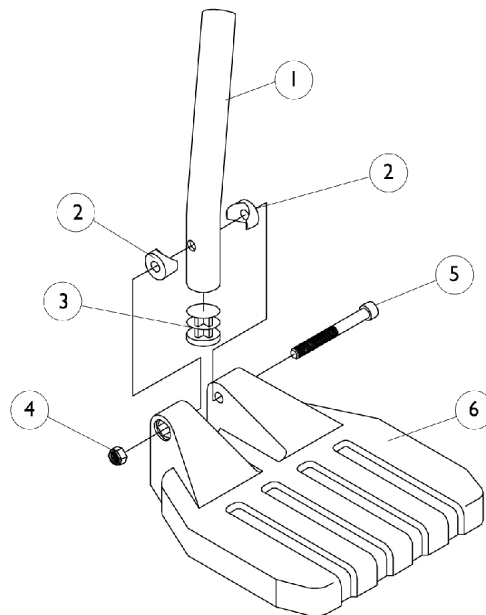
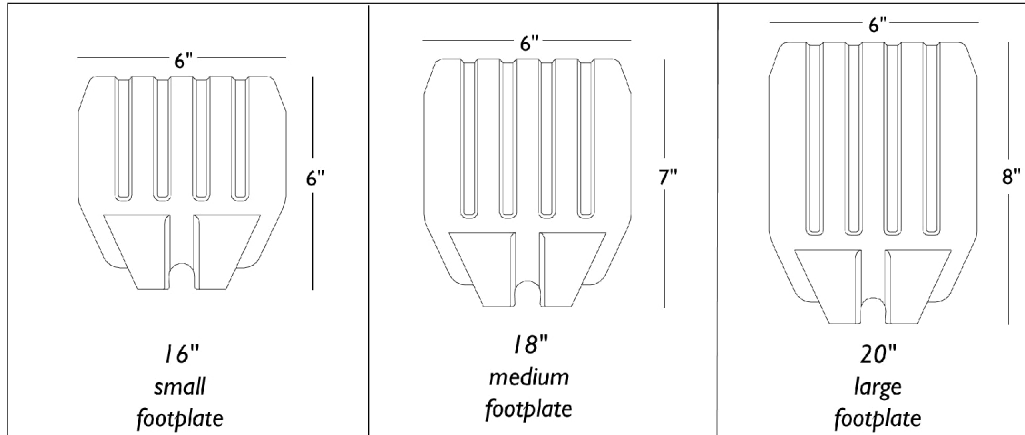
NOTE: A - Use with Extra Large Aluminium Footplate.
 B - Use with Standard Aluminium Footplate.
 C - Use with Deluxe Aluminium Footplate.
 D - 14" Wide (R2jr.)
 E - Use one or more leaf springs per assembly as required such that footplate may be moved by hand to the up-right position and remain in place.

Pivot/ Slide Tube w/ Footplate

PW93ST

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".



Pivot/ Slide Tube w/ Footplate PW93ST

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

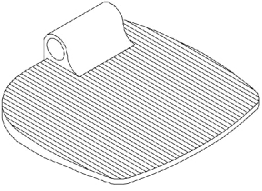
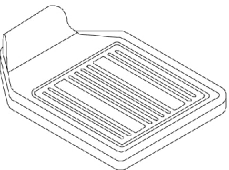
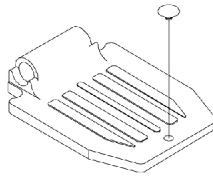
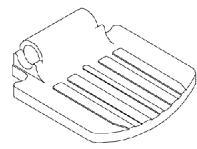
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	D	1120382	Tube, Pivot/Slide, Curved End, Black - Long (9-7/8")	1	1
1	E	1057852	Tube, Pivot/Slide, Curved End, Steel, Black (9-7/8")	1	1
2		1025457	Spacer, Coved (1/4 x 3/4 x 11/32")	1	2
3		1027097	Plug Button, Black (3/4")	1	1
4		1025195	Locknut (1/4-20)	1	1
5		60285X006	Screw, Socket Head (1/4-20 x 2-1/4")	1	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
NOTE: A - For chairs 16" wide B - For chairs 18" wide C - For chairs 20" wide D - P93ST E - PW93ST					

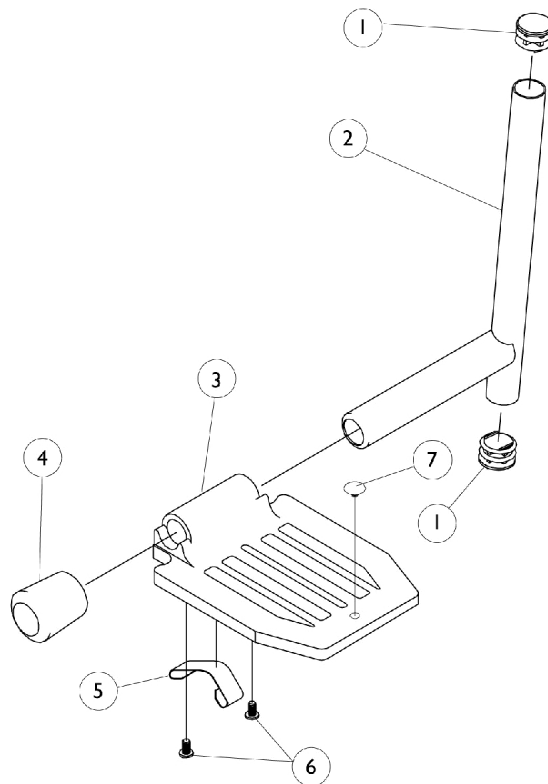
Pivot/ Slide Tube w/ Footplate

P93M

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
1350 Extra large	1450 Deluxe	16" to 20" Wide	14" Wide



Pivot/ Slide Tube w/ Footplate P93M

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

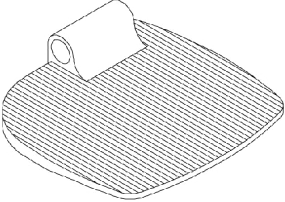
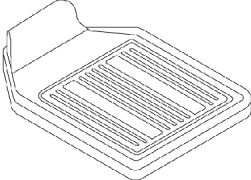
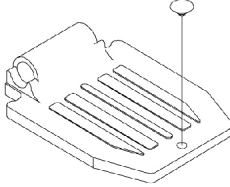
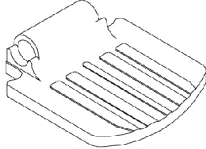
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	C,D,A	1041527	Pivot/Slide Tube w/ Plug Button, Black	1	1
2	D	1086479-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black (2" Longer)	1	1
2	D	1086480-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black (4" Longer)	1	1
2		1041525-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Deluxe Aluminum, Black	1	1
3	B	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	B	1002343	Footplate, Aluminum, Extra Large, Black - Right (7" W x 8-1/2" L)	1	1
3	B	1002344	Footplate, Aluminum, Extra Large, Black - Left (7" W x 8-1/2" 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	C	1016346	Cap, End, Tube, Black (7/8")	1	1
4	D	1027095	Plug Button, Black (7/8")	1	1
5	C	1006981	Spring, Tension	1	1
5	A	1036120-NLA	NLA - Spring	1	2
5	D,E	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	2
7		1070168	Plug, Push, Footplate	1	1
NOTE: A - Use with Deluxe Aluminium Footplate. B - 14" Wide (R2jr.) C - Use with Standard Aluminium Footplate. D - Use with Extra Large Aluminium Footplate. E - 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.					

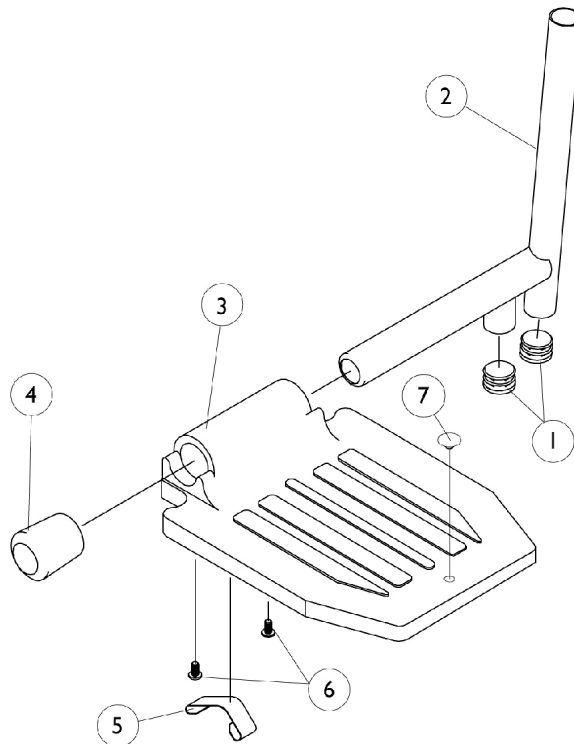
Pivot/ Slide Tube w/ Footplate

P904, PAL4A, PAS4A

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

			
1350 Extra large	1450 Deluxe	16" to 20" Wide	14" Wide



Pivot/ Slide Tube w/ Footplate

P904, PAL4A, PAS4A

NOTE: Heel loops are not included. See page titled "Footrest and Legrest Accessories".

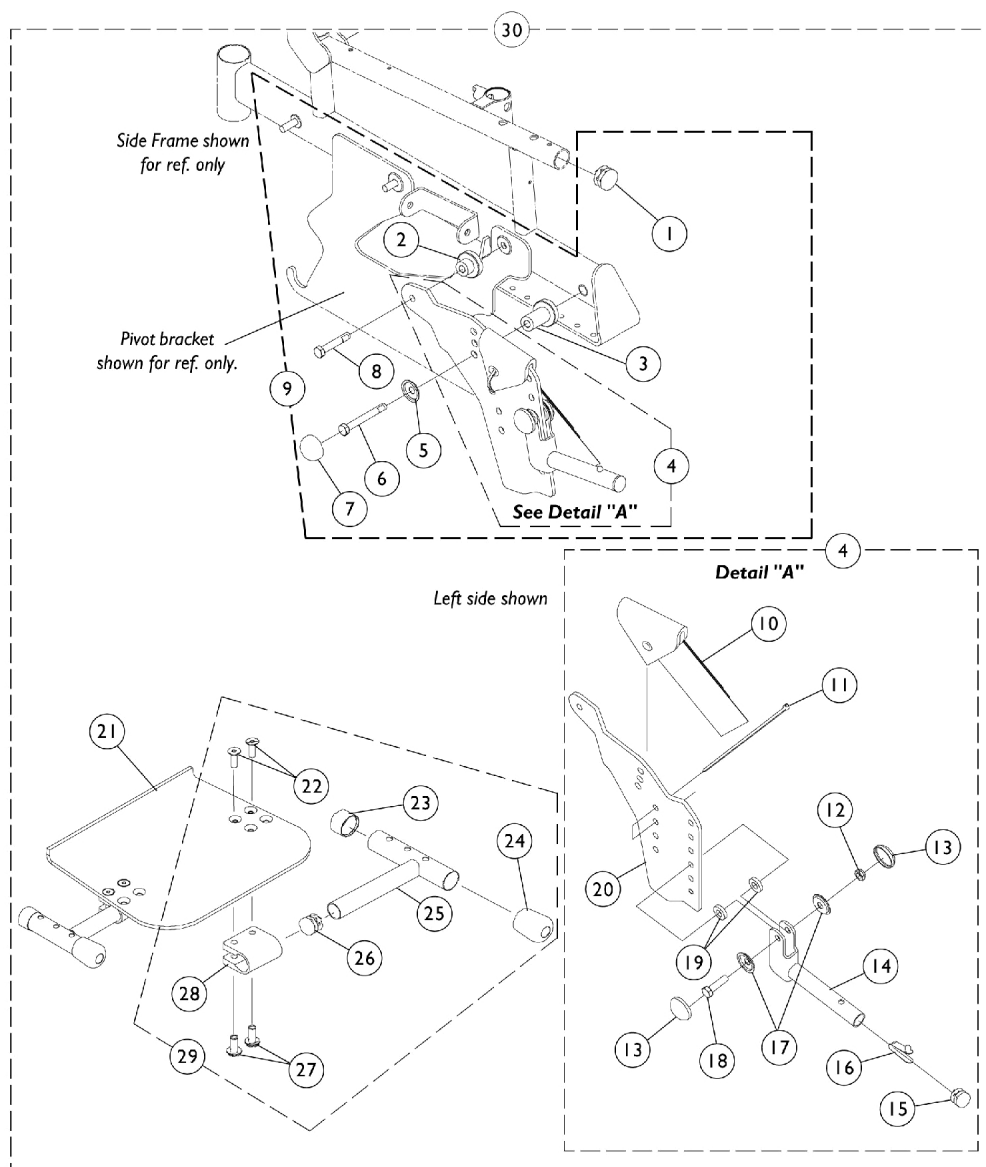
NOTE: For complete pivot/slide tube and footplate assemblies, see page titled "Front Riggings Reference Chart".

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1027097	Plug Button, Black (3/4")	1	1
2	D,E,B	1100568-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black	1	1
2	B	1100569-NLA	NLA - Pivot/Slide Tube Assembly, Extra Large, Standard Aluminium - 2" Longer, Black	1	1
2	D,E,B	1100570-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Black (4" Longer)	1	1
2	D,E,A	1041526	Pivot/Slide Tube w/ Plug Button Assembly, Chrome	1	1
2	F,B	1100571-NLA	NLA - Pivot/Slide Tube w/ Plug Button, Deluxe, Black	1	1
3	C	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	C	1002343	Footplate, Aluminum, Extra Large, Black - Right (7" W x 8-1/2" L)	1	1
3	C	1002344	Footplate, Aluminum, Extra Large, Black - Left (7" W x 8-1/2" 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	D	1016346	Cap, End, Tube, Black (7/8")	1	1
4	E	1027095	Plug Button, Black (7/8")	1	1
5	D	1006981	Spring, Tension	1	2
5	F	1036120-NLA	NLA - Spring	1	2
5	E,G	1036123	Spring, Leaf	1	1
6		40120X001	Screw, Phillips Pan Head (#8-32 x 3/8")	1	1
7		1070168	Plug, Push, Footplate	1	1
NOTE: A - Use with PAL4/PAS4A. B - Use with P904. C - Use with 14" Wide (R2jr.) D - Use with Standard Aluminium Footplate. E - Use with Extra Large Aluminium Footplate. F - Use with Deluxe Aluminium Footplate. G - 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.					

Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

Before 3/1/00



Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

Before 3/1/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1029501	Plug Button, Black (1")	1	2
2		1098936-NLA	NLA - Bushing, Black (21/64 x 1-1/4 x 23/32")	1	2
3		1098937-NLA	NLA - Bushing, Black (21/64 x 1-1/4 x 1-19/32")	1	2
4	A	1080730-NLA	NLA - Footboard Pivot Assembly - Right	1	1
4	A	1080731-NLA	NLA - Footboard Pivot Assembly - Left	1	1
5		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
6		1043628-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 2-1/2")	1	2
7		1016291	Cap, Hub, Black	1	2
8		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	2
9	B	1086111-NLA	NLA - Footboard Mounting Hardware (Pair)	2	1
10		1081224-NLA	NLA - Guard, Footboard Pivot Bracket	1	1
11		98007X005	Tie Wrap (11-1/2" L)	1	2
12		1025730	Locknut (5/16-24)	1	1
13		1016291	Cap, Hub, Black	1	2
14		1074130-NLA	NLA - Tube, Pivot	1	1
15		1027097	Plug Button, Black (3/4")	1	1
16		40188X009	Button, Single Snap	1	1
17		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
18		1070552-NLA	NLA - Screw, Hex Head (5/16-24 x 1-1/8)	1	1
19		1074210-NLA	NLA - Washer, Nylon (23/64 x 3/4 x 5/32")	1	2
20		1081217-NLA	NLA - Bracket, Footrest Mounting, Black - Right	1	1
20		1081218-NLA	NLA - Bracket, Footrest Mounting, Black - Left	1	1
21	F	1074129-NLA	NLA - Footboard	1	1
22	D	1029545	Screw, Socket Flat Head (1/4-20 x 3/4")	1	4
23		15680X012	Collar, Anti-Rattle (7/8")	1	2
24		1016346	Cap, End, Tube, Black (7/8")	1	2
25		1074137-NLA	NLA - Tube, Footplate Support, Black	1	2
26		1027097	Plug Button, Black (3/4")	1	2
27	D	1082686	Nut, Barrel, Hex Head (1/4-20 x 11/16")	1	4
28	D	1058517	Clamp, Footplate	1	2
29	E	1080740-NLA	NLA - Footboard Assembly Hardware (Pair)	2	1
30	C,J	1086110-NLA	NLA - Footboard Assembly w/ Instructions	1	1
	I	1078193-NLA	NLA - Instruction Sheet, Footboard Assembly	1	1
	I	1095105-NLA	NLA - Kit, Footboard Conversion (16" W)	1	1
	H,I	1095106-NLA	NLA - Kit, Footboard Conversion (18" W)	1	1
	I	1095107-NLA	NLA - Kit, Footboard Conversion (20" W)	1	1

Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

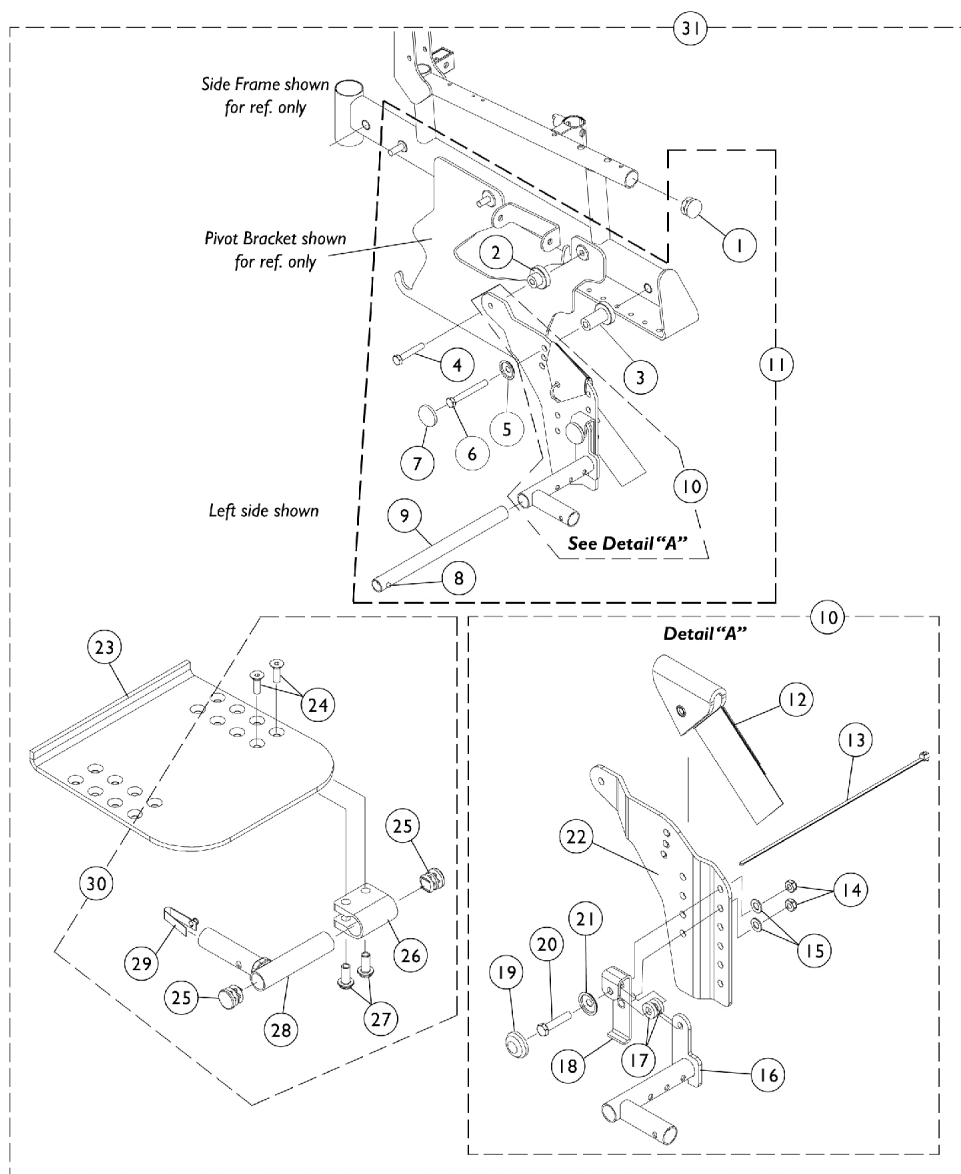
Before 3/1/00

NOTE: A - Includes Items 10-20.
B - Includes Items 1-8.
C - Footboard Assembly Kit before 3/1/00 is NLA. Refer to the Footboard Assembly Conversion Kits provided that will convert to a Footboard Assembly made after 2/29/00. Order according to the chair width. Captain Seats will use the 18" wide conversion kit
D - Items 22, 27, and 28 must be ordered together for chairs manufactured before 8/10/99 due to a hardware change.
E - Includes Items 22-28.
F - Footboard before 3/1/200 is NLA. See page titled "Front Rigging - Adjustable Flip-Up Removable Footboard (After 2/29/00)" and select a footboard according to the chair width
H - Captain Seats will use the 18" wide conversion kit
I - Not Shown. For individual components for the conversion kits, See page titled "Front Rigging - Adjustable Flip-Up Removable Footboard (After 2/29/00)"
J - Includes Items 9, 21, and 29.

Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

After 2/29/00



Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

After 2/29/00

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1029501	Plug Button, Black (1")	1	2
2		1098936-NLA	NLA - Bushing, Black (21/64 x 1-1/4 x 23/32")	1	2
3		1098937-NLA	NLA - Bushing, Black (21/64 x 1-1/4 x 1-19/32")	1	2
4		1043627-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 1-3/4")	1	2
5		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	2
6		1043628-NLA	NLA - Screw, Hex Head w/ Patch (5/16-18 x 2-1/2")	1	2
7		1016291	Cap, Hub, Black	1	2
8		40188X007-NLA	NLA - Button, Spring Double	1	1
9		1095124-NLA	NLA - Support Tube w/ Spring Assembly	1	1
10	A	1095101-NLA	NLA - Footboard Pivot Assembly - Right	1	1
10	A	1095102-NLA	NLA - Footboard Pivot Assembly - Left	1	1
11	B	1095104-NLA	NLA - Footboard Mounting Hardware	2	1
12		1081224-NLA	NLA - Guard, Footboard Pivot Bracket	1	1
13		98007X005	Tie Wrap (11-1/2" L)	1	2
14		1028769	Locknut (5/16-18)	1	2
15		1074210-NLA	NLA - Washer, Nylon (23/64 x 3/4 x 5/32")	1	2
16		1094614-NLA	NLA - Bracket, Footboard Receiving, Black - Right	1	1
16		1094615-NLA	NLA - Bracket, Footboard Receiving, Black - Left	1	1
17		1025704	Washer, Flat (5/16 x 5/8 x 1/16")	1	2
18		1094632-NLA	NLA - Bracket, Stop Pivot Support, Black	1	1
19		1016291	Cap, Hub, Black	1	1
20		1070398-NLA	NLA - Screw, Hex Head (5/16-18 x 1-1/2")	1	1
21		1028491-NLA	NLA - Washer, Caplugs (11/32" I.D. x 1" O.D.)	1	1
22		1081217-NLA	NLA - Bracket, Footrest Mounting, Black - Right	1	1
22		1081218-NLA	NLA - Bracket, Footrest Mounting, Black - Left	1	1
23		1094612-NLA	NLA - Footboard, Black (16" W)	1	1
23	C	1094613-NLA	NLA - Footboard, Black (18" W)	1	1
23		1094634-NLA	NLA - Footboard, Black (20" W)	1	1
24		1029545	Screw, Socket Flat Head (1/4-20 x 3/4")	1	4
25		1027097	Plug Button, Black (3/4")	1	4
26		1058517	Clamp, Footplate	1	2
27		1082686	Nut, Barrel, Hex Head (1/4-20 x 11/16")	1	4
28		1094611-NLA	NLA - Support Tube w/ Snap Tube, Black	1	2
29		40188X009	Button, Single Snap	1	2
30	D	1095103-NLA	NLA - Footboard Hardware	1	1
31	E	1095105-NLA	NLA - Kit, Footboard Conversion (16" W)	1	1
31	C,E	1095106-NLA	NLA - Kit, Footboard Conversion (18" W)	1	1
31	E	1095107-NLA	NLA - Kit, Footboard Conversion (20" W)	1	1
	F	1095125-NLA	NLA - Instruction Sheet, Footboard Assembly	1	1

Adjustable Flip-Up Removable Footboard

90FB2 (Sling Seat) and 90FB (Captain Seat)

After 2/29/00

NOTE: A - Includes Items 12-22.
B - Includes Items 1-7, 9, and 10.
C - Captain seats will use footboards for 18" wide chairs.
D - Includes Items 24-29.
E - Includes Items 11, 23, and 30.
F - Not Shown.

Footrest & Legrest Accessories

Heel Loops (1346)

Footplate Type	Heel Loop Single #	Heel Loop Pair #	Heel Loop with Ankle Strap - Right Single #	Heel Loop with Ankle Strap - Left Single #	Heel Loop with Ankle Strap Pair #	Attaching Hardware Pair #
Composite (1651) 14" W (16" Wide Tapered)	1028412-NLA	1035912-NLA	1035908-NLA	1035909-NLA	1035906	1035931
Composite (1651) 16" W (18" Wide Tapered)	1017621	1035917-NLA	1035919	1035920	1035918	1035931
Composite (1651) 18" W (20" Wide Tapered)	1017621	1035917-NLA	1035932-NLA	1035933-NLA	1035930	1035931
Standard Aluminum (1650) 14" Wide	1025234-NLA	1035905	1035908-NLA	1035909-NLA	1035906	1035907
Standard Aluminum (1650) 16-20" Wide	1017621	1035917-NLA	1035919	1035920	1035918	1035907
Deluxe Aluminum (1450) 16-20" Wide	1017621	1035917-NLA	1035919	1035920	1035918	1086112-NLA
X-Large Aluminum (1350) 14" Wide	1025234-NLA	1035905	1035908-NLA	1035909-NLA	1035906	1055241
X-Large Aluminum (1350) 16-20" Wide	1017621	1035917-NLA	1035919	1035920	1035918	1055241

Footrest & Legrest Accessories

Heel Loop Hardware

Part Number	Consists of:
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")
1055241	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/4"), (2) Spacer (1/4 x 11/32 x 1-3/4"), and (2) Locknut (1/4-20").
1035907	(2) Screw, Phillips Pan Head (1/4-20 x 2-1/2"), (2) Spacer (1/4 x 11/32 x 1-3/4"), and (2) Locknut (1/4-20").
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"), and (2) Locknut (1/4-20").

Toe Loops (1345)

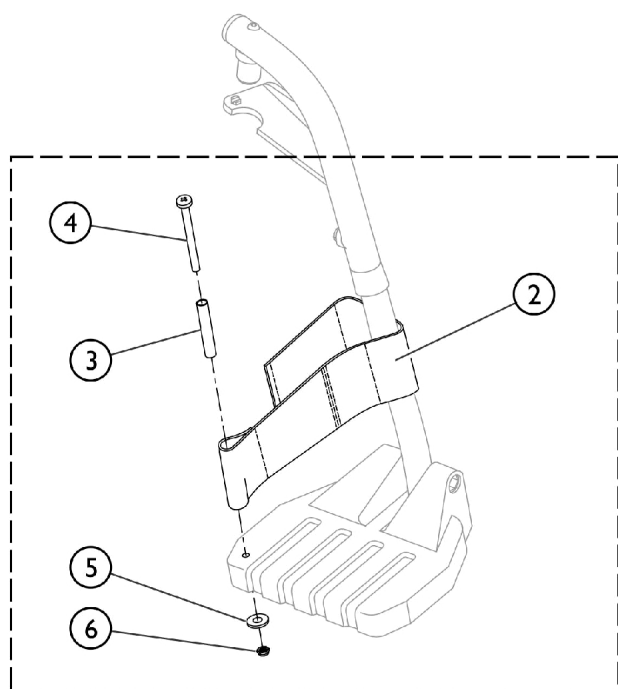
Footplate Type	Toe Loop w/o Hardware Single #	Toe Loop w/o Hardware Pair #	Attaching Hardware Part Number	Attaching Hardware Consists of
1651, 1650, 1450, 1350, Footplates	04572X025	1037087	1037089	(4) Screw, Phillips Pan Head (#10-32 x 7/8"), (4) Washer (1/4 x 3/4 x 3/32"), and (4) Locknut (#10-32).

Footrest & Legrest Accessories

Miscellaneous Accessories

Part Number	Description
1026987	Impact Guard (8") (IMPACTG)
See Note(s) D 1143050	Non-Removable Device (1820)
1032003	"H" Heel Strap (9342) 14" Wide
1032002	"H" Heel Strap (9342) 16-20" Wide
1035902	Calf Strap (1337)
8881006725-NLA See Note(s) A, B	Footrest Support Panel (1348) 14-16" Wide
8881006726 See Note(s) B, A	Footrest Support Panel (1348) 18" Wide
8881006727-NLA See Note(s) B, A	Footrest Support Panel (1348) 20" Wide
8881035816-NLA See Note(s) C, A	Legrest Support Panel (1348) 14-16" Wide
8881035817-NLA See Note(s) A, C	Legrest Support Panel (1348) 18" Wide
8881035818-NLA See Note(s) C, A	Legrest Support Panel (1348) 20" Wide
NOTE: A - Specify upholstery color when ordering. See page titled "Frame Finishes, Touch-Up Paints and Upholstery Colors." B - For PW93 footrest C - For P904A, PAS4A and PAL4A Legrest D - For 70 deg. Tapered Footrest.	
NOTE: These items are not shown	

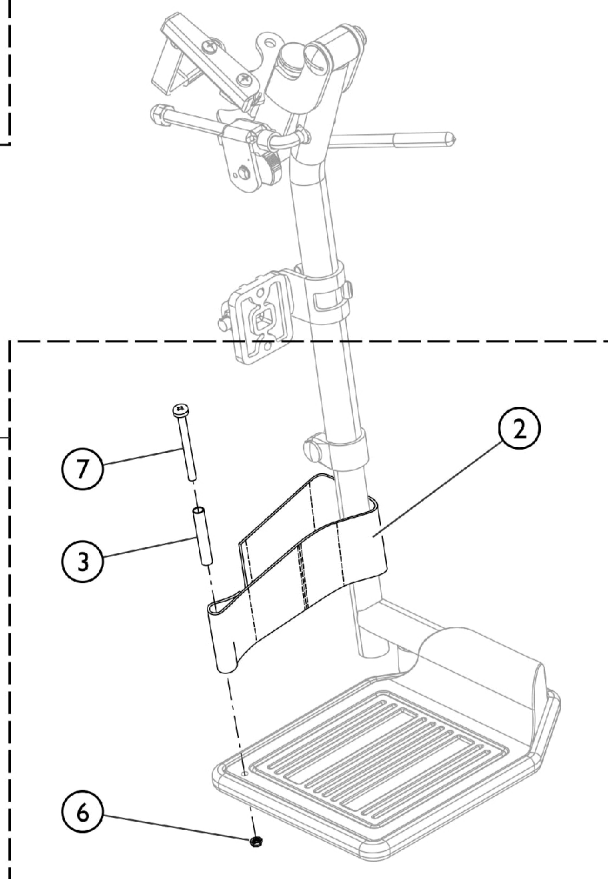
Front Riggings - Adjustable Heel Loops



① **Heel Loop and Hardware for
All Footplate Options**
(Except Deluxe I450)

**Heel Loop and Hardware
for Deluxe (I450) Footplates**

⑪



SCM_058A

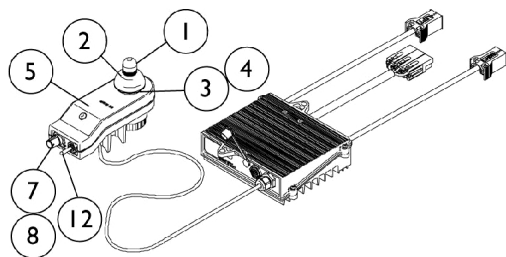
Front Riggings - Adjustable Heel Loops

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.

MKIV Joysticks

Excel, RII, RX, A, A+, Tchjoy

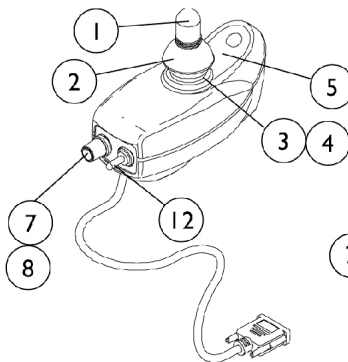


* 1080723NLA RII Joystick/Controller

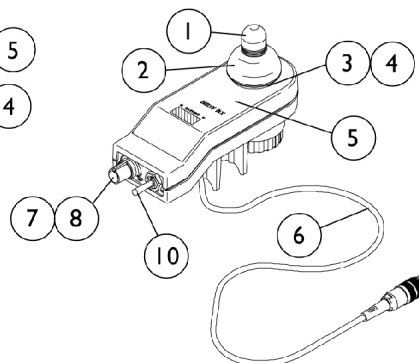
* For chairs made before 5/1/00,
the following must be ordered:
RII Joystick part #1092610
RII Retro Controller part #1095269
Remote Programmer part #1093248

1080953NLA EXCEL Joystick/L.P. Controller Before 5/1/00

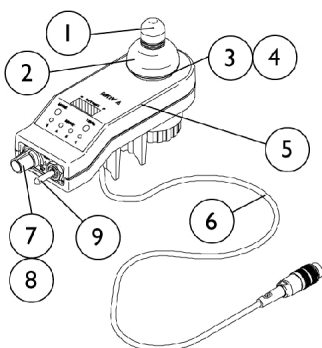
* For chairs made before 5/1/00,
the following must be ordered:
RII Joystick part #1092610
RII L.P. Retro Controller part #1095270
Remote Programmer part #1093248



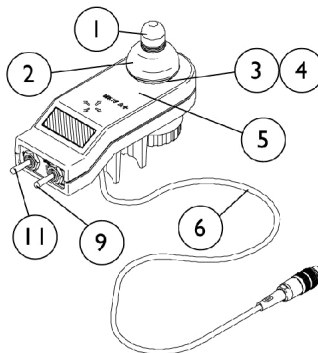
1092610 RII & Excel Joystick After 4/30/00



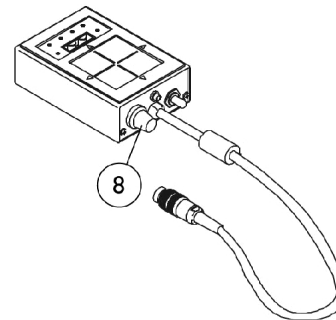
1038603 RX Joystick



1065944 A Joystick



1038608 A+ Joystick



1095289 TCHJOY Touchpad "A" Joystick

MKIV Joysticks

Excel, RII, RX, A, A+, Tchjoy

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
	A,D	1080723-NLA	NLA - Joystick/Controller, MKIV RII	1	1
	B,D	1080953-NLA	NLA - Joystick/Controller, MKIV RII L.P	1	1
	C	1095269-NLA	NLA - Controller, MKIV RII, Retro	1	1
	C	1095270-NLA	NLA - Controller, MKIV RII, Retro L.P.	1	1
	C	1109091-NLA	NLA - Programmer, Remote	1	1
	C	See Chart	Item#s 1-12 MKIV Joysticks	1	1
NOTE: A - For RII model chairs made before 5/1/00, the following must be ordered, RII Joystick #1092610, RII Retro Controller #1095269 and Remote Programmer part #1109091 B - For EXCEL model chairs made before 5/1/00, the following must be ordered, RII Joystick #1092610, RII L.P Retro Controller #1095270 and Remote Programmer #1109091. C - Not Shown. D - For joystick inductive and switch components, refer to chart under RII joystick assembly #1092610.					

Item Number	Description	RII and Excel After 4/30/00	RX	A	A+	TCHJOY
See Pictorial	Joystick Assembly	1092610-NLA	1038603-NLA	1065944-NLA	1038608-NLA	1095289-NLA
1	Knob, Joystick	1040217	1040217	1040217	1040217	N/A
2	Skirt, Joystick	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) C	1036764-NLA See Note(s) B	N/A
3	Inductive, Joystick	N/A	1104397-NLA See Note(s) D	1104397-NLA See Note(s) D	N/A	N/A
4	Boot, Joystick	50000X364-NL A	50000X364-NL A	50000X364-NL A	50000X364-NL A	N/A
5	Overlay, Joystick Decal	1049692-NLA See Note(s) A	1038642-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) C	1036750-NLA See Note(s) B	N/A
6	Cable Assembly	N/A	1104205-NLA See Note(s) D	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	1040225-NLA See Note(s) C	N/A	N/A
7	Potentiometer, Speed	N/A	1115518-NLA See Note(s) D	1115518-NLA See Note(s) D	N/A	N/A
8	Knob, Potentiometer	1025516-NLA	1025516-NLA	1025516-NLA	N/A	1025516-NLA
9	Switch, On/Off Momentary	N/A	N/A	1040185-NLA See Note(s) C	1040185-NLA See Note(s) B	N/A

MKIV Joysticks

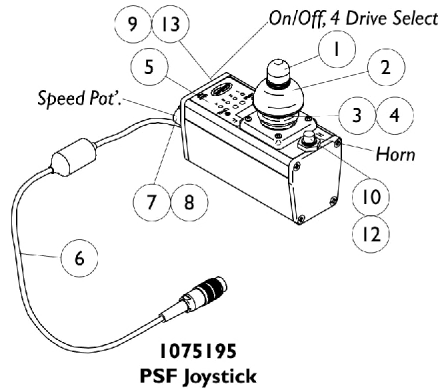
Excel, RII, RX, A, A+, Tchjoy

Item Number	Description	RII and Excel After 4/30/00	RX	A	A+	TCHJOY
9	Switch, On/Off Momentary	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
10	Switch, Off/ 1-2	N/A	1115521-NLA See Note(s) D	N/A	N/A	N/A
11	Switch, Program	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
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

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.



STANDARD: This PSR joystick includes a toggle on/off combined with a drive select and a push button horn. No speed selector.

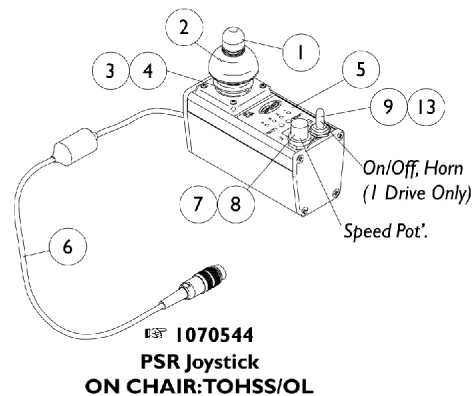
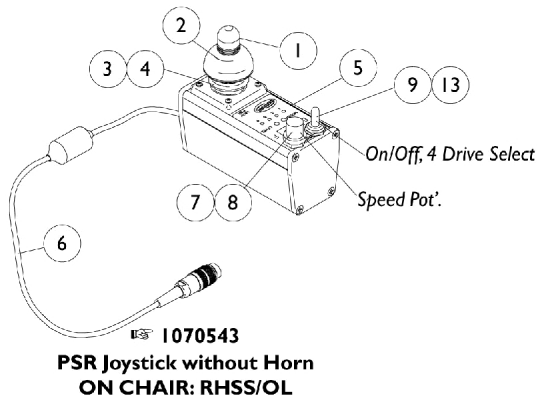
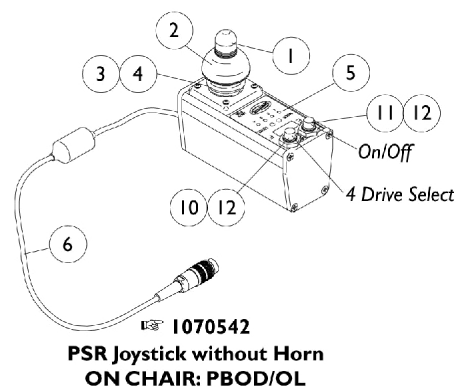
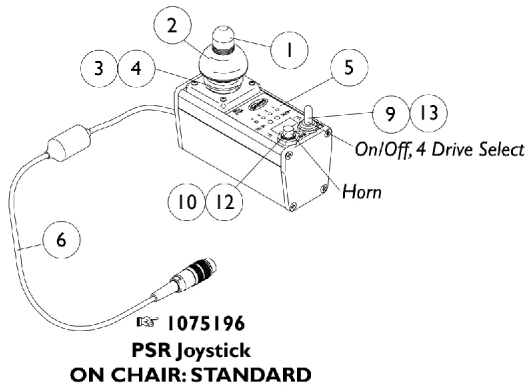
PBOD: This PSR joystick includes push button on/off with a push button drive select. This gives you access to the four drives, but no horn and no speed select.

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.



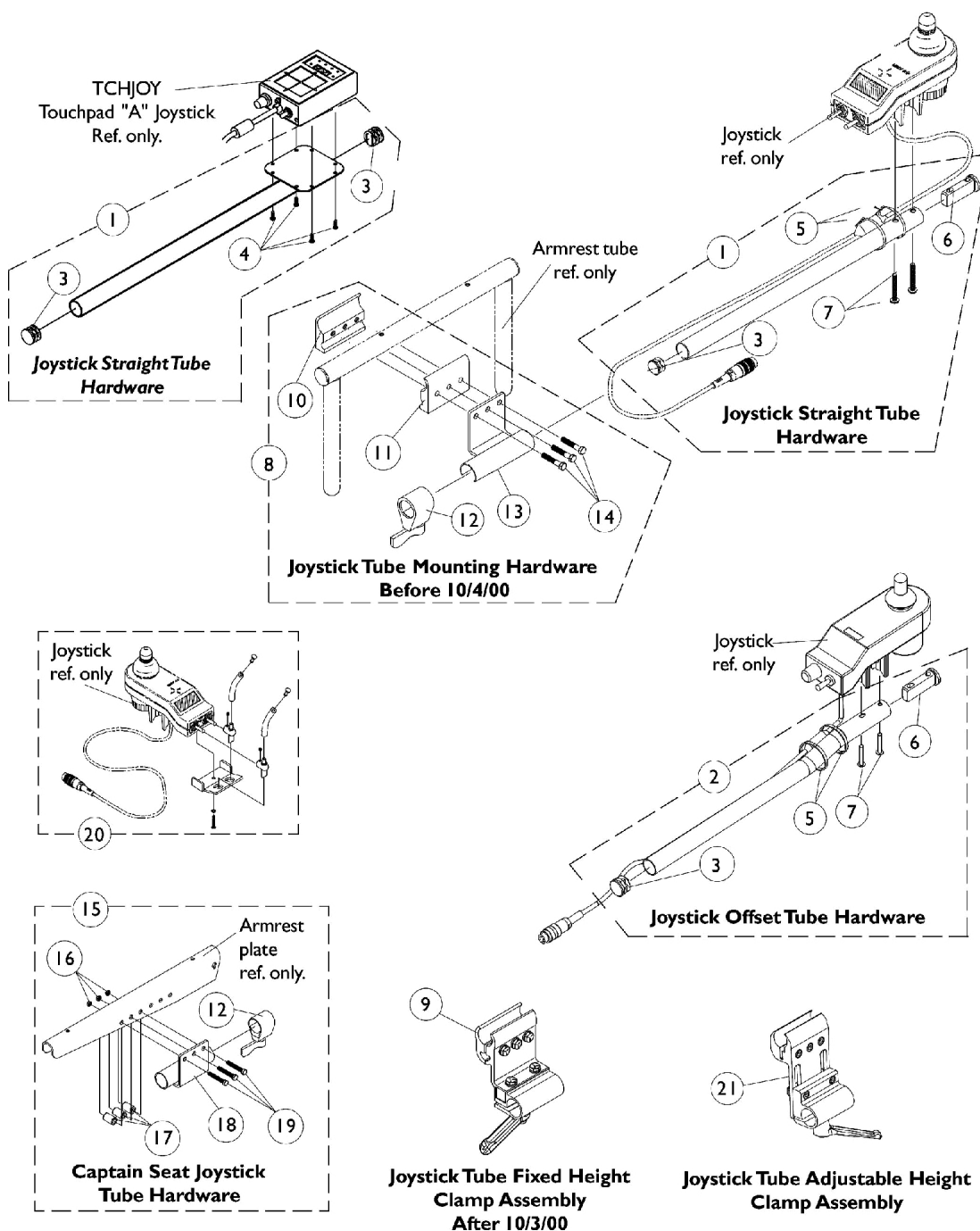
MKIV Joysticks

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	1036764-NLA	1036764-NLA
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 Joystick Mounting Hardware & Joystick Accessories

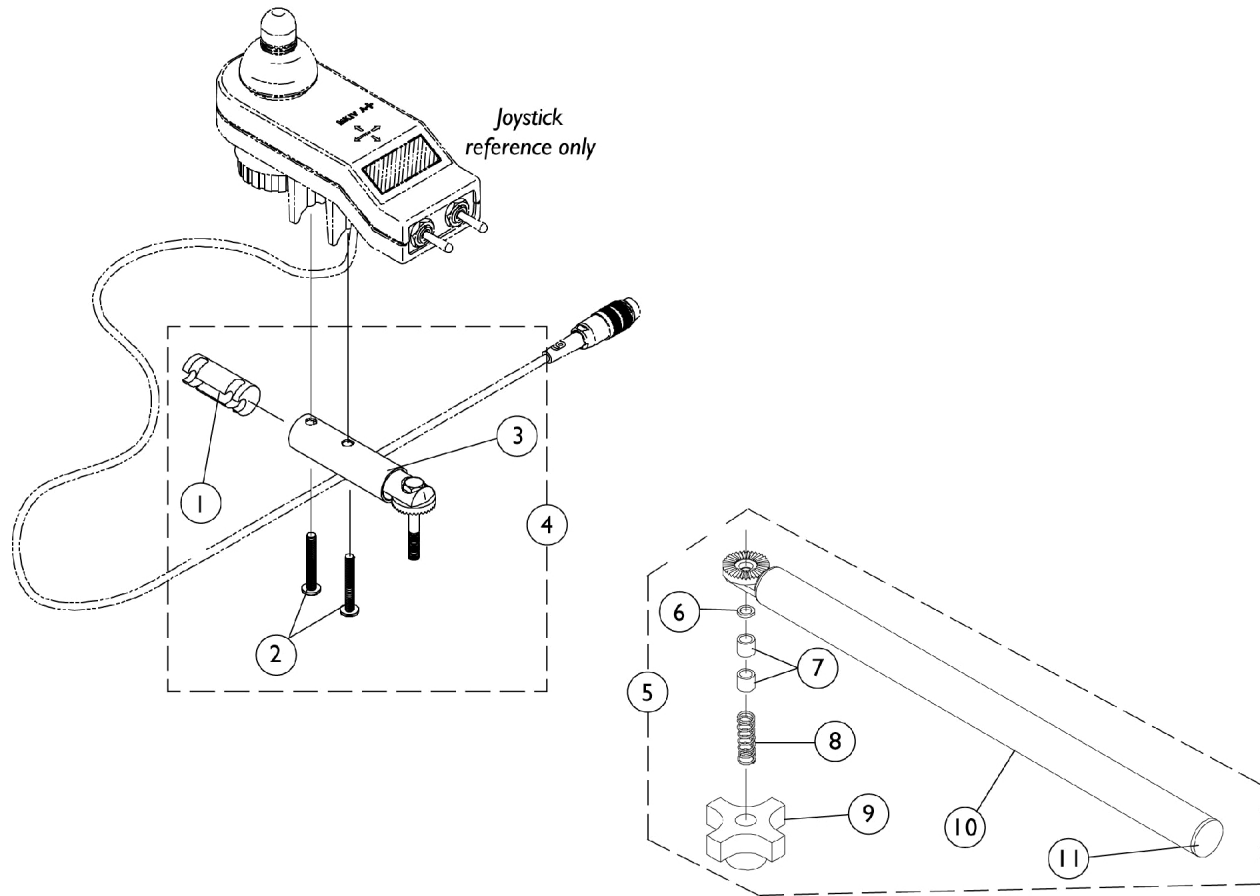


MKIV Joystick Mounting Hardware & Joystick Accessories

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	B,N	1092604-NLA	NLA - Kit, Straight Joystick Tube with Hardware	1	1
1	C,D,K	1043568	Kit, Straight Joystick Tube with Hardware	1	1
2	D,E,L,L 1	1093069	Kit, 1/2" Offset Joystick Tube with Hardware	1	1
3		1027095	Plug Button, Black (7/8")	1	1
4		1052041	Screw, Phillips Pan Head (#4-40 x 3/8")	1	1
5	F	1095502-NLA	NLA - Package, Tie Wrap (11-1/2" L)	10	2
6		1093063	Spacer, Joystick Tube, Black	1	1
7		1025714	Screw, Phillips Pan Head (#10-32 x 1-1/8")	1	1
8	C,G,J	1049591-NLA	NLA - Hardware, Joystick Tube Mounting	1	1
9	E,L,L1	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 Assemnbly, 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	1
15	H	1105050-NLA	NLA - Kit, Joystick Tube Mounting Hardware - Captain/ Van Seat	1	1
16		1025195	Locknut (1/4-20)	1	1
17		1101524-NLA	NLA - Spacer (1/4 x 7/16 x 5/8")	1	3
18		1105049	Clamp Assembly, Fixed Height, Captain/ Van Seat	1	1
19		1057955	Screw, Hex Head (1/4-20 x 1-1/4")	1	3
20		1055736-NLA	NLA - Kit, Toggle Switch Extension	1	1
21		1139422	Clamp, Height Adjustable Joystick Tube (ARM250)	1	1
	A	1006270	Extension, Joystick, "T" Style (1560) (4" W x 5-1/2" L)	1	1
	A	1006271	Extension, Joystick, Straight Style (1561) (1/2" W x 5" L)	1	1

NOTE: A - Not Shown.
 B - Includes items 3 and 4.
 C - Before 10/4/00.
 D - Includes items 3, 5, 6 and 7.
 E - After 10/3/00. MKIV RII, RX, A, A+ PSF/PSR.
 F - Package of 10.
 G - Includes items 10-14.
 H - Includes items 16-19.
 J - PS, TCHJOY and (RII, RX, A, A+, PSF/PSR).
 K - MKIV RII, RX, A, A+ PSF/PSR.
 L - 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
 L1 - 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.
 N - Due to product improvement, the joystick mounting bracket with a separate adjustment lock was replaced with the clamp assembly shown as of 2/20/03 and is backward compatible.

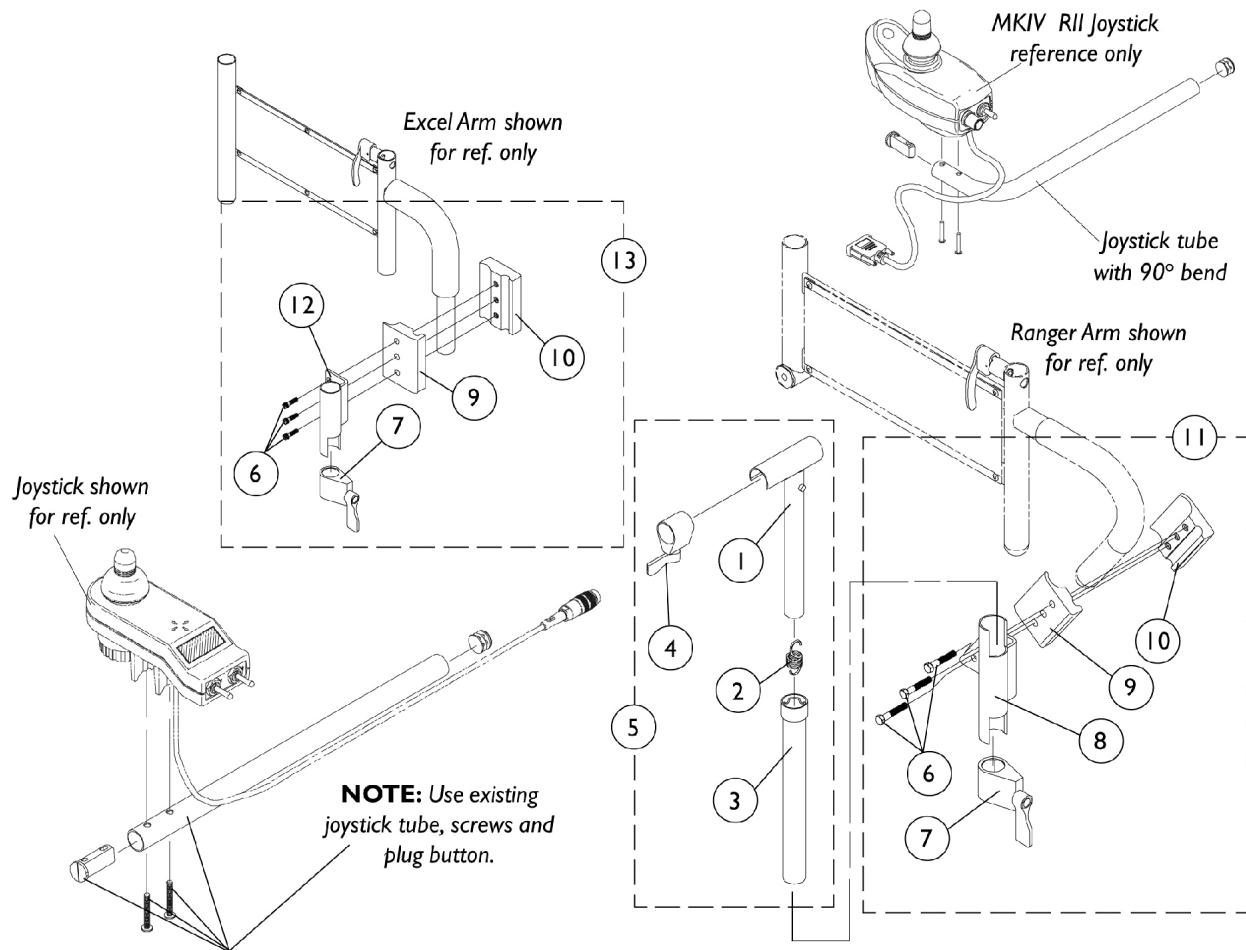
MKIV Swivel Joystick Hardware



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	1
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

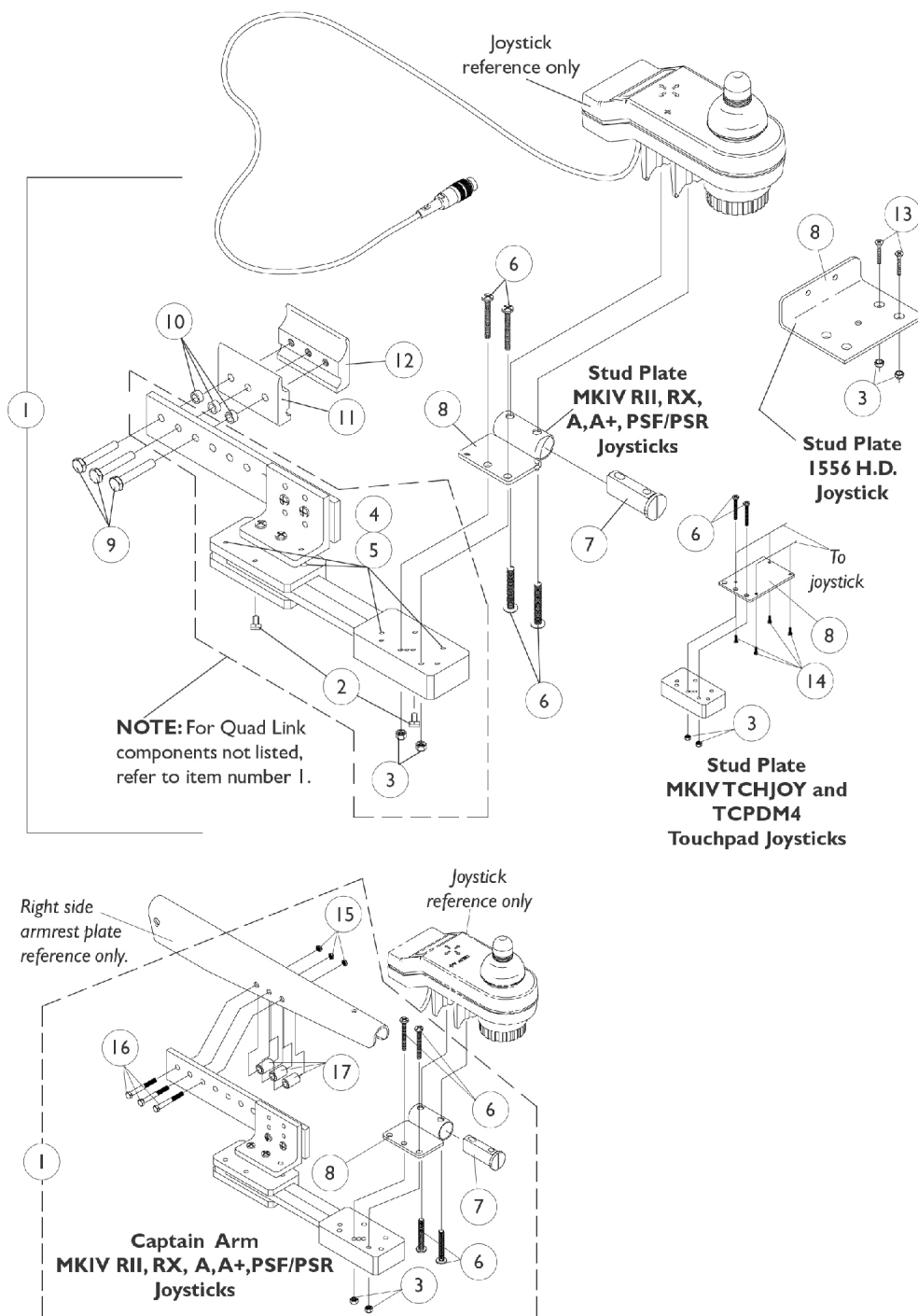
MKIV Mid-Line Swing Bracket Assembly



MKIV Mid-Line Swing Bracket Assembly

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	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	B	1035852-NLA	NLA - Swing Bracket Assembly, Mid-Line, Black	1	1
6		7930349-NLA	NLA - Screw, Hex Head (1/4-20 x 1-1/8")	25	1
7		1027274	Adjustment Lock Assemnbly, Black	1	1
8	B	1071879-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
9		1027266	Half Clamp, Non-Threaded Holes	1	1
10	B,C	1027267-NLA	NLA - Half Clamp, Threaded Holes	1	1
11		1071880-NLA	NLA - Hardware, Attaching - Mid-Line	1	1
12	D	1049582-NLA	NLA - Bracket, Joystick Mounting, Black	1	1
13		1049591-NLA	NLA - Hardware, Joystick Tube Mounting	1	1
NOTE: A - Includes Items 1-4. B - Left side joystick mounting bracket or hardware must be ordered as a special. C - Includes Items 6-10. D - Includes Items 6, 7, 9, 10, and 12.					

Quad Link Assembly (QL) (Before 4/07/06)



Quad Link Assembly (QL) (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			Half Clamp, Non-Threaded Holes	1	1
12	A	1115372-NLA	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			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	B,E	1034703-NLA	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			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	B	1114866-NLA	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 (QL) (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			Half Clamp, Non-Threaded Holes	1	1
12	D	1074153-NLA	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
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. Left side mounted Quad Link must be ordered as a special
D - Includes the Quad Link, items 2-8, 15-17 and used with MKIV RII, RX, A, A+, PSF/PSR joysticks attached to a van seat. Left side mounted Quad Link must be ordered as a special
E - 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.

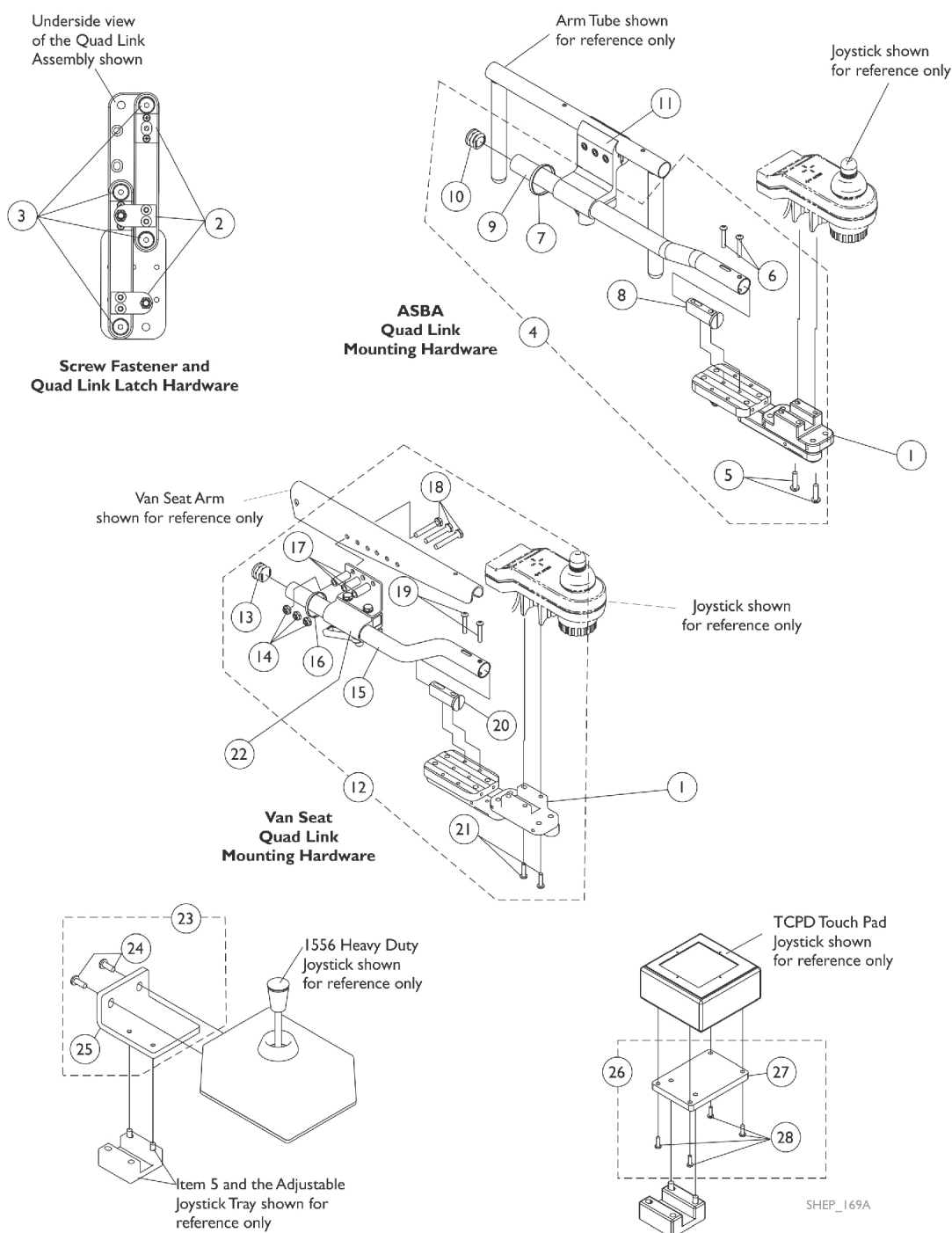
Quad Link Assembly (QL)

(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. Hdw. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
- b) Van Seat; Quad Link Mtg. Hdw. (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. Hdw. must be ordered when a 1556 Heavy Duty or TCPD Touch Pad is used.



Quad Link Assembly (QL) (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) Van 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 is used.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1140898	Quad Link (QL) with Instruction Sheet - Right	1	1
1		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	1142937	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 (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
29		1139682-NLA	NLA - Kit, MPJ Joystick To Quad Link Mounting Hardware	1	1
30			NLA - T-Nut (#10-32)	1	2
	F	1134844	Instruction Sheet, Quad Link	1	1

Quad Link Assembly (QL) (After 4/06/06)

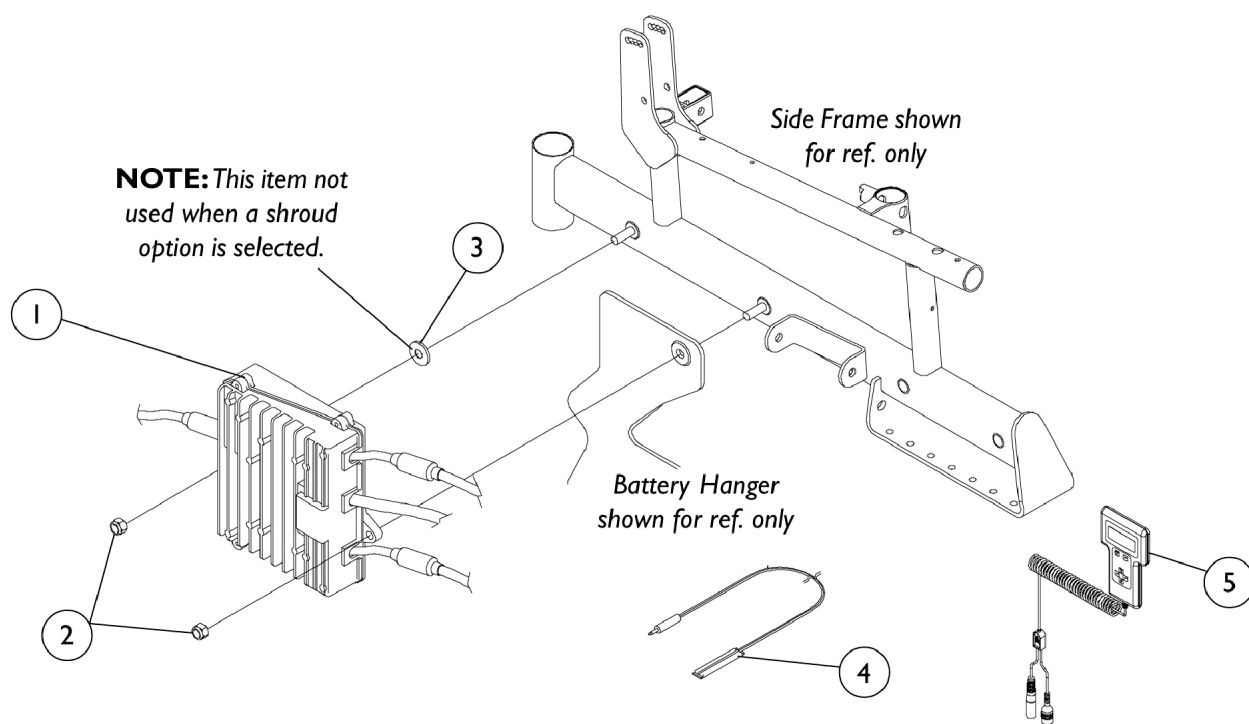
When converting an old style Quad Link that attaches to a mounting plate or (a Flex or Touch Pad Joystick Tube) is currently on the chair then order the following for:

- a) ASBA Seat; Quad Link Mtg. Hdwr. (item 4), Quad Link (item 1) & Ht. Adj. Joystick Tube Clamp (item 11)
- b) Van 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 is 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 RII, 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 RII, 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) must be ordered as well.
H1 - The new armrest plates have 3 additional holes drilled so that the quad link can be properly mounted.

MKIV Controller, Programmer & Attaching Hardware

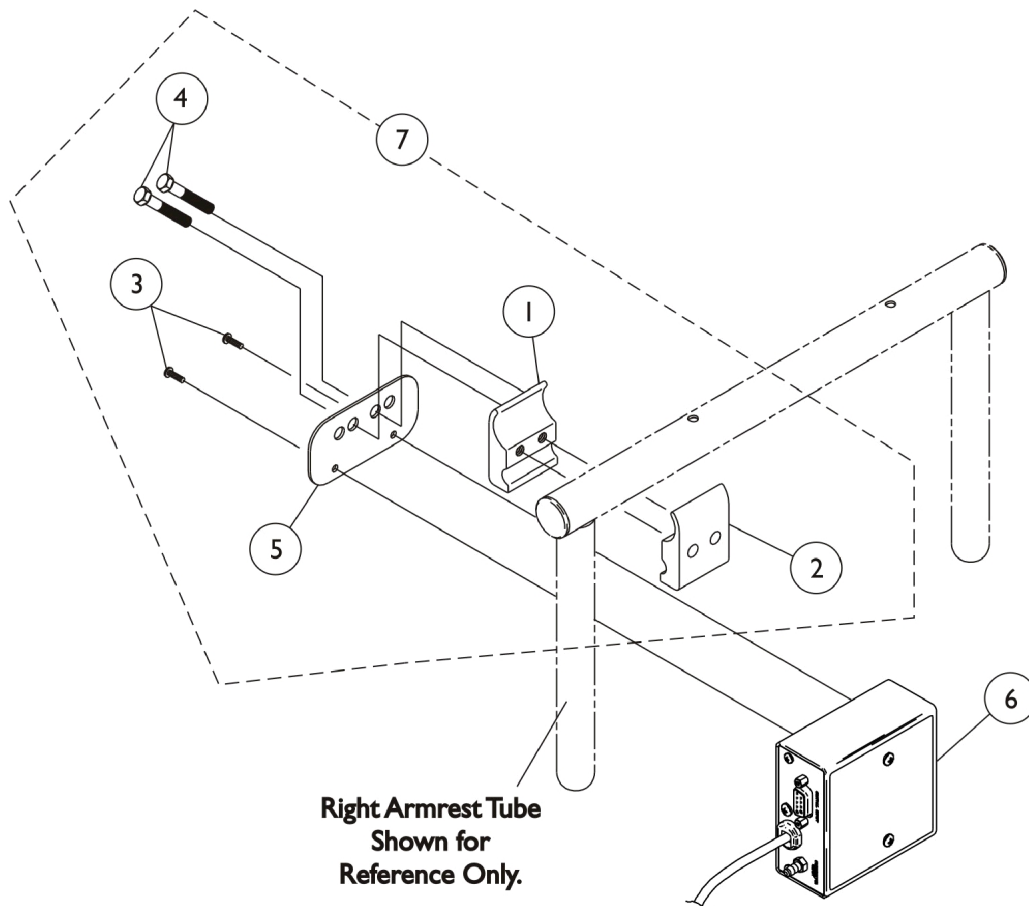


MKIV Controller, Programmer & Attaching Hardware

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	H	1105707-NLA	NLA - Controller, MKIV Quad Pulse	1	1
1	A,I	1095270-NLA	NLA - Controller, MKIV RII, Retro L.P.	1	1
1	B,J	1095269-NLA	NLA - Controller, MKIV RII, Retro	1	1
2		1026158	Locknut (5/16-18)	1	2
3		1079247	Washer, Flat (21/64 x 53/64 x 7/64")	1	1
4		1020818	Switch, Red Flex Ribbon (Tape) Reset	1	1
4	K	1123276	Kit, Switch, Black Egg Reset w/ Hook/Loop Adhesive Back Fastener & Attaching Screws (EGSBLK)	1	1
5		1109091-NLA	NLA - Programmer, Remote	1	1
	D	1064404-NLA	NLA - Virtual Service Modem Kit	1	1
	D	1091631-NLA	NLA - Virtual Service Software Kit	1	1
	D	1046117-NLA	NLA - Printer and Interface	1	1
	D,F	1091980-NLA	NLA - Disk, 3.5 H.D. Floppy with V.S. Software	1	1
	D,E,F	1095204-NLA	NLA - Cable, Virtual Service, Charger/Modem	1	1
	D,F	1091637-NLA	NLA - Adaptor, Null Modem	1	1
	D,F	1091636-NLA	NLA - Service Manual - V.S. Software Kit	1	1
	D,G	1026572-NLA	NLA - Paper, Printer	1	1
	D,G	1027280-NLA	NLA - Harness, Printer Wiring	1	1
NOTE: A - RII retro LP. controller after 4/30/00 and new RII joystick #1092610 serve as direct replacements for Joystick/Controller #1080953. B - RII retro controller after 4/30/00 and new RII joystick #1092610 serve as direct replacements for Joystick/Controller #1080723. D - Not Shown. E - May be ordered as an individual part or is included in the "Virtual Service Modem Kit." F - May be ordered as an individual part or is included in the "Virtual Service Software Kit." G - May be ordered as an individual part or is included in "Printer and Interface." H - MKIV Quad Pulse. I - MKIV RII L.P. Retro (After 4/30/00) (EXCEL). J - MKIV RII Retro (After 4/30/00) (RII and R2jr.). K - 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.					

MKIV Sip-N-Puff/Digital Interface

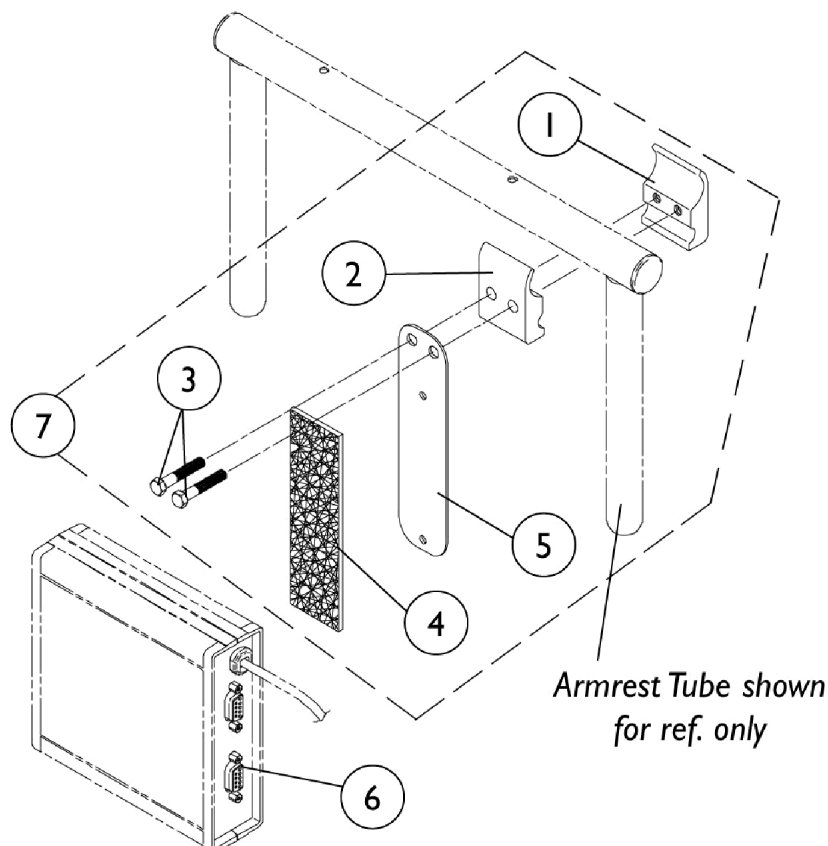
NOTE: SNPM4 On Chair / 1038635 Off Chair



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
6		1038635-NLA	NLA - Sip-N-Puff w/ Digital Interface	1	1
7	A,B	1049593	Kit, SNP/DI, MK5 SAC, 4WSB, S4WSB, GTAM, AUX12M6, AUX34M6 Mtg. Hdw.	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			Screw, Phillips Pan Head (#4-40 x 3/8")	1	2
5			Plate, Mounting	1	1
NOTE: A - Includes items 1-5 B - 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.					

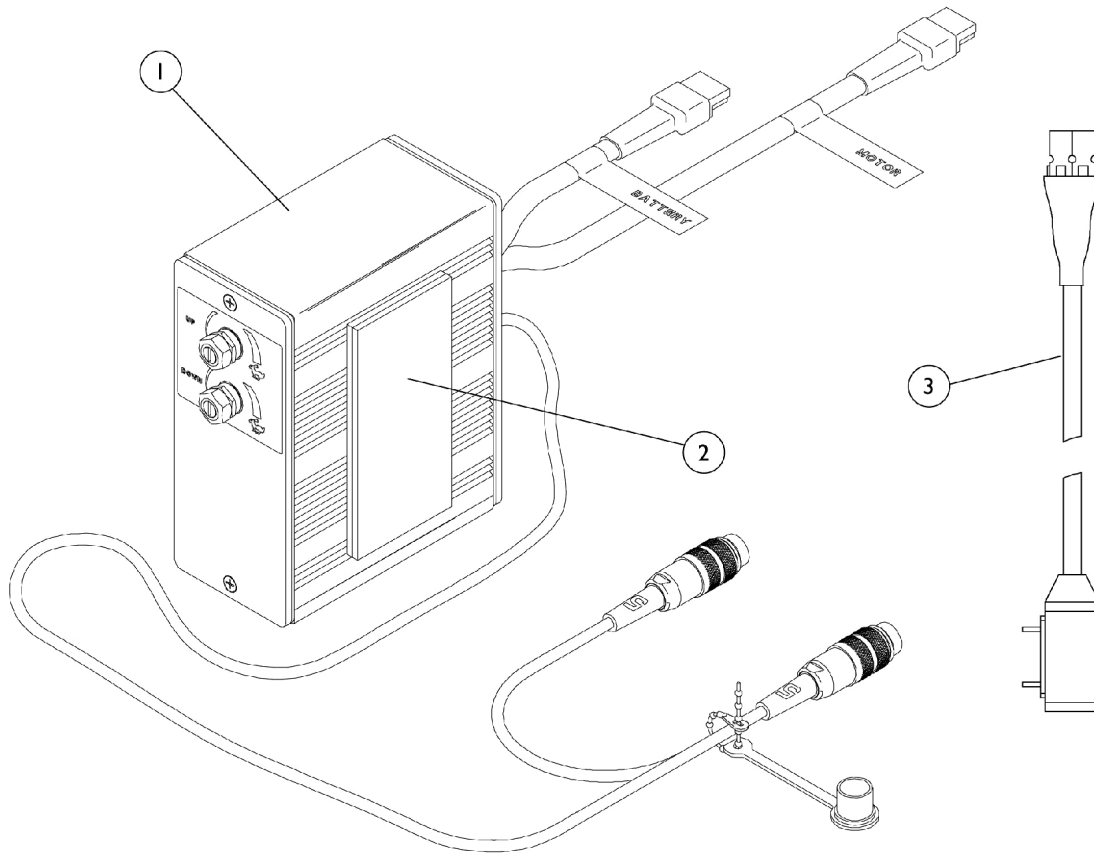
COM12 & COM34

NOTE: COM12 and COM34 On Chair / 1038639 and 1086241 Off Chair



Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
6	B	See Note	See Footnote	1	1
6		1086241-NLA	NLA - Module, Communication, COM34/AUX34	1	1
7	A	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
NOTE: A - Includes items 1-5. Item 4 that is packaged with the kit will only be a 4" long "loop" fastener. B - Part is no longer serviceable in the field.					

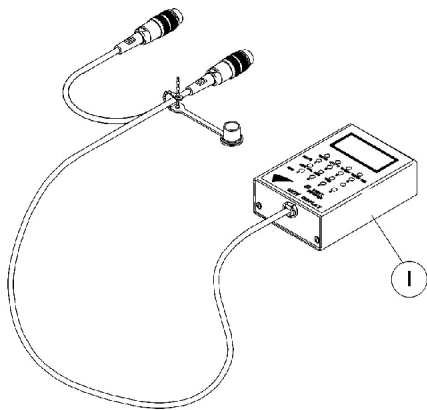
MKIV Recliner Control & Recliner Cable



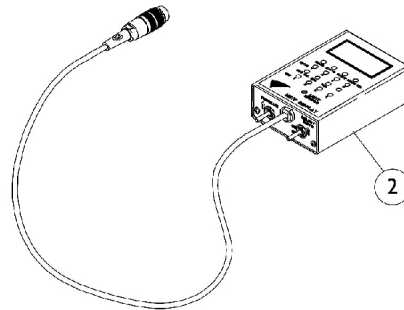
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		1054376-NLA	NLA - Control, Recliner	1	1
2		1095501-NLA	NLA - Fastener, Dual Lock Hook and Loop Adhesive (2" W x 12" L)	1	1
3	A	1098905-NLA	NLA - Cable Assembly, 24 Volt, Anderson/P.T.O.	1	1
		1005151-NLA	NLA - Cable, Recliner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

NOTE: A - Not Shown.

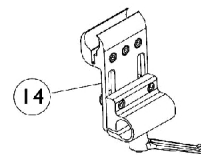
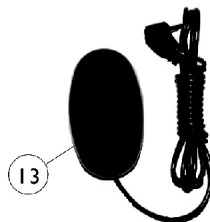
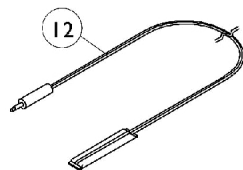
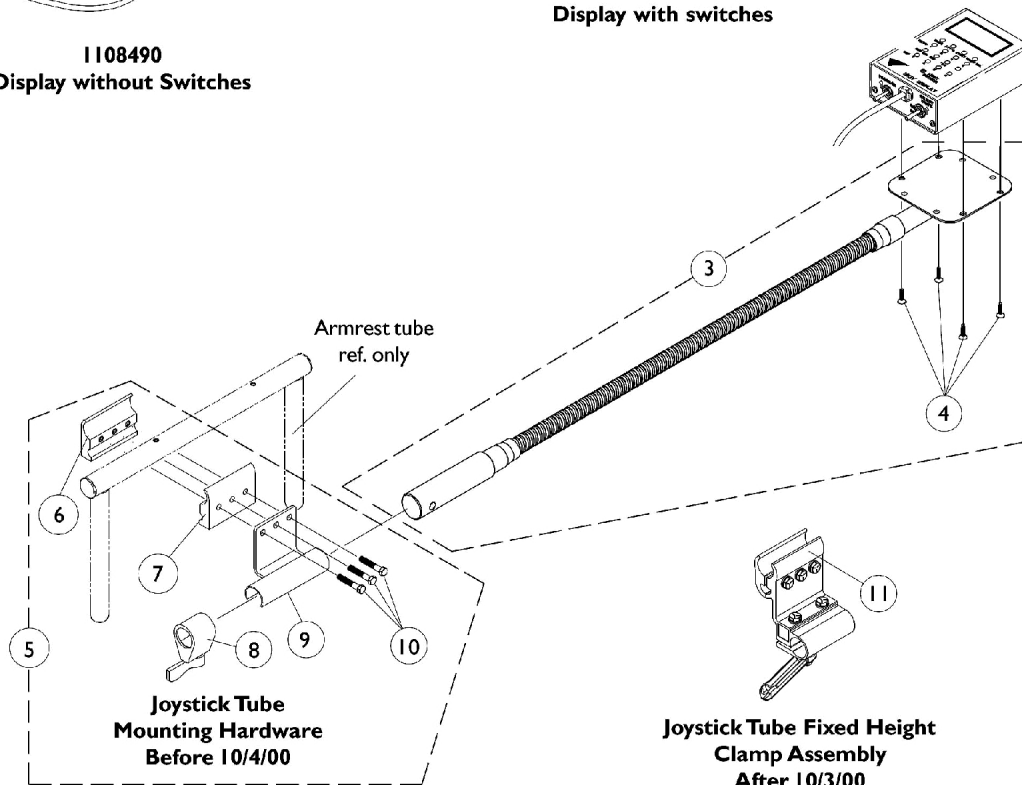
MKIV Displays



I108490
Display without Switches



I108489
Display with switches



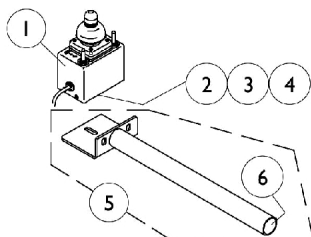
Joystick Tube Adjustable Height
Clamp Assembly

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		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					

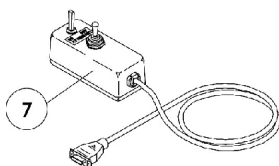
MKIV Joystick Options

REMOTE JOYSTICK



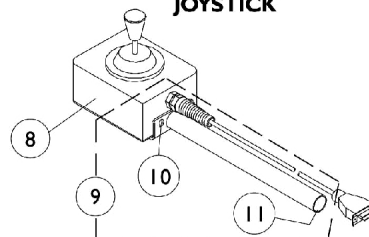
ON CHAIR: 1555M4
OFF CHAIR: 1038634
Used with display w/o switches
1108490

ATTENDANT CONTROL JOYSTICK



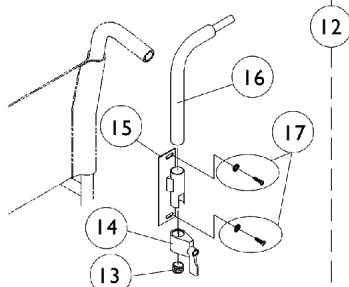
ON CHAIR: 1552M4
OFF CHAIR: 1025590

HEAVY DUTY JOYSTICK



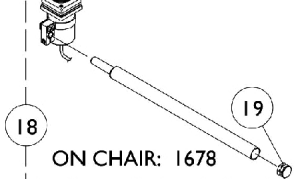
ON CHAIR: 1556M4
OFF CHAIR: 1041544
Used with display w/ switches
1108489

REAR CANE MOUNT



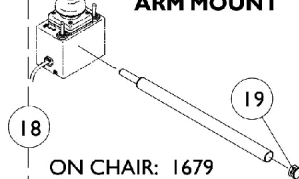
ON CHAIR: 1673

ARM MOUNT



ON CHAIR: 1678

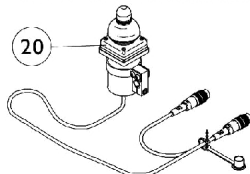
ARM MOUNT



ON CHAIR: 1679

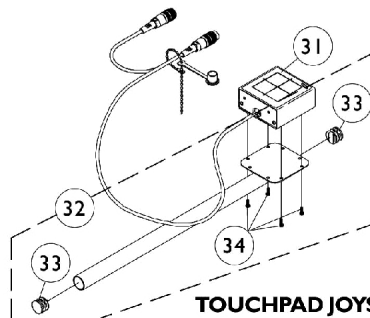
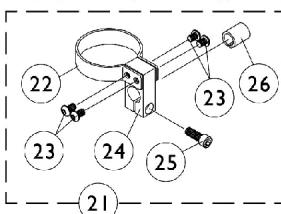
NOTE: Arm mounting tube shown above and additional arm mounting hardware are shipped when the On-Chair model number 1678 or 1679 is ordered.

DUAL/COMPACT JOYSTICK W/ MTG. HARDWARE



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

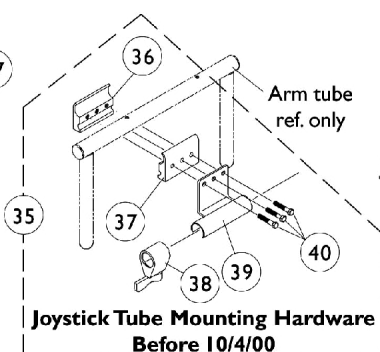
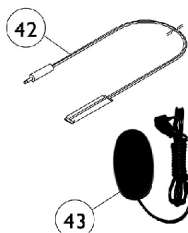
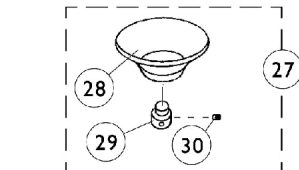
DUAL/COMPACT JOYSTICK MOUNTING HARDWARE



TOUCHPAD JOYSTICK

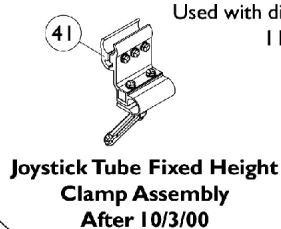
ON CHAIR: TCPDM4
OFF CHAIR: 1091353

Used with display w/ switches
1108489

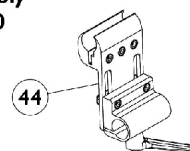


Joystick Tube Mounting Hardware
Before 10/4/00

★ Reset Switch may be required.



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



Joystick Tube Adjustable Height
Clamp Assembly

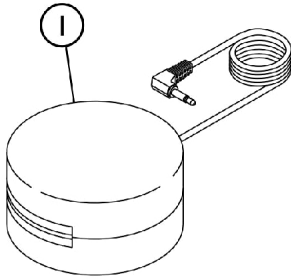
MKIV Joystick Options

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	M	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	N	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

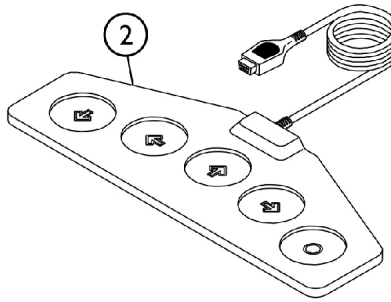
MKIV Joystick Options

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
44		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 - No longer available as a service part in the field. N - Part #1017612 is no longer available as a service part individually. Order item #27 as a replacement.					

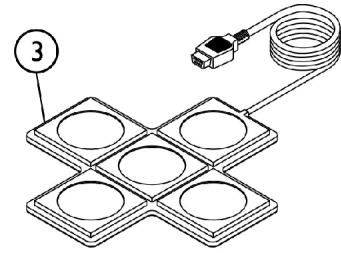
Tash & Therafin Accessories



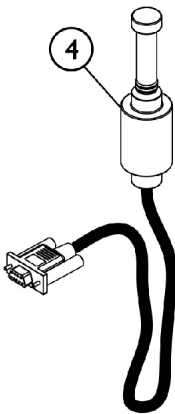
P5820 Red Soft Switch
P5821 Green Soft Switch



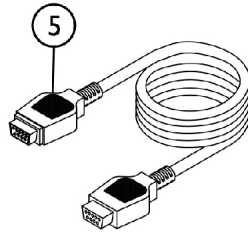
P5018 Wafer Board



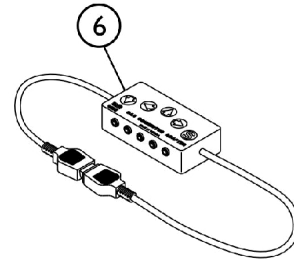
P5026 Star Control



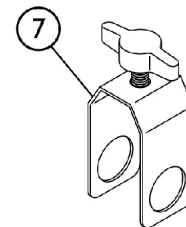
P5020 Mini Joystick with Push



P4337 Multi-Ability Cable



P4353-CA5 Multi-Connector Box



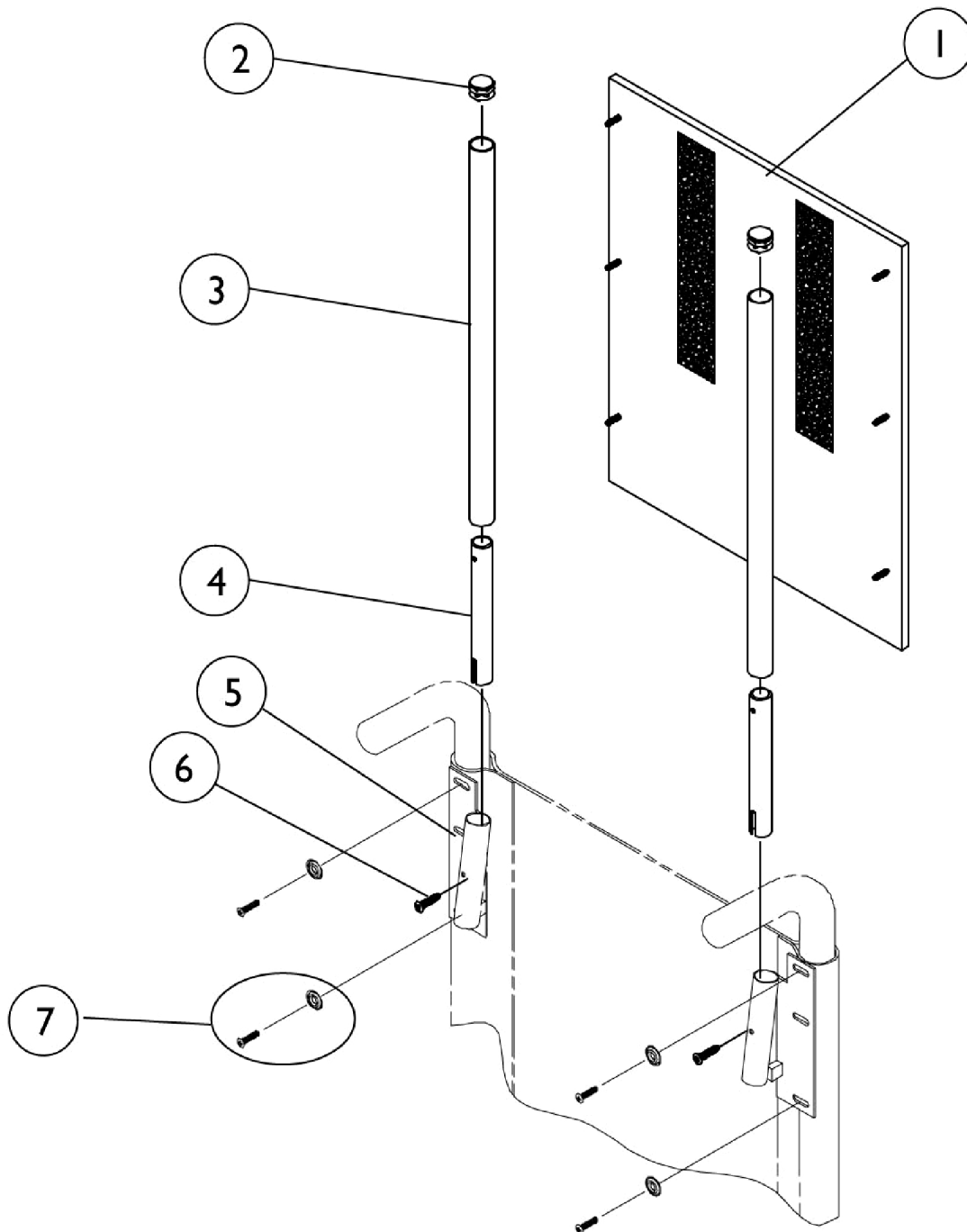
P5970 “U” Clamp

SHEP_090A

Tash & Therafin Accessories

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.					

Headrest & Attaching Hardware Sling Seat Only



Headrest & Attaching Hardware

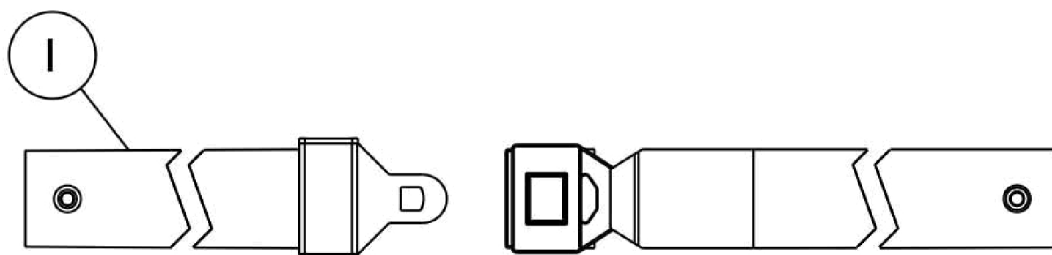
Sling Seat Only

Item #1 Headrest Upholstery

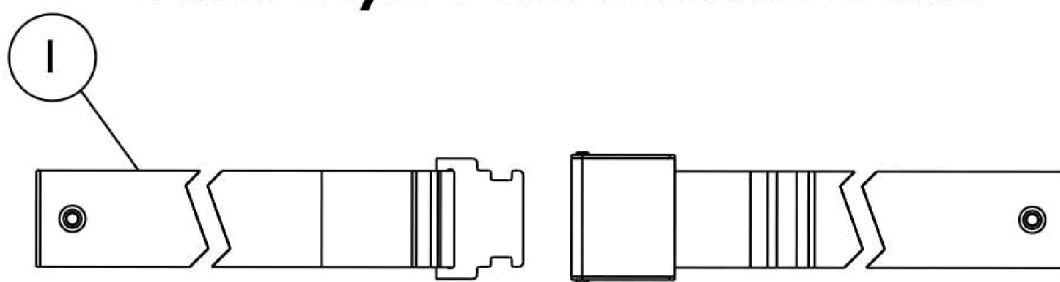
Width	Nylon	Vinyl
14" W	8881052586-NLA	8881054633-NLA See Note(s) A
16" W	8881052588-NLA	8881054638-NLA See Note(s) A
18" W	8881052590-NLA	8881054637-NLA See Note(s) A
20" W	8881052592-NLA	8881054639-NLA See Note(s) A
NOTE: A - Specify upholstery color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options."		

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1		See Chart	Item #1 Headrest Upholstery	1	1
2		1027095	Plug Button, Black (7/8")	1	2
3		1054605-NLA	NLA - Tube, Headrest Extension	1	2
4		1028756-NLA	NLA - Tube, Insert	1	2
5		1028752-NLA	NLA - Bracket, Headrest, Black - Right	1	2
5		1028753	Bracket, Headrest, Black - Left	1	2
6		1028484	Screw, Phillips Pan Head Tap (#10-32 x 1/2")	1	2
7		1076284	Screw w/ Washer (#10 x 7/8")	1	4

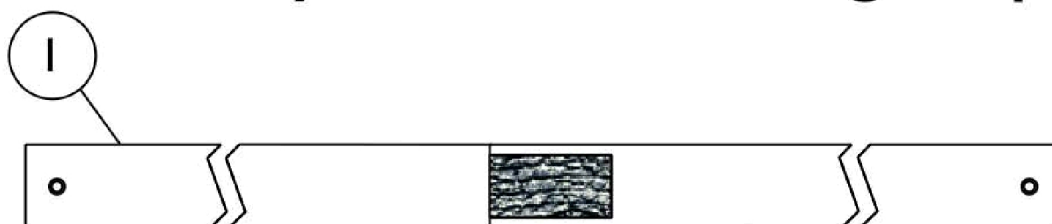
Miscellaneous Accessories



Auto Style Push Button Buckle



Airline Style Buckle Positioning Strap



Hook and Loop Style Buckle Positioning Strap

Miscellaneous Accessories

#1 Auto Style Push Button Positioning Strap

Chair Width	Part Number	Seat/Chest Positioning Strap w/ Auto Style Buckle Length (Eyelet to Eyelet)
14" - 18" Wide	1004310	48" L
20" Wide	1034625	61" L
22" Wide	1034622-NLA See Note(s) A	69" L
NOTE: A - For replacement contact The Aftermarket Group (TAG).		

#1 Airline Style Positioning Strap

Chair Width	Part Number	Seat/Chest Positioning Strap w/ Airline Style Buckle Length (Eyelet to Eyelet)
14" - 18" Wide	TAGTS1034751-NLA	46" L
20" Wide	1034752-NLA See Note(s) A	61" L
22" Wide	1034753-NLA	70" L
NOTE: A - 1034752 Airline Buckle Style is No Longer Available. Use Auto Style part number 1034625 as a replacement.		

#1 Hook and Loop Style Positioning Strap

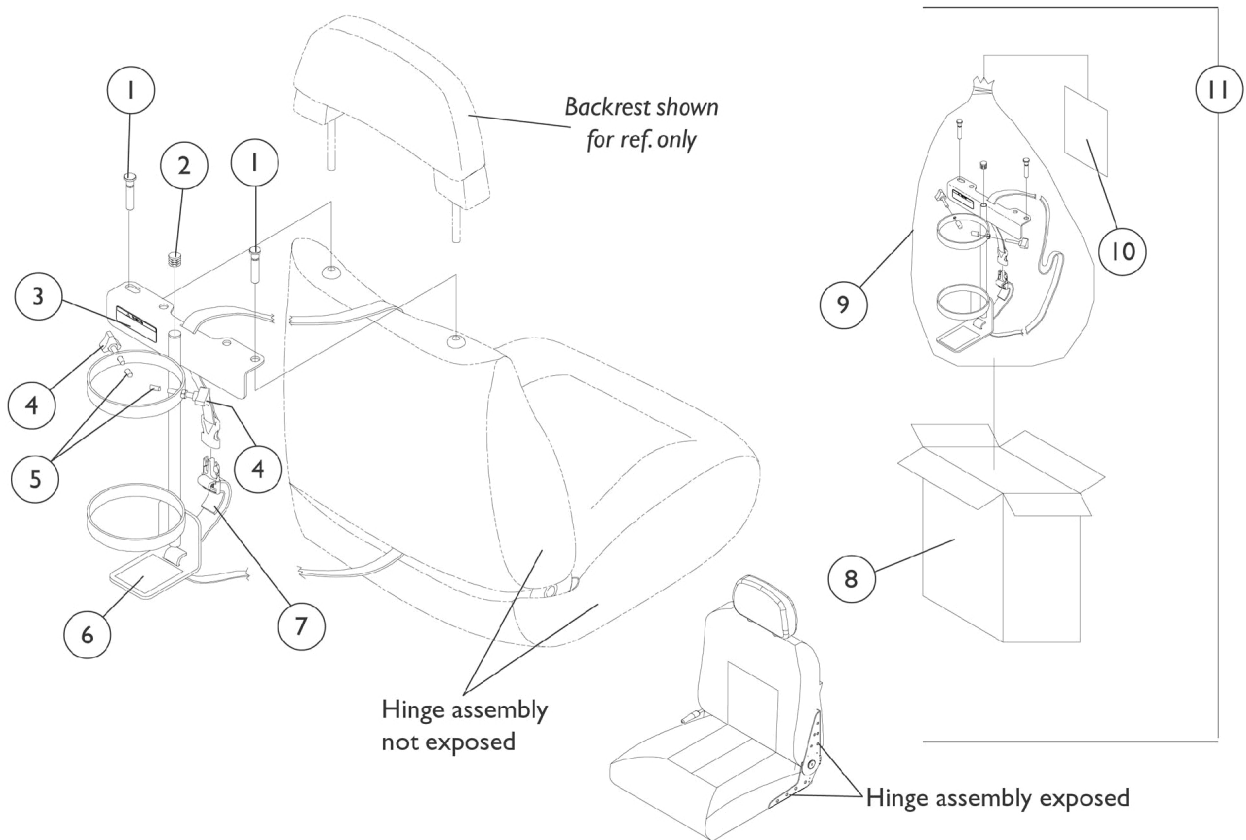
Chair Width	Part Number	Seat/Chest Positioning Strap w/ Hook and Loop Style Buckle Length (Eyelet to Eyelet)
14" - 18" Wide	1034744 See Note(s) A	45" L
20" Wide	1034745 See Note(s) A	61" L
NOTE: A - Hook and Loop Style Positioning Straps for power chairs used for chest positioning only.		

Miscellaneous Accessories

Carrying Pocket

Width	Nylon	Vinyl
14"	8881047956-NLA	8881047954-NLA See Note(s) B, A
16-20"	8881047959	8881047957 See Note(s) A, B
NOTE: A - Specify frame color when ordering. See page titled, "Frame Finishes, Touch-Up Paint and Upholstery Options." B - Vinyl is optional on RII and Excel models		

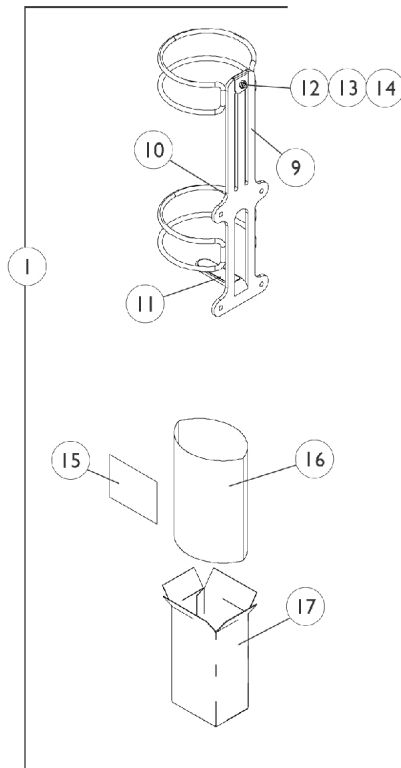
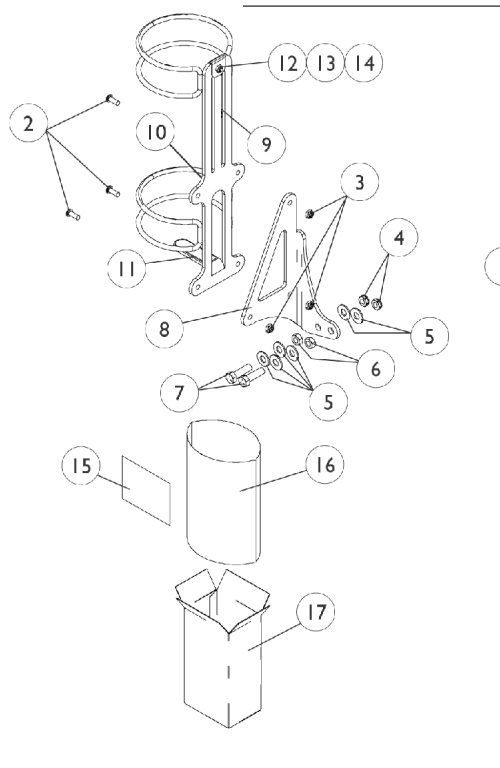
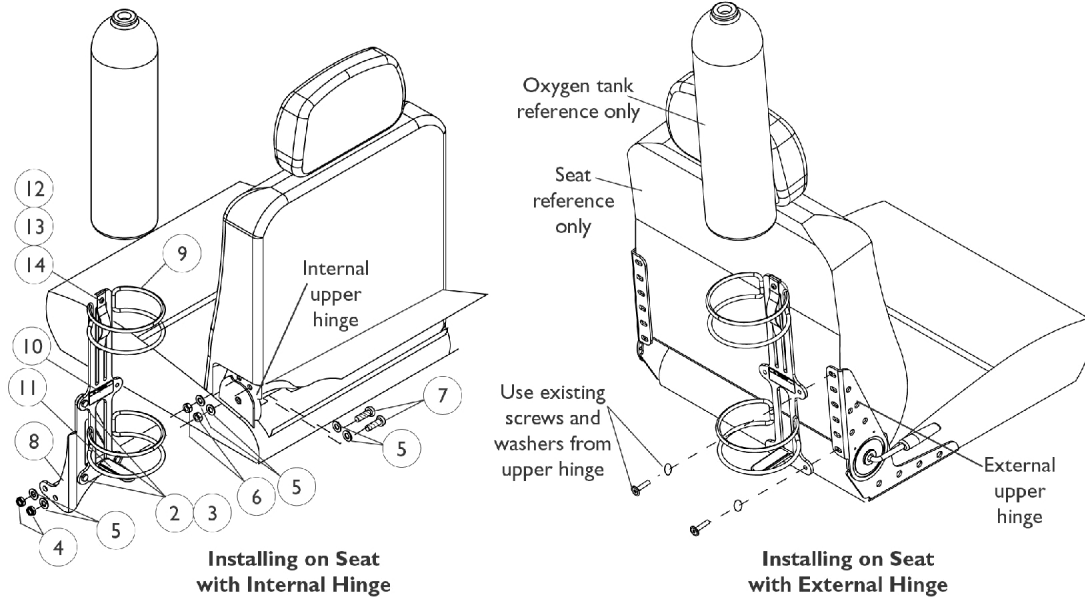
Captain Seat, Low Back Models Only



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



Oxygen Holder Assembly Kit

(After 4/14/03)

All Captain Seat Models

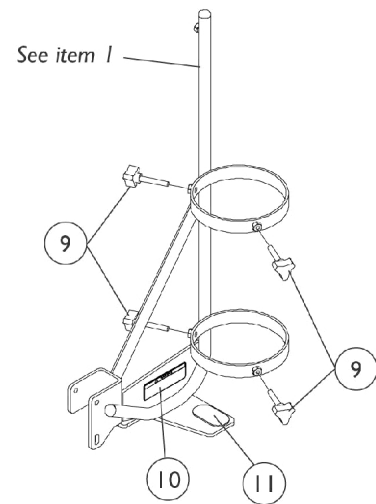
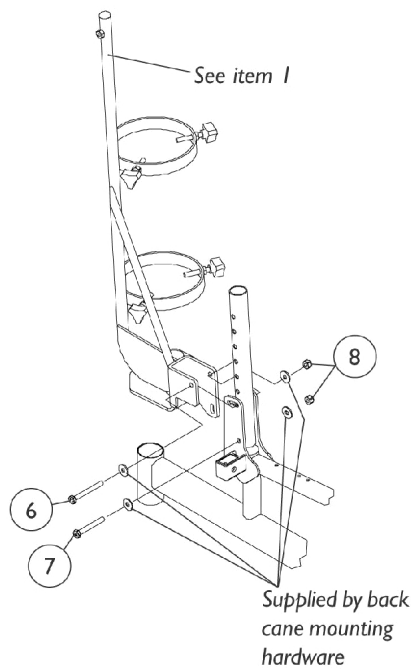
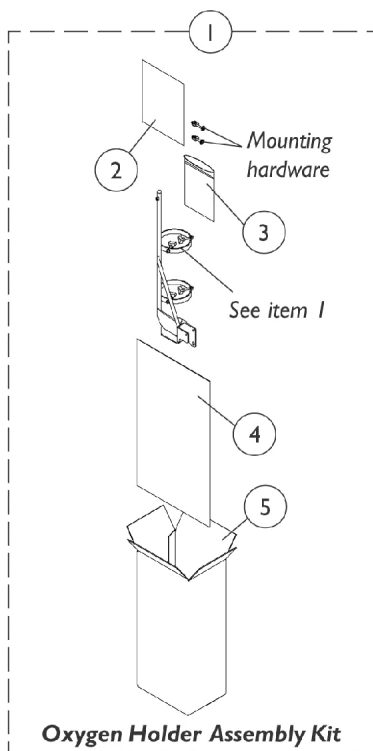
Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1116952-NLA	NLA - Oxygen Holder Assembly Kit	1	1
1	B	1116956	Oxygen Holder Assembly(D or E Tanks)	1	1
2		1055304	Screw, Socket Button Head (1/4-28 x 5/8")	1	3
3		1025765	Locknut (1/4-28)	1	3
4		1028486	Locknut, Low Profile (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

Sling Seats Only

NOTE: Oxygen Holder Assembly Kit shown is not available for EXCEL models.



Oxygen Holder Assembly Kit

Sling Seats Only

NOTE: Oxygen Holder Assembly Kit shown is not available for EXCEL models.

Item Number	Note	Part Number	Description	Quantity Per	
				Package	Assembly
1	A	1098857-NLA	NLA - Oxygen Holder Assembly Kit	1	1
2	B	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		7930333	Locknut (1/4-20)	25	1
9		1027684	Knob, Clamping, Black	1	4
10		1080866	Decal, Oxygen Warning - English	1	1
11		1072002-NLA	NLA - Pad, Non Skid	1	1

NOTE: A - Includes Items 2-11.
 B - 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.

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

Warranty Replacement Parts

Part Number	Description	QTY per Assembly
1123249E-NLA See Note(s) B, 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 & Harnesses" Category for more information. B - See "Battery Chargers & Harness - R2 jr. (14" Wide)" 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
Customer Service
800-333-6900

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. 98-289