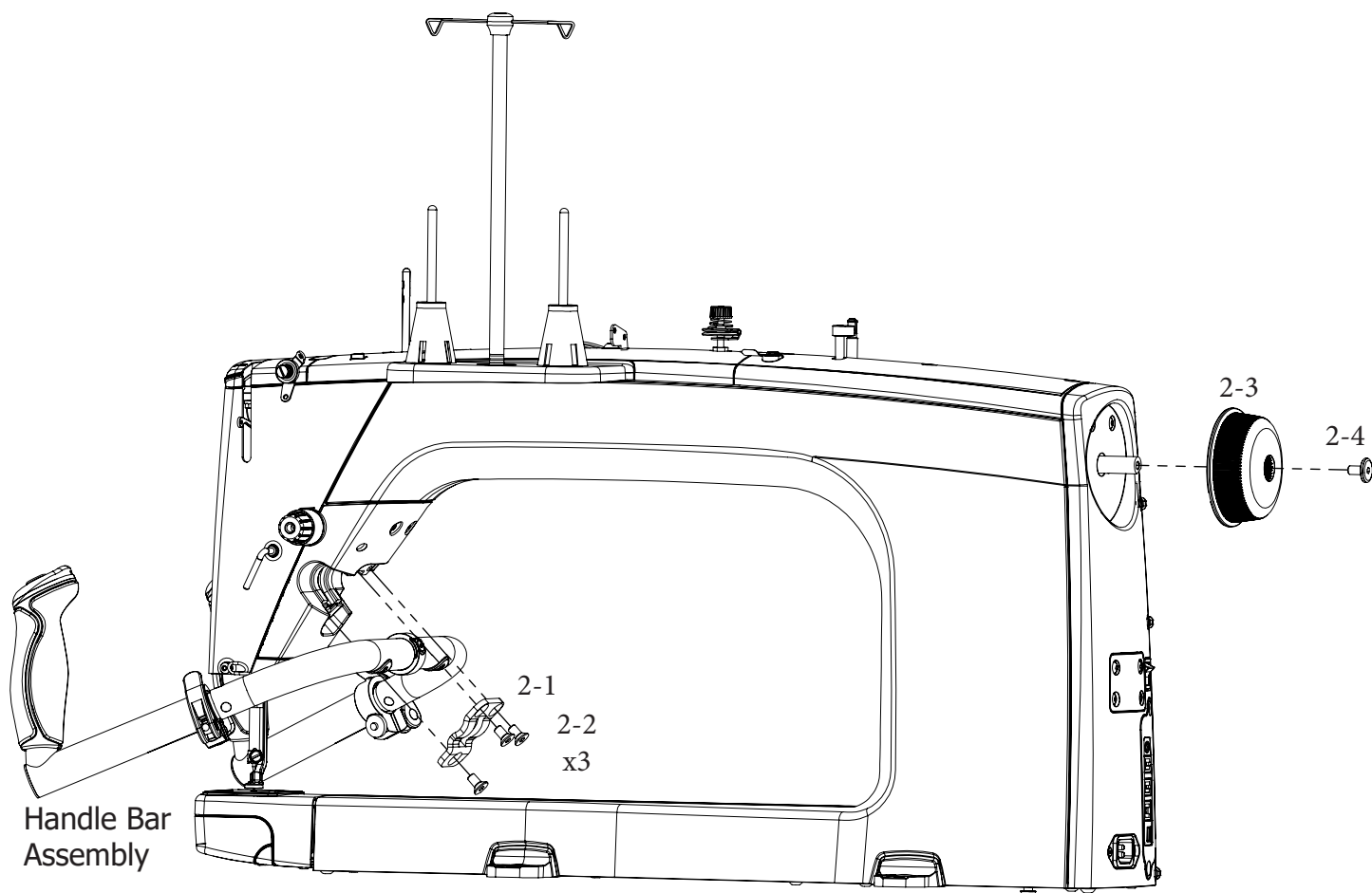


19" Sewing Machine

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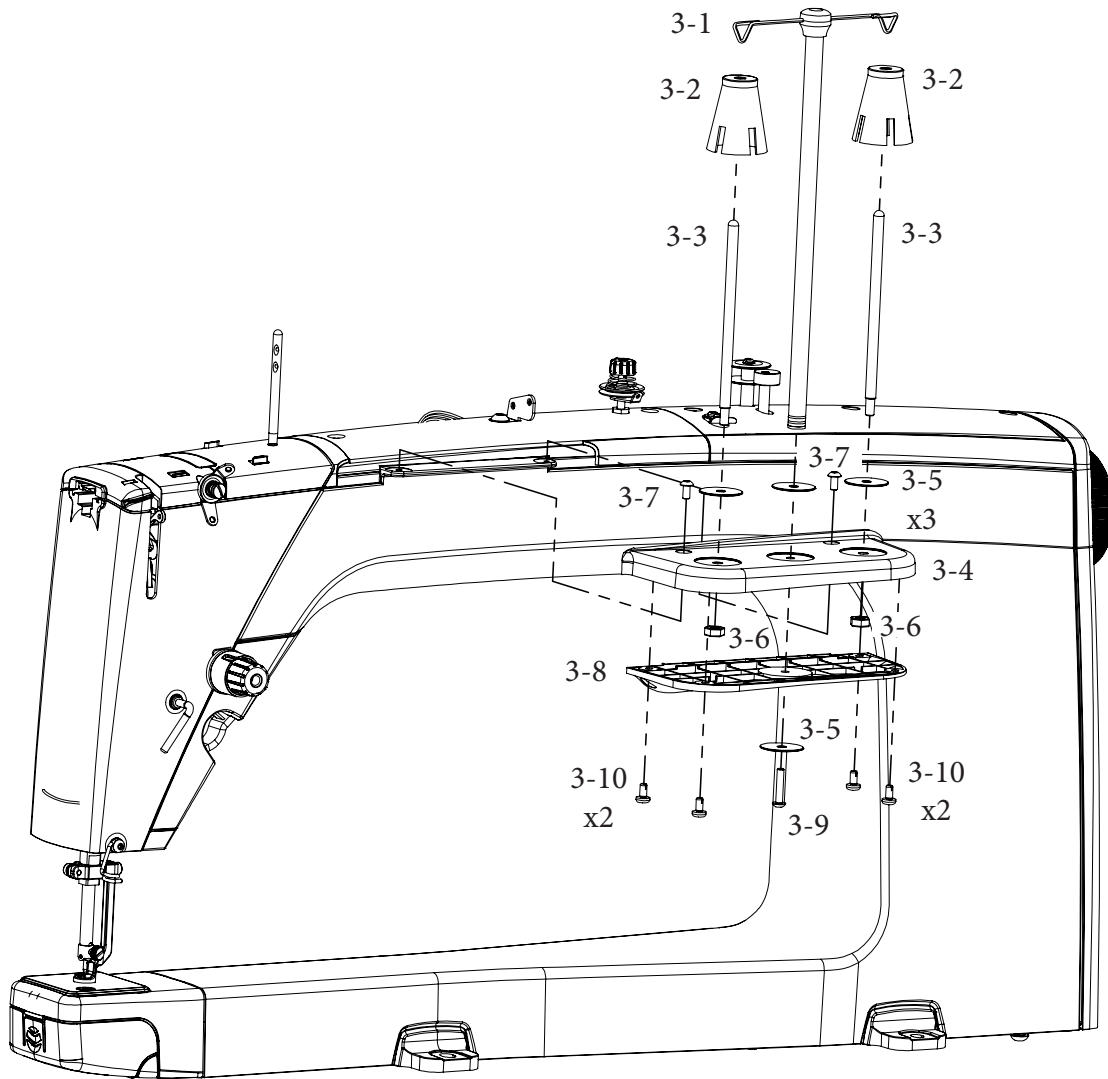
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Handle Bar Assembly and Hand Wheel Removal



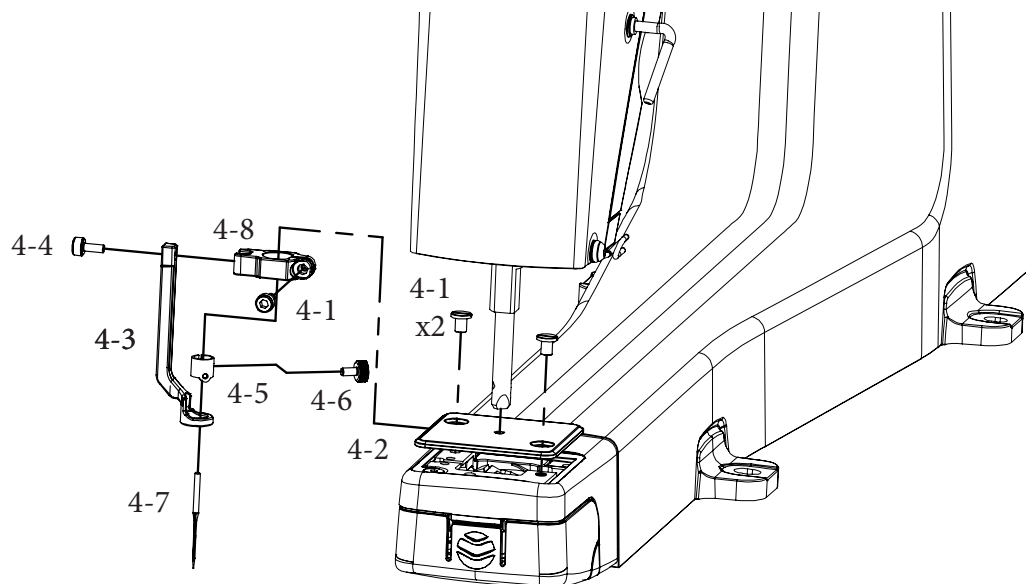
Ref No.	Part No.	Description
2-1	04-12018	Handle Bar Mount Plate
2-2	03-12019	M6 x 12mm Socket FCHS
2-3	05-12020	19in Handle wheel
2-4	03-10027	M6 X 12mm Socket Connector Bolt

Thread Stand Removal



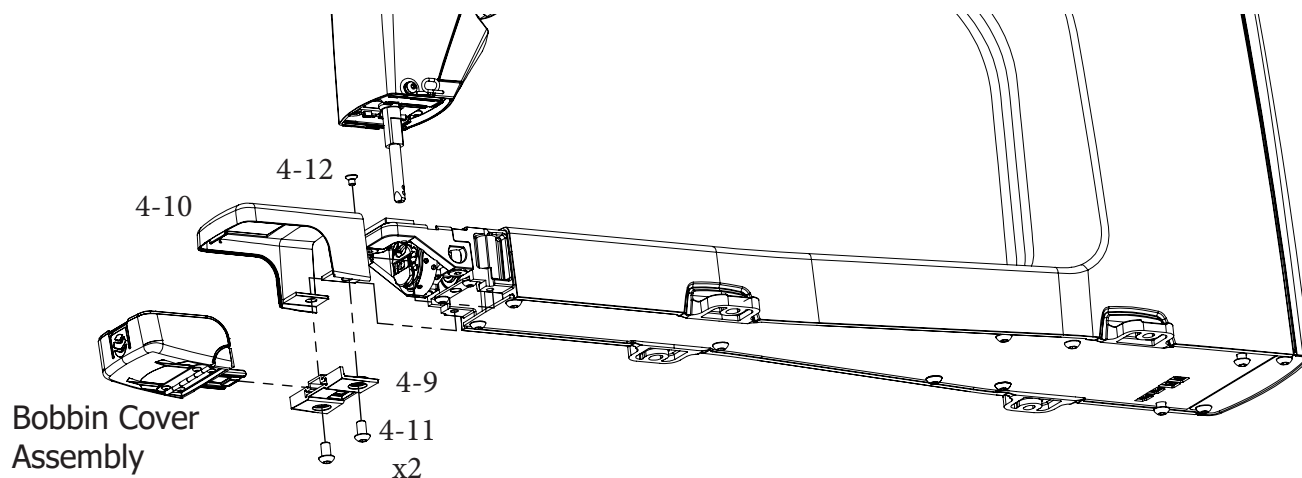
Ref No.	Part No.	Description
3-1	01-10113	Thread Stand Asm Two Sided
3-2	05-10117	Spool Retainer
3-3	04-10115	Thread Stand Pin
3-4	05-12021	Thread Stand Base
3-5	03-11304	“Washer M5(5ID X 25OD X 1.5mm T)”
3-6	03-10062	M4 Hex nut
3-7	03-10012	M4 X 8mm SBHCS
3-8	05-12022	Thread Stand Bottom
3-9	03-11661	M4 x 20mm SBHCS
3-10	03-11738	M4 x 8mm Pan-Head Self Tapping Screw

Hopping Foot and Needle Bar Removal



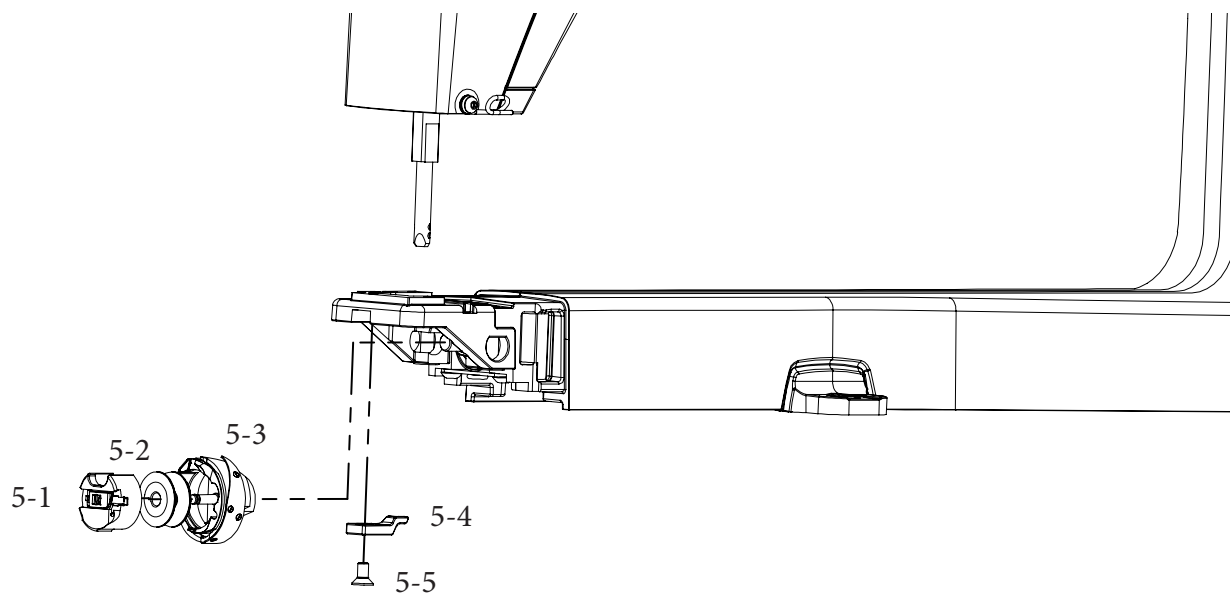
Ref No.	Part No.	Description
4-1	03-10005	Needle plate screw Ø4.36 X 5.85mm
4-2	04-12070	Needle plate 19in
4-3	04-12071	Hopping Foot 19in
4-4	03-10966	M3 X 6mm SHCS
4-5	04-10039	Needle bar thread guide
4-6	03-11736	M3 Thumb Screw
4-7	08-10040	Needle
4-8	04-12072	Hopping Foot Collar

Bobbin Cover Assembly Removal



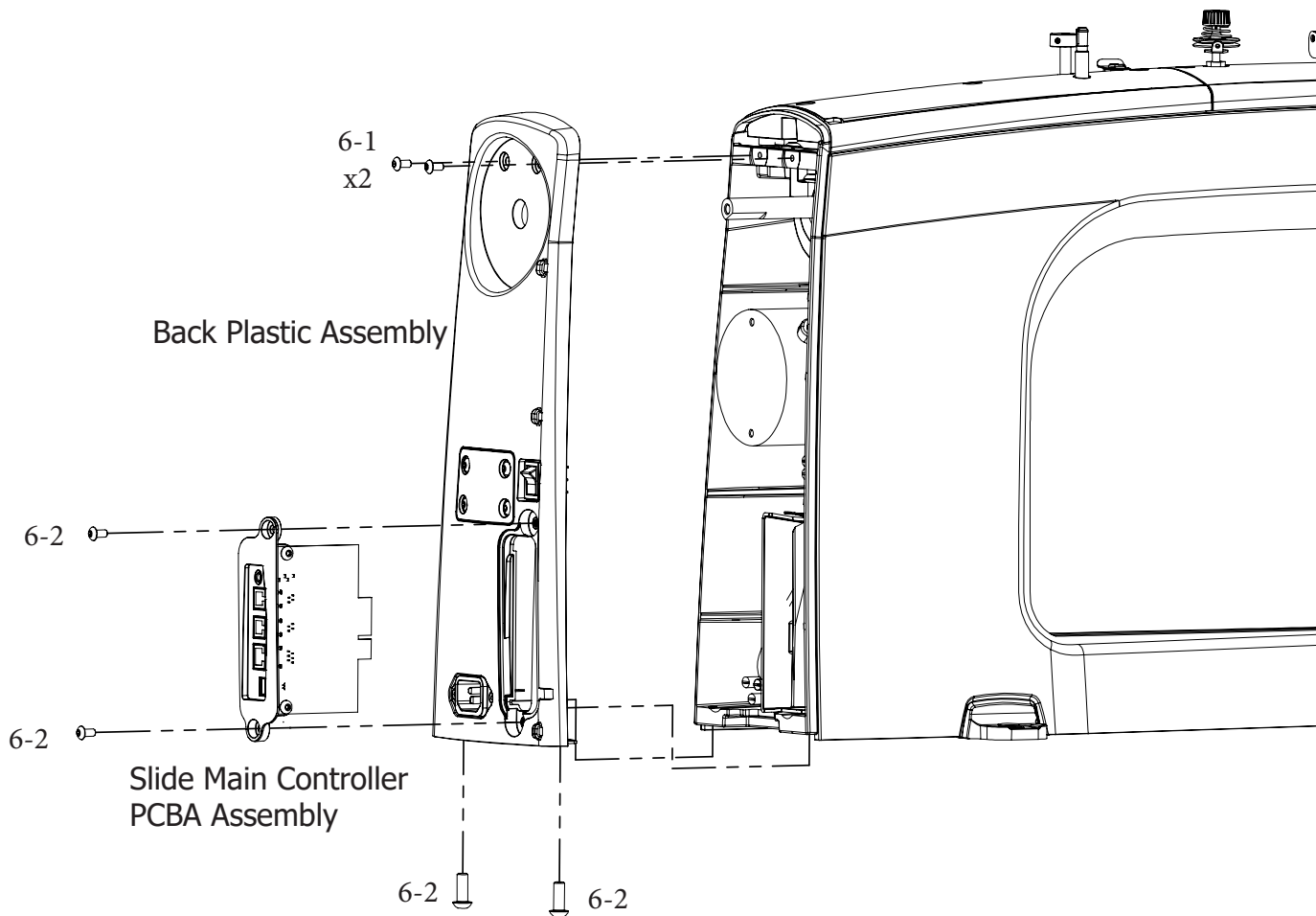
Ref No.	Part No.	Description
4-9	05-12073	Female Bobbin Cover Clip
4-10	05-12074	Bobbin Area Cover
4-11	03-10124	M6 x 10mm SBHCS
4-12	03-12190	M4 x 6mm FCHS

Hook Assembly Removal



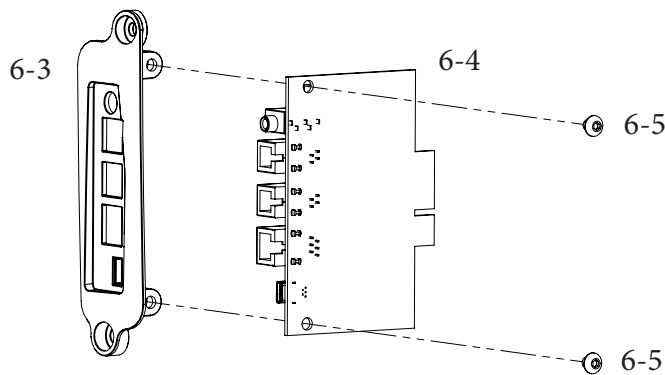
Ref No.	Part No.	Description
5-1	01-10069	Bobbin Case
5-2	08-10070	Bobbin
5-3	01-10071	Hook Assembly
5-4	04-12075	Hook Holder 19in
5-5	03-11740	M5 x 10mm FCHS

Back Plastic Assembly Removal



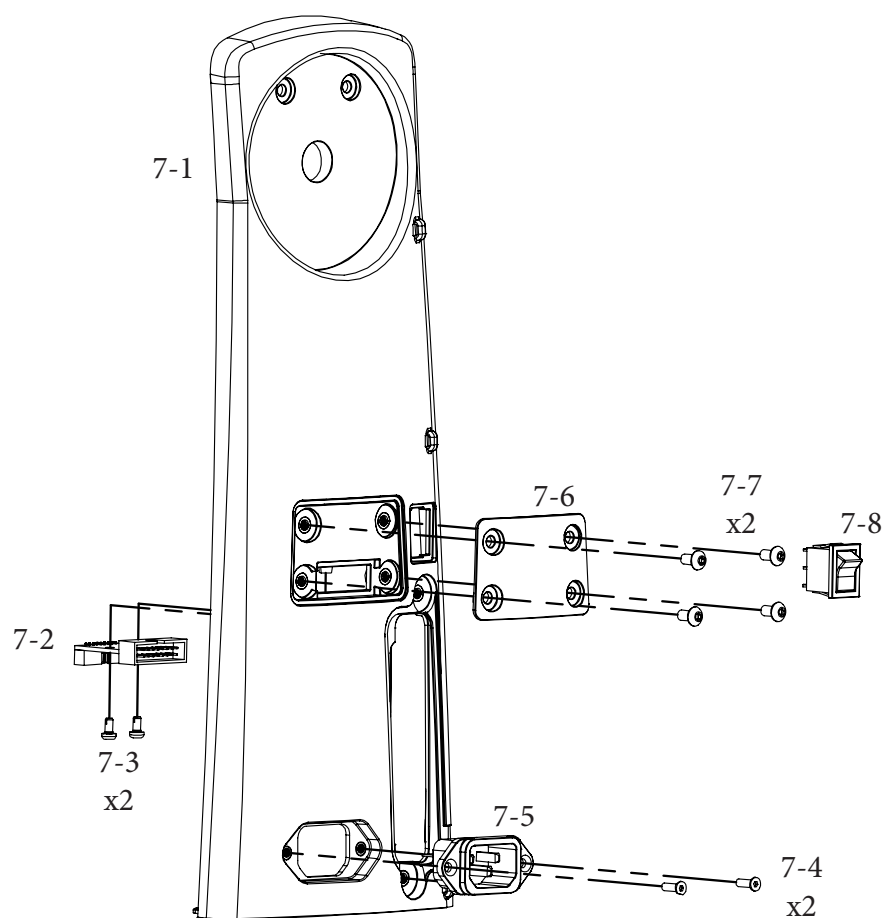
Ref No.	Part No.	Description
6-1	03-10012	M4 x 8mm SBHCS
6-2	03-10974	M6 x 16mm SBHCS

Slide Main Controller PCBA Assembly



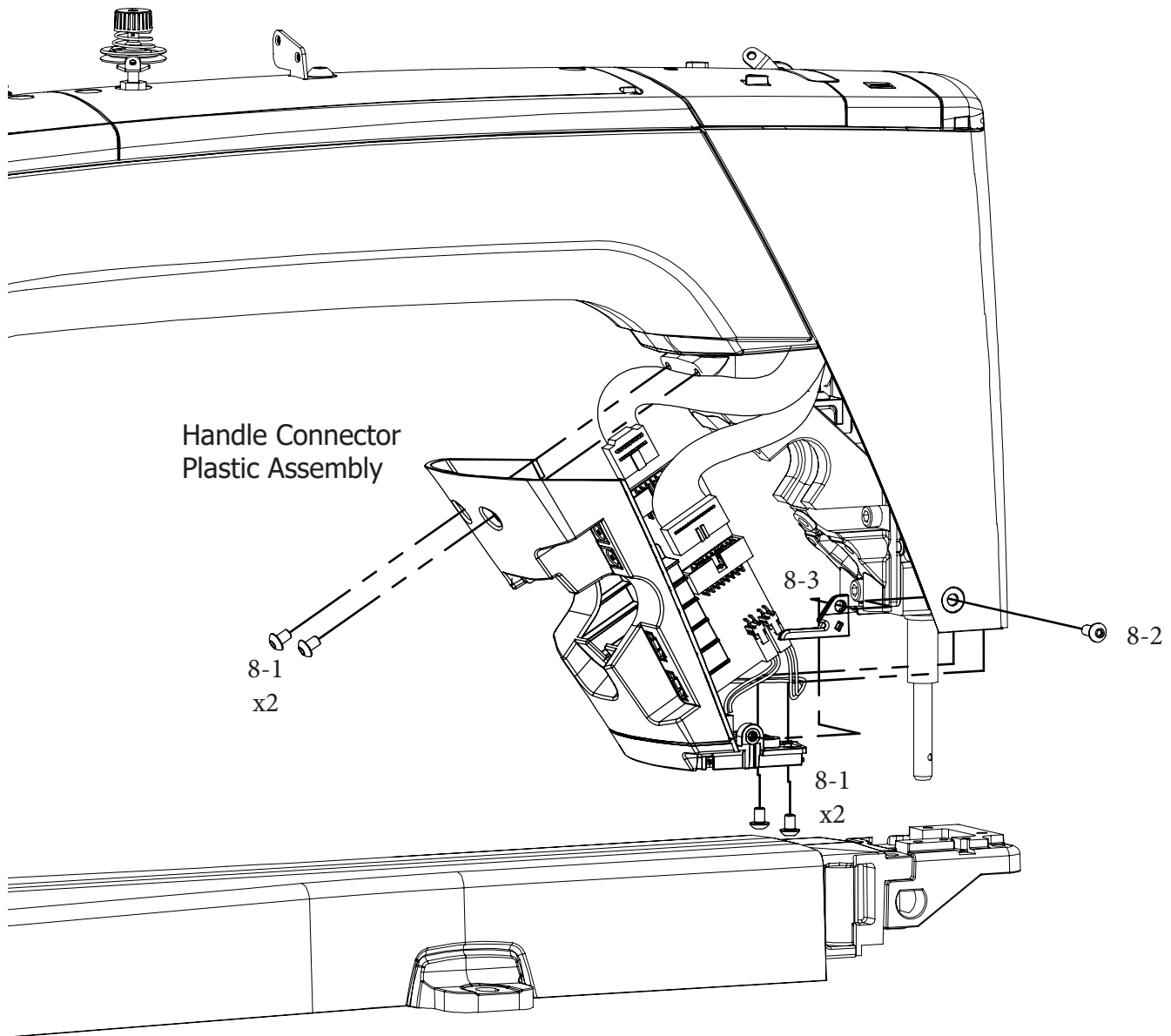
Ref No.	Part No.	Description
6-3	04-12076	Back Connector Board Mount
6-4	02-12077	Slide Main Controller PCBA
6-5	03-11602	M4 x 4mm SBHCS

Back Plastic Assembly



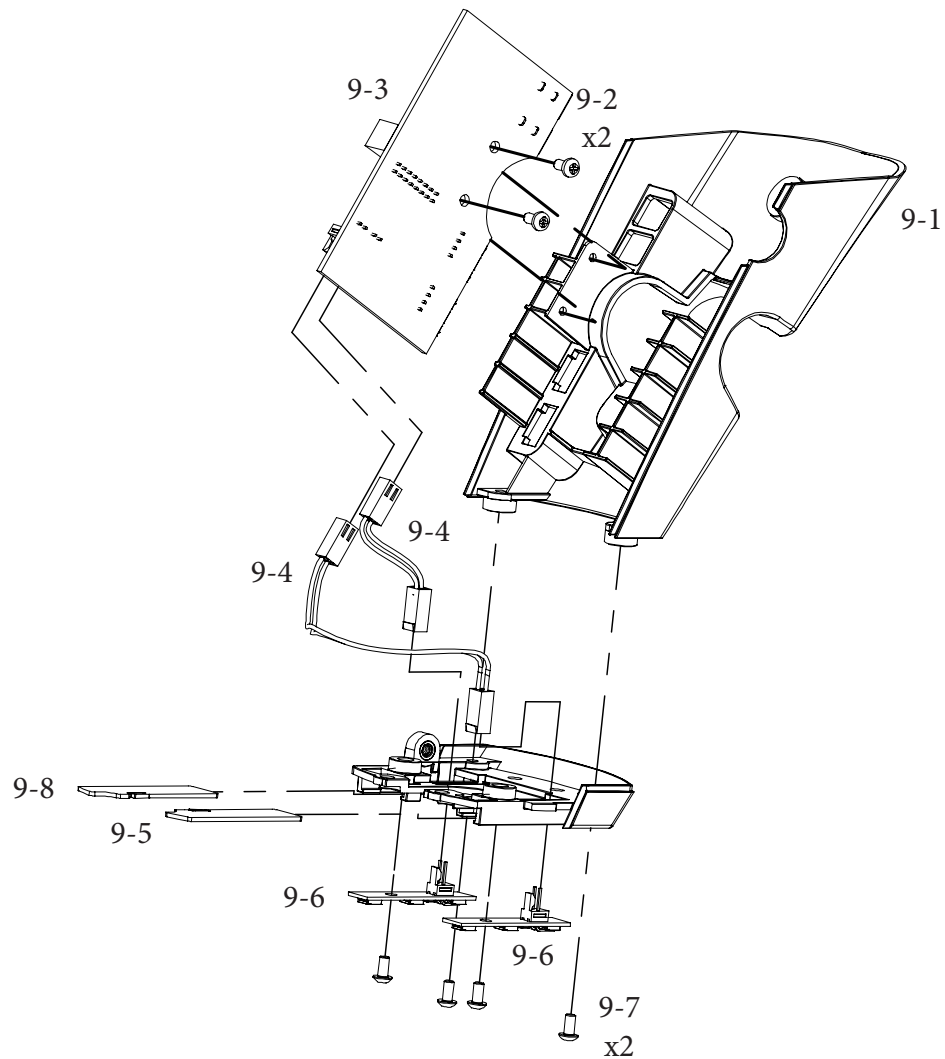
Ref No.	Part No.	Description
7-1	05-12078	Main Back Plastic
7-2	02-12079	16 Pin Connector Board
7-3	03-10109	M3.5 x 6 x 5.5mm Phillips Head Screw
7-4	03-12080	M3 x 10mm FCHS
7-5	02-10223	Power Connector 19in
7-6	04-12081	Back Handle Access
7-7	03-10012	M4 x 8mm SBHCS
7-8	02-10222	Switch

Handle Connector Plastic Assembly Removal



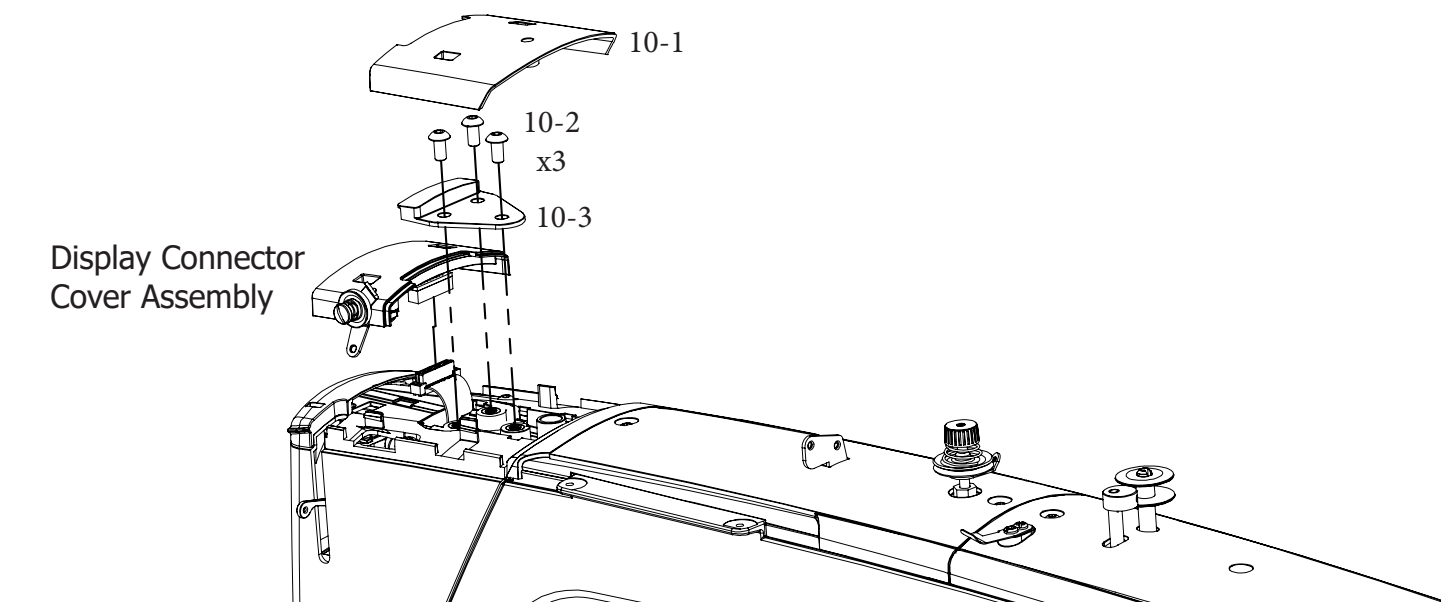
Ref No.	Part No.	Description
8-1	03-10968	M4 x 6mm SBHCS
8-2	03-10012	M4 x 10mm SBHCS
8-3	04-12082	19in Thread Cutter

Handle Connector Plastic Assembly



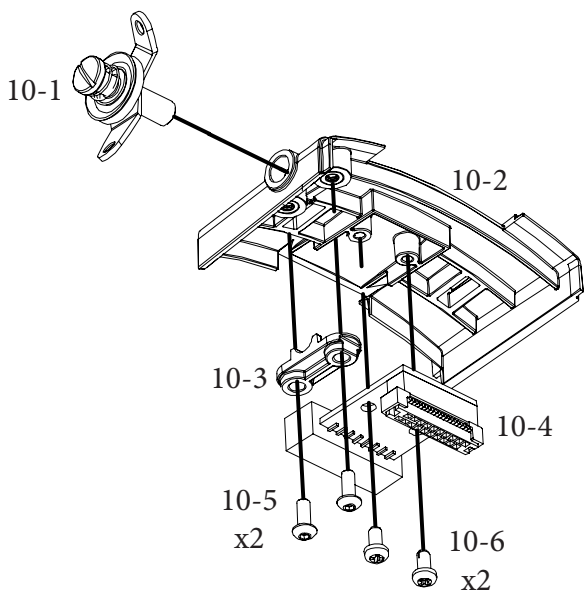
Ref No.	Part No.	Description
9-1	05-12088	Handle Connector Plastic
9-2	03-10109	M3.5 x 6 x 5.5mm Phillips Head Screw
9-3	02-12084	Handle Connector Board
9-4	02-12085	LED Lamp Cable
9-5	05-12086	LED Cover Left
9-6	02-12087	LED Board with Handle Connectors
9-7	03-11199	M3 x 6mm SBHCS
9-8	05-12279	LED Cover Right

Display Connector Cover Assembly Removal



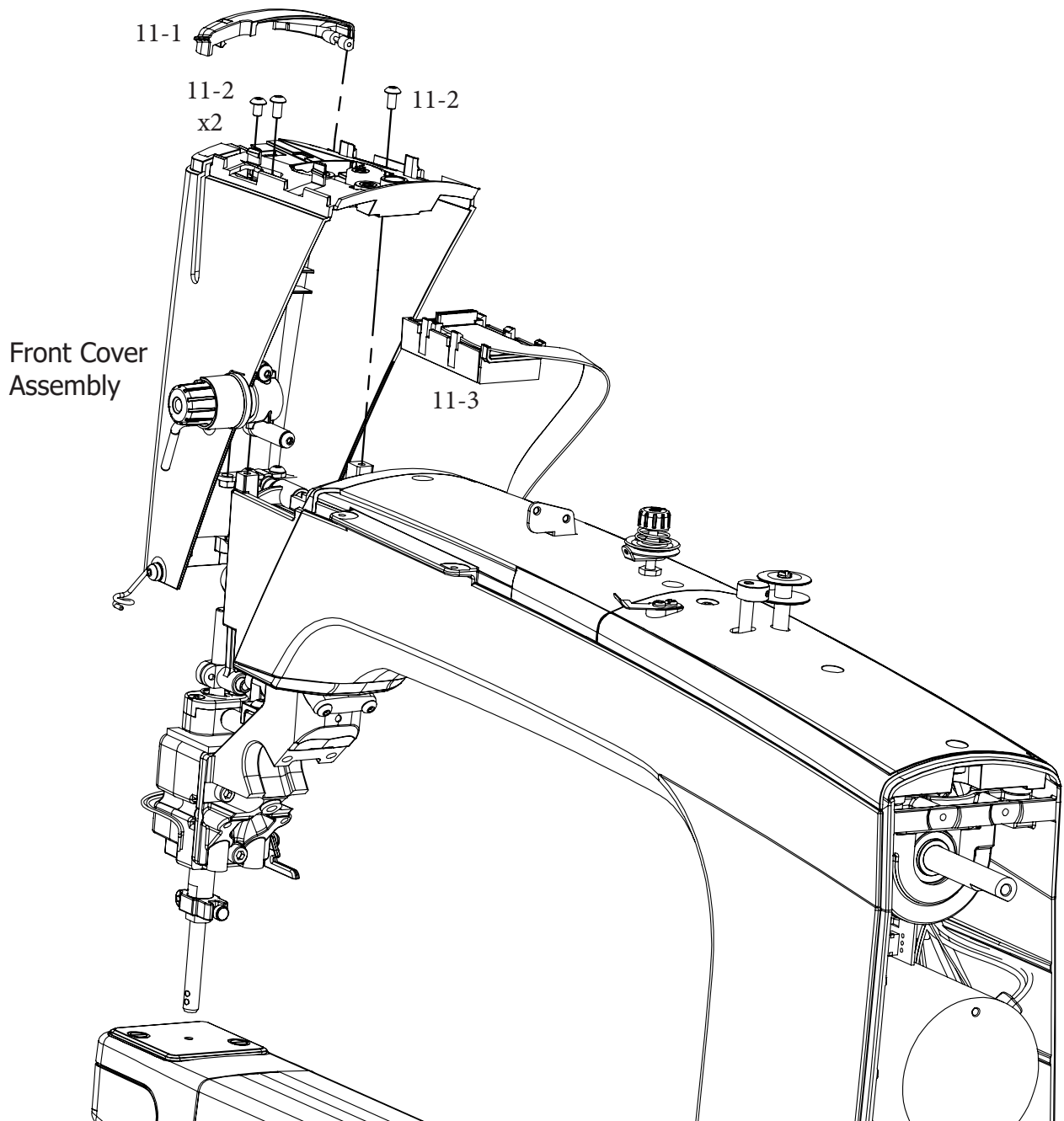
Ref No.	Part No.	Description
10-1	05-12088	QCT Back Cover
10-2	03-10073	M5 x 10mm SBHCS
10-3		QCT Cover

Display Connector Cover Assembly



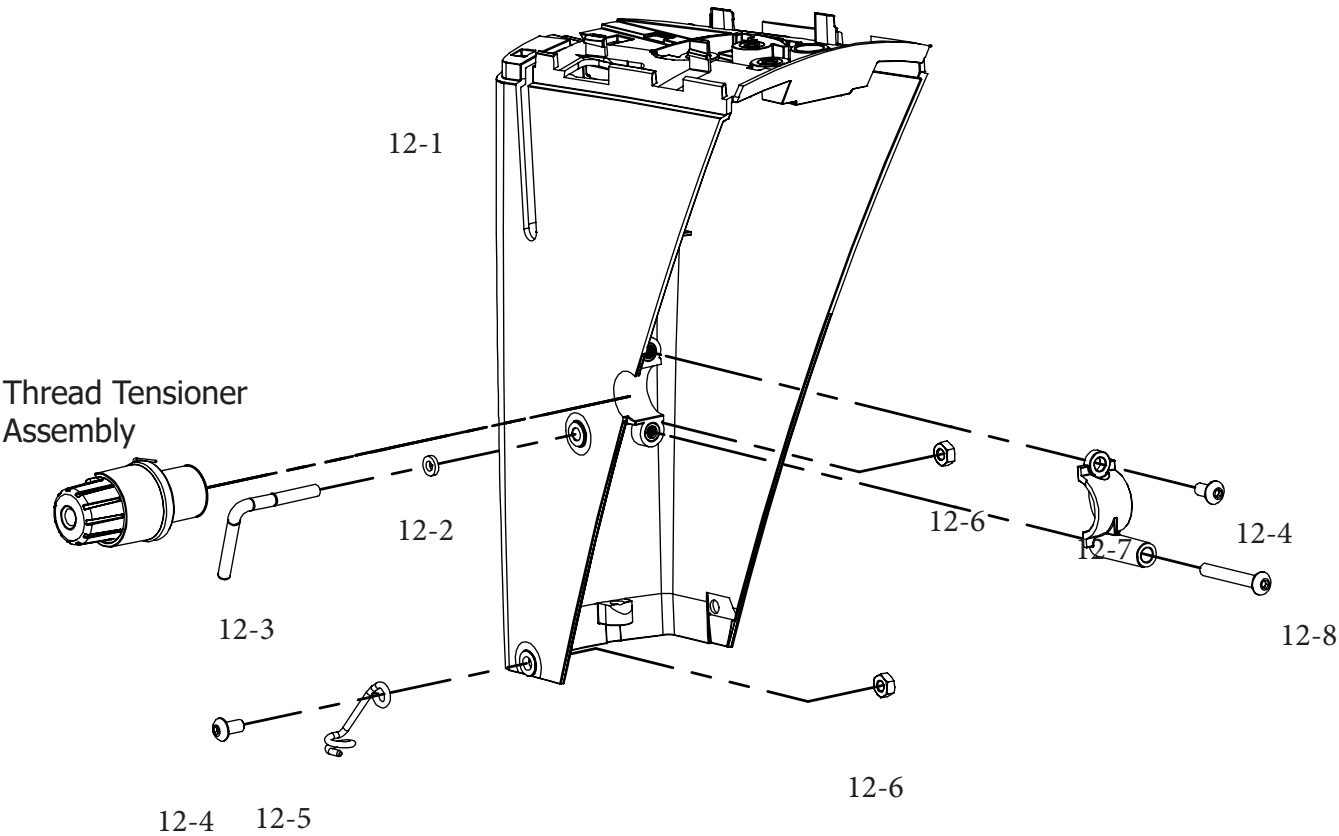
Ref No.	Part No.	Description
10-1	01-10015	Thread Tensioner Assembly (little)
10-2	05-12089	Display Connector Cover
10-3	05-12090	Thread Guide Holder
10-4	02-12091	16 Pin Connector Board
10-5	03-10966	M3 x 8mm SBHCS
10-6	03-10109	M3.5 x 6 x 5.5 Phillips Head Screw

Front Cover Assembly Removal



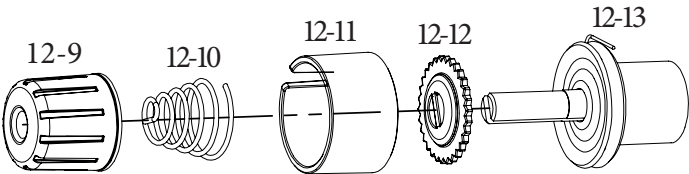
Ref No.	Part No.	Description
11-1	05-12092	Display Clip Cover
11-2	03-10968	M4 x 6mm SBHCS
11-3	05-12093	Display Cable Compartment

Front Cover with Thread Guides Assembly



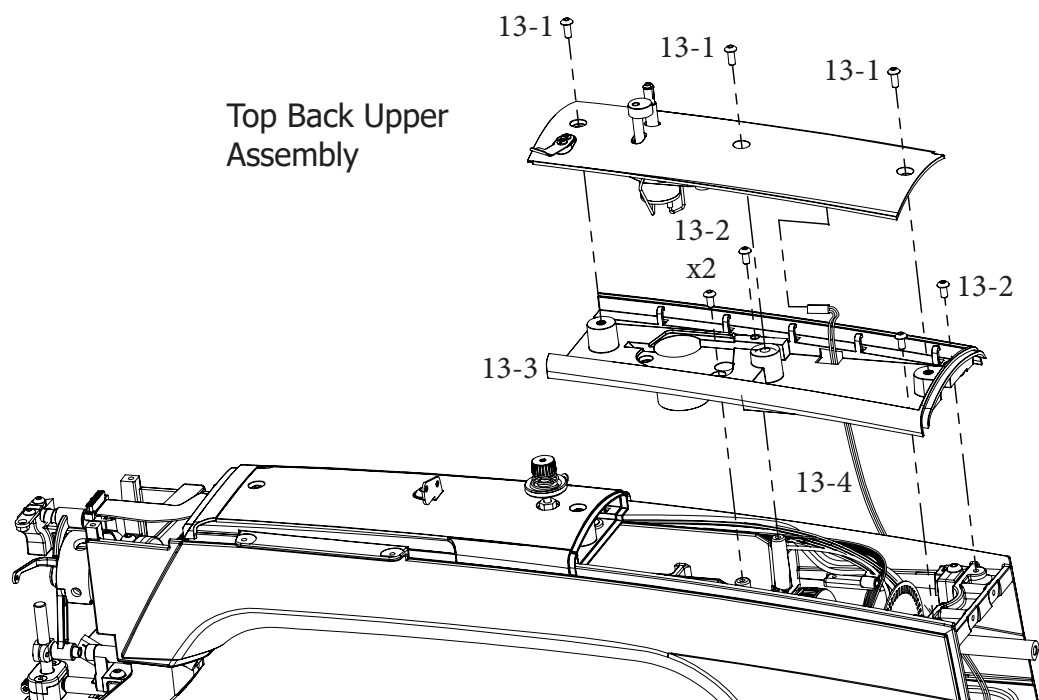
Ref No.	Part No.	Description
12-1	05-12095	Front Cover
12-2	03-11743	Thread Guide Rod Run
12-3	04-11719	Thread Guide Arm Rod
12-4	03-10012	M4 x 8mm SBHCS
12-5	04-12096	Spring Thread Guide
12-6	03-10062	M4 Hex Nut
12-7	05-12097	Thread Tensioner Cover
12-8	03-11497	M4 x 30mm SBHCS

Thread Tensioner Assembly



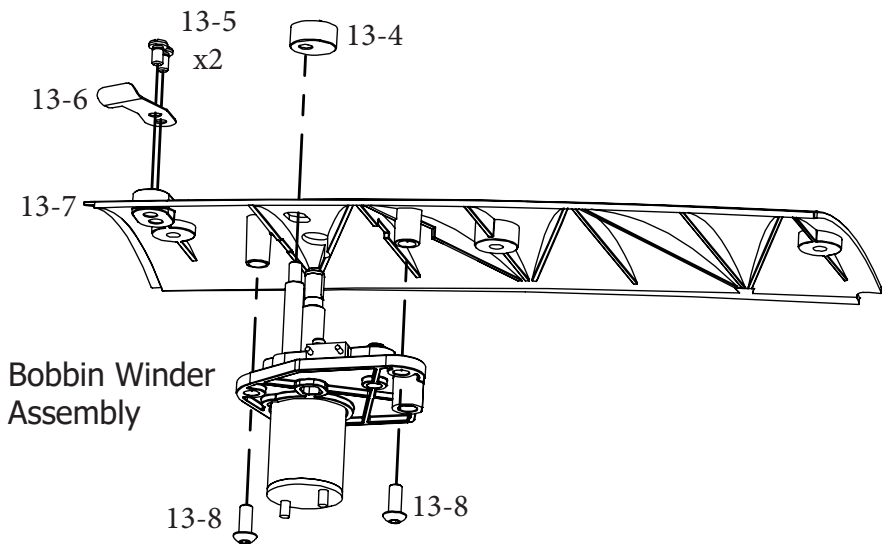
Ref No.	Part No.	Description
12-9	05-12098	Thread Tensioner Nut
12-10		Thread Tensioner Spring
12-11	05-12100	Thread Tensioner Meter
12-12	05-12101	Thread Tensioner Meter Key
12-13	01-10012	Thread Tensioner Assembly

Top Back Assembly Removal



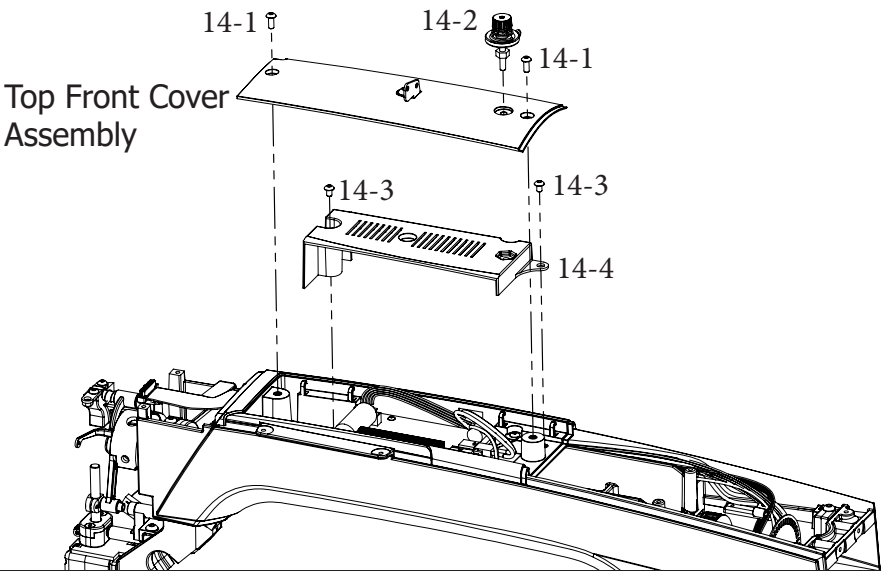
Ref No.	Part No.	Description
13-1	03-10012	M4 x 10mm SBHCS
13-2	03-10175	M4 x 8mm SBHCS
13-3	05-12102	Top Back Lower
13-4	02-12103	Bobbin Winder Jumper Cable

Top Back Upper Assembly



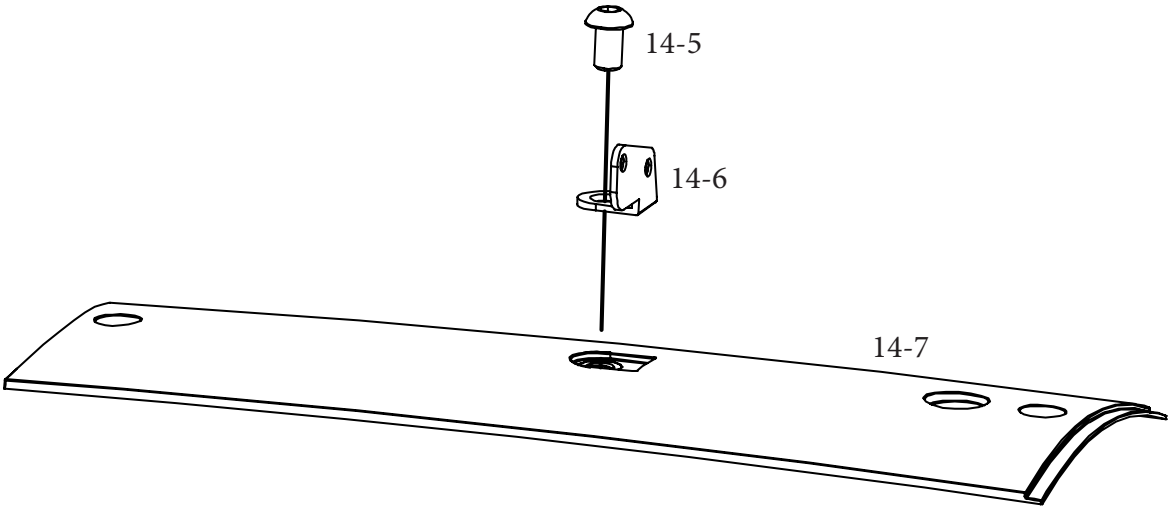
Ref No.	Part No.	Description
13-4	05-10102	Bobbin Winder Eccentric Cam
13-5	03-10109	M3.5 x 6mm Phillips Head Screw
13-6	04-10108	Thread Cutter
13-7	05-12104	Top Back Upper
13-8	03-10012	M4 x 10mm SBHCS

Top Front Assembly Removal



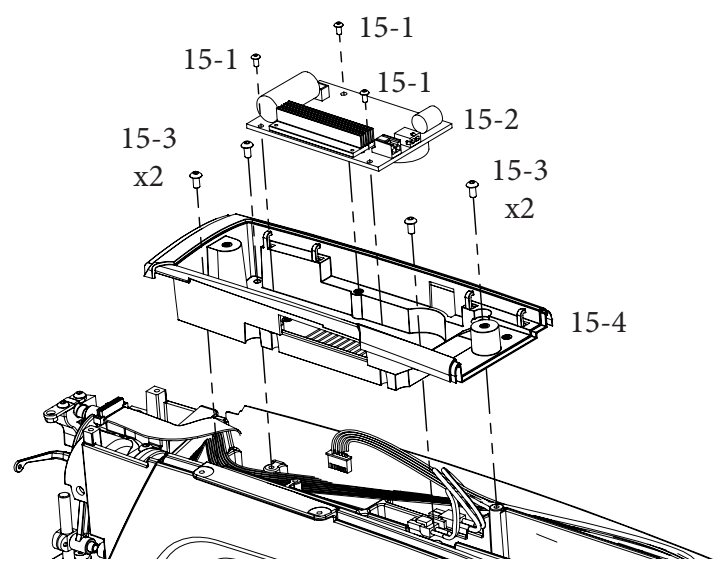
Ref No.	Part No.	Description
14-1	03-10012	M4 x 10mm SBHCS
14-2	01-10107	Bobbin Thread Tensioner Assembly
14-3	03-10968	M4 x 6mm SBHCS
14-4	05-12105	MDB Cover

Top Front Assembly



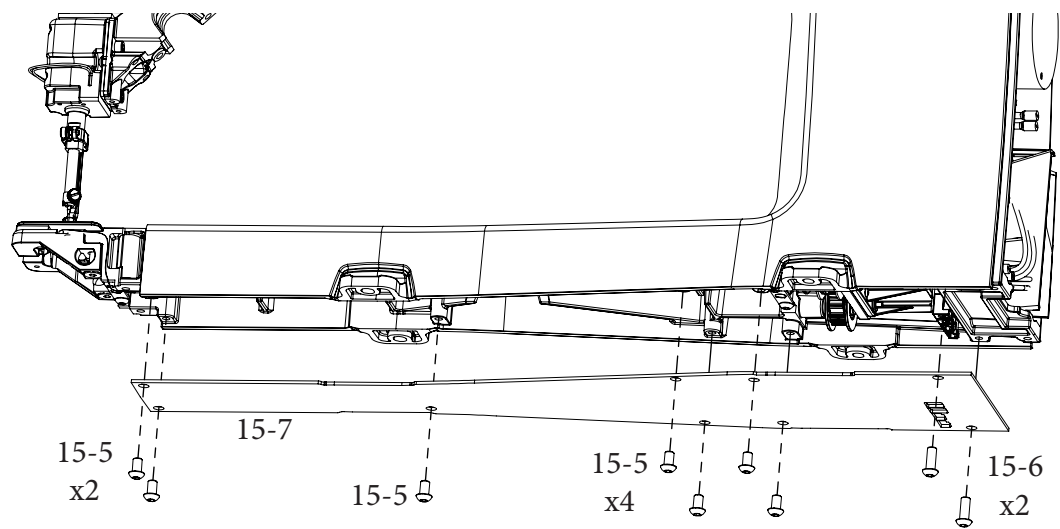
Ref No.	Part No.	Description
14-5	03-10124	M6 x 10mm SBHCS
14-6	04-10110	Thread Guide
14-7	05-12106	Top Front Upper

MDB Removal



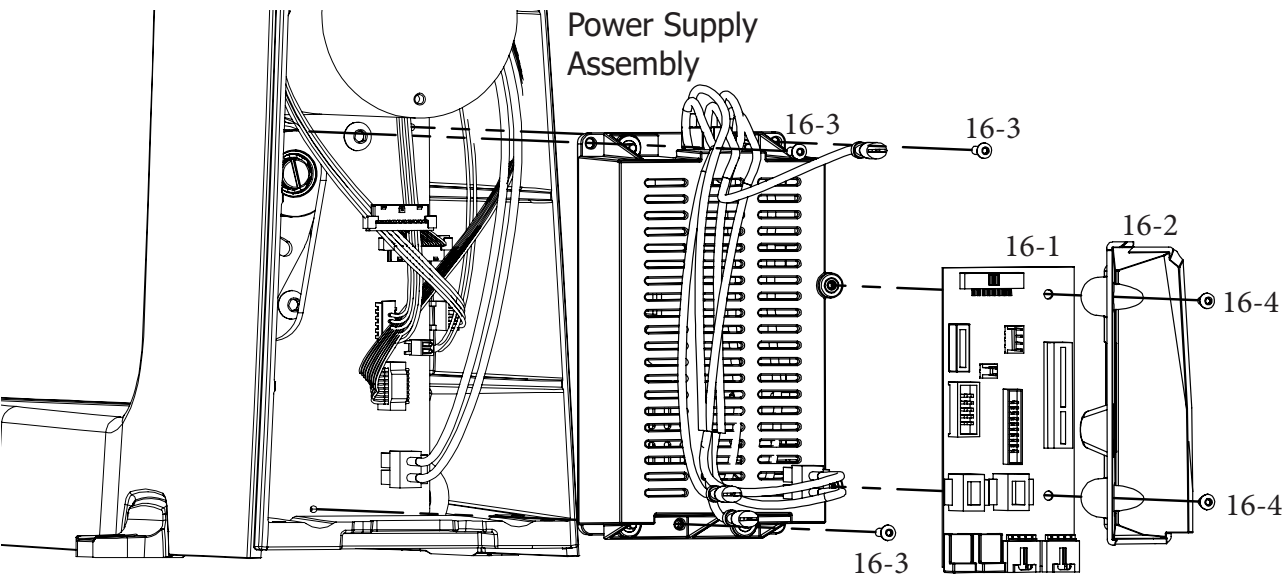
Ref No.	Part No.	Description
15-1	03-10177	M3 x 6mm SBHCS
15-2	02-12107	Motor Driver PCBA 19in
15-3	03-10175	M4 x 8mm SBHCS
15-4	05-12108	Top Front Lower

Bottom Plastic Removal



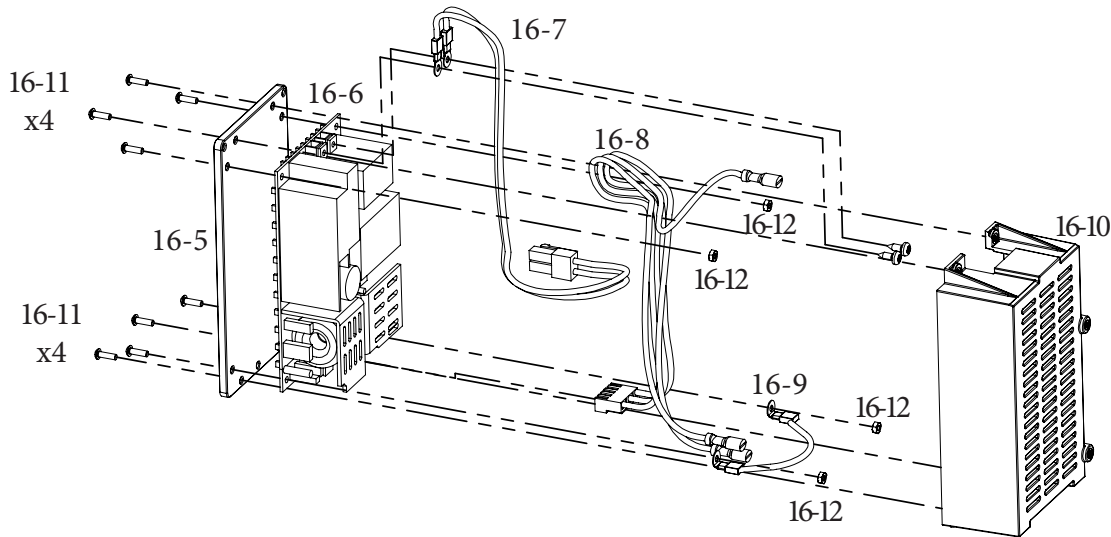
Ref No.	Part No.	Description
15-5	03-10124	M6 x 10mm SBHCS
15-6	03-10974	M6 x 16mm SBHCS
15-7	05-12109	Bottom Plastic

Power Supply Assembly Removal



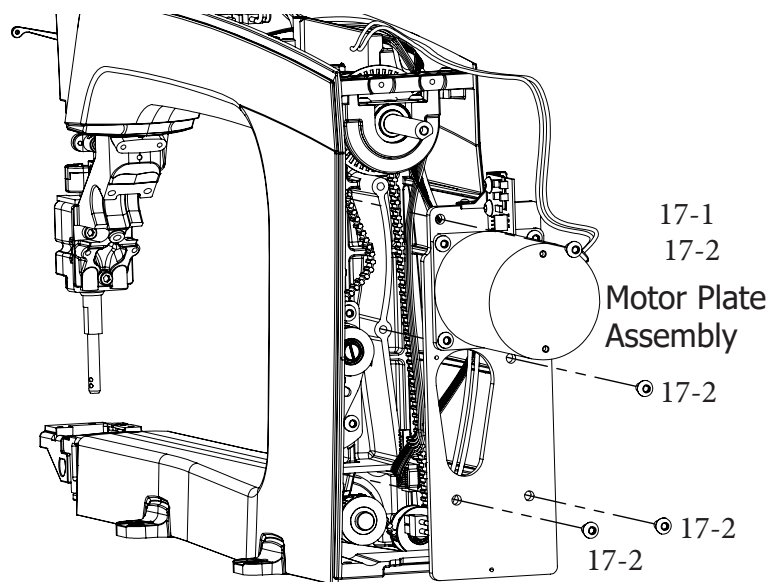
Ref No.	Part No.	Description
16-1	02-12110	PCBA Connector Board
16-2	05-12111	Back Connector Board Guide
16-3	03-11199	M3 x 10mm SBHCS
16-4	03-10177	M3 x 6mm SBHCS

Power Supply Assembly



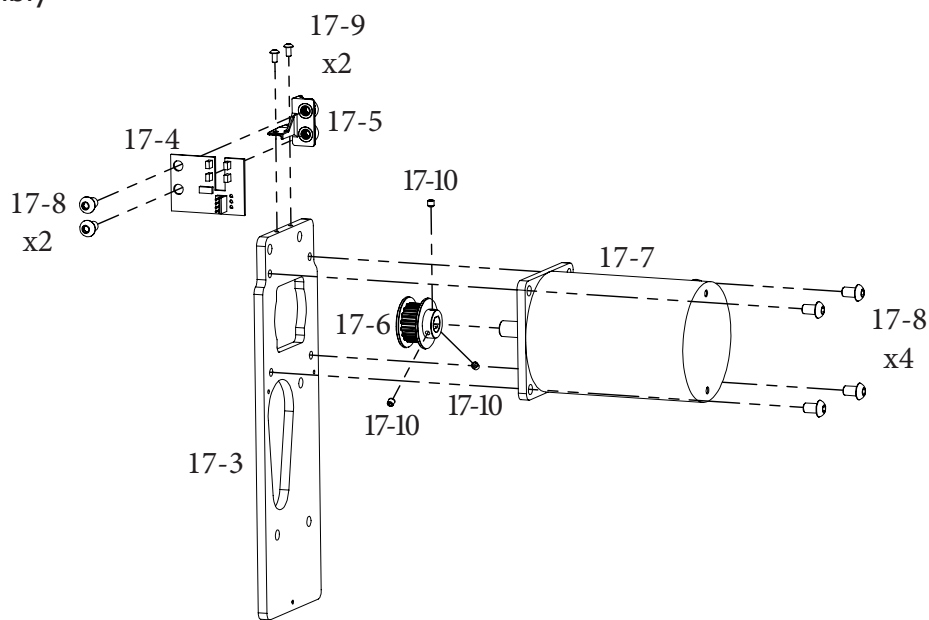
Ref No.	Part No.	Description
16-5	05-12112	Power Supply Mounting Board Back
16-6	01-10225	Power Supply Meanwell
16-7	02-12113	Motor Driver 24v Power Cable
16-8	02-12114	Main Controller 24v Power Cable
16-9	02-11036	Ground Cable
16-10	05-12115	Power Supply Plastic Cover
16-11	03-11199	M3 x 10mm SBHCS
16-12	03-10062	M3 Hex Nut

Motor Plate Assembly Removal



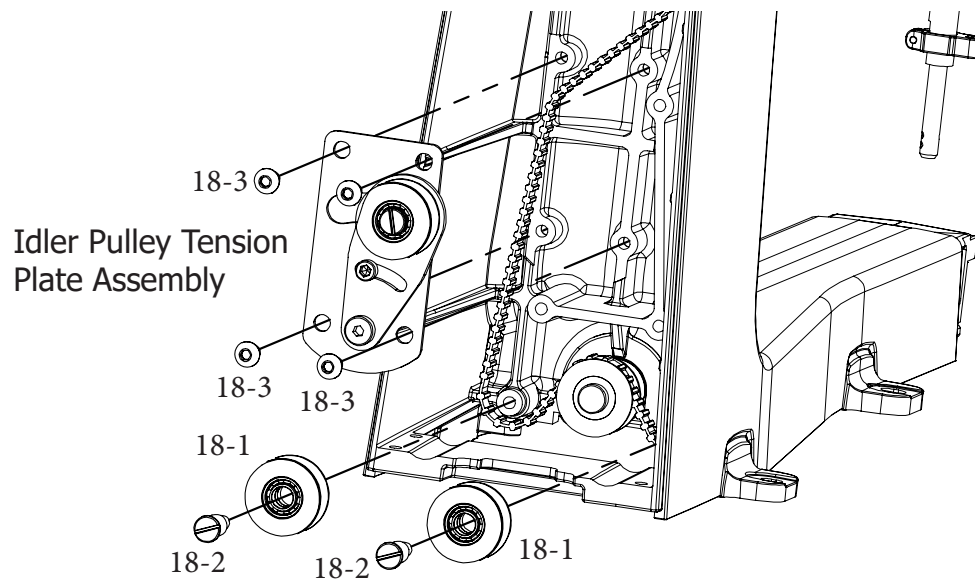
Ref No.	Part No.	Description
17-1	05-12116	Motor Mount Cable Guide
17-2	03-10124	M6 x 10mm SBHCS

Motor Plate Assembly



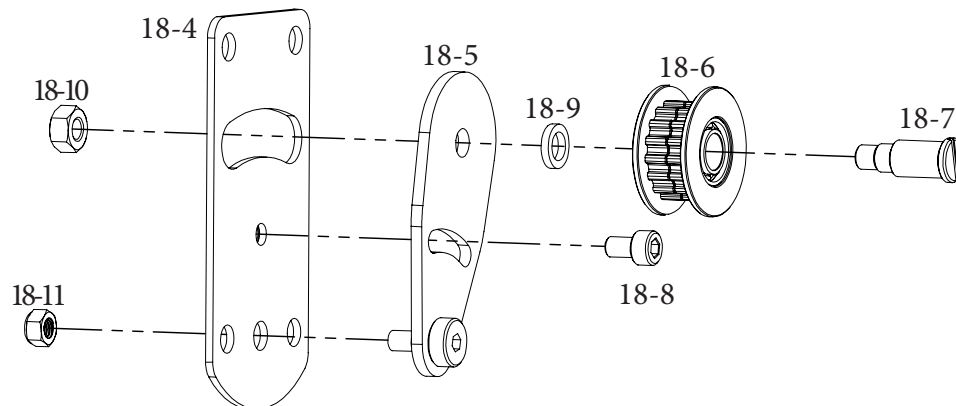
Ref No.	Part No.	Description
17-3	04-12117	Motor Plate
17-4	01-10229	Speed Sensor PCB Asm
17-5	05-12118	Encoding Board Mount Plate
17-6	05-10086	Motor Timing Belt Pulley
17-7	002-10219	DC Motor
17-8	03-10124	M6 x 10mm SBHCS
17-9	03-10177	M3 x 6mm SBHCS
17-10	03-10016	M4 x 4mm Set Screw

Idler Pulley Tension Plate Assembly Removal



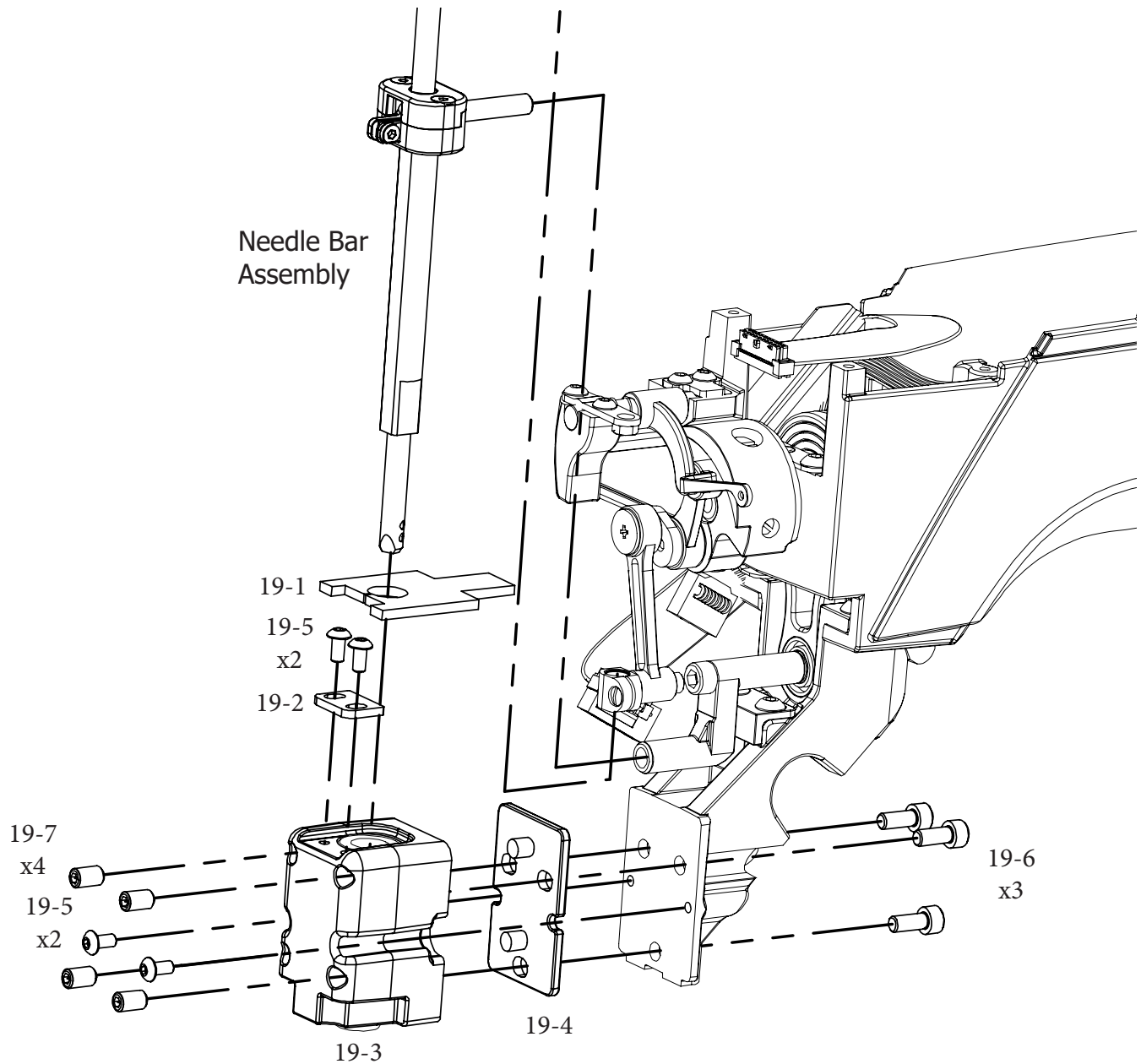
Ref No.	Part No.	Description
18-1	04-11302	Timing Belt Idler Pulley
18-2	03-10091	Idler Pulley Axel Shoulder M9 x 14mm, M7 x 10.5mm, M6 x 5mm
18-3	03-10124	M6 x 10mm SBHCS

Idler Pulley Tension Plate Assembly



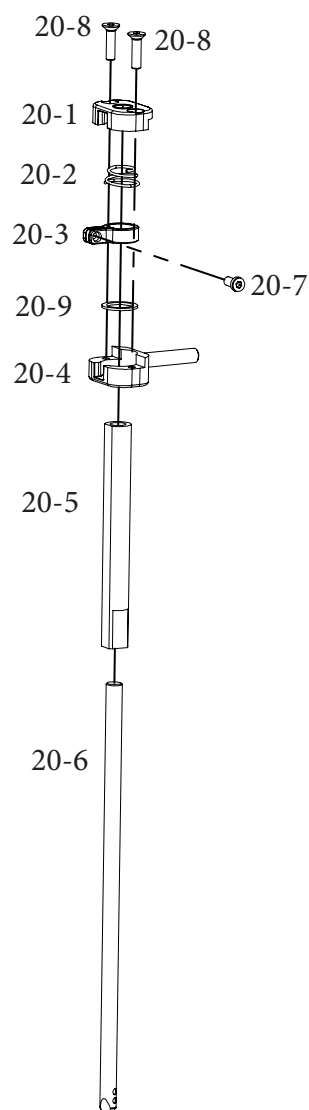
Ref No.	Part No.	Description
18-4	04-12119	Idler Pulley Tension Plate
18-5	04-12120	Tensioner Pulley Bracket
18-6	04-11302	Timing Belt Idler Pulley
18-7	03-10081	Tensioner Pulley Axel Shoulder
18-8	03-10084	M5 x 8mm SHCS
18-9	03-11299	Timing Belt Idler Pulley Spacer (Brass)
18-10	03-10085	M6 Nut
18-11	03-10729	M5 Nylock Nut

Bushing Block Removal



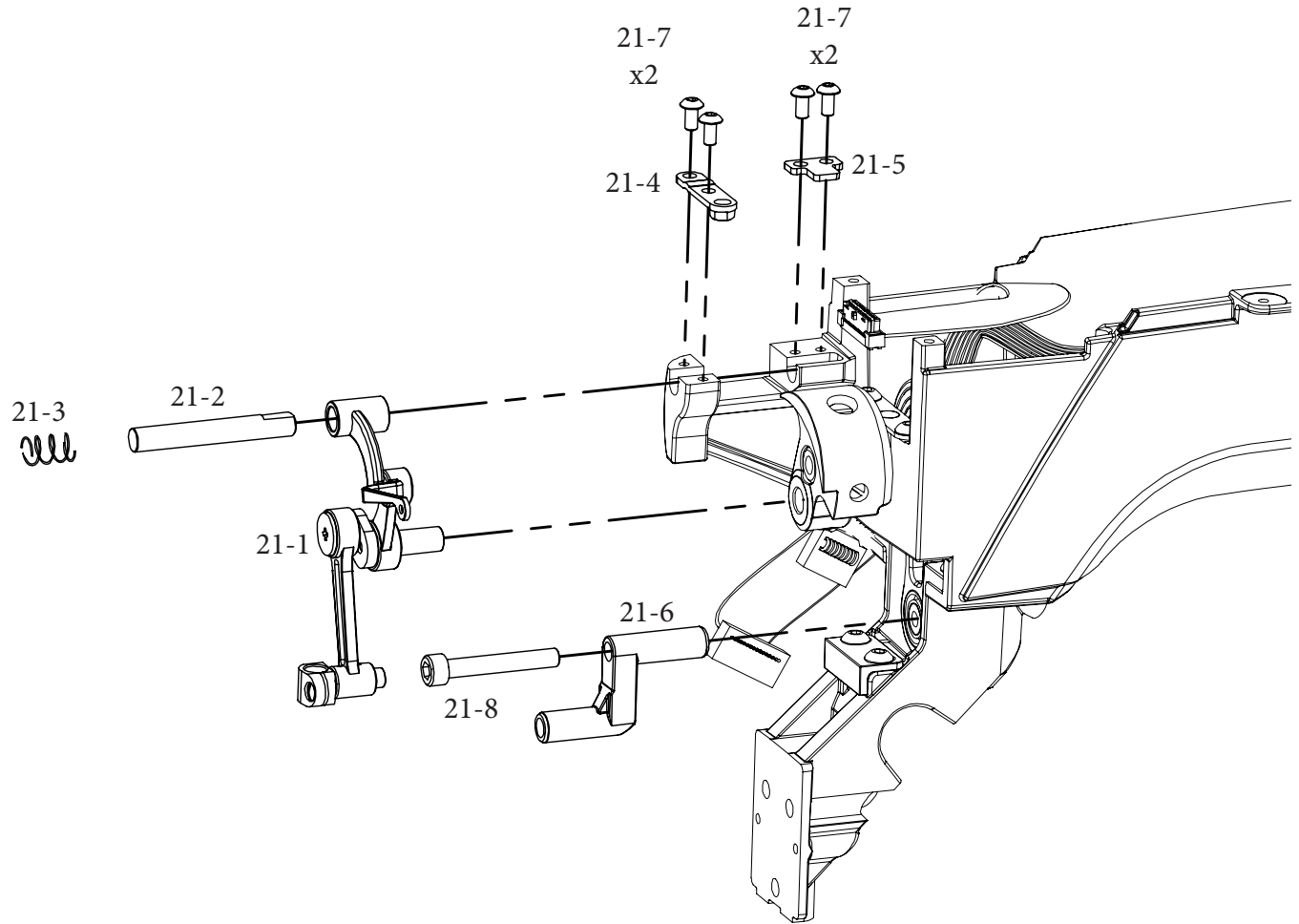
Ref No.	Part No.	Description
19-1	08-12009	Oil Wick Pad
19-2	04-12121	Press Bar Slide Plate 19in
19-3	04-12122	Aluminum Bushing Block
19-4	04-12123	Bushing Block Adjustment Plate
19-5	03-10175	M4 x 8mm SBHCS
19-6	03-12207	M5 x 16mm SHCS
19-7	03-10973	M6 x 10mm Set Screw

Needle Bar Assembly



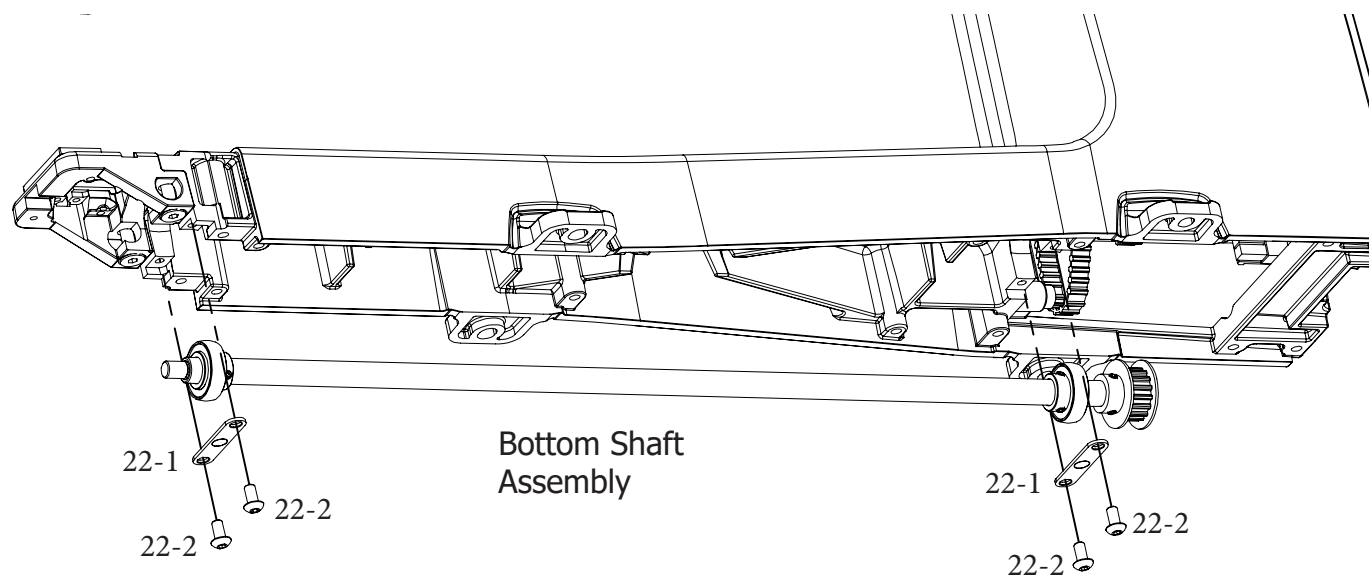
Ref No.	Part No.	Description
20-1	04-12129	Press Bar Spring Collar Top
20-2	03-12126	Press Bar Spring Rev 2
20-3	04-12127	Press Bar Top Collar
20-4	04-12128	Press Bar Spring Collar Bottom
20-5	04-12130	Press Bar
20-6	04-11711	Needle Bar
20-7	03-12208	M4 x 8mm SHCS
20-8	03-12124	M4 x 16mm FCHS
20-9	03-12125	Press Bar Damping Washer

Thread Take Up Crank Removal



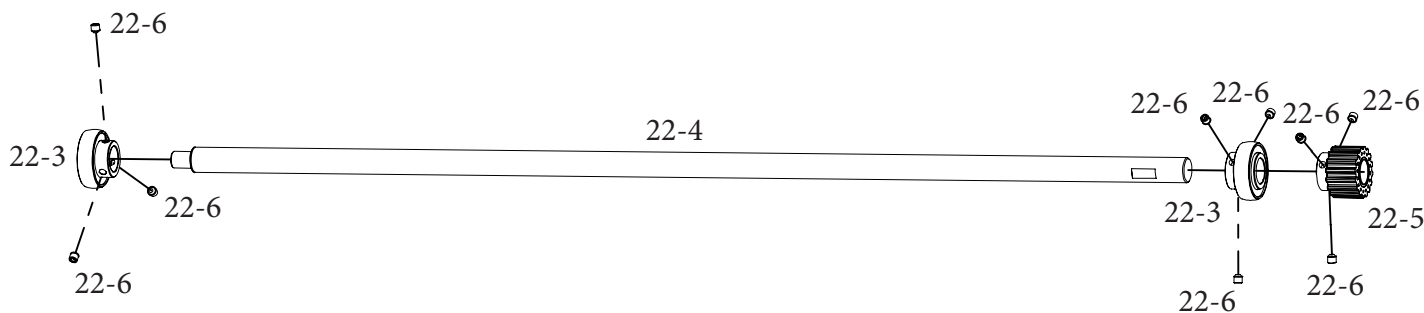
Ref No.	Part No.	Description
21-1	01-10044	Thread Take Up Crank Assembly
21-2	04-11523	Thread Take Up Crank Pin
21-3	03-11463	Thread Take Up Spring
21-4	04-12181	Display Connector Board Bracket
21-5	04-11713	Thread Take Up Lever Clamp Right
21-6	04-12132	Press Bar Slide Attachment 2
21-7	03-10175	M4 x 8mm SBHCS
21-8	03-12206	M6 x 40mm SHCS

Bottom Shaft Assembly Removal



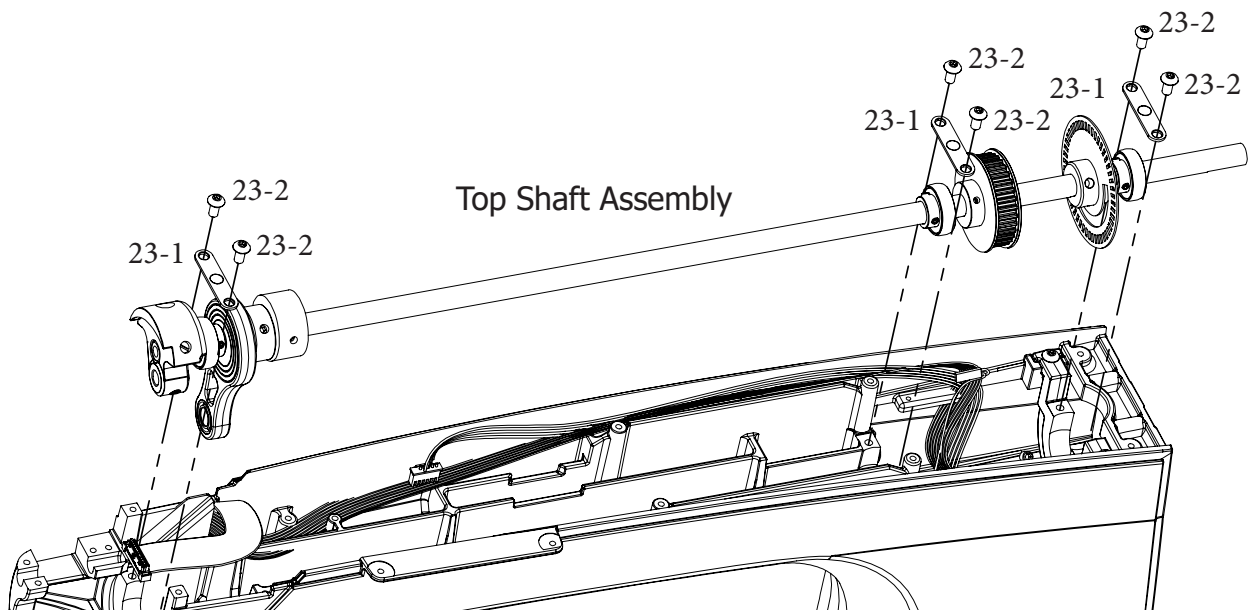
Ref No.	Part No.	Description
22-1	04-10067	Lower Shaft Bushing Clamp
22-2	03-10073	M5 x 10mm SBHCS

Bottom Shaft Assembly



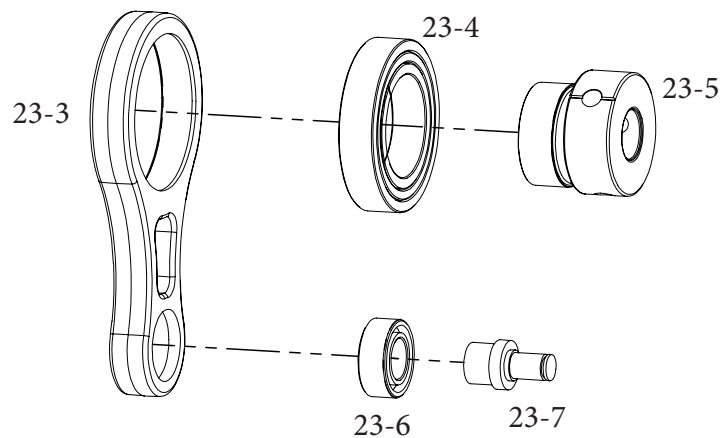
Ref No.	Part No.	Description
22-3	03-11467	Bearing 12mm Rounded with Collar
22-4	05-12134	Bottom Shaft
22-5	05-10075	Lower Shaft Pulley
22-6	03-10016	M4 x 4mm Set Screw

Top Shaft Assembly Removal



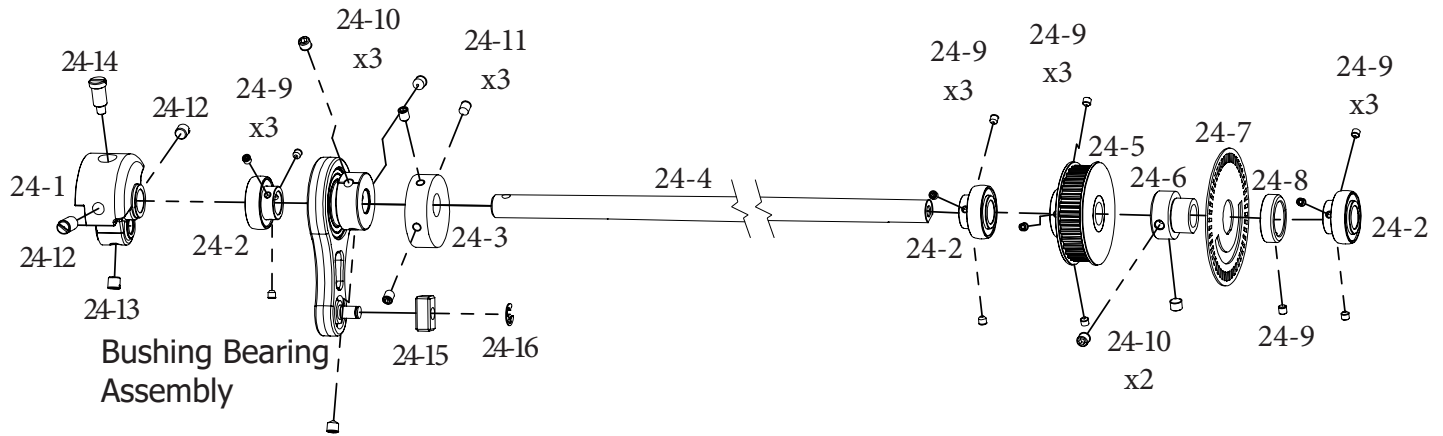
Ref No.	Part No.	Description
23-1	04-10067	Lower Shaft Bushing Clamp
23-2	03-10073	M5 x 10mm SBHCS

Bushing Bearing Assembly



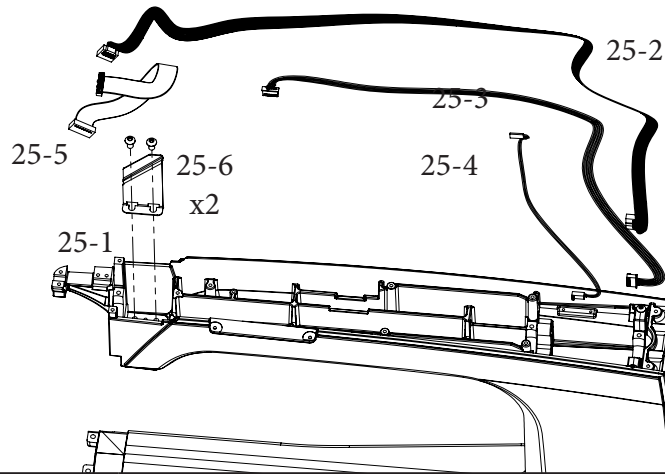
Ref No.	Part No.	Description
23-3	04-12135	Bushing Bearing 2
23-4	03-10046	Bearing 6905
23-5	04-12136	Eccentric Cam V2
23-6	04-12137	Bearing afbma20.1
23-7	04-12138	Slide Block Bushing

Top Shaft Assembly



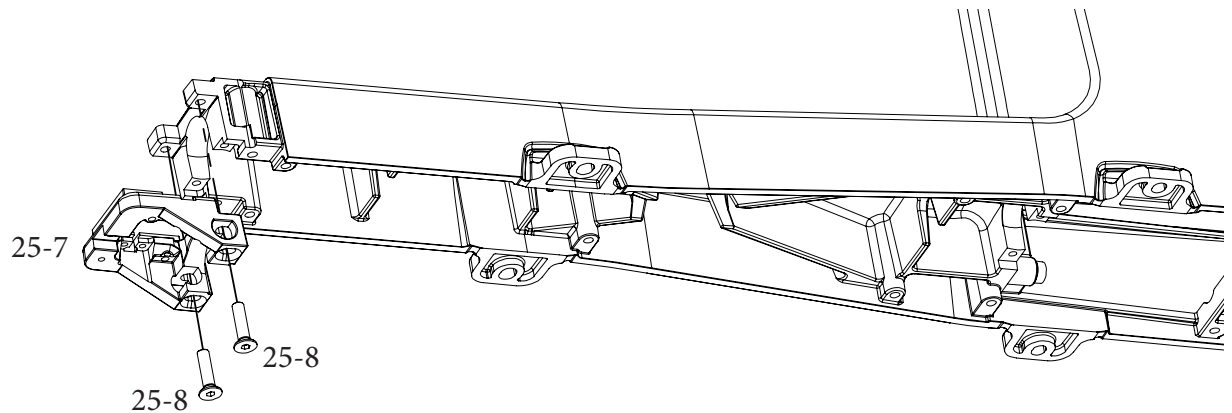
Ref No.	Part No.	Description
24-1	04-12139	Counter Weight
24-2	03-11467	Bearing 12mm Rounded with Collar
24-3	04-12140	Secondary Counterweight
24-4	04-12141	Main Shaft
24-5	04-12142	Top Shaft Pulley
24-6	04-12143	Optical Encoding Bushing
24-7	05-10034	Optical Encoding Wheel
24-8	04-10036	Optical Encoding Collar
24-9	03-10016	M4 x 4mm Set Screw
24-10	03-10037	M6 x 6mm Set Screw
24-11	03-10014	M5 x 8mm Set Screw
24-12	03-10025	6.35 x 6mm Flat Set Screw
24-13	03-10024	Crank Screw (securing)
24-14	03-10023	Crank Screw (orientation)
24-15	04-11514	Slide Block
24-16	03-11729	E-ring

Cable Removal



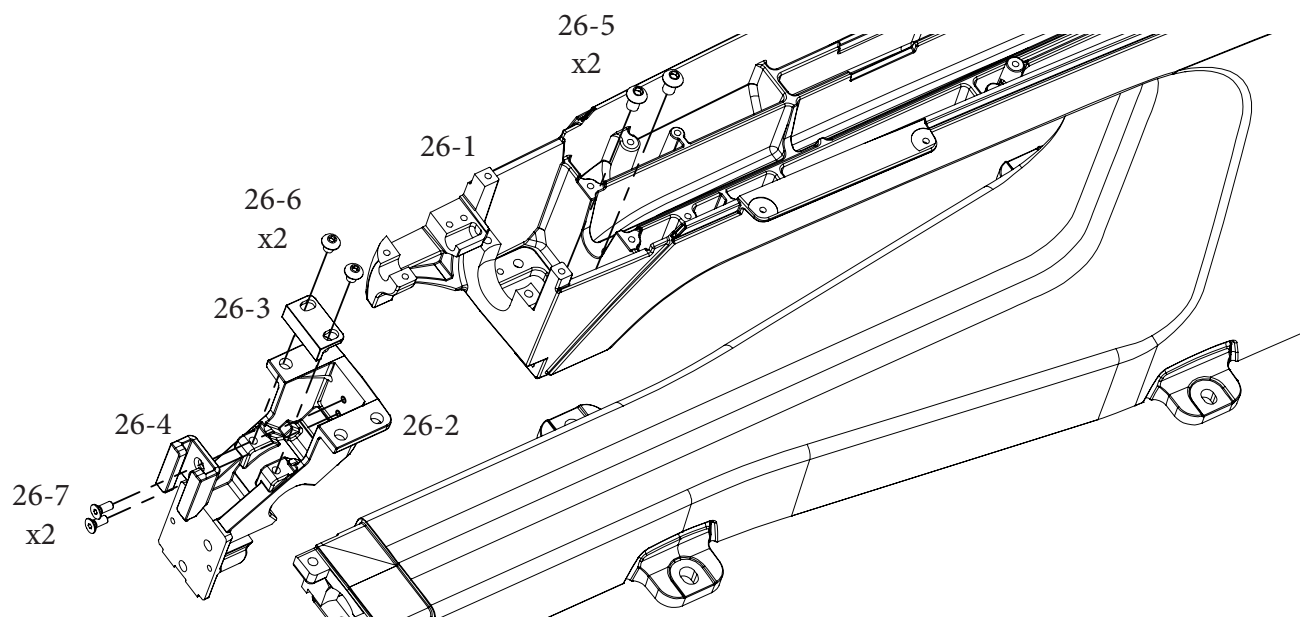
Ref No.	Part No.	Description
25-1	04-12144	Cable Bracket
25-2	02-12145	Motor Driver 24v Power Cable
25-3	02-12146	Front Controller Cable 19in
25-4	02-12147	Motor Driver Signal Cable
25-5	02-12148	16 POS 2mm Display Interface Cable
25-6	03-10124	M6 x 10mm SBHCS

Hook Assembly Bracket Mount Removal



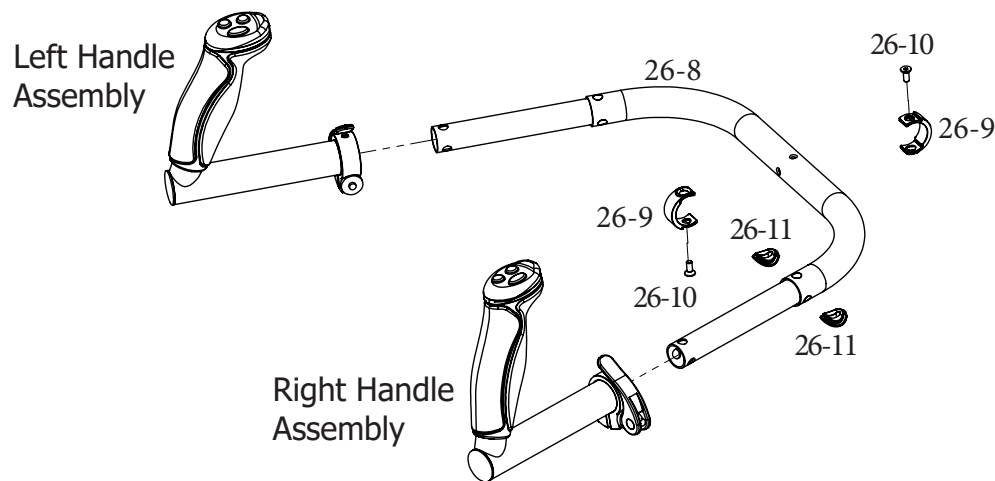
Ref No.	Part No.	Description
25-7	04-12149	Hook Assembly Bracket Mount
25-8	03-12150	M6 x 25mm FCHS

Head Bracket Removal



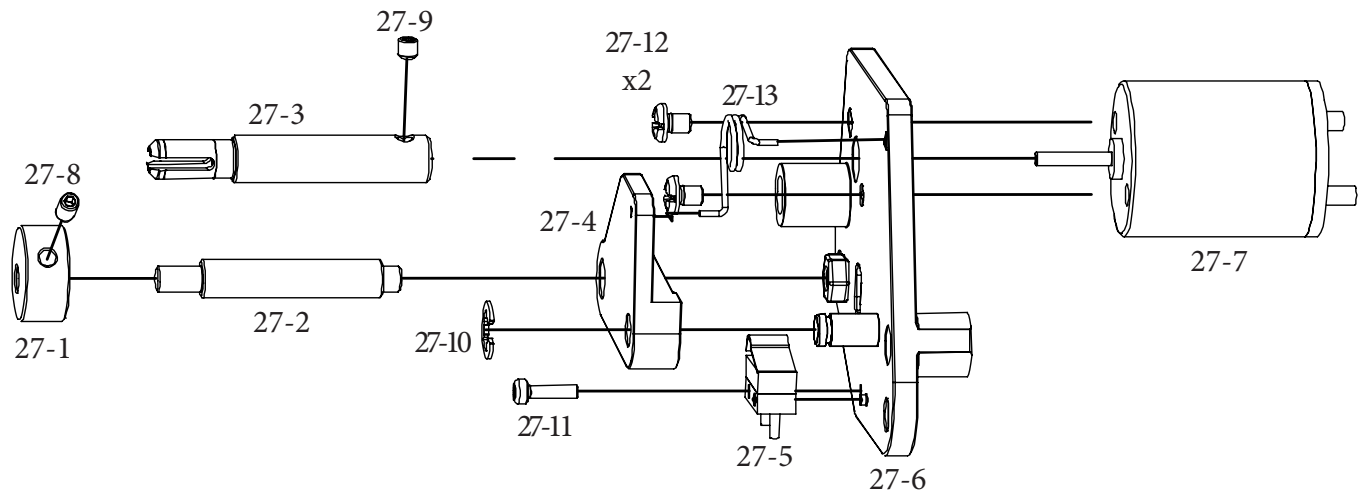
Ref No.	Part No.	Description
26-1	04-12151	Sewing Machine Body 19in
26-2	04-12152	Head Bracket
26-3	04-12153	Press Bar Attachment Slide Plate
26-4	04-12154	Slide Plate
26-5	03-10124	M6 x 10mm SBHCS
26-6	03-10184	M5 x 6mm SBHCS
26-7	03-12155	M4 x 10mm FCHS

Handle Bar Assembly



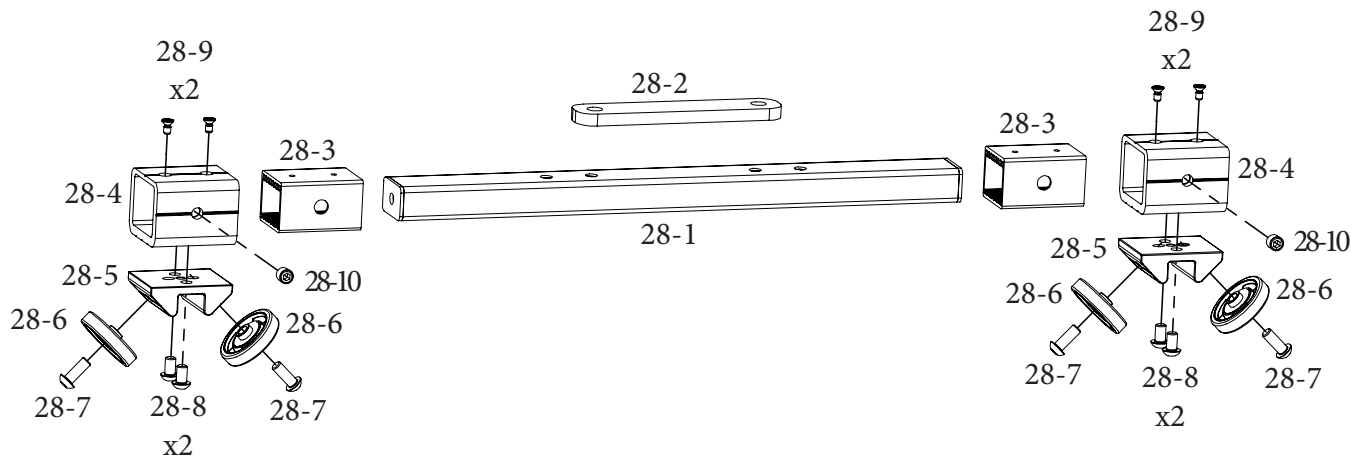
Ref No.	Part No.	Description
26-8	04-11517	Handle Bar Set
26-9	05-11721	Plastic Bolt On Collar
26-10	03-12155	M4 x 10mm FCHS
26-11	05-11725	Rubber Grommet

Bobbin Winder Assembly



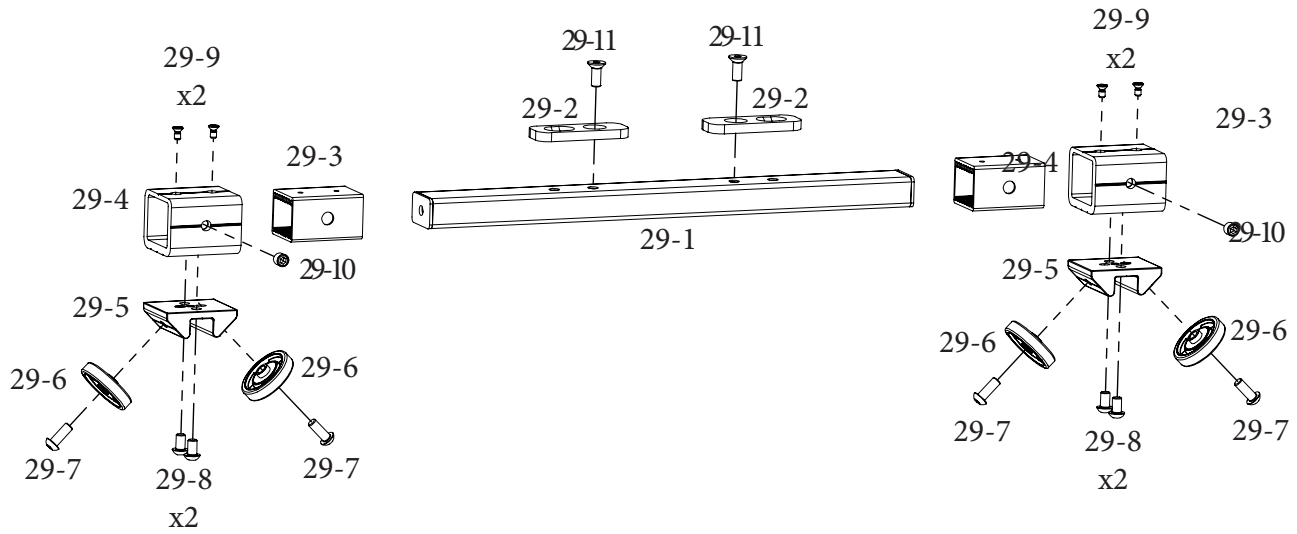
Ref No.	Part No.	Description
27-1	05-10102	Bobbin Winder Eccentric Cam
27-2	04-10100	Bobbin Winder Baffle Shaft
27-3	04-12156	Bobbin Winder Shaft
27-4	04-12157	Bobbin Winder Baffle
27-5	02-10104	Winder Switch
27-6	04-12158	Bobbin Winder Base
27-7	02-10095	Bobbin Winder Motor
27-8	03-10103	M3 x 7mm Set Screw
27-9	03-10066	Bobbin Winder Shaft Screw
27-10	03-10112	Retaining Clip
27-11	03-10105	Winder Switch Screw
27-12	03-10096	Bobbin Winder Motor Screw
27-13	03-12159	Bobbin Winder Spring

Front Top Wheel Assembly



Ref No.	Part No.	Description
28-1	04-12160	19in Steel Tube Sewing Machine Support
28-2	03-12161	Top Plate Rubber Dampener 19in
28-3	04-11579	Inner Bushing Of Rectangular Tube
28-4	04-12162	Outer Sleeve
28-5	04-10131	Wheel Mount
28-6	04-11949	Bearing
28-7	03-10974	M6 x 16mm SBHCS
28-8	03-10124	M6 x 10mm SBHCS
28-9	03-11738	M4 x 8mm Flat Head Self Tapping Screw
28-10	03-11599	M8 x 8mm Set Screw

Rear Top Wheel Assembly



Ref No.	Part No.	Description
29-1	04-12160	19in Steel Tube Sewing Machine Support
29-2	04-10131	Top Plate Aluminum Spacer
29-3	04-11579	Inner Bushing Of Rectangular Tube
28-4	04-12161	Outer Sleeve
28-5	04-10131	Wheel Mount
28-6	04-11949	Bearing
28-7	03-10974	M6 x 16mm SBHCS
28-8	03-10124	M6 x 10mm SBHCS
28-9	03-11738	M4 x 8mm Flat Head Self Tapping Screw
28-10	03-11599	M8 x 8mm Set Screw
28-11	03-12163	M6 x 12mm FCHS

Included but not shown

Ref No.	Part No.	Description
29-12	04-12168	Bushing Pillow
29-13	08-12169	MDB Heat Sink Extrusion
29-14	03-11320	Timing Tool
29-15	05-10117	Spool Retainer
29-16	03-10170	Brush
29-17	05-12164	Back Left Wheel Base Cover
29-18	05-12165	Back Right Wheel Base Cover
29-19	05-12166	Front Left Wheel Base Cover
29-20	05-12167	Front Right Wheel Base Cover
29-21	03-10088	M6 x 20mm SBHCS
29-22	03-10974	M6 x 16mm SBHCS
29-23	03-10088	M6 Shoulder Bolt 8mm x 13mm, M6 x 10mm Thread
29-24	08-10070	Bobbin