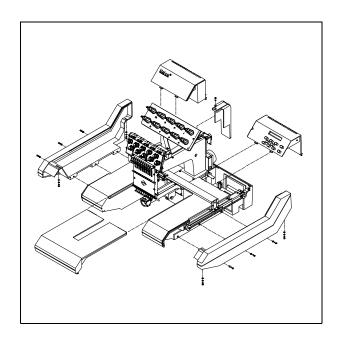
Illustrated Parts Manual for the EMC 10 embroidery peripheral



- A Complete Illustrated Parts Manual
- Advanced Trimmer System
- Under Thread Control



A Saurer Group Company

1575 West 124th Avenue Denver, Colorado 80234 United States of America

Internet Address: publications@melco.com

Copyright © Melco Embroidery Systems, 1994, 1995.

ALL RIGHTS RESERVED No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise) without prior written approval of Melco Embroidery Systems. Melco reserves the right to revise this publication and to make changes in it at any time without obligation of Melco to notify any person or organization of such revisions or changes.

All precautions have been taken to avoid errors or misrepresentations of facts, equipment, or products. However, Melco Embroidery Systems does not assume any liability to any party for loss or damage caused by errors or omissions.

Printed in the United States of America

Revision A November, 1995

Table of Contents

Description	Page Number
Machine Assemblies (Covers) (1 of 2)	1-1
Machine Assemblies (Covers) (2 of 2)	2-1
Keyboard Cover Assembly	3-1
Machine Assemblies (General)	4-1
Sewing Head Assemblies	5-1
Color Change Assembly	6-1
Thread Tree Assembly	7-1
Needle Case Assembly (1 of 2)	8-1
Needle Case Assembly (2 of 2)	9-1
Thread Tensioner Assembly	10-1
Sewing Head Components (1 of 3)	11-1
Sewing Head Components (2 of 3)	12-1
Sewing Head Components (3 of 3)	13-1
Bobbin Idler Assembly	14-1
Take-Up Drive Lever Assembly	15-1
Trimmers, Head Level Parts (1 of 2)	16-1
Trimmers, Head Level Parts (2 of 2)	17-1
Trimmer Drive Assembly	18-1
Y-Drive Motor Assembly	19-1
Electronics	20-1
X-Drive System (1 of 5)	21-1
X-Drive System (2 of 5)	22-1
X-Drive System (3 of 5)	23-1
X-Drive System (4 of 5)	24-1
X-Drive System (5 of 5)	25-1
Z-Drive/Encoder Assembly	26-1

Description	Page Number
Y-Drive Assembly	27-1
Left Y-Carriage Assembly	28-1
Right Y-Carriage Assembly	29-1
Cap Frame Mount Assembly	30-1
Cap Frame Drive Assembly	31-1
Melco Cap Frame Assembly	32-1
Harness Assembly (1 of 3)	33-1
Harness Assembly (2 of 3)	34-1
Harness Assembly (3 of 3)	35-1
Disk Drive Option Assembly	36-1

INTRODUCTION

Model and Serial Numbers

The contents of this manual must be understood by the user to ensure that the correct part for the correct machine model is selected.

Some equipment built by Melco containing the same "common" name may be identified by more than one model part number. In some cases, a different serial number sequence is also prevalent between two models of the same machine.

There are two models of the Melco EMC 10 Sewing Peripherals. This manual represents both models of the product. The EMC 10 is identified as model part number 006833-01. The EMC 10T is identified as model part number 006334-01.

Determine the model number of your machine before you use this manual to order parts. The machine MODEL number is located on the label that is placed on the rear of the chassis, next to the power supply.

Remember, although many parts are identical between the various embroidery peripheral models, this manual should only be used for identifying and ordering parts for the machines described above.

How To Use This Manual

The manual is divided into several sections, each containing a set of parts most common to each other, or to a function of the machine.

FIGURES

Accompanying each section is a figure showing the general area of the machine that is represented in that section. Parts are identified with letters and numbers in these figures. Letters contained in circles generally are used to refer the user to a different figure or section of the manual that identifies the assembly with more detail. Part numbers and part identifications of the numbers inside circles are found on the pages adjacent to the figure.

ITEM NUMBERS

All the numbers in circles on a diagram are listed in the first column of the parts listing accompanying that figure. Each item number in each figure is identified independently in hopes to help prevent any confusion that may occur by trying to "cross-reference" part numbers.

PART NUMBERS

The Melco part number is found in the second column of the parts list, directly in line with each item number from the first column.

PART DESCRIPTIONS

Each part listed has a descriptive name in the third column of the parts listing. Hardware (such as screws, washers, etc.) are described by size in order to help the user to identify common hardware items that can be obtained by local sources if desired.

CAUTION: When purchasing hardware from a source other than Melco, it is the user's responsibility to ensure that such hardware is of sufficient quality and grade to meet or exceed Melco's original equipment hardware. Melco assumes no liability for the use of inadequate hardware that was purchased by and/or installed by other than an authorized Melco factory representative.

Special Parts Handling

If care is not taken in handling certain parts of the sewing head, there is a good probability the sewing head will not function properly or the parts will fail prematurely.

These parts are to have special handling considerations from the vendor, through quality control inspection, into spare parts inventories, then on to packaging for shipping, and finally to installation.

Handling of these parts (and for that matter all parts), is not limited to the considerations below. Please use common sense, good judgment, and accepted handling practices in handling all parts. If you have any questions or concerns, please call your area service department.

General Considerations

- * Painted and coated surfaces need to be protected from dirt, other foreign matter, nicks, and scratches.
- * Non-painted and coated surfaces must not be touched by the human hand, to prevent corrosive body oils, dirt, and other foreign matter from contaminating the surfaces.
- * Protect all bearings, bushings, cams, rails, gears, rollers, needle bars, pins, studs, connecting rods, guide shafts, and other surface finishes from dirt, other foreign matter, marring, scratches, and nicks, etc.
- * Bearing surfaces and shaft bore surfaces need to be thoroughly cleaned and mating parts oiled before assembly.

Special Packaging

Several parts are packaged in specially sealed packages. These packages keep lubricant on the parts and protect them from contamination during shipment. To install these parts, clean your hands and place a small amount of sewing machine oil on your fingers to kept the integrity of the part intact.

Machine Assemblies (Covers) (1 of 2)

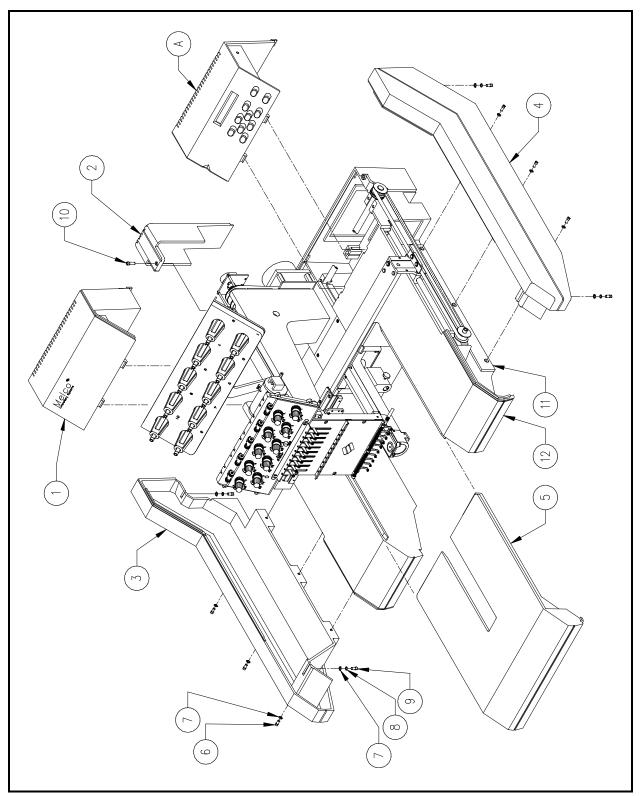


Figure 1

Machine Assemblies (Covers) (1 of 2)

Reference Figure 1

Item No.	Part Number	Item Description	Comments
А		Keyboard Cover Assembly	See Page 3-1
1	004748-21	Cover, Electronics, Sub-assembly	3
2	003618-21	Cover, Z-Drive	
3	004520-21	Cap, End, Left	
4	004520-22	Cap, End, Right	
5	004521-21	Insert, Table Top	
6	670038-08	Screw, Socket Head Cap, 10-32 x 1/2"	
7	690034-03	Washer, Flat, #10	
8	690033-03	Washer, Lock, #10	
9	670038-12	Screw, Socket Head Cap, 10-32 x 3/4"	
10	672018-14	Screw, Socket Head Cap, M4 x 0.7 x 14 L	g
11	003821-01	Pan, Bottom	_
12	003825-21	Chassis	

Machine Assemblies (Covers) (2 of 2)

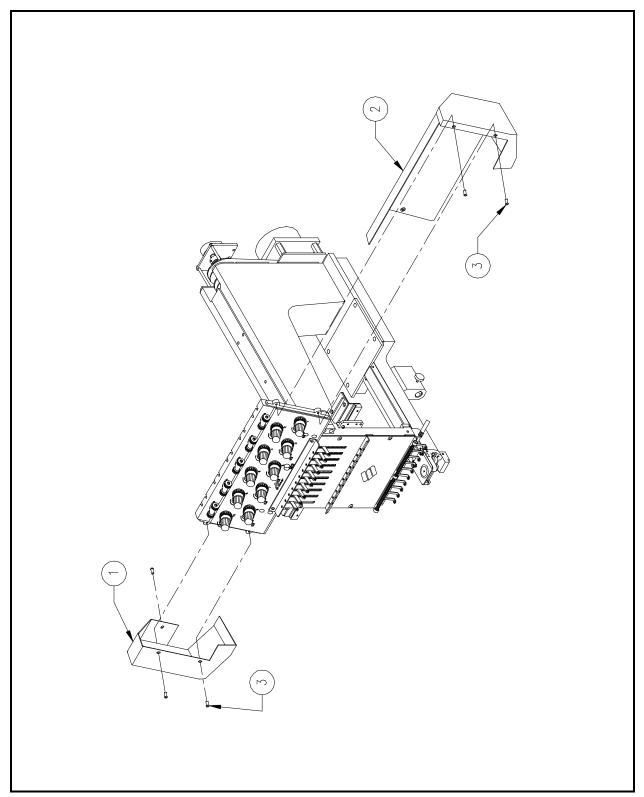


Figure 2

Machine Assemblies (Covers) (2 of 2)

Reference Figure 2

Item No.	Part Number	Item Description Comments
1	006565-01	Cover, Rear, Tensioner, Bracket, Left
2	006564-01	Cover, Rear, Tensioner, Bracket, Right
3	003509-06	Screw, Button Head Socket, M4 x 0.7 x 6 Lg

Keyboard Cover Assembly

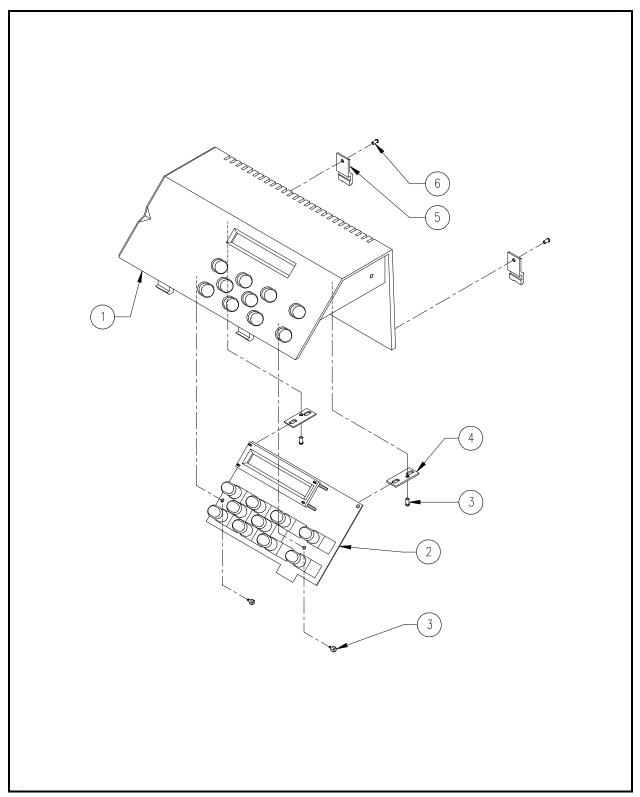


Figure 3

Keyboard Cover Assembly

Reference Figure 3

Item No.	Part Number	Item Description	Comments
1	004747-21	Cover, Keyboard, Sub-assembly	
2	384309-21	PCB, Keyboard	
3	674433-06	Screw, Thread Forming, #6 x 3/8"	
4	555325-01	Bracket, Retainer	
5	003846-21	Catch, Cover, Grey	
6	670406-04	Screw, Button Head Cap, 4-40 x 1/4"	

Machine Assemblies (General)

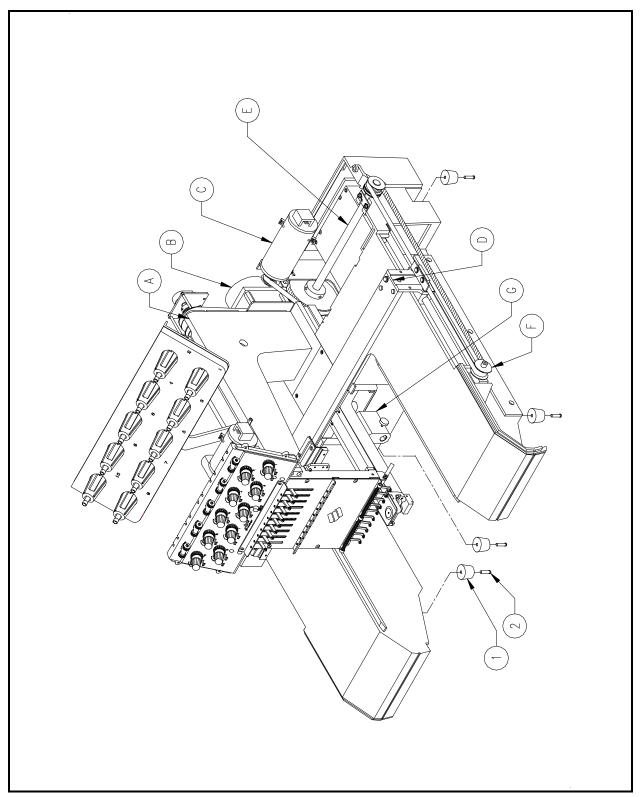


Figure 4

Machine Assemblies (General)

Reference Figure 4

Item	Part	Item	
No.	Number	Description	Comments
Α		Sewing Head Assemblies	See Page 5-1
В		Z-Drive/Encoder Assembly	See Page 26-1
C		Y-Drive Motor Assembly	See Page 19-1
D	006758-01	X-Drive Assemblies	See Pages 21-1 to 25-1
Е		Y-Drive Assembly	See Page 27-1
F		Y-Carriage Assemblies	See Pages 28-1 & 29-1
G		Cap Frame Mount Assembly	See Page 30-1
1	341643-01	Foot, Rubber	
2	670149-12	Screw, Socket Head Cap, 8-32 x 3/4"	

Sewing Head Assemblies

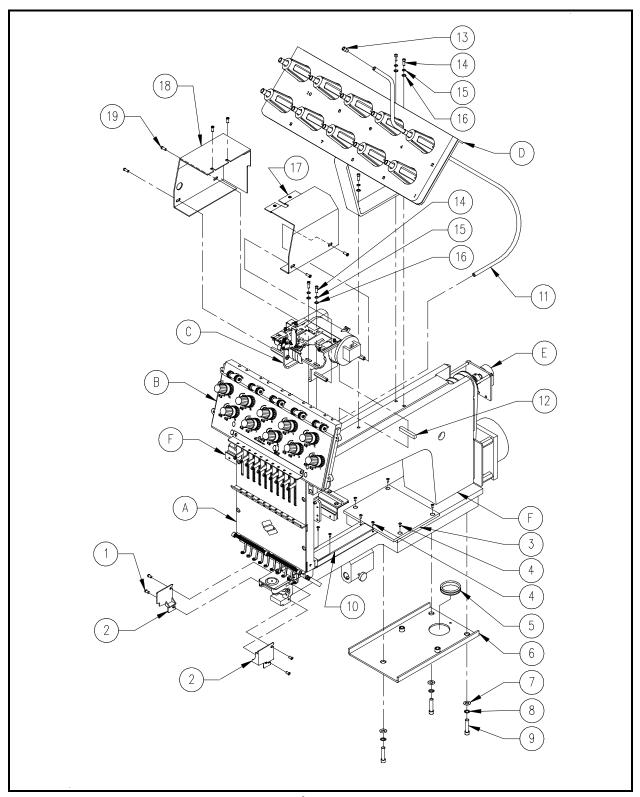


Figure 5

Sewing Head Assemblies

Reference Figure 5

Item No.	Part Number	Item Description	Comments
А		Needle Case Assemblies	See Pages 8-1 & 9-1
В		Thread Tensioner Assembly	See Page 10-1
C		Color Change Assembly	See Page 6-1
D		Thread Tree Assembly	See Page 7-1
Ε		Z-Drive/Encoder Assembly	See Page 26-1
F		Sewing Head Components	See Pages 11-1 to 13-1
1	003136-06	Screw, Button Head Socket, M3 x 0.5 x 6	5 Lg
2	006529-01	Set, Cover, Rotary Hook	
3	006034-21	Cover, Bed, Rear	
4	003509-08	Screw, Button Head Socket, M4 x 0.7 x 8	B Lg
5	342375-01	Grommet, Round, 1-1/8" ID	
6	006528-01	Plate, Base, Sewing Head	
7	690034-05	Washer, Flat, 5/16"	
8	690033-05	Washer, Lock, Split, 5/16"	
9	671687-30	Screw, Socket Head Cap, M8 x 1.25 x 30) Lg
10	007526-01	Cover, Bed, Front	
11	005704-01	Tubing, .125" ID x .187" OD	
12	004779-01	Key, Color Change Mount	
13	005702-01	Guide, Thread, Thread Tree	
14	672018-12	Screw, Socket Head Cap, M4 x 0.7 x 12 l	Lg
15	690427-04	Washer, Lock, Split, M4	
16	690439-04	Washer, Flat, M4	
17	006686-01	Cover, Drive, Color Change, Right	
18	006740-01	Cover, Drive, Color Change, Left	
19	004262-06	Screw, Pan Head, Phillips, M4 x 0.7 x 6 Le	g

Color Change Assembly

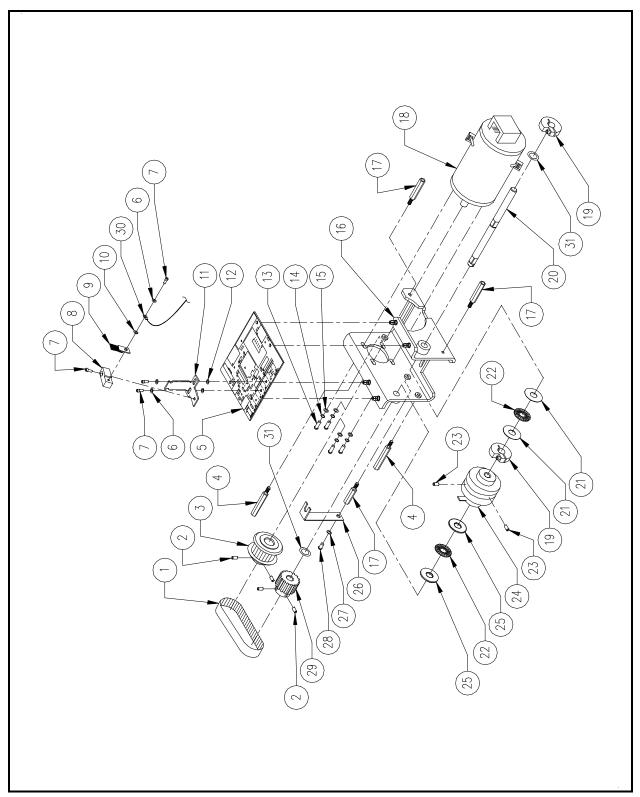


Figure 6

Color Change Assembly

Reference Figure 6

Item No.	Part Number	Item Description	Comments
1	003504-01	Belt, Timing, 39T, 1/5P	
2	001960-04	Screw, Set, Flat Point, M4 x 0.7 x 4 Lg	
3	006855-01	Pulley, Timing, 1/5P, 12 Groove	
4	008129-35	Standoff, Hex, M-F, M4 x 0.7 x 35 Lg	
5	006514-01	PCB, Color Change, Assembly	
6	690439-03	Washer, Flat, M3	
7	001922-08	Screw, Socket Head Cap, M3 x 0.5 x 8 Lg	9
8	008068-01	Bracket, Detect, Thread Break	
9	008069-01	Brush, Contact, Thread Break	
10	690811-34	Washer, Internal Star, #4	
11	007565-01	Bracket, Mounting, Sensor, Thread Break	
12	007561-01	Washer, Flat, Nylon	
13	670174-08	Screw, Pan Head Phillips, 6-32 x 1/2"	
14	690033-36	Washer, Lock, Split, #6	
15	690034-36	Washer, Flat, #6	
16	006340-01	Housing, Drive, Color Change	
17	008129-22	Standoff, Hex, M-F, M4 x 0.7 x 22 Lg	
18	006570-01	Motor, Color Change	
19	008062-01	Clamp, Split-Hub, 8mm ID	
20	006485-01	Shaft, Cam, Color Change	
21	007574-01	Washer, Thrust, 1.00mm Thick	
22	008061-01	Bearing, Thrust, 8mm	
23	001927-06	Screw, Set, Socket, M5 x 0.8 x 6 Lg	
24	008056-01	Cam, Color Change	
25	007573-01	Washer, Thrust, 2.75mm Thick	
26	006782-01	Bracket, Wire Guard	
27	690439-04	Washer, Flat, M4	
28	004262-06	Screw, Pan Head Phillips, M4 x 0.7 x 6 Lg	
29	008060-01	Pulley, Timing, 5.08mmP, 16 Groove	
30	006582-01	Harness, Thread Break	
31	003235-08	Spacer, Shaft, .375" ID x .562" OD x .01	6" Thick

Thread Tree Assembly

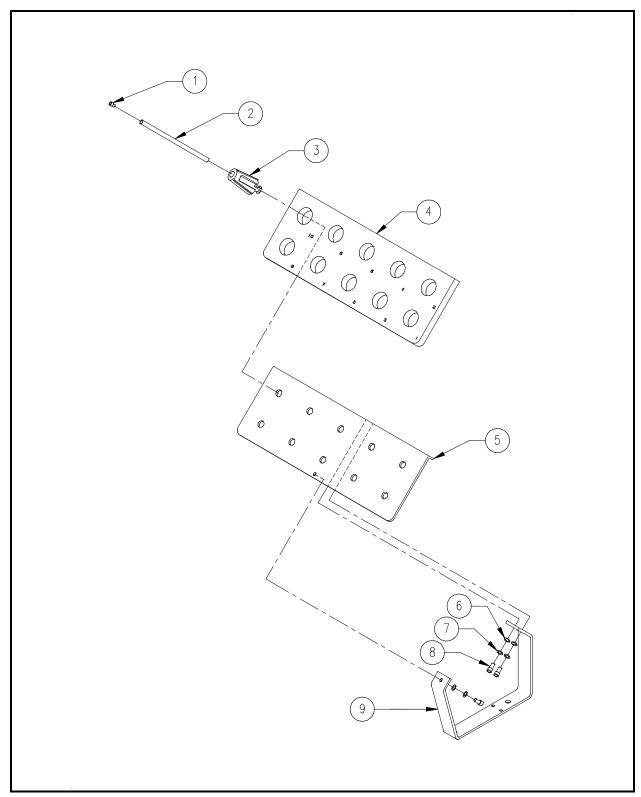


Figure 7

Thread Tree Assembly

Reference Figure 7

Item No.	Part Number	Item Description Comments
1	005702-01	Guide, Thread, Thread Tree
2	005703-01	Tube, Guide, Thread, Thread Tree
3	005701-01	Seat, Cone, Thread, Thread Tree
4	006482-01	Pad, Thread Tree
5	006481-01	Plate, Thread Tree
6	690439-05	Washer, Flat, M5
7	690427-05	Washer, Lock, Split, M5
8	671852-12	Screw, Socket Head Cap, M5 x 0.8 x 12 Lg
9	006775-01	Bracket, Support, Thread Tree

Needle Case Assembly (1 of 2)

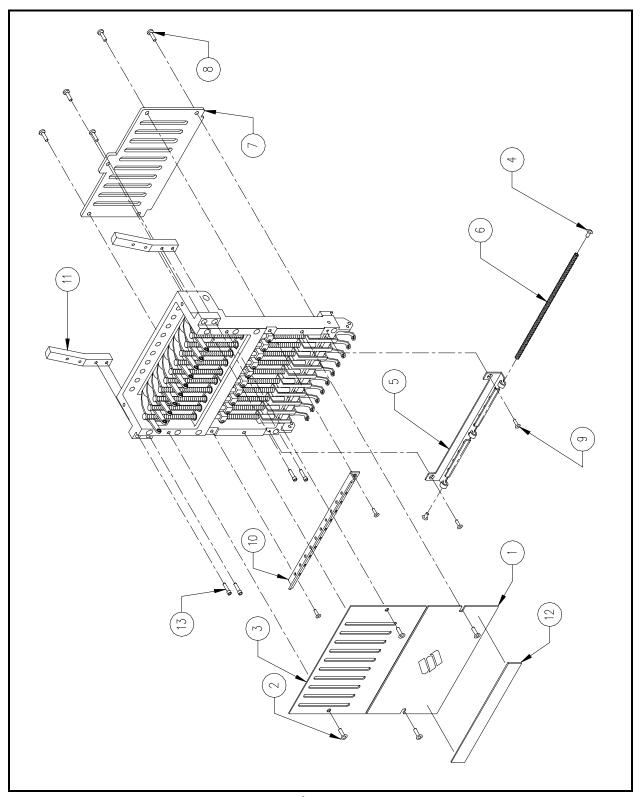


Figure 8

Needle Case Assembly (1 of 2)

Reference Figure 8

Item No.	Part Number	Item Description Comments
1	007511-01	Cover, Needle Case, Lower
2	003509-06	Screw, Button Head Cap, M4 x 0.7 x 6 Lg
3	007510-01	Cover, Needle Case, Upper
4	003509-10	Screw, Button Head Cap, M4 x 0.7 x 10 Lg
5	007509-01	Guide, Thread, Lower
6	007519-01	Spring, Lower Thread Guide
7	007503-01	Plate, Guide, Needle Bar
8	001924-06	Screw, Cheese Head, Slotted, M4 x 0.7 x 6 Lg
9	001935-06	Screw, Flat Head Phillips, M3 x 0.5 x 6 Lg
10	007508-01	Guide, Thread, Middle
11	007528-01	Support, Tensioner Bracket
12	007527-01	Magnet, Thread Retaining
13	672018-16	Screw, Socket Head Cap, M4 x 0.7 x 16 Lg
14	006347-01	Blade, Sensor, Interruptor
15	690439-04	Washer, Flat, M4
16	672018-06	Screw, Socket Head Cap, M4 x 0.7 x 6 Lg

Needle Case Assembly (2 of 2)

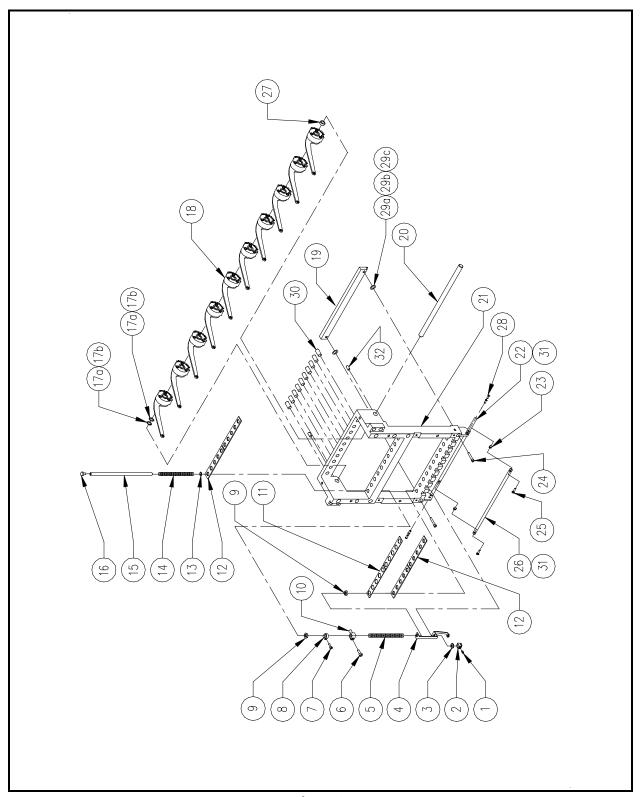


Figure 9

Needle Case Assembly (2 of 2)

Reference Figure 9

Item No.	Part Number	Item Description Comments
1	001828-01	Screw, Set, Needle Clamp
2	001528-01	Clamp, Needle
3	007591-01	Damper, Needle Clamp
4	007924-01	Foot, Presser, Assembly
5	001535-01	Spring, Presser Foot
6	001922-08	Screw, Socket Head Cap, M3 x 0.5 x 8 Lg
7	001922-10	Screw, Socket Head Cap, M3 x 0.5 x 10 Lg
8	001840-01	Clamp, Stop, Needle Bar
9	005577-01	Damper, Needle Case
10	007408-01	Stud, Connecting, Needle Bar
11	007505-01	Shim, Needle Case
12	007506-01	Felt, Needle Case
13	005009-01	Washer, Flat, .260" ID x .420" OD x .03" Thick
14	001537-01	Spring, Holding, Needle Bar
15	001532-01	Bar, Needle
16	002637-08	Screw, Socket Head Cap, Low Head, M5 x 0.8 x 8 Lg
17a	702876-05	Spacer, Precision, .313" ID x .010" Thick (Use as Required)
17b	702876-08	Spacer, Precision, .313" ID x .016" Thick (Use as Required)
18	001868-01	Lever, Take-Up, Assembly
19	007502-01	Rail, Guide, Lower
20	007504-01	Shaft, Take-Up Lever
21	007501-01	Case, 10 Needle
22*	007512-01	Bracket, Grabber
23	002884-01	Spacer, Support, Velcro
24	672018-20	Screw, Socket Head Cap, M4 x 0.7 x 20 Lg
25 26*	671855-08	Screw, Pan Head Slotted, M3 x 0.5 x 8 Lg
26* 27	007513-01 007518-01	Bar, Grabber
28	671855-06	Spacer, Shaft, Take-Up Lever Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg
20 29a	700837-01	
29a 29b	700837-01	Spacer, Shaft, 1/4" ID x .002" Thick (Use as Required) Spacer, Shaft, 1/4" ID x .004" Thick (Use as Required)
29c	700837-02	Spacer, Shaft, 1/4" ID x .004" Thick (Use as Required)
30	662744-08	Pin, Dowel, .25" OD x .50" Lg
31*	002744-08	Velcro, Wiper, Pile
32	007343-01	Screw, Set, Flat Point, M4 x 0.7 x 6 Lg
52	301300 00	Scient, See, Flact Offic, MT A S. A & Lg

*NOTE: Items 26 and 31 should be replaced as a factory built assembly:

008070-01 Grabber Bar Assembly

Items 22 and 31 should be replaced as a factory built assembly:

008071-01 Grabber Bracket Assembly

Thread Tensioner Assembly

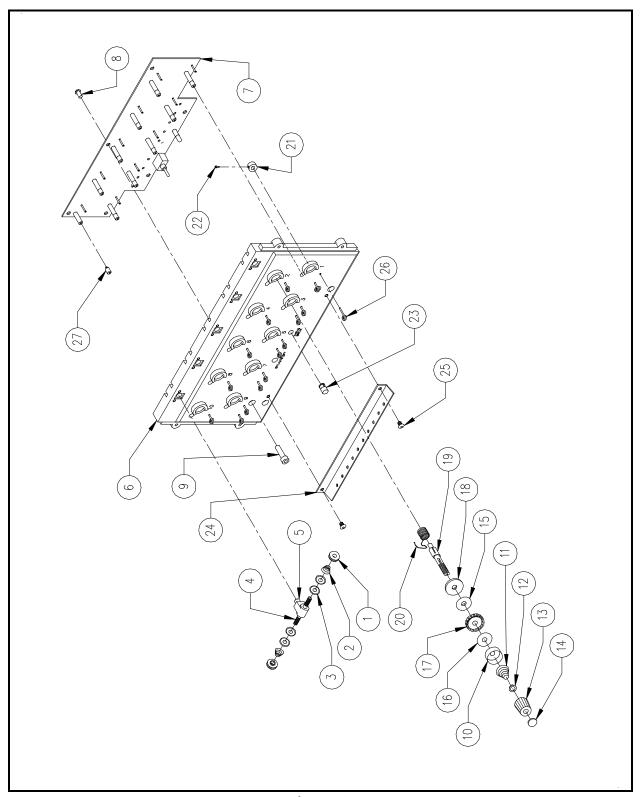


Figure 10

Thread Tensioner Assembly

Reference Figure 10

Item No.	Part Number	Item Description Comments
		•
1*	007080-01	Knob, Adjust, Pretensioner, Plastic
2*	003654-01	Spring, Pretensioner
3*	005137-01	Disk, Pretensioner
4 *	007531-01	Post, Pretensioner
5	007524-01	Bracket, Pretensioner
6	007523-01	Bracket, Tensioner
7	005531-01	PCB, Thread Break, Assembly
8	001924-06	Screw, Cheese Head, Slotted, M4 x 0.7 x 6 Lg
9	672018-16	Screw, Socket Head Cap, M4 x 0.7 x 16 Lg
10*	005196-01	Base, Tensioner
11*	004854-01	Spring, Tensioner, Thread
12*	005422-01	Cap, Spring
13*	005197-01	Knob, Tensioner, Black, Assembly
14	003560-01	Tab, Tensioner
15*	005198-02	Pad, Felt, .095 Thick
16*	005198-01	Pad, Felt, .065" Thick
17*	006474-01	Disk, Tensioner, Thread, Assembly
18*	004908-01	Disk, Plastic
19*	004897-01	Post, Tensioner
20*	007559-01	Spring, Check, Tensioner, Thread
21	007529-01	Collar, Tensioner, Assembly
22	001922-10	Screw, Socket Head Cap, M3 x 0.5 x 10 Lg
23	007548-01	Cover, LED
24	007525-01	Guide, Thread, Upper
25	003509-06	Screw, Button Head Cap, M4 x 0.7 x 6 Lg
26	002897-01	Post, Guide
27	007659-02	Standoff, M-F, 3/16" Round

*NOTE: Items 10-13 and 15-20 should be replaced as a factory built assembly: 007547-01 Tensioner, Thread, Main, Black, Assembly

Items 1-4 should be replaced as a factory built assembly:

007530-01 Pretensioner, Assembly

Sewing Head Components (1 of 3)

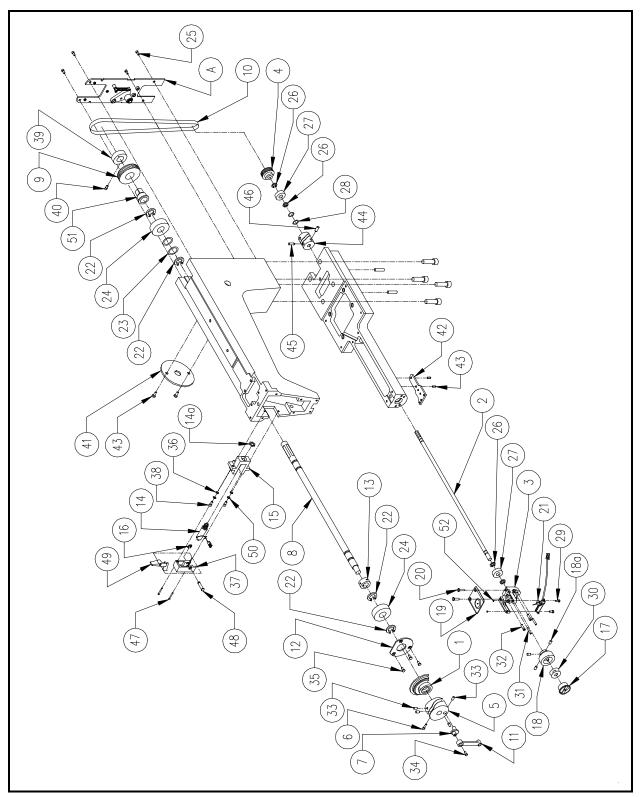


Figure 11

Sewing Head Components (1 of 3)

Reference Figure 11

Item	Part	Item	
No.	Number	Description	Comments
А	004504-015	Bobbin Idler Assembly	See Page 14-1
1	003539-01	Counterweight, Phase II	Jee ruge 14 1
2	003535-01	Shaft, Bobbin, Phase II	
2 3a	005601-01	Bracket, Needle Plate	(Trimmer Only)
3b	006576-01	Bracket, Needle Plate	(Non-Trimmer Only)
4	001522-01	Pulley, Drive, Bobbin, Bottom, 16T, 1/5P	(Non Timmer Omy)
5	003545-01	Cam, Drive, Take-Up Lever	
6	003546-01	Screw, Set, Cam	
7	002698-01	Rod, Crank, 90 Deg	
8	003532-01	Shaft, Arm	
9*	005332-01	Pulley, Adjustable, Top, 32T, 1/5P	
10	002809-01	Belt, Timing, 1/5P, 104 Groove, 3/8" Wid	e
11	001939-01	Rod, Connecting	
12	003531-01	Plate, Retainer, Bearing, Arm Shaft	
13	004261-01	Collar, Shaft, Headup	
14	001801-01	Solenoid, Jump Stitch	
14a		Nut, Panel	Included in Item #14
15	006561-01	Bracket, Jump Stitch Solenoid	meradea minemini
16*	001955-14	Ring, Retaining, External	
17	004267-01	Case, Bobbin	
18	009000-01	Hook, Rotary, Small Bobbin	
18a		Screw, Rotary Hook	Included in Item #18
19	006520-01	Plate, Needle	
20	004643-01	Screw, Needle Plate	
21	001916-01	Support, Rotary Hook	
22	003533-05	Ring, Retainer, External, Arm Shaft	
23	002697-09	Washer, Wave, 35mm OD	
24	002696-15	Bearing, Ball, Radial, 15mm ID	
25	001926-12	Screw, Flat Head Socket, M4 x 0.7 x 12 Lo	g
26	003534-10	Ring, Retaining, External, Bobbin Shaft	
27	002696-08	Bearing, Ball, Radial, 8mm ID	
28	002697-03	Washer, Wave, 22mm OD	
29	671855-06	Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg	
30	761002-11	Thread, Bobbin, White	
31	002610-14	Pin, Spring, 3mm OD x 14mm Lg	
32	672018-16	Screw, Socket Head Cap, M4 x 0.7 x 12 L	.g
33	001971-06	Screw, Set, Flat Point, M6 UNF x 6 Lg	
34	002637-10	Screw, Socket Head Cap, Low Head, M5	x 0.8 x 10 Lg
35	001926-12	Screw, Flat Socket, M4 x 0.7 x 12 Lg	
36	702946-30	Spacer, Shaft, .187" ID x .312" OD x .03	" Thick
37*	006560-01	Bracket, Latch	
38	672018-12	Screw, Socket Head Cap, M4 x 0.7 x 12 L	.g

Sewing Head Components (1 of 3) (cont)

Reference Figure 11

Item	Part	Item	Comments
No.	Number	Description	
			(Trimmer Only) (Non-Trimmer Only) 3 Lg
51*	005331-01	Pulley, Hub, Adjustable	
52	006549-03	O-Ring, .187" ID x .06" Thick	

*NOTE: Items 9 and 51 should be replaced as a factory built assembly:

005191-01 Pulley, Adjustable, Assembly

Items 16, 37, 48 and 49 should be replaced as a factory built assembly:

007340-01 Bracket, Latch, Jump Stitch, Assembly

This page intentionally left blank

Sewing Head Components (2 of 3)

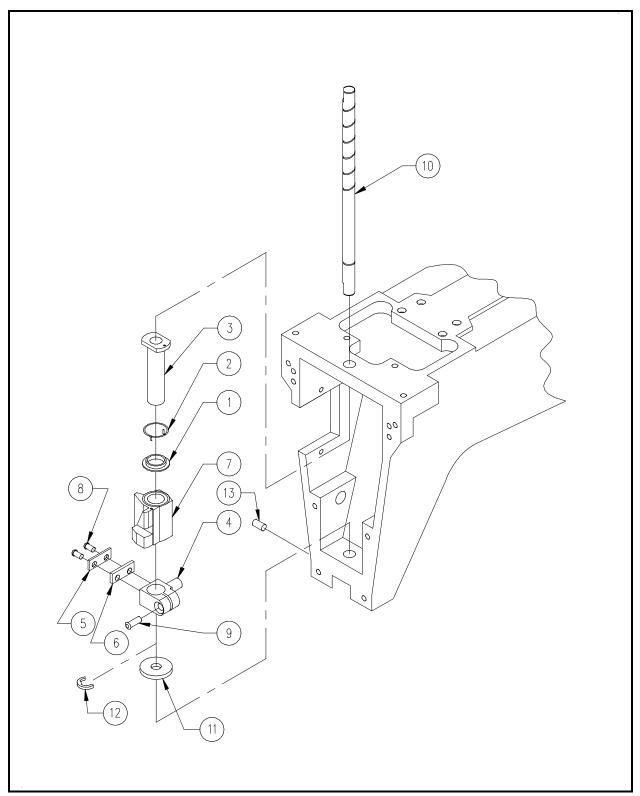


Figure 12

Sewing Head Components (2 of 3)

Reference Figure 12

Item No.	Part Number	Item Description Comments
1*	001845-01	Bushing, Spring Cradle
2*	001864-01	Spring, Jump, Reciprocator
3*	001865-01	Bushing, Shaft, Needle Bar
4*	002807-01	Stud, Connector, Reciprocator
5*	001842-01	Bracket, Stopper, Steel
6*	004676-01	Bracket, Stopper, Delrin
7*	004878-01	Reciprocator
8*	671855-06	Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg
9*	672018-10	Screw, Socket Head Cap, M4 x 0.7 x 10 Lg
10	001858-01	Shaft, Guide, Needle Bar
11	001875-01	Bearing, Shaft, Guide
12	001955-18	Ring, Retainer, External, 5/16" ID
13	004264-08	Screw, Set, Cone Point, M4 x 0.7 x 8 Lg

*NOTE: Items 1-9 should be replaced as a factory built assembly:

001990-01S Assembly, Reciprocator

Sewing Head Components (3 of 3)

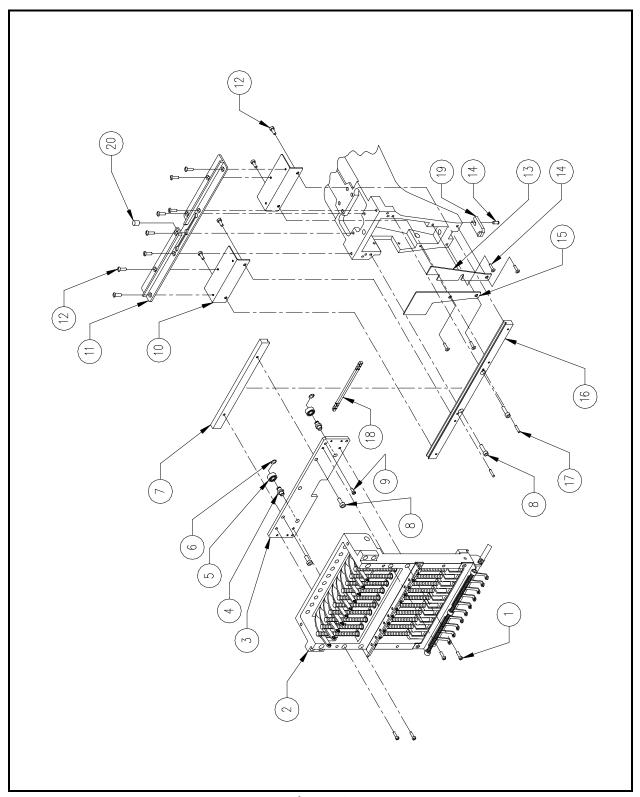


Figure 13

Sewing Head Components (3 of 3)

Reference Figure 13

Item	Part	Item	_
No.	Number	Description Commen	its
1	672018-16	Screw, Socket Head Cap, M4 x 0.7 x 16 Lg	
2		Needle Case Assemblies See Pages	s 15-1 & 16-1
3*	007515-01	Plate, Bearing, Retainer	
4*	007516-01	Stud, Bearing, Retainer	
5	007517-01	Bearing, Radial, 4mm ID x 9mm OD	
6	007562-06	Ring, Retaining	
7	007520-01	V-Rail, Needle Case	
8	672018-12	Screw, Socket Head Cap, M4 x 0.7 x 12 Lg	
9	672018-06	Screw, Socket Head Cap, M4 x 0.7 x 6 Lg	
10	007546-01	Bracket, Support, Take-Up Lever Guide	
11	007507-01	Guide, Take-Up Lever	
12	671855-06	Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg	
13	007473-01	Cover, Front, Arm, Right	
14	003509-08	Screw, Button Head Socket, M4 x 0.7 x 8 Lg	
15	007514-01	Cover, Front, Arm, Left	
16	007521-01	V-Rail, Arm	
17	002610-14	Pin, Spring, 3mm	
18	007522-01	Bearing, Cross-Roller	
19	001942-01	Plate, Position, Machined	
20	002821-01	Pad, Resevoir, Felt	

*NOTE: Items 3 and 4 should be replaced as a factory built assembly:

007558-01 Plate, Retainer, Bearing, Assembly

Bobbin Idler Assembly

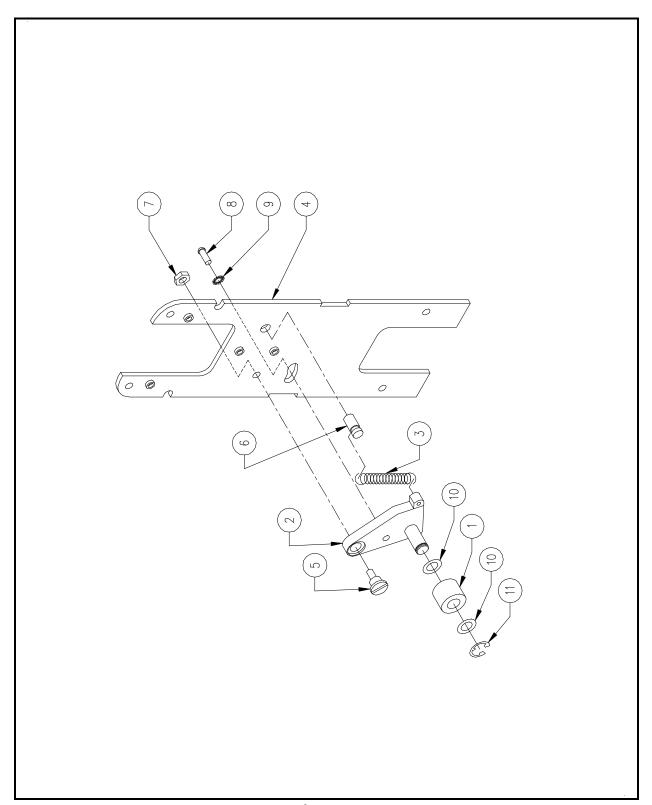


Figure 14

Bobbin Idler Assembly (004504-015)

Reference Figure 14

Item No.	Part Number	Item Description Comments
1	003593-01	Roller, Idler
2	002817-01	Bar, Idler, Assembly
3	002816-06	Spring, Idler
4	003668-01	Cover, Head, Rear
5	003188-01	Screw, Shoulder, M5 x 0.7 x 0.8 Lg
6	660278-01	Stud, Press, 1/4" x 1/2" Lg
7	003543-05	Nut, Jam, Hex, M5
8	672036-10	Screw, Button Head Cap, M5 x 0.8 x 10 Lg
9	690713-04	Washer, Lock, External Star, 1/4"
10	702876-08	Spacer, Shaft, 5/16" ID x .016" Thick
11	001955-18	Ring, Retainer, External, 5/16" ID

Take-Up Drive Lever Assembly

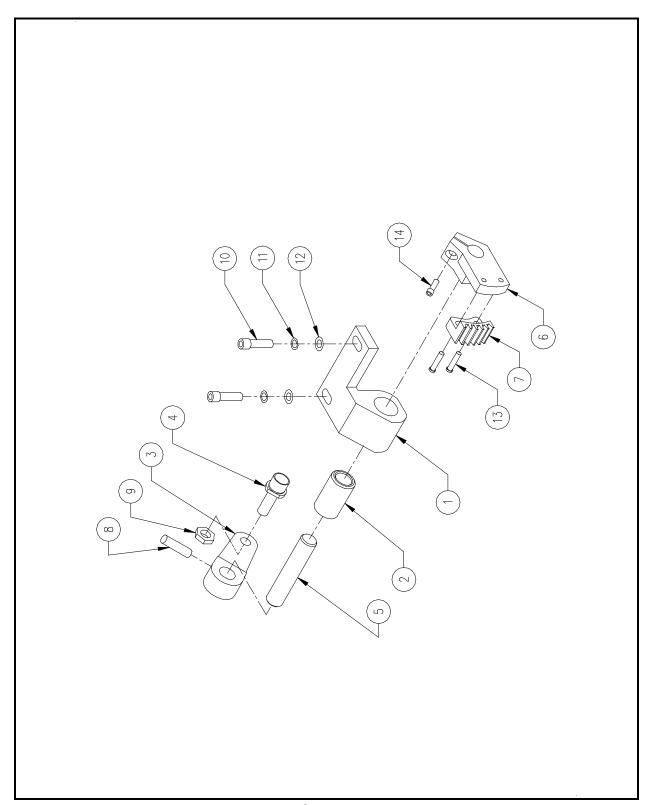


Figure 15

Take-Up Drive Lever Assembly

Reference Figure 15

Item No.	Part Number	Item Description Comments
1*	003567-01	Base, Drive, Lever, Take-Up, PHS II
2*	001947-01	Bushing, Base, Drive, Lever, Take-Up
3*	004821-01	Lever, Drive, Lever, Take-Up
4	001983-01	Follower, Assembly
5*	004820-01	Shaft, Drive, Lever, Take-Up
6	001893-01	Case, Gear, Drive, Lever, Take-Up
7	001894-01	Gear, Drive, Lever, Take-Up
8*	660830-10	Pin, Groove, 1/8" OD x 5/8" Lg
9	003543-05	Nut, Jam, Hex, M5
10	672018-14	Screw, Socket Head Cap, M4 x 0.7 x 14 Lg
11	690427-04	Washer, Lock, Split, M4
12	690439-04	Washer, Flat, M4
13	671855-06	Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg
14	672018-10	Screw, Socket Head Cap, M4 x 0.7 x 10 Lg

*NOTE: Items 1 and 2 should be replaced as a factory built assembly:

005362-01 Assembly, Bushing, Take-Up Lever

Items 3, 5, and 8 should be replaced as a factory built assembly:

004768-01 Lever, Drive, Lever, Take-Up, Assembly

Trimmers, Head Level Parts (1 of 2)

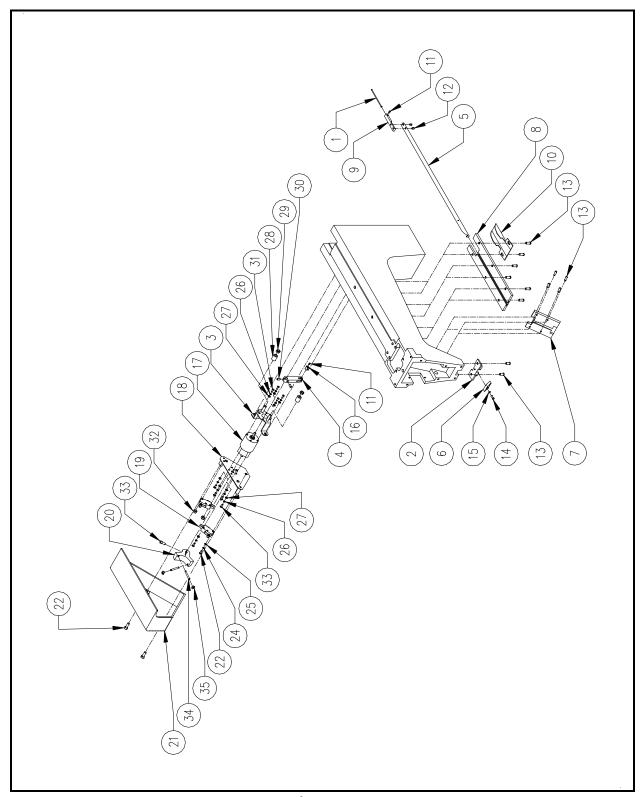


Figure 16

Trimmers, Head Level Parts (1 of 2)

Reference Figure 16

Item No.	Part Number	Item Description Comments
1	003185-01	Rod, Guide
2	002892-01	Mount, Conduit, Front
3	003676-01	Bracket, Mounting, Grabber Drive
4	003692-01	Arm, Drive, Grabber
5	003586-01	Blade, Grabber
6	003587-01	Guide, Blade
7	003588-01	Cover, Blade, Front
8	003589-01	Cover, Blade, Top
9	003590-01	Bracket, Transition
10	003592-21	Cover, Blade, Rear
11	001962-03	Screw, Set, Flat Point, M3 x 0.5 x 3 Lg
12	670406-02	Screw, Button Head Cap, 4-40 x 1/8"
13	003509-08	Screw, Button Head Socket, M4 x 0.7 x 8 Lg
14	672018-10	Screw, Socket Head Cap, M4 x 0.7 x 10 Lg
15	690439-04	Washer, Flat, M4
16	003155-01	Swivel, Wire
17	006726-01	Motor, Grabber, Assembly
18	003811-01	Bracket, Mounting, Switch
19	282911-01	Switch, Limit, Roller
20	003812-01	Arm, Actuator, Switch
21	004719-21	Cover, Drive, Grabber Motor
22	672018-14	Screw, Socket Head Cap, M4 x 0.7 x 14 Lg
23	670131-12	Screw, Pan Head Phillips, 4-40 x 3/4"
24	690033-34	Washer, Lock, Split, #4
25	690034-34	Washer, Flat, #4
26	690033-32	Washer, Lock, Split, #2
27	690034-32	Washer, Flat, #2
28	003176-01	Bumper, Motor Stop
29	003573-05	Nut, Nylock, M5
30 21	001960-04	Screw, Set, Flat Point, M4 x 0.7 x 4 Lg Screw, Pan Head Phillips, 2-56 x 1/4"
31 32	672386-04 680043-34	Nut, Lock, 4-40
32 33	670068-08	Screw, Socket Head Cap, 6-32 x 1/2"
33 34	004709-01	Screw, Set, 8-32 x 1", Brass Tip
35	680032-38	Nut, Hex, 8-32
رر	000032-30	1901, 11CA, 0-32

Trimmers, Head Level Parts (2 of 2)

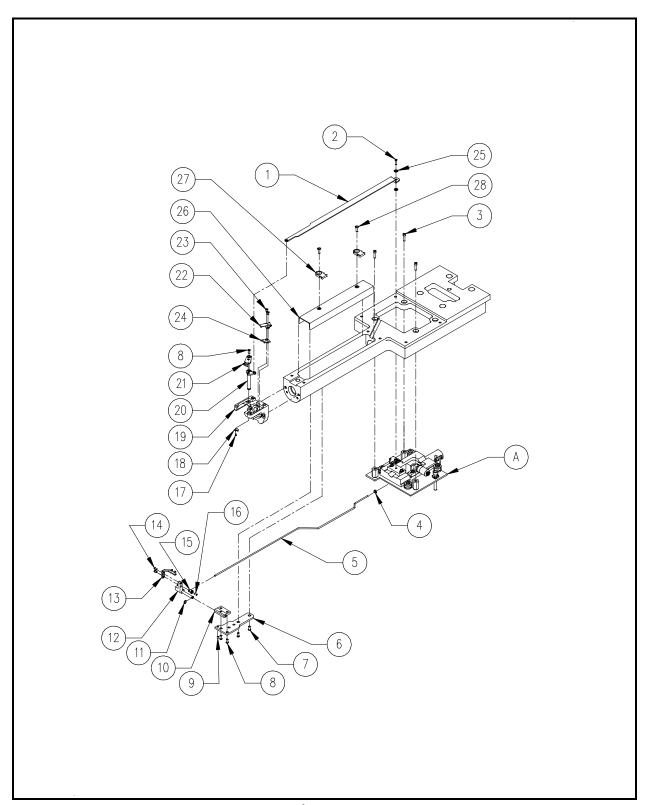


Figure 17

Trimmers, Head Level Parts (2 of 2)

Reference Figure 17

Item No.	Part Number	Item Description	Comments
A	007265-01	Assembly, Lower Trimmer Drive	See Page 18-1
1	005610-01	Link, Connecting	see rage ro r
2	003679-01	Screw, Shoulder, 4-40 x 1/8" OD x 1/8"	Lg
3	671852-16	Screw, Socket Head Cap, M5 x 0.8 x 16	
4	690364-32	Washer, Flat, #2, .032 Thick	_
5	005616-01	Link, Picker	
6	006526-01	Bracket, Picker	
7	003509-08	Screw, Button Head Socket, M4 x 0.7 x 8	3 Lg
8	007443-06	Screw, Flat Head Socket, M3 x 0.5 x 6 Lo	9
9	001962-06	Screw, Set, Flat Point, M3 x 0.5 x 6 Lg	
10	003511-01	Mount, Picker	
11	001955-08	Ring, Retainer, External, .125"	
12	003141-01	Base, Picker	
13	005615-01	Picker	
14	003136-06	Screw, Button Head Socket, M3 x 0.5 x 6	5 Lg
15	003131-01	Pin, Swivel, Front	
16	001962-03	Screw, Set, Flat Point, M3 x 0.5 x 3 Lg	
17	006305-01	Screw, Cheese Head, M2 x 0.4 x 3 Lg	
18	003685-01	Clip, Fixing, Drive Arm	
19	005601-01	Bracket, Needle Plate	
20	005602-01	Arm, Drive, Movable Knife	
21	005617-01	Knife, Movable	
22	005600-01	Knife, Spring, Fixed	4.1
23	003136-04	Screw, Button Head Socket, M3 x 0.5 x 4	4 Lg
24 25	006671-01	Presser, Under Thread) " Thick
25 26	005098-01	Spacer, Shaft, .128" ID x .317" OD x .03) ITIICK
26 27	006387-01 004550-01	Bracket, Bed, Cable Mount, Cable Tie	
28	004330-01	Screw, Flat Head Socket, M4 x 0.7 x 10 l	9
20	001920-10	Sciew, Hat Head Socket, M4 & U. / & TO I	-9

Trimmer Drive Assembly

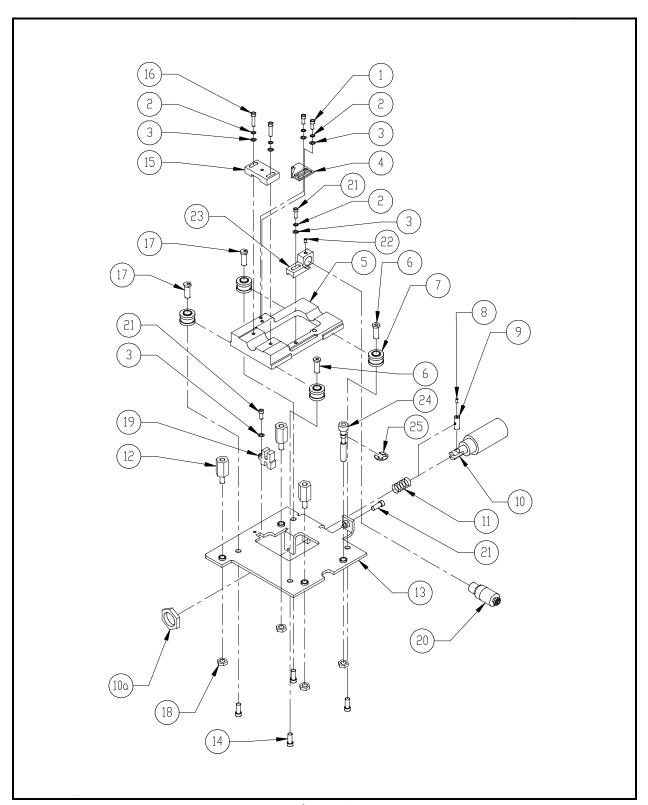


Figure 18

Trimmer Drive Assembly

Reference Figure 18

ltem No	Part Number	Item Description	Comments
No.	Number	Description	Comments
1	001922-06	Screw, Socket Head Cap, M3 x 0.5 x 6 Lo	
2	690427-03	Washer, Lock, Split, M3	
3	690439-03	Washer, Flat, M3	
4	005611-01	Bracket, Switch, Adjusting	
5	007258-01	Frame, Movable, Machined	
6	005661-01	Shaft, Roller, Movable Frame	
7	005669-01	Roller, Movable, Frame	
8	001962-06	Screw, Set, Flat Point, M3 x 0.5 x 6 Lg	
9	003627-01	Clamp, Swivel, Picker	
10*	007273-01	Picker, Solenoid, Assembly	
10a		Nut, Panel, Solenoid	(Included with Item 10)
11	003686-01	Spring, Return, Solenoid	
12	004746-01	Standoff, 10mm Hex, M-F, M5 x 0.8 x 16	5 Lg
13	007259-01	Bracket, Solenoid, Mounting	
14	670174-08	Screw, Pan Head Phillips, 6-32 x 1/2"	
15	005609-01	Plate, Link Adjusting	
16	001922-14	Screw, Socket Head Cap, M3 x 0.5 x 14	Lg
17	005661-02	Shaft, Roller, Movable Frame	
18	680430-05	Nut, Hex, M5	
19*	007264-01	Switch, Optical, Assembly	
20*	007262-01	Solenoid, Trimmer, Assembly	
21	001922-10	Screw, Socket Head Cap, M3 x 0.5 x 10	Lg
22	001962-03	Screw, Set, Flat Point, M3 x 0.5 x 3 Lg	
23	007255-01	Mount, Solenoid, Trimmer	
24 25	007256-01	Bolt, Adjuster, Trimmer	
25	001955-15	Ring, Retaining, External, .188"	

*NOTE: Items 10, 19 and 20 should be replaced as a factory built assembly: 007261-01 Trimmer, Picker, Solenoid, Opto, Assembly

Y-Drive Motor Assembly

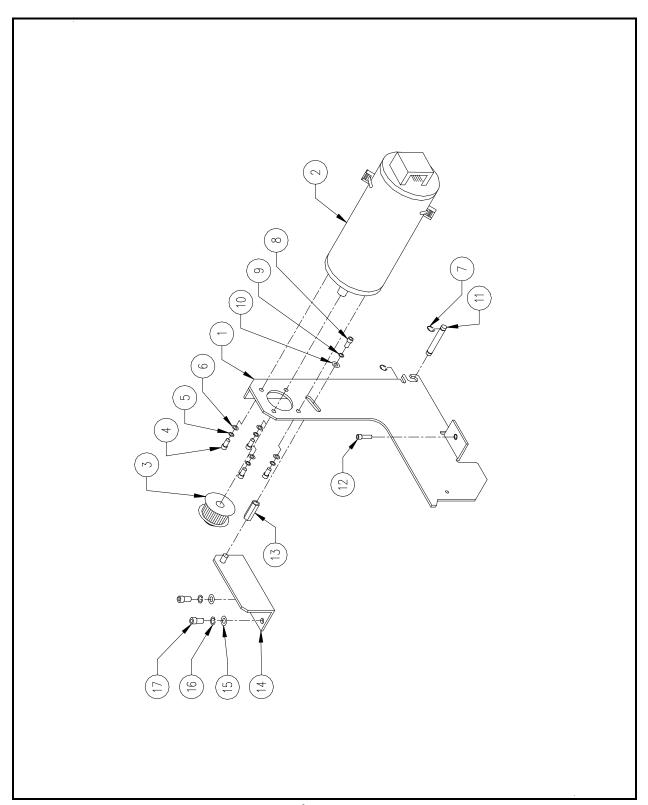


Figure 19

Y-Drive Motor Assembly

Reference Figure 19

Item No.	Part Number	Item Description Comments
1	003664-01	Bracket, Mounting, Y-Motor
2	000465-01	Motor, X-Y Servo
3	004962-01	Pulley, 5.08mmP, 15 Groove
4	670174-06	Screw, Pan Head Phillips, 6-32 x 3/8"
5	690033-36	Washer, Lock, Split, #6
6	690034-36	Washer, Flat, #6
7	344378-02	Ring, Retaining, .238" ID
8	670038-08	Screw, Socket Head Cap, 10-32 x 1/2"
9	690033-03	Washer, Lock, Split, #10
10	690034-03	Washer, Flat, #10
11	662744-24	Pin, Dowel, .250" OD x 1.5" Lg
12	670038-14	Screw, Socket Head Cap, 10-32 x 7/8"
13	712145-16	Standoff, Female, 10-32 x 1" Lg, 3/8" Hex
14	004519-01	Bracket, Support, Y-Motor
15	690034-38	Washer, Flat, #8
16	690033-38	Washer, Lock, Split, #8
17	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"

Electronics

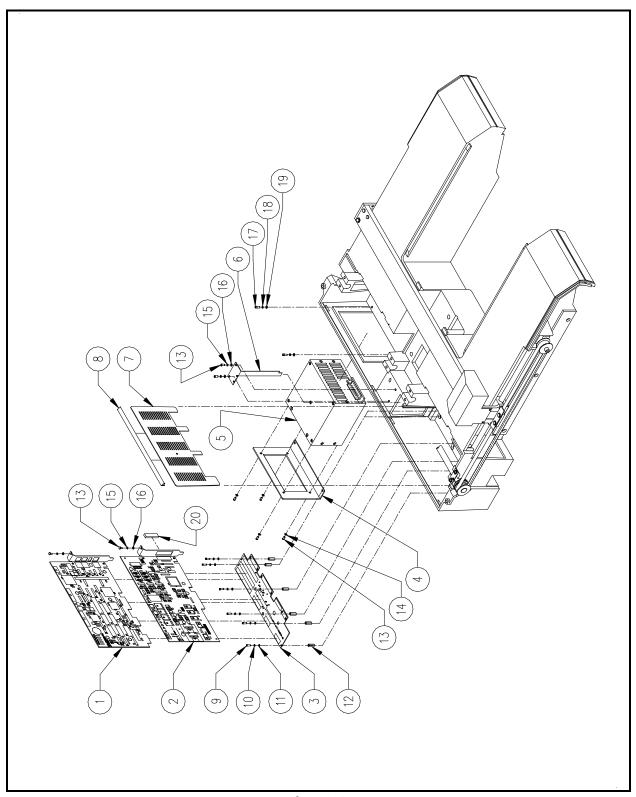


Figure 20

Electronics

Reference Figure 20

Item No.	Part Number	Item Description Comments
1	005106-01	PCB, CPU188/Disk
2	006838-01	PCB, 4-Axis Driver, Assembly
3	005631-01	PCB, Backplane
4	004523-01	Bracket, Power Supply
5	005570-01	Power Supply
6	004526-01	Bracket, Slot Cover, Single
7	004525-01	Wall, Shielding, RFI
8	345095-11	Seal, EM-1, 10"
9	670131-10	Screw, Pan Head Phillips, 4-40 x 5/8"
10	690033-34	Washer, Lock, Split, #4
11	690034-34	Washer, Flat, #4
12	710420-15	Standoff, Female, 4-40 x 15/16" Lg, 1/4" Hex
13	670174-06	Screw, Pan Head Phillips, 6-32 x 3/8"
14	690713-36	Washer, Lock, External Star, #6
15	690033-36	Washer, Lock, Split, #6
16	690034-36	Washer, Flat, #6
17	670149-10	Screw, Socket Head Cap, 8-32 x 5/8"
18	690033-38	Washer, Lock, Split, #8
19	690034-38	Washer, Flat, #8
20	190709-01	Connector, Header, Straight, 26 Position

X-Drive System (1 of 5)

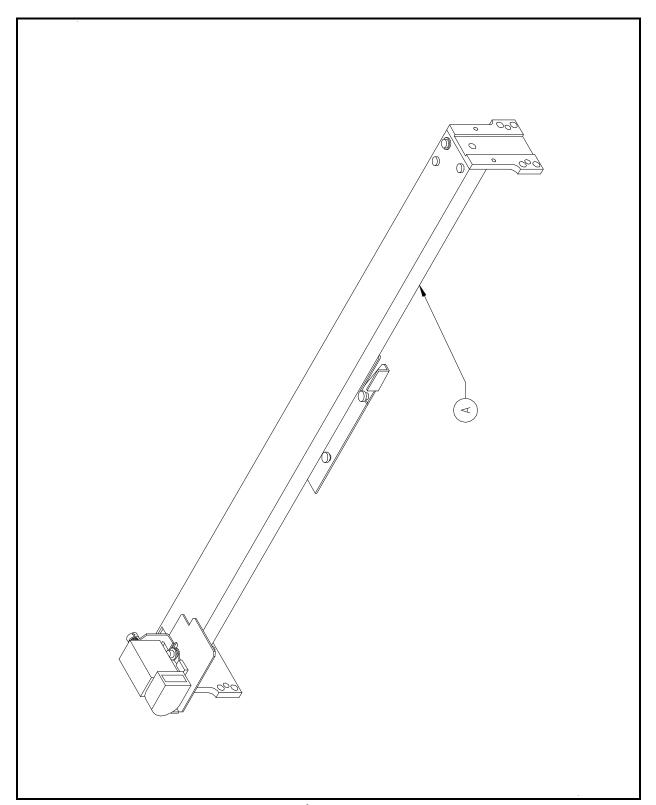


Figure 21

X-Drive System (1 of 5) Reference Figure 21 Item Part Item No. Number Description Comments A 006758-01 X-Drive Assembly See Page 22-1

X-Drive System (2 of 5)

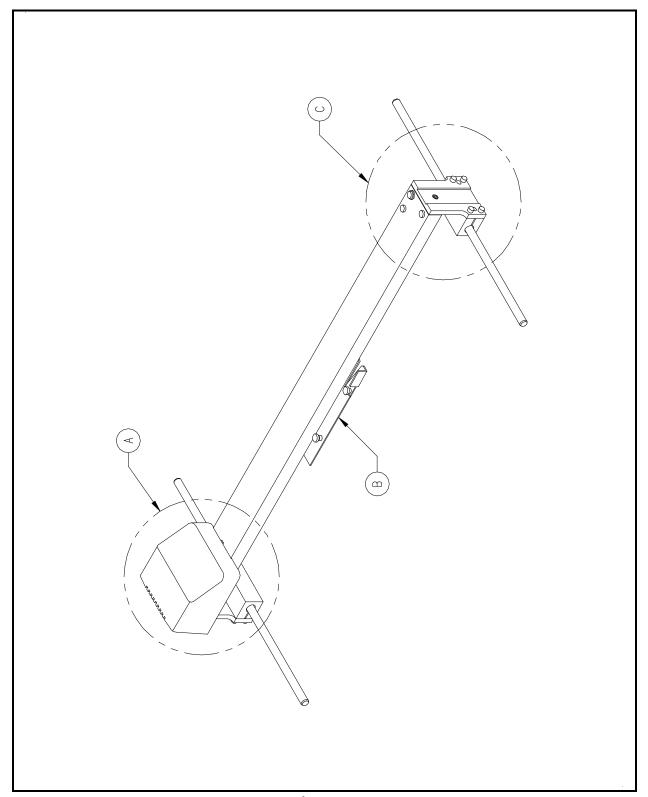


Figure 22

X-Drive System (2 of 5)

Reference Figure 22

Item	Part	Item	Comments
No.	Number	Description	
A		X-Drive Sub-assembly (Motor End)	See Page 23-1
B	004835-01S	Assembly, X-Carriage	See Page 24-1
C		X-Drive Sub-assembly (Idler End)	See Page 25-1

X-Drive System (3 of 5)

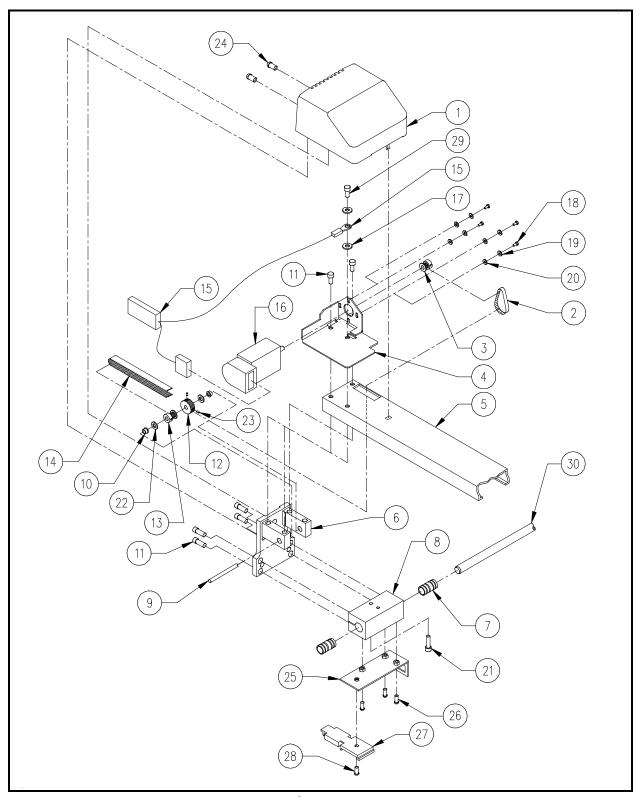


Figure 23

X-Drive System (3 of 5)

Reference Figure 23

*NOTE: Items 2, 6, 9, 10, 12, 13, 22 and 23 should be replaced as factory built assembly: 006419-01 Assembly, Carriage, Y-Axis

X-Drive System (4 of 5)

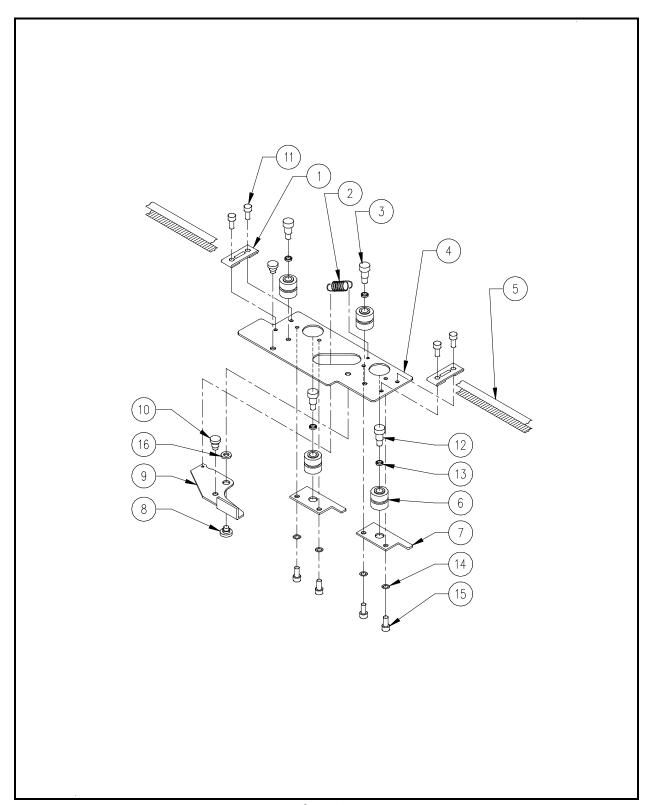


Figure 24

X-Drive System (4 of 5) (004835-01S)

Reference Figure 24

Item No.	Part Number	Item Description	Comments
1* 2 3* 4* 5* 6 7 8* 9* 10* 13a 13b 13c 13d 13e 14 15	554305-01 504396-01 454308-01 004815-01 005117-01 444302-01 554306-01 454307-01 554304-01 454308-02 670267-06 674395-05 702875-01 702875-02 702875-03 702875-04 702875-05 690811-38 670149-06	Clamp, Belt, X-Drive Spring, Extension Pin, Hoop Holder, Carriage Carriage, X-Axis Belt, Timing, X-Drive, 577 Groove Roller, X-Carriage Plate, Roller, Adjustable Pivot, Hoop Holder Actuator, Hoop Holder Pin, Hoop Holder, Actuator Screw, Button Head Cap, 8-32 x 3/8" Screw, Shoulder, 1/4" Dia x .312" Lg Spacer, Shaft, 3/16" x .002" Spacer, Shaft, 3/16" x .004" Spacer, Shaft, 3/16" x .006" Spacer, Shaft, 3/16" x .008" Spacer, Shaft, 3/16" x .008" Spacer, Shaft, 3/16" x .010" Washer, Internal Star, #8 Screw, Socket Head Cap, 8-32 x 3/8"	(Use as Required)
16*	344377-01	Washer, Flat, #8, Teflon	

*NOTE:

Items 1, 5, and 11 <u>are not</u> included in Assembly 004835-01S, and must be replaced seperately.

Items 3, 4, 8-10 and 16 should be replaced as a factory built assembly: 007458-01 Carriage, X, Assembly

X-Drive System (5 of 5)

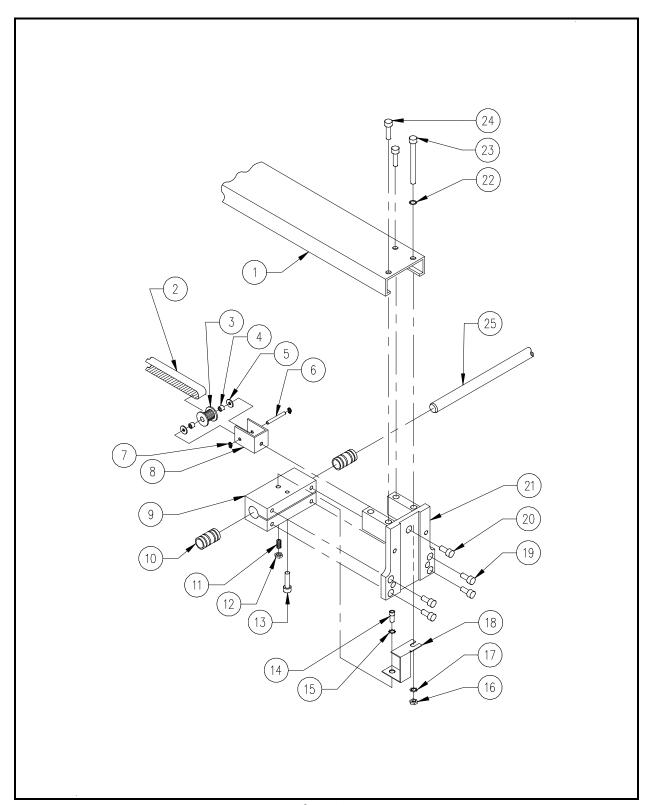


Figure 25

X-Drive System (5 of 5)

Reference Figure 25

Item No.	Part Number	Item Description	Comments
1	005070-01	Channel, X-Drive	
2	005117-01	Belt, Timing, X-Drive, 577 Groove	
3*		Pulley, X-Drive	
4*	005095-01	Bearing, X-Drive, Idler	
5*	003419-30	Spacer, Shaft, .190" x .310" Lg	
6*	000378-14	Pin, Dowel, 1/8" OD x .875" Lg	
7*	344378-03	Ring, Retaining, .125"	
8*	554327-01	Tensioner, Belt, X-Axis	
9	006741-01	Housing, Bearing	
10	005342-06	Bearing, Sleeve, Frelon	
11	344883-01	Plunger, Ball, 1/4-20	
12	680032-04	Nut, Hex, 1/4-20	
13	670149-08	Screw, Socket Head Cap, 8-32 x 1/2"	
14	670038-06	Screw, Socket Head Cap, 10-32 x 3/8"	
15	690713-03	Washer, External Star, #10	
16	680032-38	Nut, Hex, 8-32	
17	690713-38	Washer, External Star, #8	
18	555044-01	Strap, Ground	
19	670149-08	Screw, Socket Head Cap, 8-32 x 1/2"	
20*	670149-10	Screw, Socket Head Cap, 8-32 x 5/8"	
21	004522-01	Carriage, Y-Axis	
22	690811-38	Washer, Internal Star, #8	
23	670267-18	Screw, Button Head Cap, 8-32 x 1-1/8"	
24	670267-06	Screw, Button Head Cap, 8-32 x 3/8"	
25	441423-02	Rail, Y-Axis	

*NOTE: Items 3-8 and 20 should be replaced as a factory built assembly:

855185-01 Assembly, Pulley, X-Idler

Z-Drive/Encoder Assembly

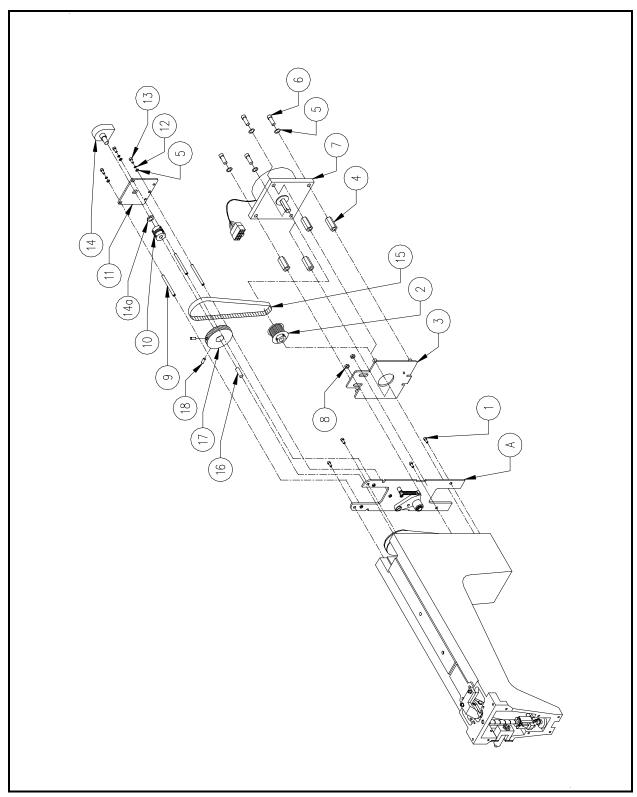


Figure 26

Z-Drive/Encoder Assembly

Reference Figure 26

Item No.	Part Number	Item Description	Comments
А	004504-015	Bobbin Idler Assembly	See Page 14-1
1	001926-01	Screw, Flat Head Socket, M4 x 0.7 x 12 Lo	3
2	340090-01	Pulley, 16T, 3/8" ID, W/Hub	
3	003667-01	Plate Mounting, Z-Drive Motor	
4	714399-16	Standoff, F/F, 1/2" Hex, 1/4-20 x 1" Lg	
5	690439-04	Washer, Flat, M4	
6	670035-08	Screw, Socket Head Cap, 1/4-20 x 1/2"	
7	003688-01	Motor, Z-Drive	
8	005284-01	Nut, Lock, M6	
9	004829-01	Standoff, Encoder, M-F, M4 x 0.7 x 2.01"	Lg
10	003553-01	Coupler, Shaft, Helical, 1/4" x 1/4"	
11	004730-01	Plate, Encoder	
12	690427-04	Washer, Lock, Split, M4	
13	672018-16	Screw, Socket Head Cap, M4 x 0.7 x 16 L	.g
14	004729-01	Encoder, Z-Axis	
14a		Nut, Panel	(Included with Item #14)
15	344394-01	Belt, Timing, 80 Groove, 1/5P, 3/8" Wide	
16	662744-12	Pin, Dowel, 1/4" OD x .750" Lg	
17	001523-01	Pulley, Drive, Bobbin, Top, 32T, 1/5P	
18	001927-12	Screw, Set, Flat Point, M5 x 0.8 x 12 Lg	

Y-Drive Assembly

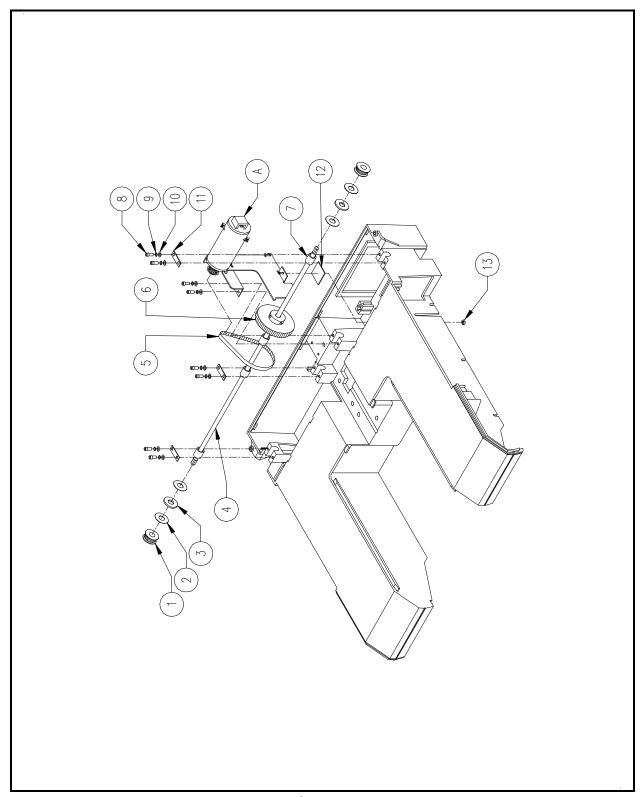


Figure 27

Y-Drive Assembly

Reference Figure 27

Item No.	Part Number	Item Description	Comments
А		Y-Drive Motor Assembly	See Page 19-1
1	504358-01	Pulley, Idler, Y-Drive	3
2	694397-08	Washer, Thrust, .50" x .031"	
3	344402-08	Bearing, Thrust, .50" ID	
4	444404-01	Shaft, Drive, Y-Axis	
5	341781-01	Belt, Timing, 74T, 1/5P, 3/8" Wide	
6	344349-01	Pulley, Timing, 60 Groove, 1/5P, 1/2" Bo	re
7	344403-12	Bearing, Roller, 1/2" x 3/4"	
8	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"	
9	690033-38	Washer, Lock, Split, #8	
10	690034-38	Washer, Flat, #8	
11	555325-01	Bracket, Retainer	
12	003666-01	Plate, Tensioner, Y-Belt	
13	680043-38	Nut, Lock, 8-32	

Left Y-Carriage Assembly

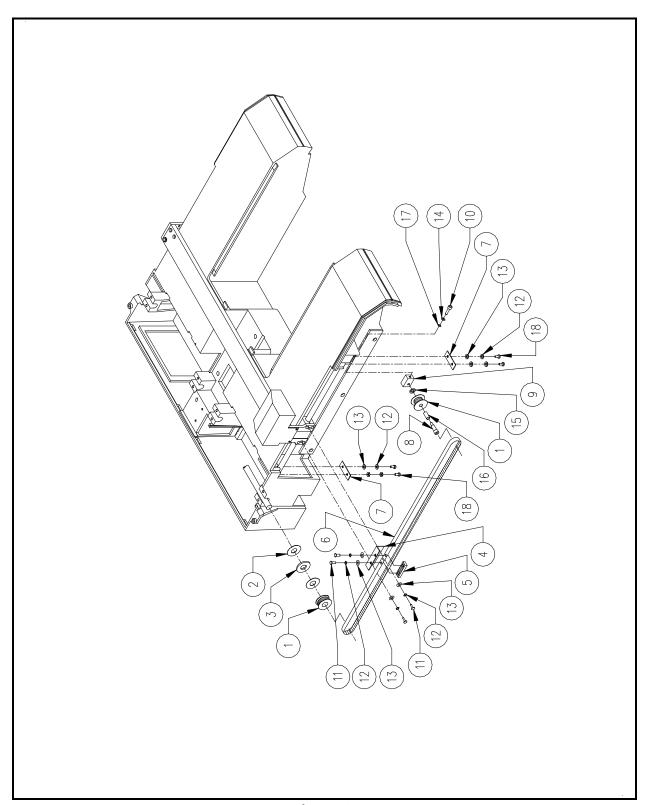


Figure 28

Left Y-Carriage Assembly

Reference Figure 28

Item No.	Part Number	Item Description Comments
1*	504358-01	Pulley, Idler, Y-Drive
2	694397-08	Washer, Thrust, .50" ID x .031"
3	344402-08	Bearing, Thrust, .50" ID
4	554329-01	Bracket, Belt
5	000372-01	Clamp, Belt
6	504449-01	Belt, Y-Drive, 199 Groove
7	555325-01	Bracket, Retainer
8	672852-01	Screw, Shoulder, 1/4-20 x 5/16" x 5/8" Lg
9	452165-01	Block, Pulley, Idler
10	670038-14	Screw, Socket Head, Cap, 10-32 x 7/8"
11	670267-06	Screw, Button Head Cap, 8-32 x 3/8"
12	690033-38	Washer, Lock, Split, #8
13	690034-38	Washer, Flat, #8
14	690034-03	Washer, Flat, #10
15	693158-03	Washer, Precision, 5/16" ID x .048" Thick
16*	342877-09	Bearing, Roller, 5/16" ID x 9/16" Lg
17	690713-03	Washer, Lock, External Star, #10
18	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"

*NOTE: Items 1 and 16 should be replaced as a factory built assembly:

005294-01 Assembly, Pulley, Idler

Right Y-Carriage Assembly

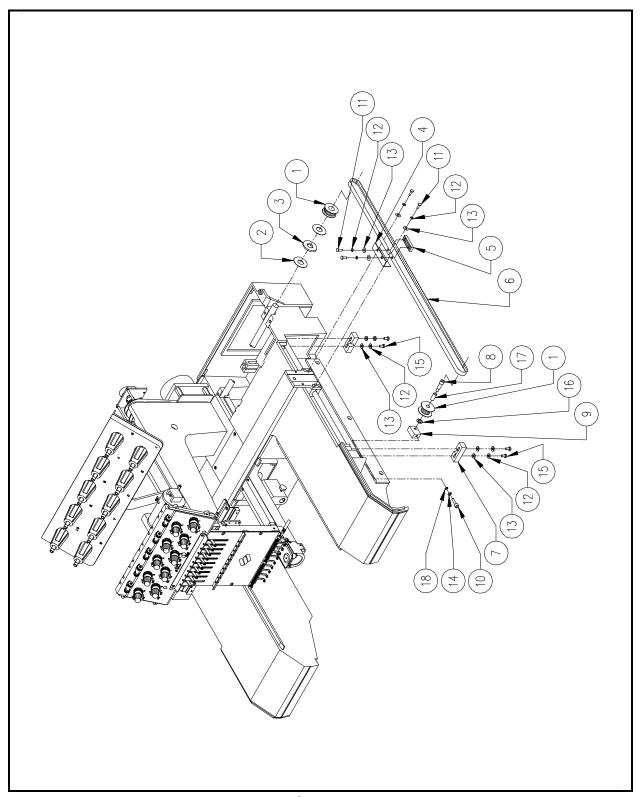


Figure 29

Right Y-Carriage Assembly

Reference Figure 29

Item No.	Part Number	Item Description Comments
1*	504358-01	Pulley, Idler, Y-Drive
2	694397-08	Washer, Thrust, .50" ID x .031"
3	344402-08	Bearing, Thrust, .50" ID
4	554329-01	Bracket, Belt
5	000372-01	Clamp, Belt
6	504449-01	Belt, Y-Drive, 199 Groove
7	000530-01	Retainer, Y-Rail
8	672852-01	Screw, Shoulder, 1/4-20 x 5/16" x 5/8" Lg
9	452165-01	Block, Pulley, Idler
10	670038-14	Screw, Socket Head, Cap, 10-32 x 7/8"
11	670267-06	Screw, Button Head Cap, 8-32 x 3/8"
12	690033-38	Washer, Lock, Split, #8
13	690034-38	Washer, Flat, #8
14	690034-03	Washer, Flat, #10
15	670149-12	Screw, Socket Head Cap, 8-32 x 3/4"
16	693158-03	Washer, Precision, 5/16" ID x .048" Thick
17*	342877-09	Bearing, Roller, 5/16" ID x 9/16" Lg
18	690713-03	Washer, Lock, External Star, #10

*NOTE: Items 1 and 17 should be replaced as a factory built assembly:

005294-01 Assembly, Pulley, Idler

Cap Frame Mount Assembly

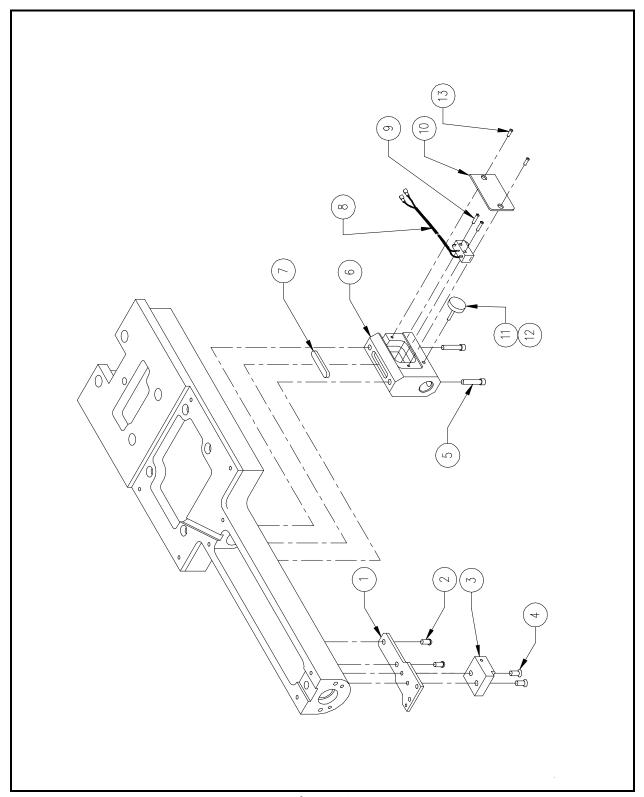


Figure 30

Cap Frame Mount Assembly

Reference Figure 30

Item No.	Part Number	Item Description Comments
1	006526-01	Bracket, Picker
2	003509-08	Screw, Button Head Socket, M4 x 0.7 x 8 Lg
3	006523-01	Mount, Dove Tail, Cap Frame
4	001926-12	Screw, Flat Head Socket, M4 x 0.7 x 12 Lg
5	672018-20	Screw, Socket Head Cap, M4 x 0.7 x 20 Lg
6*	009013-01	Bracket, Cap Frame, Rear
7	006525-01	Key, Shaft, 6mm x 6mm x 32mm
8*	009033-01	Cap Frame Switch, Assembly
9*	003122-10	Screw, Pan Head Phillips, M2 x 0.4 x 10 Lg
10*	009014-01	Cover, Cap Frame Bracket
11	671852-10	Screw, Socket Head Cap, M5 x 0.8 x 10 Lg
12	006538-01	Knob, Knurled, M5, Black
13*	003136-06	Screw, Button Head Socket, M3 x 0.5 x 6 Lg

*NOTE: Items 6, 8-10 and 13 should be replaced as a factory built assembly:

009075-01 Bracket, Cap Frame, Assembly

Cap Frame Drive Assembly

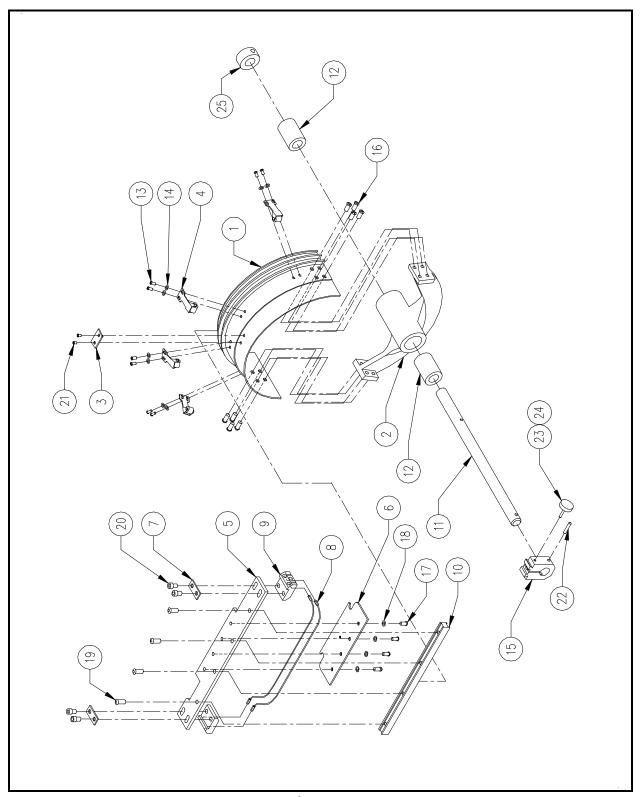


Figure 31

Cap Frame Drive Assembly

Reference Figure 31

Item No.	Part Number	Item Description	Comments
1*	452732-01	Ring, Drive, Cap Frame	
2*	006496-01	Hub, Cap Driver, Phase II	
3*	552912-01	Locator, Cap Frame	
4*	004229-01	Clip, Roller, Cap Frame Driver, Assembly	
5*	454861-01	Bracket, Drive	
6*	554862-01	Mount, Drive Ring	
7*	552915-01	Washer, Flat, Rectangle	
8*	402913-01	Cable, Drive Ring	
9*	452916-01	Bracket, Cable	
10*	442917-01	Bar, Guide	
11*	006522-01	Shaft, Cap Frame	
12*	005342-08	Bearing, Sleeve, Frelon	
13*	670131-03	Screw, Pan Head Phillips, 4-40 x 3/16"	
14*	690034-34	Washer, Flat, #4	
15*	006521-01	Mount, Male, Cap Frame	
16*	672982-06	Screw, Pan Head Phillips, 8-32 x 3/8"	
17	670174-04	Screw, Pan Head Phillips, 6-32 x 1/4"	
18	690033-36	Washer, Lock, Split, #6	
19*	670267-06	Screw, Button Head Cap, 8-32 x 3/8"	
20*	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"	
21*	670131-02	Screw, Pan Head Phillips, 4-40 x 1/8"	
22	660830-10	Pin, Groove, 1/8" OD x 7/8" Lg	
23*	671852-16	Screw, Socket Head Cap, M5 x 0.8 x 16 L	-g
24*	006538-01	Knob, Knurled, M5, Black	
25	342872-08	Collar, Shaft, 1/2" ID	

*NOTE: Items 1-16 and 19-21 should be replaced as a factory built assembly:

006541-01 Ring, Drive, Adv, Assembly

Items 23 and 24 should be replaced as a factory built assembly:

007401-01 Screw, Thumb, 16mm Lg, Assembly

Melco Cap Frame Assembly

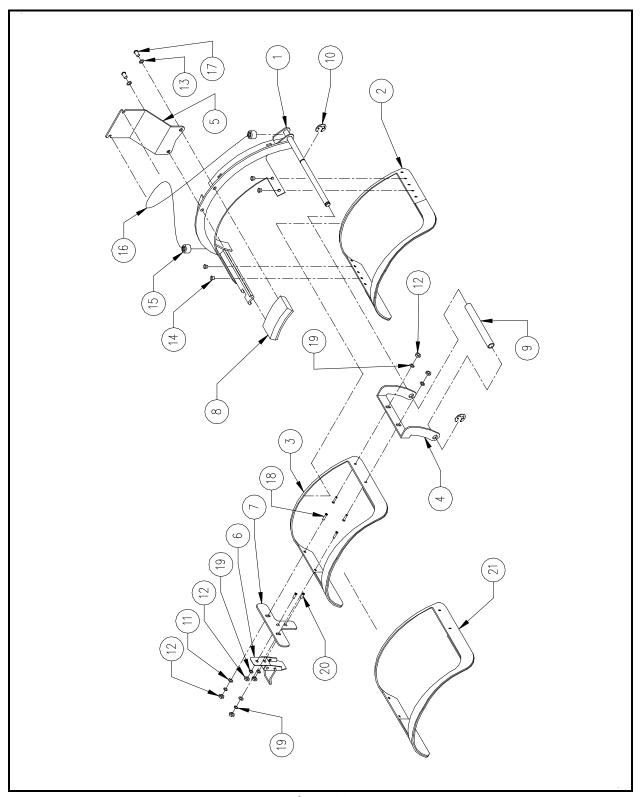


Figure 32

Melco Cap Frame Assembly (006674-01)

Reference Figure 32

Item No.	Part Number	Item Description	Comments
1	004938-01	Base, Cap Frame, Assembly	
2*	006010-01	Frame, Lower, W/Rubber, 6-Panel	
3*	005949-01	Strap, Clamping, 72mm, 6-Panel	
4*	002629-01	Bracket, Hinge	
5	005071-01	Holder, Cord, Visor Clamp	
6*	005487-01	Catch, Pull	
7*	005486-01	Bracket, Latch	
8	004904-01	Block, Locator, Brim	
9	002632-01	Spacer	
10	004240-01	Ring, Retainer, E-Style	
11*	690439-03	Washer, Flat, M3	
12*	680430-03	Nut, Hex, M3	
13	690033-36	Washer, Lock, Split, #6	
14	004963-01	Screw, Special, Cap Frame	
15	005068-01	Terminal, Shock Cord	
16	005073-01	Cord, Shock, Cap Frame	
17	670174-06	Screw, Pan Head, Phillips, 6-32 x 3/8"	
18*	006019-01	Screw, Flat Head Phillips, M3 x 0.5 x 8 Lg)
19*	003128-03	Washer, Lock, Split, M3	
20*	005934-01	Screw, Flat Head Phillips, M3 x 0.5 x 6 Lg)
21*	005948-01	Strap, Clamping, 82mm, 6-Panel	

*NOTE:

Items 3, 4, 6, 7, 11, 12, 18, 19 and 20 should be replaced as a factory built assembly: 007199-01 Strap, Clamping, 72mm, 6-Panel, Assembly

Items 4, 6, 7, 11, 12, 18, 19, 20 and 21 should be replaced as a factory built assembly: 007198-01 Strap, Clamping, 82mm, 6-Panel, Assembly

Item 2, 007198-01, 007199-01 are included in: 006674-01 Capframe, Adjustable, 6-Panel

Harness Assembly (1 of 3)

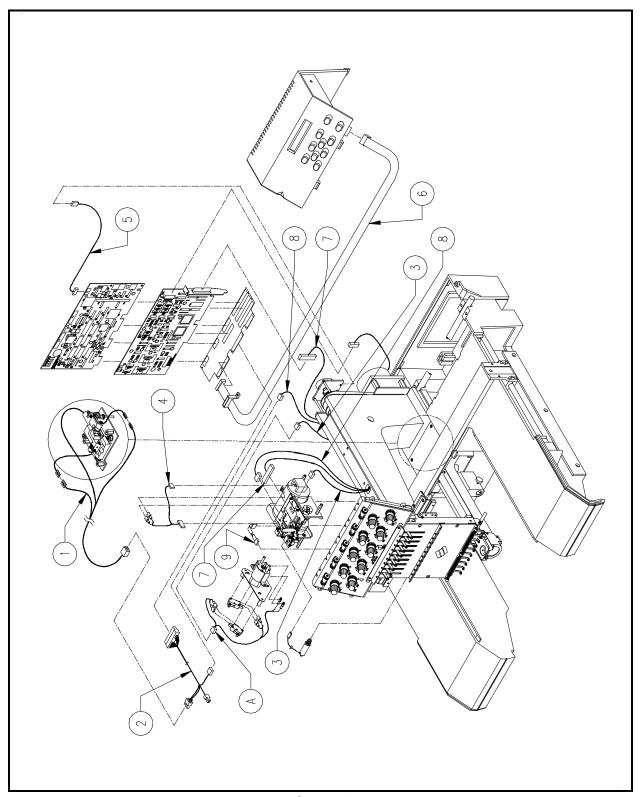


Figure 33

Harness Assembly (1 of 3)

Reference Figure 33

Item No.	Part Number	Item Description Comments
		·
Α	006726-01	Motor, Grabber, Assembly
1	007261-01	Trimmer, Picker, Solenoid, Opto, Assembly (See Page 18-1)
2	006475-01	Harness, Trimmer/Power/10 Needle
3	006725-01	Harness, Grabber
4	006584-01	Harness, Color Change Motor
5	005104-01	Harness, Z-Encoder, 13.5"
6	003807-01	Harness, Keyboard
7	005821-01	Harness, 18 Color Interface
8	006476-01	Harness, Power, 10 Needle, Color Change
9	006582-01	Harness, Thread Break

Harness Assembly (2 of 3)

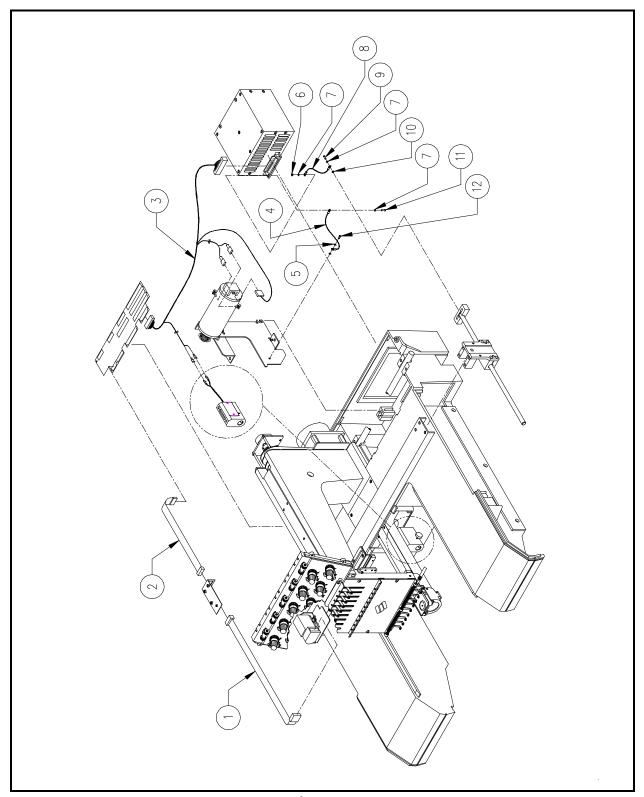


Figure 34

Harness Assembly (2 of 3)

Reference Figure 34

Item No.	Part Number	Item Description	Comments
1	003804-01	Harness, X-Beam	
2	003809-01	Harness, X-Drive	
3	003805-01	Harness, Power	
4	004720-01	Cable, Ground, Pan	
5	690713-38	Washer, Lock, External Star, #8	
6	680043-36	Nut, Lock, 6-32	
7	690713-36	Washer, Lock, External Star, #6	
8	004720-02	Cable, Ground, Pan	
9	670174-12	Screw, Pan Head Phillips, 6-32 x 3/4"	
10	690034-36	Washer, Flat, #6 Nom	
11	670174-07	Screw, Pan Head Phillips, 6-32 x 7/16"	
12	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"	

Harness Assembly (3 of 3)

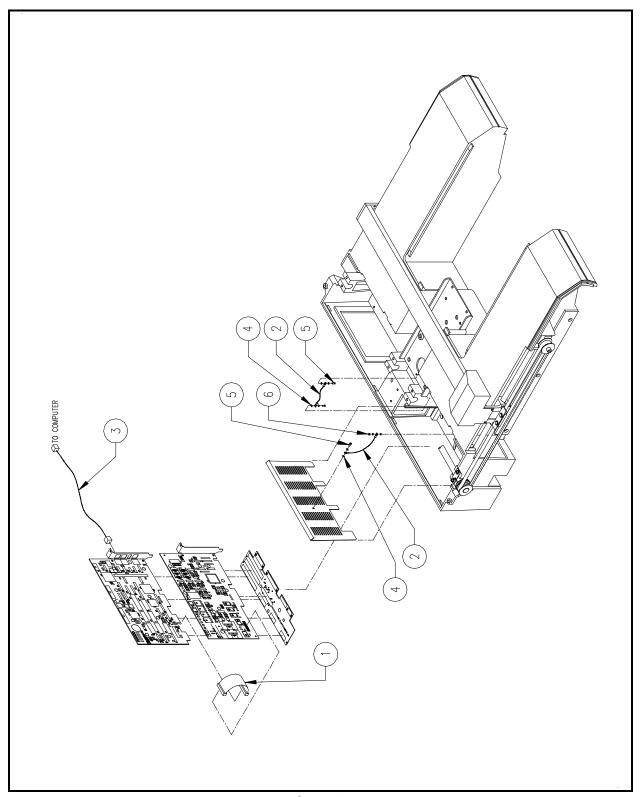


Figure 35

Harness Assembly (3 of 3)

Reference Figure 35

Item No.	Part Number	Item Description	Comments
1	004722-01	Harness, Jumper, CPU/XYZ	
2	004720-01	Cable, Ground, Pan	
3	345068-25	Cable, Data, 5 Conductor, W/Drain, 25 Ft.	
4	690713-38	Washer, Lock, External Star, #8	
5	670149-06	Screw, Socket Head Cap, 8-32 x 3/8"	
6	680043-38	Nut, Lock, 8-32	

Disk Drive Option Assembly

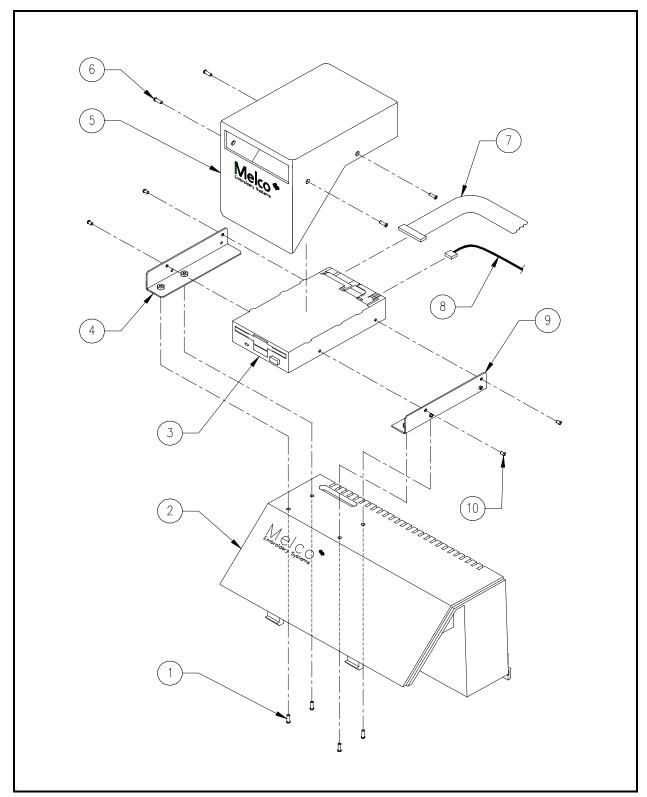


Figure 36

Disk Drive Option Assembly

Reference Figure 36

Item No.	Part Number	Item Description Comments
1	004262-01	Screw, Pan Head Phillips, M4 x 0.7 x 10 Lg
2*	004202-01	Cover, Electronics, Modified, Grey
3*	004243-01	Disk Drive, Floppy, 1.44Mb
4*	005110-01	Mount, Drive, 3.5", Left
5*	005111-21	Cover, Drive, 3.5", Grey
6	001935-06	Screw, Flat Head Phillips, M3 x 0.5 x 6 Lg
7*	005140-01	Cable, Interface, Disk Drive
8*	005141-01	Cable, Power, Disk Drive
9*	005110-02	Mount, Drive, 3.5", Right
10	671855-06	Screw, Pan Head Slotted, M3 x 0.5 x 6 Lg

*NOTE: Items 2-5 and 7-9 are part of and should be replaced as assembly:

006534-21 Option, Disk Drive