
Falcon 160 CE

Illustrated Parts Booklet

(000 - 083)

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Booklet #: F160CEPB001

**GBC Films Group
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DeForest, WI 53532
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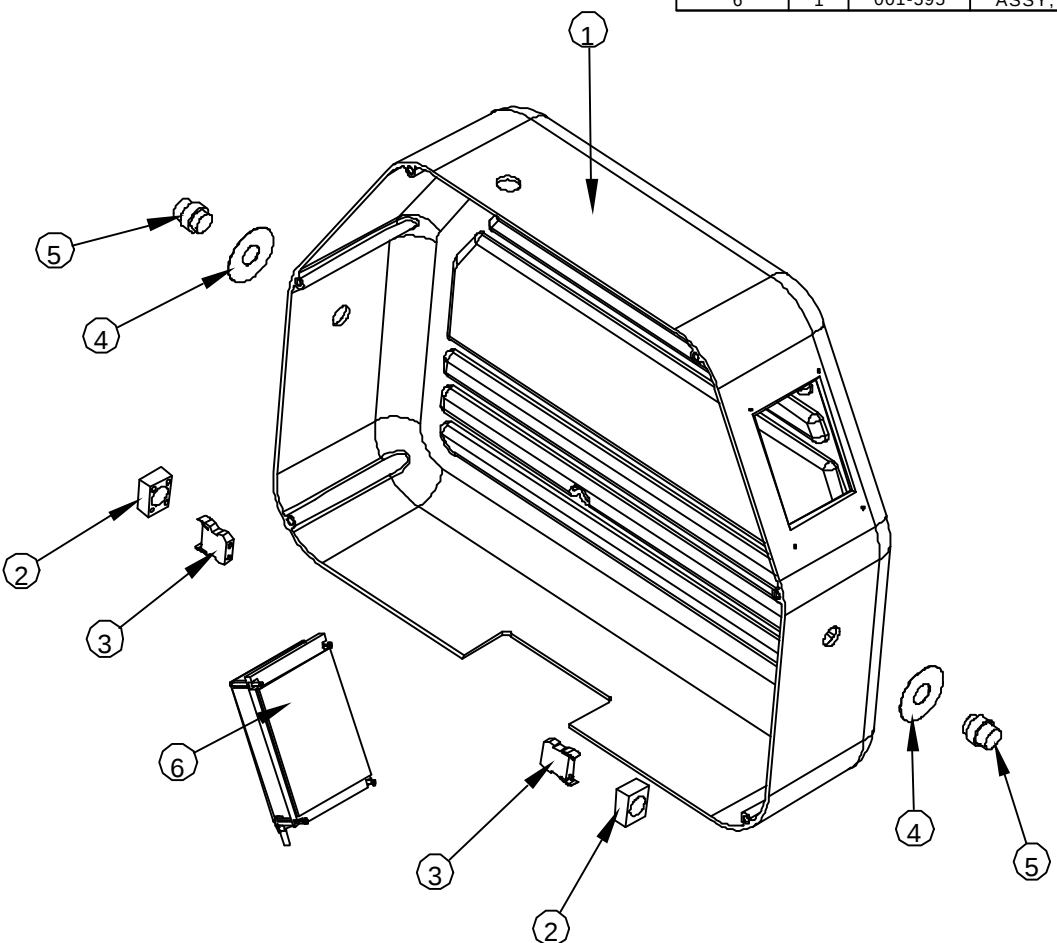
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PROPRIETARY

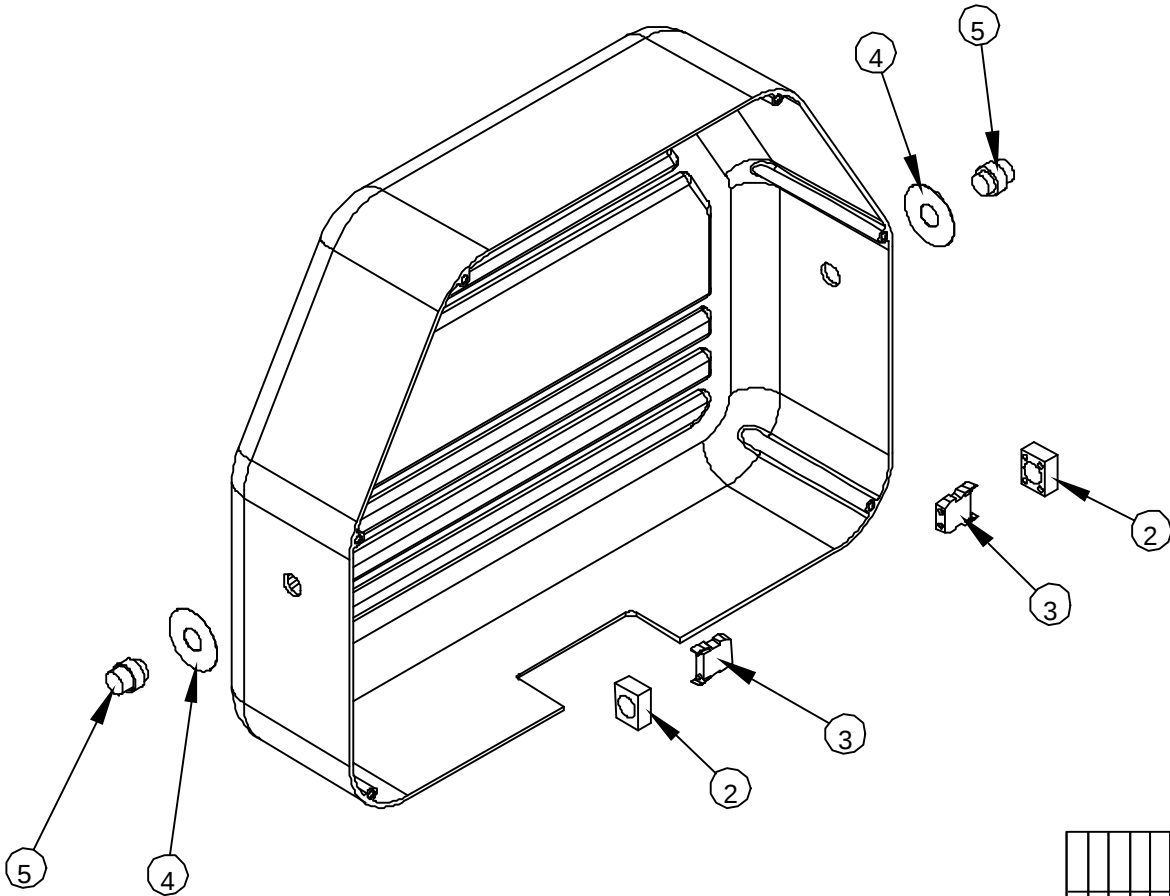
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										GBC Films Group 4151 Anderson Road, DeForest, WI 53532									
										TITLE : Cabinet, control side									
										DATE: 10/10/00 DRAWN BY: N/A DWG SCALE: N/A DWG: 001									

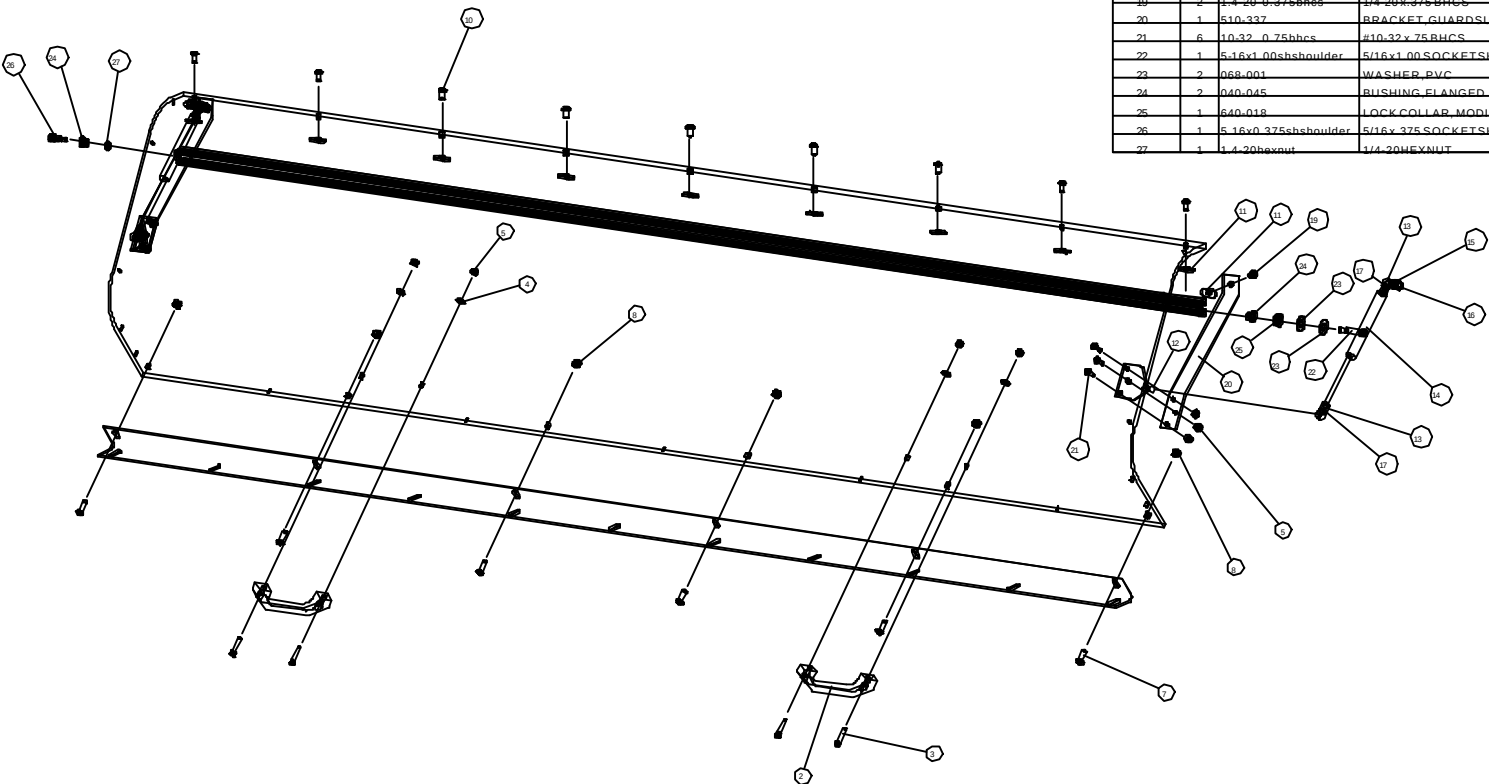
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	520-076	CABINET, LEFT, F160
2	2	214-313b	SWITCH, E-STOP
3	2	214-314	CONTACT BLOCK, E-STOP, N.C.
4	2	450-098	DECAL, E-STOP
5	2	214-313a	SWITCH, E-STOP

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UNLESS OTHERWISE SPECIFIED TOLERANCE									
GBC Films Group 4151 Anderson Road, DeForest, WI 53532									
TITLE : Cabinet, drive side									
DATE: 10/10/00 DRAWN BY: N/A DWG SCALE: N/A DWG: 002									

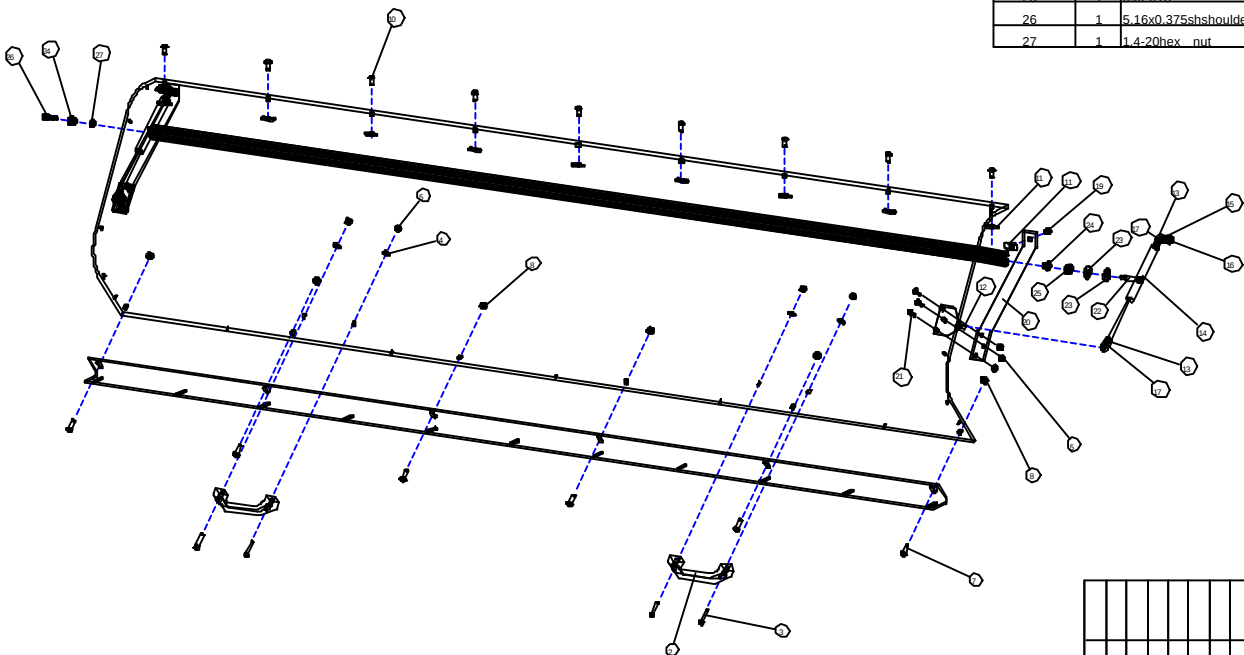
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	585-084	GUARD BOLL F160
2	2	465-037	HANDLE NYLON BLACK
3	4	10-32 1.0sbcs	#10-32x1.0SHCS
4	4	10washer	#10FLATWASHER
5	10	10-32locknut	#10-32NYLOCK
6	1	605-017	GUIDE INFEED F160
7	6	1/4-20 0.75bhcs	1/4-20x.75BHCS
8	6	1/4-20Nylock	1/4-20HEXNUT
9	1	695-003	SHAFT GUARDPIVOT EXTRUDED
10	9	1/4-20 0.5bhcs	1/4-20x.50BHCS
11	11	050-001	T-NUT 1/4-20 3382
12	2	100-033	BRACKET GASSPRING GUARD F160
13	4	100-030	EASTENER BALL SOCKETFITTING
14	2	089-023	SPRING GAS
15	2	100-031	EASTENER BALL STUD
16	2	5-16-18nut	5/16-18HEXNUT
17	4	090-001	CLIP SAFETY
18	1	610-336	BRACKET GUARDSUPPORT LEFT F160
19	2	1/4-20 0.375bhcs	1/4-20x.375BHCS
20	1	610-337	BRACKET GUARDSUPPORT RIGHT F160
21	6	10-32 0.75bhcs	#10-32x.75BHCS
22	1	5-16x1.00shshoulder	5/16x1.00SOCKETSHOULDER
23	2	068-001	WASHER PVC
24	2	040-045	BUSHING FLANGED
25	1	640-018	LOCK COLLAR MODIFIED BULANDCLSE
26	1	5-16x0.375shshoulder	5/16x.375SOCKETSHOULDER
27	1	1/4-20hexnut	1/4-20HEXNUT



UNLESS OTHERWISE SPECIFIED TOLERANCES			
FIN	AS	TOL.	FINISH
XXX		±.014	11.7
X		±.010	
XX		±.012	
XXX		±.010	
XXXX		±.001	
ANGLES ±.01			
THIS DRAWING IS THE PROPERTY OF GBC FILMS GROUP. THE INFORMATION HEREIN IS INTENDED TO BE CONFIDENTIAL.			
GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
TITLE : Safety shield, main rollers			
DATE:	DRAWN BY:	DWG SCALE:	DWG :
10/10/00	N/A	N/A	003

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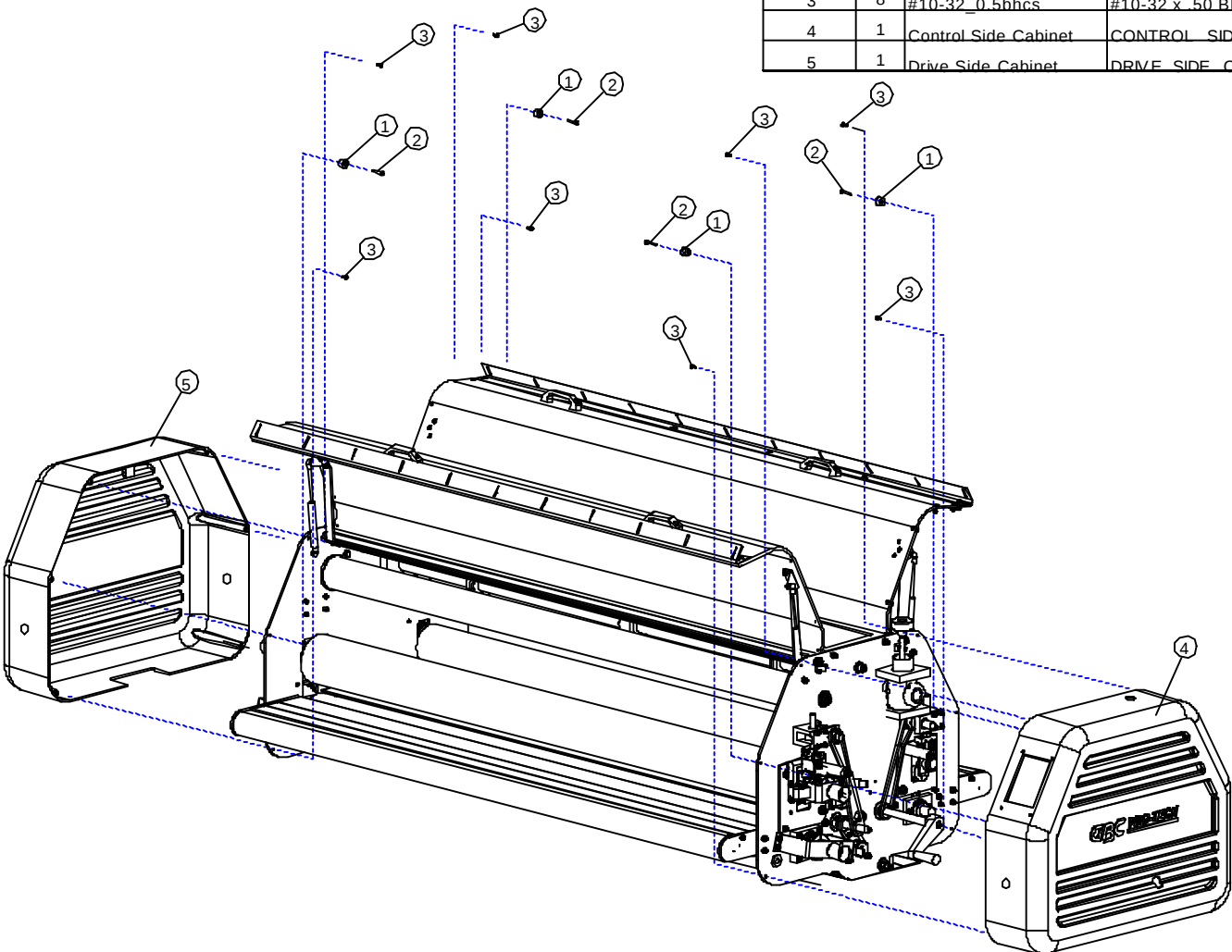
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	585-084	GUARD, ROLL, F160
2	2	465-037	HANDLE, NYLON, BLACK
3	4	10-32_1.0shcs	#10-32 x 1.0 SHCS
4	4	10washer	#10 FLAT WASHER
5	10	10-32lock_nut	#10-32 NYLOCK
6	1	595-017	GUIDE, INFEED, F160
7	6	1.4-20_0.75bhcs	1/4-20 x .75 BHCS
8	6	1.4-20_Nylock	1/4-20 HEX NUT
9	1	695-003	SHAFT, GUARD PIVOT, EXTRUDED
10	9	1.4-20_0.5bhcs	1/4-20 x .50 BHCS
11	11	050-001	T-NUT, 1/4-20_3382
12	2	100-033	BRACKET, GAS SPRING, GUARD, F160
13	4	100-030	FASTENER,BALL SOCKET FITTING
14	2	089-023	SPRING, GAS
15	2	100-031	FASTENER,BALL STUD
16	2	5.16-18nut	5/16-18 HEX NUT
17	4	090-001	CLIP, SAFETY
18	1	510-336	BRACKET, GUARD SUPPORT, LEFT, F160
19	2	1.4-20_0.375bhcs	1/4-20 x .375 BHCS
20	1	510-337	BRACKET, GUARD SUPPORT, RIGHT, F160
21	6	10-32_0.75bhcs	#10-32 x .75 BHCS
22	1	5.16x1.00_shshoulder	5/16 x 1.00 SOCKET SHOULDER
23	2	068-001	WASHER, PVC, 3/8 ID X 7/8 OD X 1/16 THICK
24	2	040-045	BUSHING, FLANGED, 5/16 X 7/16X 3/8
25	1	640-018	LOCK COLLAR, MODIFIED
26	1	5.16x0.375shshoulder	5/16 x .375 SOCKET SHOULDER
27	1	1.4-20hex_nut	1/4-20 HEX NUT



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UNLESS OTHERWISE SPECIFIED TOLERANCE									
DRW. AS DIMENSIONS	TOL.	FRACTION TO 16	1/16 √						
XXX	±.125								
X	±.050								
XX	±.010								
XXX	±.050	ANGLES ±.10°							
XXXX	±.050								
			GBC Films Group 4151 Anderson Road, DeForest, WI 53532						
			TITLE : Safety shield, pull rolls						
			DATE:	DRAWN BY:	DWG SCALE:	DWG :			
			10/10/00	N/A	N/A	004			

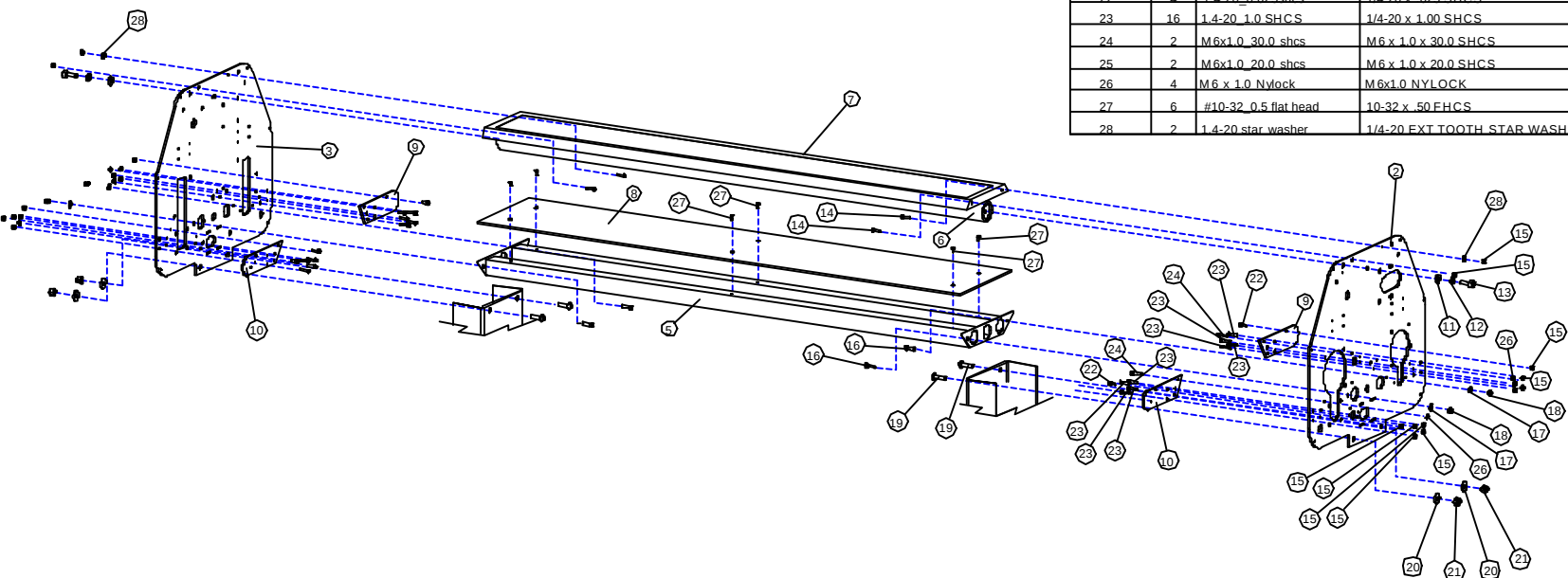
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	4	465-041	BUMPER, GUARD, F160/F110
2	4	#10-32_1.25bhcs	#10-32 x 1.25 BHCS
3	8	#10-32_0.5bhcs	#10-32 x .50 BHCS
4	1	Control Side Cabinet	CONTROL SIDE CABINET
5	1	Drive Side Cabinet	DRIVE SIDE CABINET

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UNLESS OTHERWISE SPECIFIED TOLERANCES:				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
DWG. AS SHOWN	TOL.	FRACTION TO 16	DECIMAL TO 16	TITLE: Cabinets assembly			
XXX	±.124	1/8	✓	DATE:	DRAWN BY:	DWG. SCALE:	DWG. NO.
X	±.000			10/10/00	N/A	N/A	005
XX	±.001						
XXX	±.002						
XXXX	±.005						

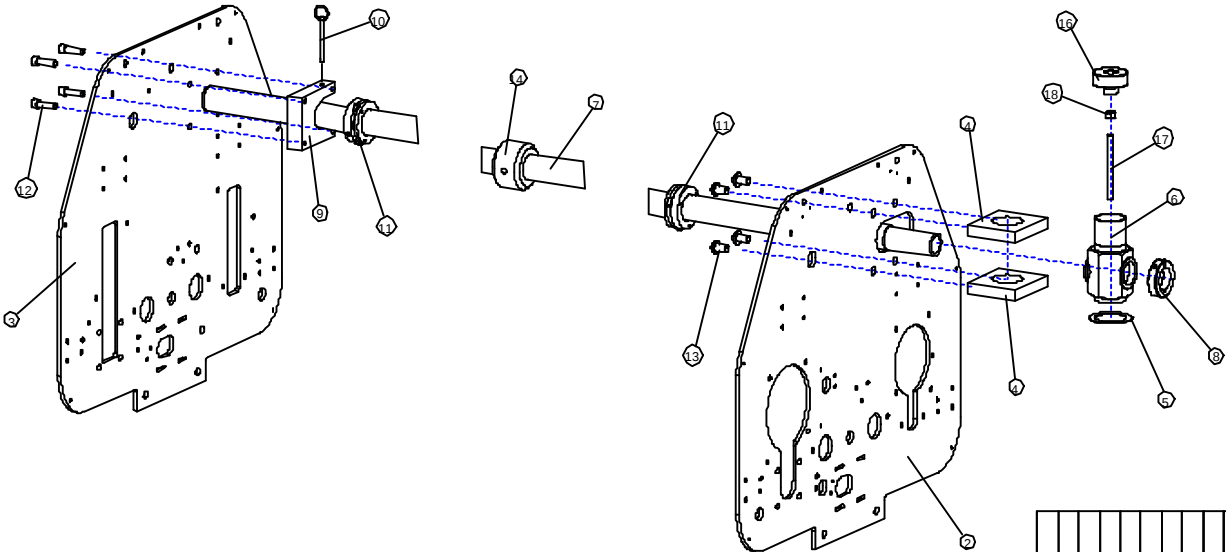
ITEM NO	QTY	PART NO	DESCRIPTION
1	1	F160 Skeleton	
2	1	730-017	SIDEFRAME, RIGHT, F160
3	1	730-018	SIDEFRAME, LEFT, F160
4	1	standAssy	STAND ASSEMBLY
5	1	760-063	TABLE, MIDDLE, F160
6	1	770-012	TIE BAR, F160
7	1	585-083	GUARD, TOP, F160
8	1	545-020	COVER, MIDDLE TABLE, F160
9	2	510-340	BRACKET, TABLE, REAR, F160/F110
10	2	510-319	BRACKET, TABLE, F160
11	2	1/2 flat washer	1/2 FLAT WASHER
12	2	1/2 lock washer	1/2 LOCK WASHER
13	2	1/2-13 1.25shcs	1/2-13 x 1.25 SHCS
14	4	1/4-20 1.0bhcs	1/4-20 x 1.0 BHCS
15	24	1/4-20 Nylock	1/4-20 HEX NUT
16	4	5/16-18 1.0shcs	5/16-18 x 1.00 SHCS
17	4	5/16 FLAT WASHER	5/16 FLAT WASHER
18	4	5/16-18 nylock	5/16-18 NYLOCK
19	4	1/2-13 1.5bhcs	1/2-13 x 1.5 BHCS
20	4	7/16 FLATWASHER	7/16 FLAT WASHER
21	4	1/2-13 Nylock	1/2-13 NYLOCK
22	4	1/4-20 0.625shcs	1/4-20 x .625 SHCS
23	16	1/4-20 1.0 SHCS	1/4-20 x 1.00 SHCS
24	2	M6x1.0 30.0 shcs	M6 x 1.0 x 30.0 SHCS
25	2	M6x1.0 20.0 shcs	M6 x 1.0 x 20.0 SHCS
26	4	M6 x 1.0 Nylock	M6x1.0 NYLOCK
27	6	#10-32 0.5 flat head	10-32 x .50 FHCS
28	2	1/4-20 star washer	1/4-20 EXT TOOTH STAR WASHER



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FRAMES BROWNS	TOL.	TITLE: Side frame assembly	
FRAMES BROWNS	TOL.	DATE: 10/10/00	
FRAMES BROWNS	TOL.	DRAWN BY: N/A	
FRAMES BROWNS	TOL.	PWO SCALE: N/A	
FRAMES BROWNS	TOL.	DWG: 006	

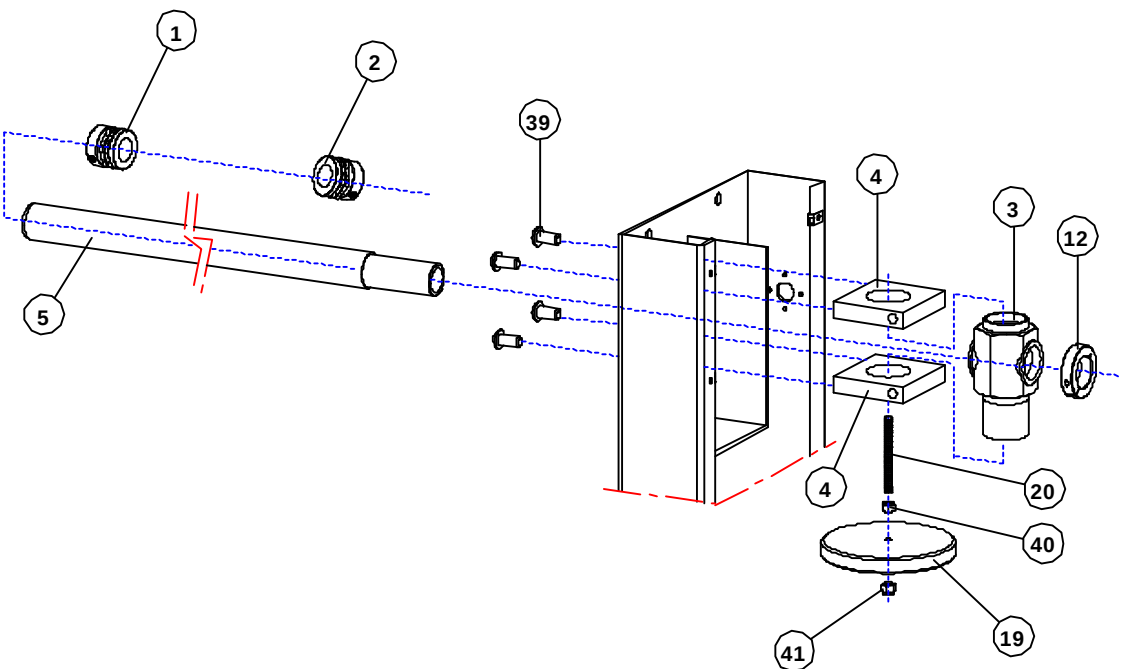
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	F160 Skeleton	
2	1	730-017	SIDEFRAME, RIGHT, F160
3	1	730-018	SIDEFRAME, LEFT, F160
4	2	510-223	CLEVIS, UNWIND
5	1	032-230	THRUST WASHER, TRA-3244
6	1	001-563	ASSEMBLY, BRAKE, TOP UNWIND, F160
7	1	710-108	SHAFT, UNWIND, UPPER, F160
8	1	290-660	LOCK COLLAR, 1-1/2 X 12, STEEL
9	1	700-009	SADDLE, FRONT, DS-60
10	1	086-100	CLEVIS PIN
11	2	001-510	ASSEMBLY, CORE CHUCK,BEVELED, F60
12	4	3.8x1.25shcs	3/8-16 X 1.25 SHCS
13	4	1/2-13_0.75bhcs	1/2-13 X .75 BHCS
14	1	530-022	SUPPORT, CORE
15	1	3-8x.38brass tip SETSCREW	3/8 X .38 BRASS TIP SET SCREW
16	1	465-026	KNOB, PLASTIC, 3/8-16 FEMALE THREAD
17	1	645-029	STUD, 3/8-16 X 4-1/4", BRAKE ADJUST, F160
18	1	3/8-16 Nut	3/8-16 NUT



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TOLERANCE					4151 Anderson Road, DeForest, WI 53532				
DIM. ALL DIMENSIONS					TITLE :				
TOL.					Upper unwind assembly				
FRACTION TO BE					DATE:				
X .001					10/10/00				
X .002					DRAWN BY:				
X .003					N/A				
X .004					DWG SCALE:				
X .005					N/A				
X .006					DWG:				
X .007					007				

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QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	CORE GRIPPER	001 - 601	1
1	CORE GRIPPER W/ O-RING	001 - 602	2
1	ASSEMBLY, BRAKE, UNWIND, F160	001-563	3
2	CLEVIS, UNWIND	510-223	4
1	SHAFT, UNWIND, LOWER, F160	710-107	5
1	LOCK COLLAR, 1-1/2 X 12, STEEL	290-660	12
1	UNWIND DIAL, DS-60	625-018	19
1	STUD, 3/8-16 X 3.3	645-024	20
4	BUTTON HEAD CAP SCREW	BHCS12-13 x 16	39
1	HEX NUT	38-16 Nut	40
1	HEX LOCK NUT	38-16 Lock Nut	41

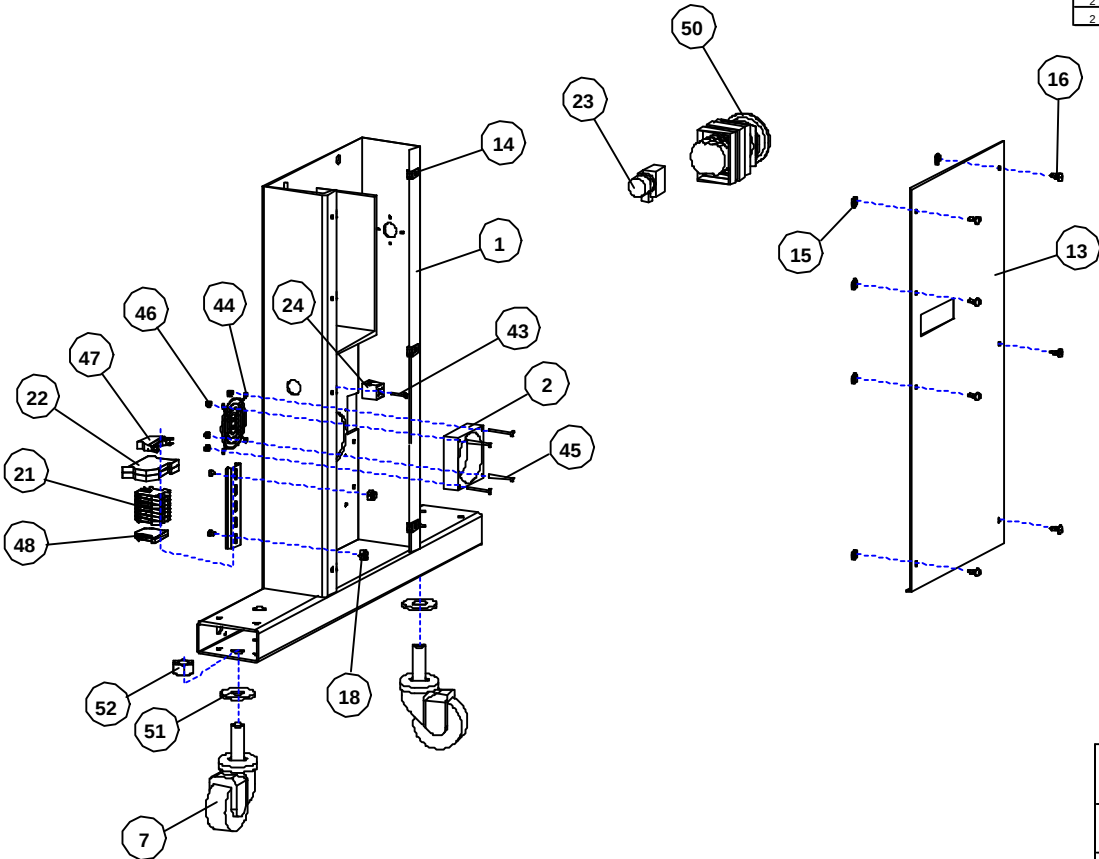


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FIN. AS	TOL.	FINISH	GBC Films Group 4151 Anderson Road, DeForest, WI 53532								
INCHES		TO IN									
XX	$\pm .001$	$1/4 \sqrt{}$									
X	$\pm .002$										
XX	$\pm .010$										
XXX	$\pm .020$		TITLE: Lower unwind assembly								
XXXX	$\pm .040$		DATE: 10/10/00	DRAWN BY: N/A	DWG SCALE: N/A	DWG: 008					

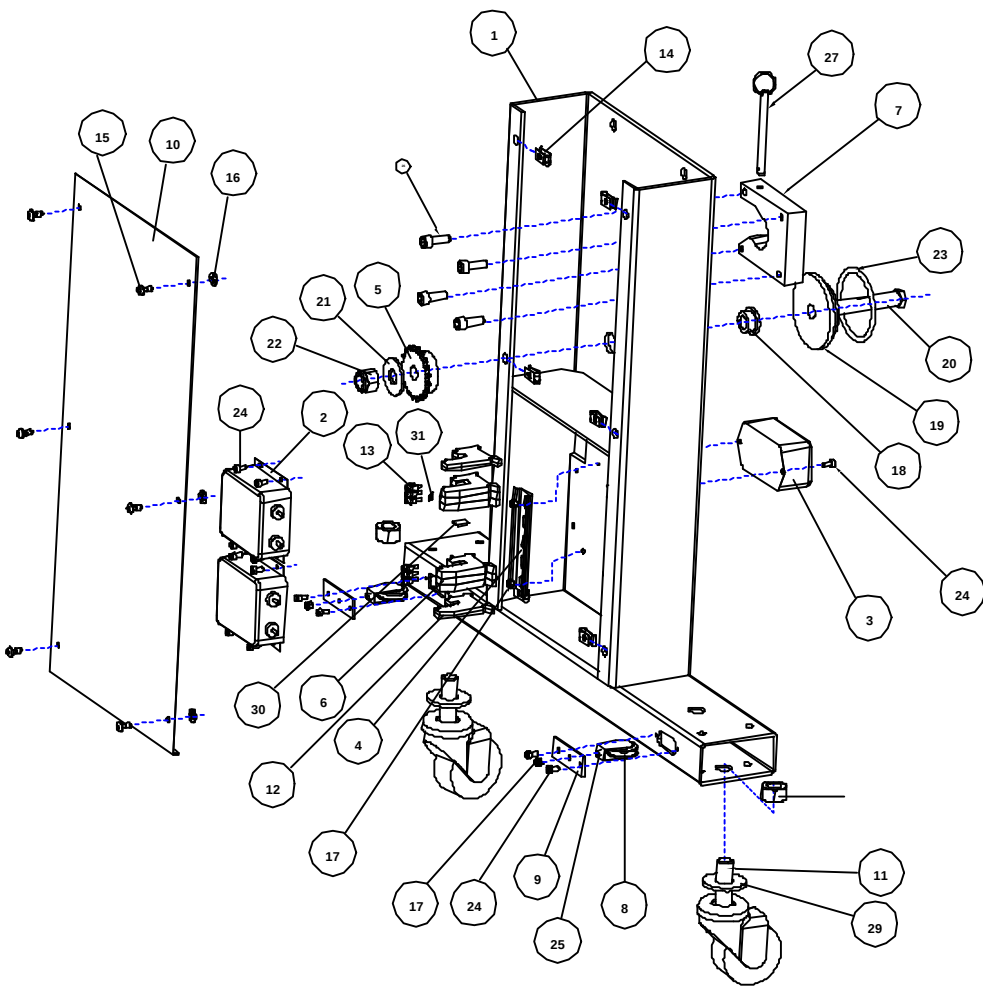
QTY.	DESCRIPTION	PARTNO.	ITEMNO.
1	STAND,RIGHT,F-160	757-034	1
1	FAN,MUFFIN, 3", 24 V DC	182-000	2
2	WHEEL,CASTOR	470-130	7
1	DINRAIL,5SL0T	5slot	8
1	COVER,ENCLOSURE,RIGHTSTAND,F-160	757-038	13
7	CLIP,RECPTACLE,CLIP-ON	100-037	14
7	RETAINER,CAPTIVESCREW,MED	100-039	15
7	SCREW,CAPTIVE,PHILLIPS,MED	100-038	16
1	HEXLOCKNUT	516-18 HexLockNut	18
7	TERMINAL UK 5N PHOENIX30 04 36 2	217-045	21
2	TERMBLOCK,FUSING,PHOENIXUK5-HES1	217-101	22
1	SWITCH, RESET, 22MMSINGLE TERM,SEIMENS	214-008	23
1	TERMINALBLOCK,2POSITION	217-043	24
2	BUTTONHEADCAPSCREW	BHCS10-32 x04	42
1	SOCKETHEADCAPSCREW	SHCS06-32 x14	43
1	GUARD, MUFFIN FAN, 3"	182-012	44
4	SOCKETHEADCAPSCREW	PHS 06-32 x 24	45
4	LOCKNUT	6-32 LockNut	46
1	RAILEND	217-170	47
1	TERMINAL UK 5N PHOENIX30 04 36 2	217-014	48
1	SWITCH,POWERON/OFF,3LC3047-3TE53	214-029	50
2	FLATWASHER	34FlatWasher	51
2	HEXNUT	34-10 Hex Nut	52

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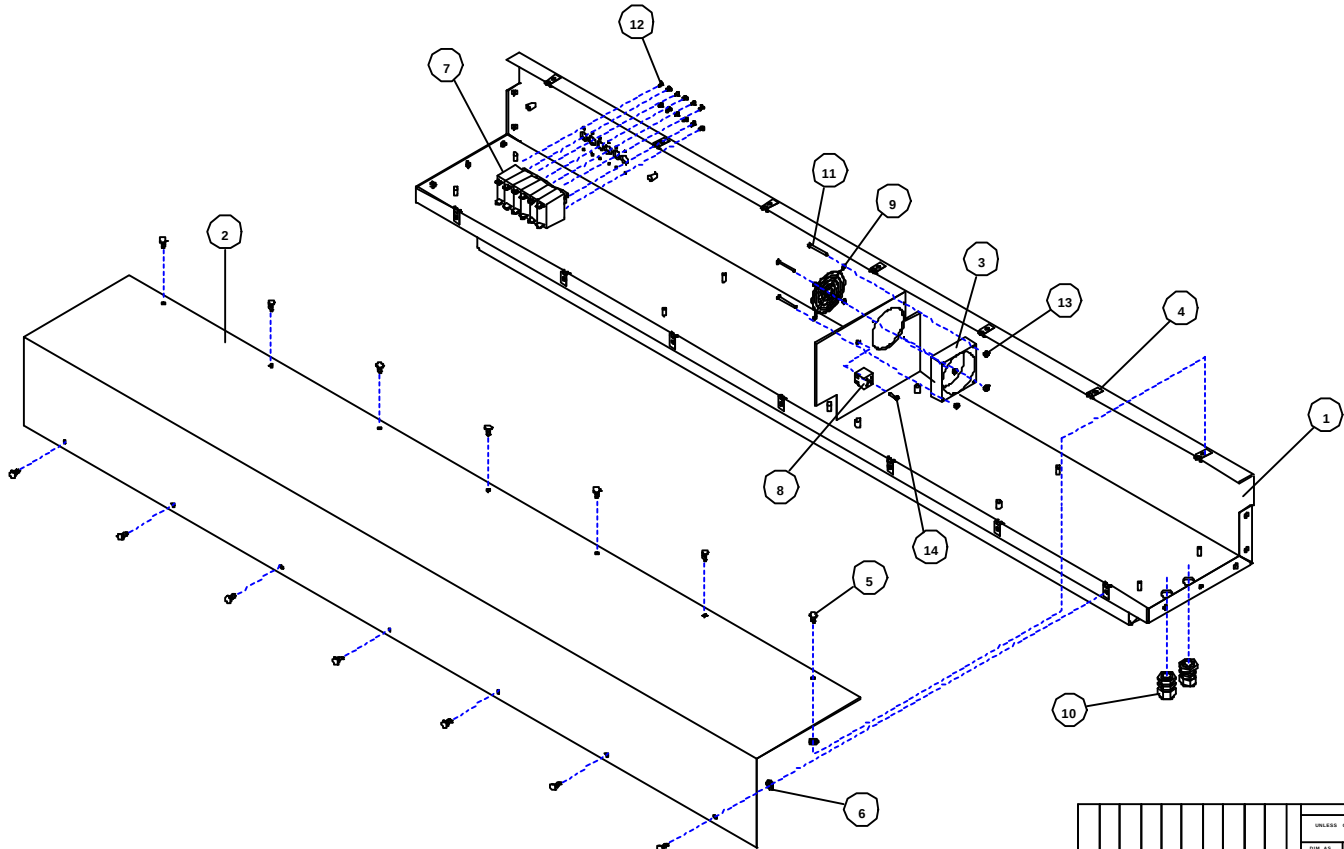
UNLESS OTHERWISE SPECIFIED TOLERANCES									
SIZE	AS SHOWN	TOL.	FINISH	TO BE	GBC Films Group 4151 Anderson Road, DeForest, WI 53532				
XXX	XXX	±.184	XXX	XXX	TITLE : Right stand assembly				
XXX	XXX	±.050	XXX	XXX	DATE:	DRAWN BY:	DWG SCALE:	DWG :	009
XXX	XXX	±.010	XXX	XXX	10/10/00	N/A	N/A		
XXX	XXX	±.020	XXX	XXX					
XXX	XXX	±.005	XXX	XXX					

QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	STAND, LEFT, F-160	757-035	1
2	FILTER, LINE, RF1	185-033	2
1	FILTER, 120/250VAC50/60HZ6A	185-003	3
1	DINRAIL, 5SL0T	5slot	4
1	SPROCKET, 35BS20X5/8	435-175	5
6	TERMINALBLOCK, RETURN	217-102	6
1	SADDLE, FRONT, DS-60	700-009	7
2	PULLEY, 3/18DIACABLE	430-011	8
2	PLATE, MOUNTING, PULLEY, KICKCABLE, F-160	672-043	9
1	COVER, ENCLOSURE, LEFT STAND, F-160	757-039	10
2	WHEEL, CASTOR	470-130	11
2	TERMINALBLOCK, GROUND, UK10-RETURN-PE	217-104	12
6	BRIDGEBAR, FIXED, 8.2mm, FBI10-8	217-041	13
6	CLIP, RECPTACLE, CLIP-ON	100-037	14
7	SCREW, CAPTIVE, PHILLIPS, MED	100-038	15
6	RETAINER, CAPTIVESCREW, MED	100-039	16
4	LOCKNUT	10-32 LockNut	17
1	BUSHING, MODIFIED, LOWER REWIND, F160	500-014	18
1	PLUG, CLUTCHDRIVE	x92-0111	19
1	BOLT, CLUTCHDRIVE	M8-1.25	20
1	5/8FLATWASHER	58FLATWASHER	21
1	5/8-11NYLOCK	58-11Nylock	22
1	O-RING, 90 CASTURETHANE, 2-7/8ID	480-005	23
14	SOCKETHEADCAPSCREW	SHCS10-32 x06	24
2	BUTTONHEADCAPSCREW	BHCS14-20 x04	25
4	SOCKETHEADCAPSCREW	SHCS38-16-16	26
1	PIN, QUICKRELEASE, 5/16X3-1/2, STEEL	086-005	27
2	HEXNUT	34-10 Hex Nut	28
2	FLATWASHER	34FlatWasher	29
1	SEPARATINGPLATE, UK10RETURN, TS-U3K2.5	217-107	30
1	LABEL, TERMINAL, L1L2L3 NPE, ZB8	217-106	31



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SECTION			UNLESS OTHERWISE SPECIFIED TOLERANCE			GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
			SIZE: AS SHOWN	TOL:	FINISH: TO BE	TITLE : Left stand assembly					
			AK	+1/64							
			X	+0.00							
			AK	+0.00							
			XXX	+0.00	ANODE						
			XXXX	+0.00							
			DATE: 10/10/00			DRAWN BY: N/A		DWG SCALE: N/A		DWG: 010	

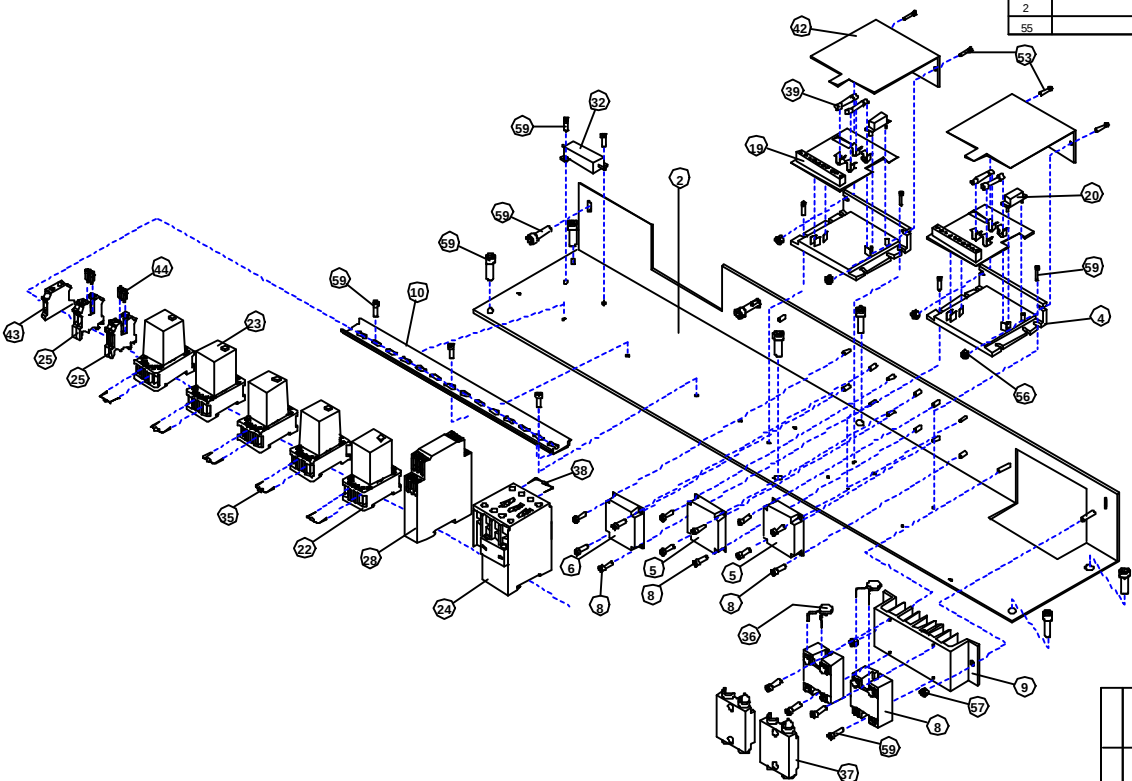
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	ENCLOSURE,ELECTRICAL,BRIDGE,F-160	757-036	1
1	COVER,ENCLOSURE,ELEC,F-160	670-050	2
1	FAN, MUFFIN, 3", 24 V DC	182-000	3
14	CLIP,RECPTACLE,CLIP-ON	100-036	4
14	SCREW,CAPTIVE,PHILLIPS,MED	100-038	5
14	RETAINER,CAPTIVE SCREW,MED	100-039	6
1	CIRCUIT BREAKER,6 POLE 25,25,25,25,3,3	186-028	7
1	TERMINAL BLOCK, 2 POSITION	217-043	8
1	GUARD, MUFFIN FAN, 3"	182-012	9
2	STRAIN RELIEF, 1/2"	175-180	10
4	SOCKET HEAD CAP SCREW	PHS 06-32 x 24	11
12	BUTTON HEAD CAP SCREW	BHCS06-32-04	12
4	LOCK NUT	6-32 Lock Nut	13
55	SOCKET HEAD CAP SCREW	SHCS51618-16	14



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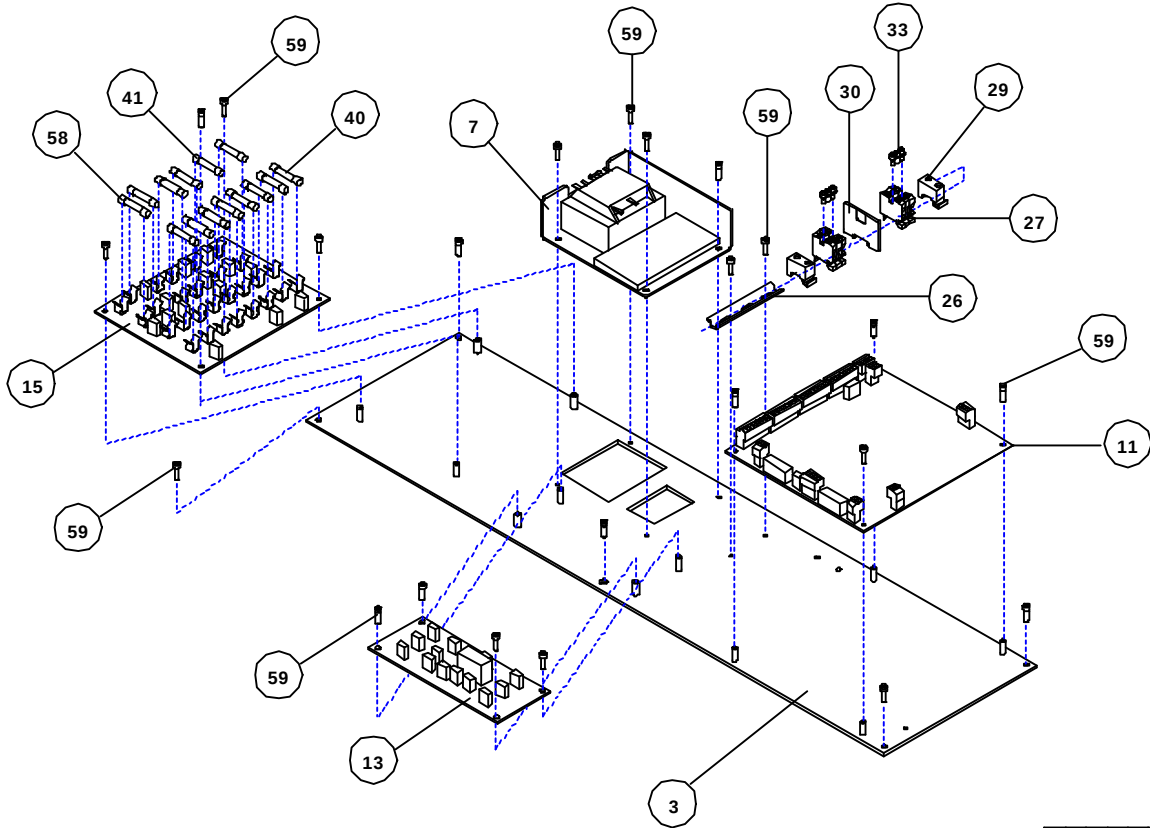
UNLESS OTHERWISE SPECIFIED TOLERANCES											
DIM. AS SHOWN			TOL.			FINISH TO BE			GBC Films Group 4151 Anderson Road, DeForest, WI 53532		
.010			±.184			√			TITLE : Bridge assembly		
.015			±.250			DATE: 10/10/00			DRAWN BY: N/A		
.020			±.310			DWG SCALE: N/A			DWG : 011		
.030			±.370								
.040			±.430								
.050			±.490								

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SECTION	UNLESS OTHERWISE SPECIFIED TOLERANCE		FINISH TO BE	TITLE : Left electrical panel		
	DIM. AS SHOWN	TOL.				
	DIA. $\pm .0005$	1.24 $\sqrt{\quad}$				
	R $\pm .0005$					
	R1 $\pm .0005$					
	R2 $\pm .0005$					
R3 $\pm .0005$						
	DIA. $\pm .0005$	FINISH TO BE	DATE:	DRAWN BY:	DWG SCALE:	DWG:
	DIA. $\pm .0005$		10/10/00	N/A	N/A	012

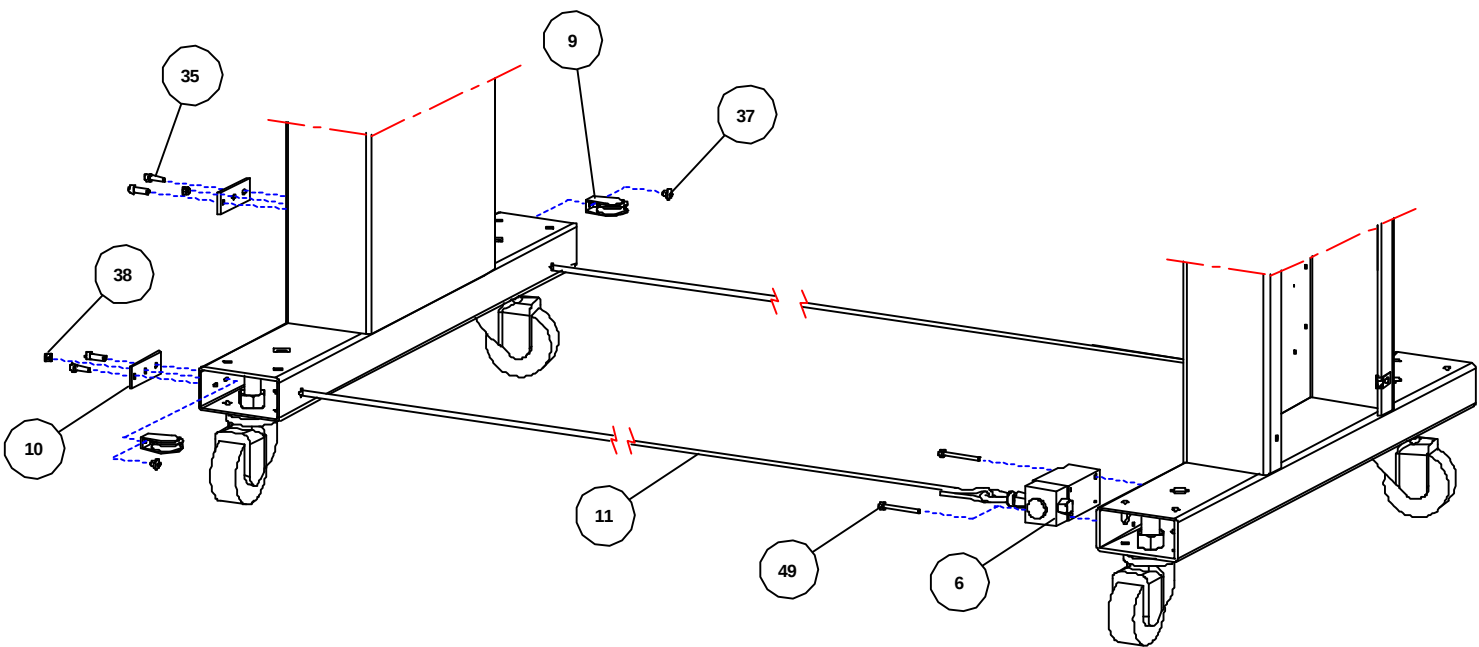
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	PANEL,ELECTRICAL,F-160 CE	670-049	3
1	POWER SUPPLY, 24 VOLT, 1.2 AMP	245-205	7
1	ASS. F160 IO BOARD	001-574	11
1	ASSEMBLY FOR F160 DC BUS BOARD,EUROPEAN	001-596	13
1	Assembly for f160 CE AC BUS PCB	001-594	15
1	DIN RAIL	3 slot	26
6	TERMINAL BLOCK,MBK 2.5/E,PHOENIX	185-022	27
2	END BARRIER,E/MK2,PHOENIX	185-020	29
1	PARTITION PLATE,MINI TERM,ATP-MBK	217-042	30
6	BRIDGE BAR,FIXED,TERM BLK,10 POS,(FBRNI 10-5N)	217-021	33
2	FUSE	186-016	40
6	FUSE	186-027	41
6	FUSE	186-030	58
55	SOCKET HEAD CAP SCREW	SHCS51618-16	59



UNLESS OTHERWISE SPECIFIED TOLERANCES				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
DIM. AS SHOWN	TOL.	FRACTION TO BE	DECIMAL TO BE	TITLE: Right electrical panel			
XX	$\pm .004$			DATE:	DRAWN BY:	DWG SCALE:	DWG:
X	$\pm .010$			10/10/00	N/A	N/A	013
XX	$\pm .010$						
XXX	$\pm .020$						
XXXX	$\pm .030$						

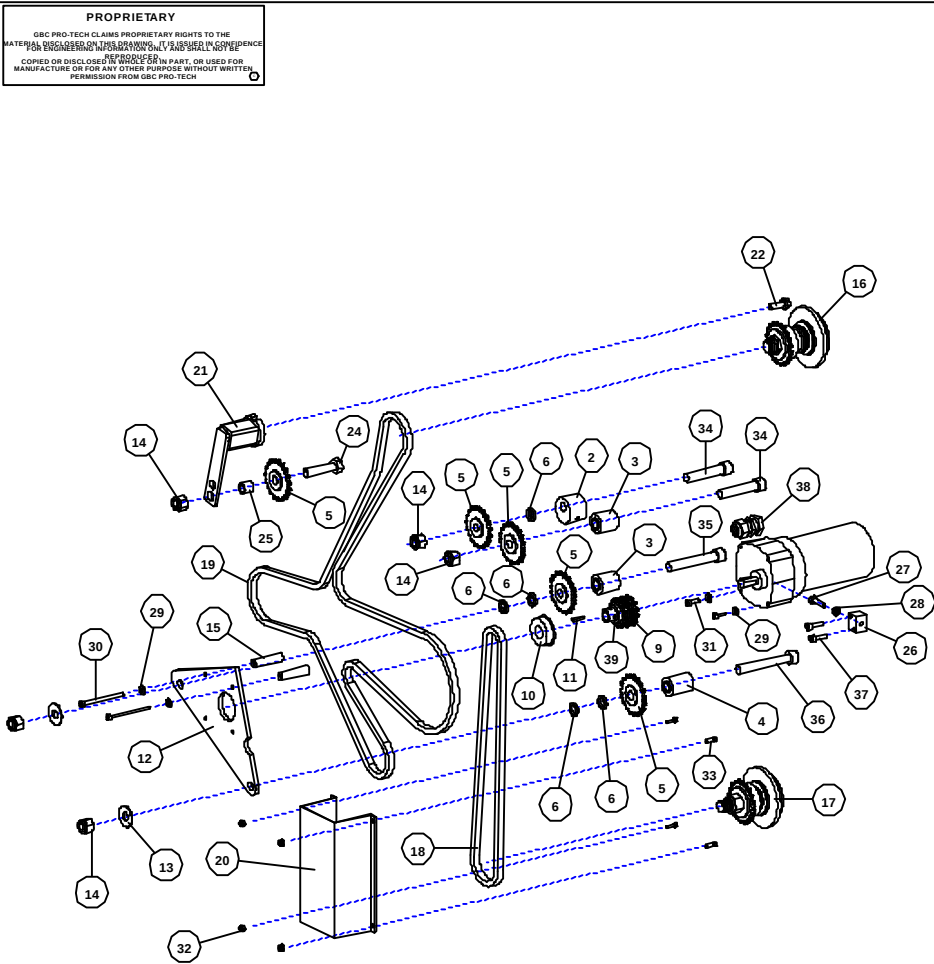
QTY.	DESCRIPTION	PART NO.	ITEM NO.
1	SWITCH,SAFETY,CABLE PULL,CLSB4A2	214-028	6
2	PULLEY,3/18 DIA CABLE	430-011	9
2	PLATE,MOUNTING,PULLEY,KICK CABLE,F-160	672-043	10
1	CABLE,SAFETY,KICK SWITCH	780-011	11
5	SOCKET HEAD CAP SCREW	SHCS51618-16	35
2	BUTTON HEAD CAP SCREW	BHCS14-20 x 04	37
2	LOCK NUT	10-32 Lock Nut	38
2	SOCKET HEAD CAP SCREW	SHCS10-32 x 28	49

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DIM. AS SHOWN			TOL.	FINISH					
FRA			±1/64	11.7					
X			±.000						
XX			±.010						
XXX			±.030	MILL					
XXXX			±.050	IN					
TITLE :				Kick cable assembly					
DATE:				DRAWN BY:		DWG SCALE:		DWG :	
10/10/00				N/A		N/A		014	

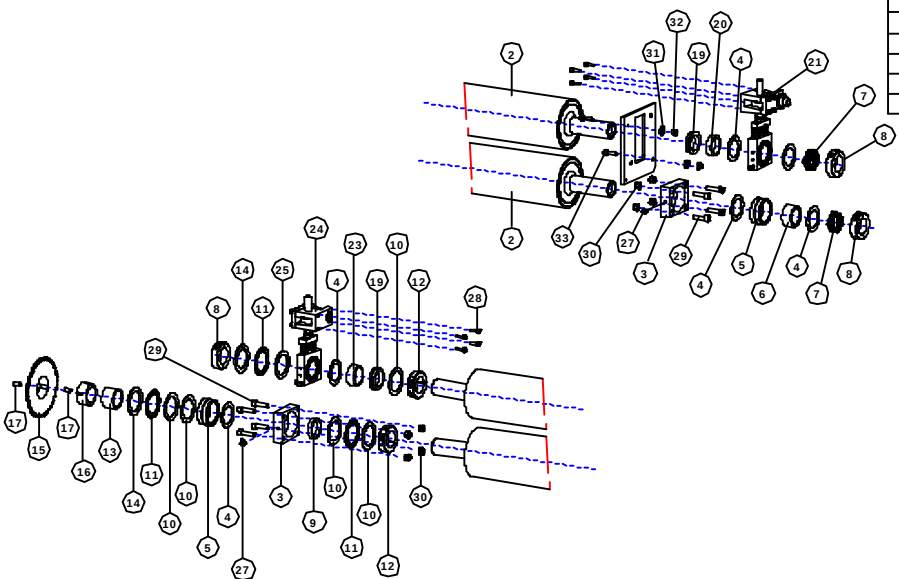
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	F160 Skeleton	
2	1	525-010	ECCEMTRIC CHAIN TENSION F160
3	2	755-077	STANDOFF IDLER SPROCKET
4	1	755-078	STANDOFF IDLER SPROCKET LOWER
5	5	440-130	IDLER SPROCKET
6	5	068-100	SHIM 1/2 X 3/4 X .125 THICK
8	1	425-004	MOTOR GFAR 1/10HP BISON
9	1	750-008	SPROCKET TRIPLE 13T MOD
10	1	020-009	BEARING BALL SEALED
11	1	1-8x3-4 key	1/8 x 1/8 x 3/4 KEY
12	1	672-042	PLATE SUPPORT DRIVE F-160
13	2	716 FLATWASHER	7/16 FLAT WASHER
14	5	1-2-13 NYlock	1/2-13 NYLOCK
15	2	755-082	SPACER DRIVE SUPPORT PLATE F160
16	1	upper rewind drive	UPPER REWIND DRIVE
17	1	lower rewind drive	LOWER REWIND DRIVE
18	1	570-016	CHAIN BOTTOM REWIND DRIVE F160
19	1	570-008	CHAIN DRIVE F160
20	1	545-026	COVER REWIND CHAIN F160
21	1	440-150	TENSIONER SE-15
22	1	M8x1.25_25_hex_screw	M8 x 1.25 x 25mm HEX SCREW
23	1	M8 lock washer	M8 LOCK WASHER
24	1	1-2-13_32_hex_bolt	1/2-13 x 13/32 HEX BOLT
25	1	5idx625odx625washer	1/5ID x 1/625OD x 63 WASHER
26	1	501-046	BLOCK CHAIN TENSION F160
27	1	1-4-20_1_0_hex_bolt	1/4-20 x 1.00 HEX BOLT
28	1	1-4-20 jam nut	1/4-20 JAM NUT
29	4	#10 flat washer	#10 FLAT WASHER
30	2	#10-32_2_75shcs	#10-32 x 2.75 SHCS
31	2	#10-32_0.625shcs	#10-32 x .625 SHCS
32	4	#6-32 NYlock	#6-32 NYLOCK
33	4	#6-32_0.5shcs	#6-32 x .50 SHCS
34	2	1-2-13 x 2.5 SHCS	1/2-13 x 2.5 SHCS
35	1	1-2-13 x 3.25 SHCS	1/2-13 x 3.25 SHCS
36	1	1-2-13 x 3.5 SHCS	1/2-13 x 3.5 SHCS
37	2	1-4-20x .75shcs	1/4-20 x .75 SHCS
38	1	175-180	STRAIN RELIEF 1/2"
39	2		#10-32 x 3/16 SS SET SCREW



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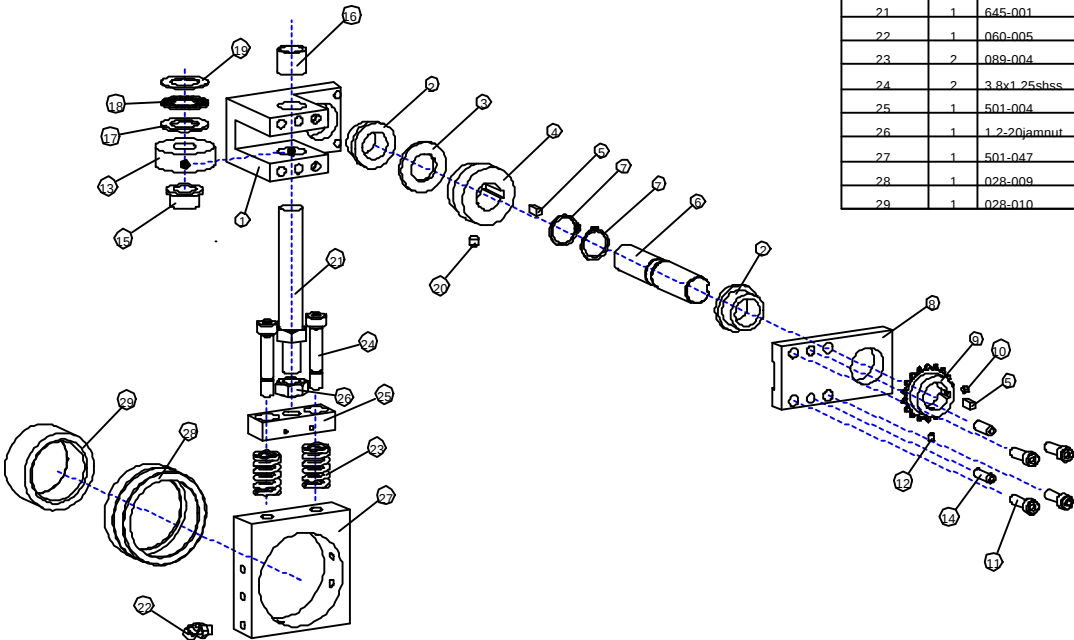
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UNLESS OTHERWISE SPECIFIED TOLERANCES											
DIM. AS SHOWN			FRACTIONS TO 32			GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
X			1/16			TITLE : Drive assembly					
X			1/32			DATE : 10/10/00					
X			1/64			DRAWN BY : N/A					
X			1/128			DWG SCALE : N/A					
X			1/256			DWG : 015					
XXX			1/512								
XXXX			1/1024								

ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	F160 Skeleton	
2	2	690-071	ROLL MAIN F160 375 WALL
3	2	501-043	BLOCK MAIN BEARING BOTTOM F160
4	6	032-009	THRUST WASHER TRA 2840
5	2	028-009	BEARING ROLLER OUTER 1.625 X 2.562
6	1	028-010	BEARING INNER RACE 1.625 X 2.562
7	2	089-006	WAVE SPRING 1-5/8 C200-H2
8	3	290-001	LOCK COLLAR 1-5/8 STEEL
9	1	500-020	BUSHING MOD 1.62 DIA X L
10	5	032-230	THRUST WASHER TRA-3244
11	3	032-017	THRUST BEARING NTA3244
12	2	290-960	LOCK COLLAR 1-5/8 SPLIT STEEL
13	1	028-001	NEEDLE BEARING INNER RACE
14	2	032-016	THRUST WASHER TRD3244
15	1	435-018	SPROCKET 48T 1-5/8 BORE TAPER BUSHED #35 SNGI
16	1	435-015	SPROCKET BUSHING 1610-1 5/8
17	2	3-8-16x.63SETSCREW	3/8-16 x .63 SET SCREW
18	1	672-025	PLATE SIDEFRAME MAIN ROLL F160
19	2	500-001	BUSHING MODIFIED 1-5/8 X 1-1/4
20	1	500-017	BUSHING MOD 1-5/8 ID X .531
21	1	main roll lift right moving lower unit	MAIN ROLL LIFT CONTROL MOVING
22	1	main roll lift right	MAIN ROLL LIFT CONTROL
23	1	500-018	BUSHING MOD 1-5/8 ID X .781
24	1	main roll lift left moving lower	MAIN ROLL LIFT MOTOR MOVING
25	1	032-015	THRUST WASHER TRC3244
26	1	main roll lift left	MAIN ROLL LIFT MOTOR
27	2	060-005	FITTING GREASE 1/4-28 TAPER 90 DEG 1095K47
28	8	1-4-20x.76shcs	1/4-20 x .76 SHCS
29	8	3-8-16_1.375shcs	3/8-16 x 1.375 SHCS
30	8	38-16 Lock Nut	3/8-16 NYLOCK
31	2	516 FLATWASHER	5/16 FLAT WASHER
32	2	5-16-18 nylock	5/16-18 NYLOCK
33	2	5-16-18_1.0shcs	5/16-18 x 1.00 SHCS



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UNLESS OTHERWISE SPECIFIED TOLERANCE					GBC Films Group 4151 Anderson Road, DeForest, WI 53532				
DIMENSION	DIM AS SHOWN	FIL.	FINISH TO AS	$1/2\sqrt{}$	TITLE : Main roller assembly				
	XX	±.004							
	X	±.005							
	XX	±.010							
	XXX	±.020							
	XXXX	±.030							
ANNOLED $1/2\sqrt{}$					DATE :	DRAWN BY :	DWG SCALE :	DWG :	
					10/10/00	N/A	N/A	016	

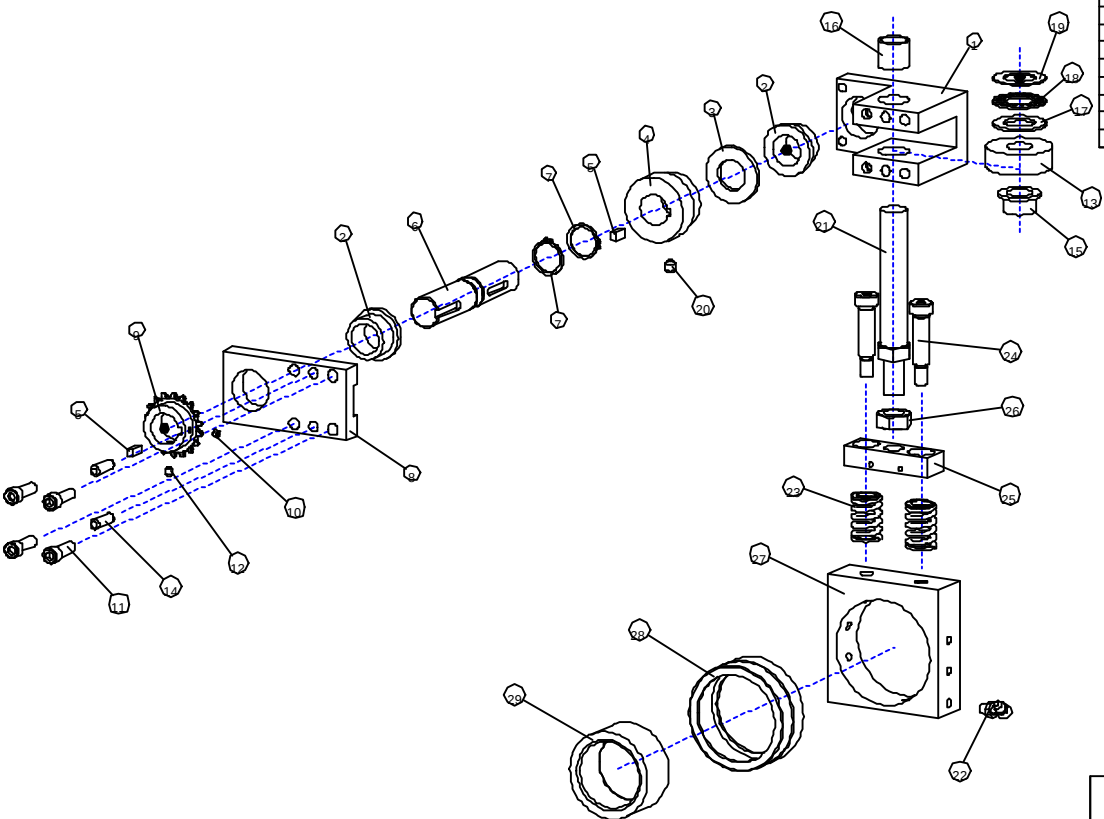
ITEM NO	QTY	PART NO.	DESCRIPTION
1	1	501-040	BLOCK_GEAR PULL ROLL
2	2	040-008	BUSHING_BRONZE FLANGED
3	1	032-002	THRUST WASHER_TRB-1220
4	1	430-006	GEAR_HELICAL W/SET SC
5	2	316x12key	3/16 x 3/16 x 3/8 KEY
6	1	710-104	SHAFT_HELIX GEAR PULL ROLL LIFT
7	2	090-135	SPRING CLIP_5100-75
8	1	501-041	BLOCK_SUPPORT PULL ROLL
9	1	435-020	SPROCKET_18T_#25_3/16X3/32 KEYWAY
10	1	8-32x1.16CUP SET SCREW	8-32 x 1/16 CUP SET SCREW
11	4	1.4-20x.75shcs	1/4 -20 x .75 SHCS
12	1	8-32x3.16CUP SET SCREW	8-32 x 3/16 CUP SET SCREW
13	1	570-003	GEAR_Heli_MODIFIED
14	2	095-160	DOWEL PIN_1/4 X 3/4
15	1	500-019	BUSHING_MOD
16	1	040-054	BUSHING B1012-5
17	1	032-175	THRUST WASHER_TRB-1220
18	1	032-292	THRUST BEARING_NTA-1220
19	1	032-291	THRUST WASHER_TRA-1220
20	1	1-4-20x4.16SET SCREW	1/4-20 x 1/4 SET SCREW
21	1	645-001	SCREW_ACMF_MODIFIED
22	1	060-005	FITTING_GRFASE TAPERED
23	2	089-004	COMPRESSION SPRING
24	2	3.8x1.25shss	3/8-16 x 1.25 SOCKET SHOULDER SCREW
25	1	501-004	BLOCK_BEARING PLATE SPRING
26	1	1-2-20jamnut	1/2-20 JAM NUT
27	1	501-047	BLOCK_MAIN BEARING_UPPER F160
28	1	028-009	BEARING_ROLLER OUTER
29	1	028-010	BEARING_INNER RACE



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TOLERANCES				4151 Anderson Road, DeForest, WI 53532							
DIM./AS				TOL.				TITLE:			
SIZES				FRACTION				Main roller lift - control side			
XXX				±.184							
X				±.050							
XX				±.010							
XXX				±.005							
ANGLES				°				DATE:			
								10/10/00			
								DRAWN BY:			
								DWG SCALE:			
								DWG:			
								017			

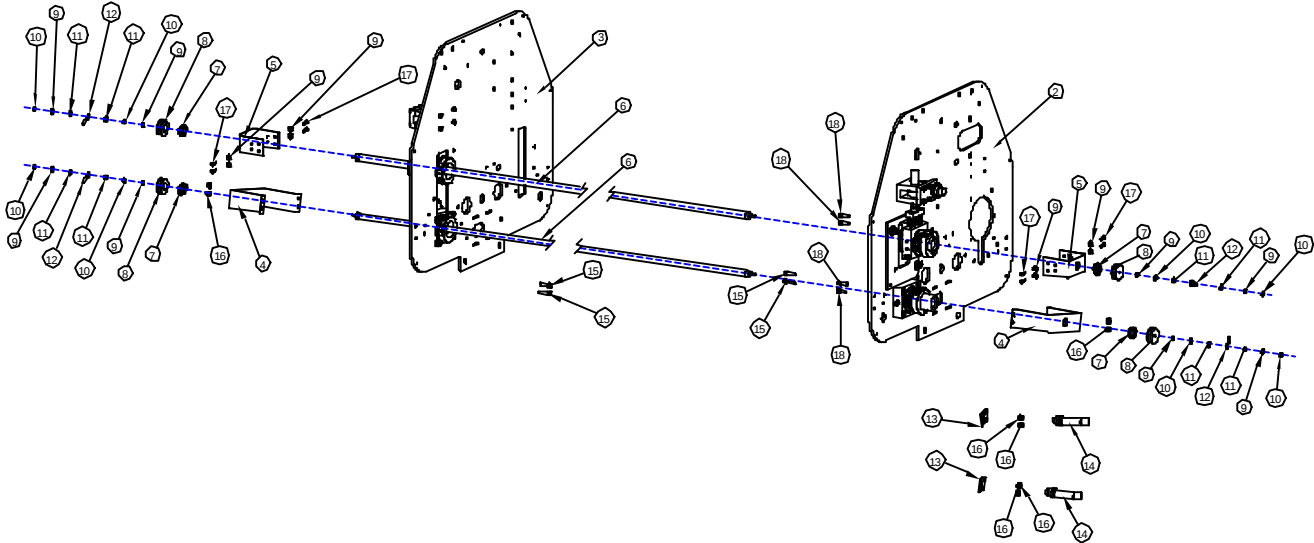
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	501-040	BLOCK GEAR PULL ROLL
2	2	040-008	BUSHING BRONZE FLANGED
3	1	032-002	THRUST WASHER TR-1220
4	1	430-006	GEAR HELICAL W/SETSC
5	2	316x12key	3/19x3/16 x3/8 KEY
6	1	710-104	SHAFT HELIX GEAR PULL ROLL IET
7	2	090-135	SPRING CLIP 5100-75
8	1	501-041	BLOCK SUPPORT PULL ROLL
9	1	435-020	SPROCKET 18T #25.3/16X3/32 KEYWAY
10	1	8-32x1.16 CUPSET SCREW	8-32x1.16 CUPSET SCREW
11	4	1/4-20x.75 shcs	1/4-20x.75 SHCS
12	1	8-32x3.16 CUPSET SCREW	8-32x3.16 CUPSET SCREW
13	1	570-003	GEAR HELI MODIFIED
14	2	095-160	DOWEL PIN 1/4X 3/4
15	1	500-019	BUSHING MOD
16	1	040-054	BUSHING B1012-5
17	1	032-175	THRUST WASHER TRB-1220
18	1	032-292	THRUST BEARING NTA-1220
19	1	032-291	THRUST WASHER TRA-1220
20	1	1/4-20x4.16 SETSCREW	1/4-20x1/4 SETSCREW
21	1	645-001	SCREW ACME MODIFIED
22	1	060-005	FITTING GREASE 1/4-28 TAPER 90DEG
23	2	089-004	COMPRESSION SPRING
24	2	3/8x1.25 shss	3/8-16x1.25 SOCKET SHOULDERSCREW
25	1	501-004	BLOCK BEARING PLATESPRING
26	1	1/2-20 jamnut	1/2-20 JAMNUT
27	1	501-047	BLOCK MAIN BEARING UPPER E160
28	1	028-009	BEARING ROLLER OUTER
29	1	028-010	BEARING INNERFACE



UNLESS OTHERWISE SPECIFIED TOLERANCE									
FR. AS SHOWN	TOL.	FRACTION	TO 30	GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
1/16	±.001	1/16	1/16						
1/8	±.001	1/8	1/8						
1/4	±.001	1/4	1/4						
3/8	±.001	3/8	3/8						
1/2	±.001	1/2	1/2	TITLE :					
DATE:				DRAWN BY:		DWG SCALE:		DWG :	
10/10/00				N/A		N/A		018	

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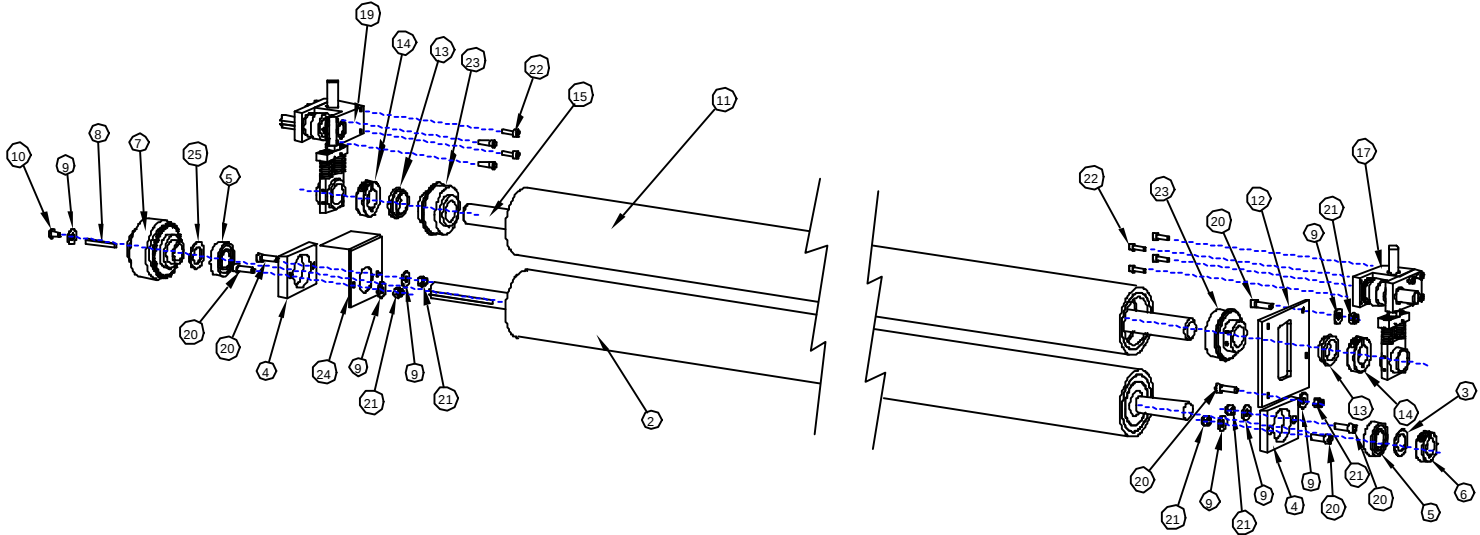
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	main roll	MAIN ROLL
2	1	730-017	SIDEFRAME, RIGHT, F160
3	1	730-018	SIDEFRAME, LEFT, F160
4	2	510-328	BRACKET, HEATER, TUBULAR, BOTTOM, F160
5	2	510-327	BRACKET, HEATER, TUBULAR, TOP, F160
6	2	189-041	HEATER
7	4	089-022	SPRING, HEATER TENSION
8	4	755-061	SPACER, HEATER SPRING
9	16	#10starwasher	#10 STAR WASHER
10	8	#10hex nut	#10-32 HEX NUT
11	8	#10flatwasher	#10 FLAT WASHER
12	4	215-056	RING TONGUE TERMINAL 10-12 DBL CRMP
13	2	510-326	BRACKET, IR SENSOR, F160
14	2	230-006	SENSOR, INFRARED
15	4	1.4-20 1.0 SHCS	1/4-20 x 1.00 SHCS
16	8	1.4-20 Nylock	1/4-20 HEX NUT
17	8	#10-32 0.50shcs	#10-32 x .50 SHCS
18	4	1.4-20x.75shcs	1/4 -20 x .75 SHCS



UNLESS OTHERWISE SPECIFIED TOLERANCES				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
FRAMES	TOL.	FINISH	TO BE	TITLE :			
XXX	±.04	✓	✓	Heater assembly			
XX	±.05			DATE:	DRAWN BY:	DWG SCALE:	DWG :
XXX	±.05			10/10/00	N/A	N/A	019
XXXX	±.05						

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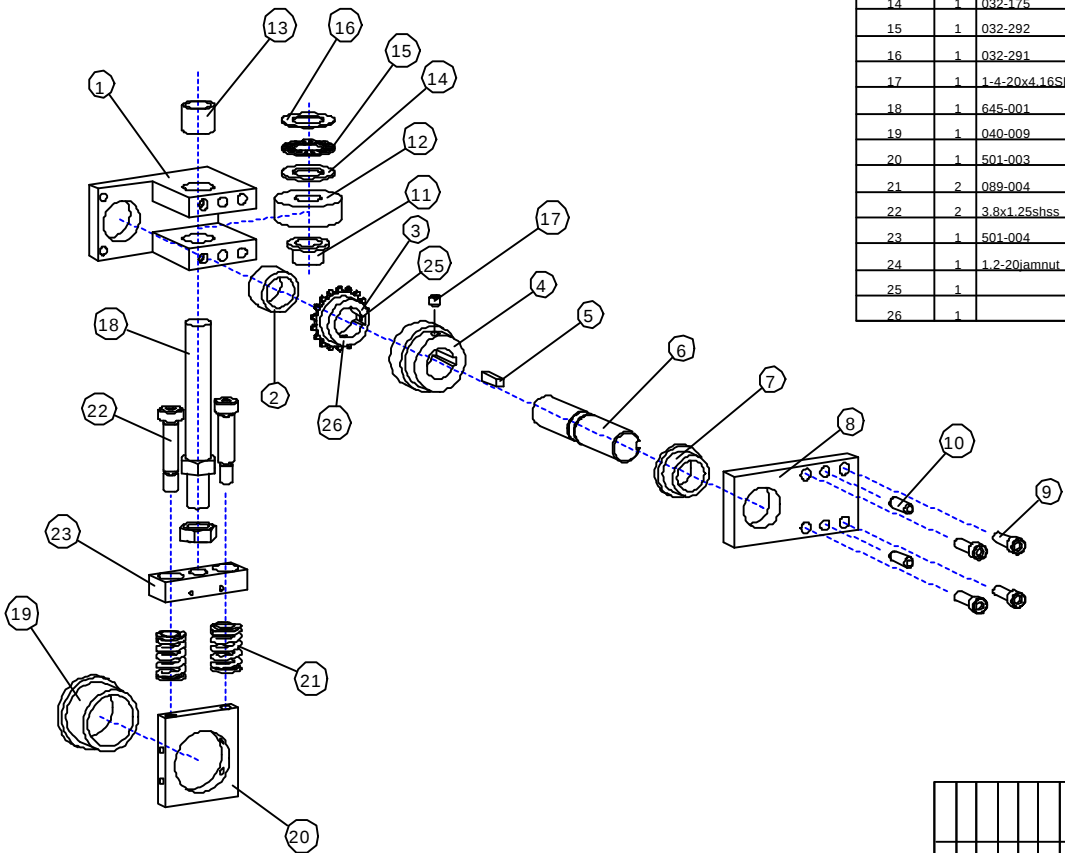
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	F160 Skeleton	
2	1	690-069	ROLL, PULL, BOTTOM, F160
3	1	032-200	THRUST WASHER, TRA-1625
4	2	501-048	BLOCK, BEARING, PULL ROLL, LOWER, F160
5	2	020-010	BEARING, BALL, SEALED
6	1	290-400	LOCK COLLAR, 1, CLAMP, STEEL
7	1	375-011	CLUTCH, PULL ROLL, MACH III, TS-33
8	1	1-4x1-4x2.000 key	1/4 x 1/4 x 2.00 KEY
9	7	516 FLATWASHER	5/16 FLAT WASHER
10	1	BHCS516-18-08	5/16-18 x .5 BHCS
11	1	690-070	ROLL, PULL, TOP, F160
12	1	672-036	PLATE, SIDEFRAME, PULL ROLL, F160
13	2	500-008	BUSHING, FLANGED, MODIFIED
14	2	290-500	LOCK COLLAR, 1-1/4, CLAMP
15	1	710-114	SHAFT, UPPER PULL ROLL, F160
16	1	pull roll lift right moving	PULL ROLL LIFT CONTROL MOVING
17	1	pull roll lift right	PULL ROLL LIFT CONTROL
18	1	pull roll lift left moving	PULL ROLL LIFT MOTOR
19	1	pull roll lift left	PULL ROLL LIFT MOTOR
20	6	5.16-18 1.0shcs	5/16-18 x 1.00 SHCS
21	6	5.16-18 nylock	5/16-18 NYLOCK
22	8	1.4-20x.75shcs	1/4 -20 x .75 SHCS
23	2	020-150	BALL BEARING, ER20 MKFF
24	1	585-095	GUARD PULL ROLL CLUTCH F-160
25	1	032-205	THRUST WASHER, TRC-1625



UNLESS OTHERWISE SPECIFIED TOLERANCE				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
FINISH	TOL.	FINISH	TOL.	TITLE:			
AS BUILT		TO BE		Pull roller assembly			
XXX	± .125	✓		DATE:	DRAWN BY:	DWG SCALE:	DWG :
X	± .010			10/10/00	N/A	N/A	020
XX	± .005						
XXX	± .001						
XXXX	± .000						

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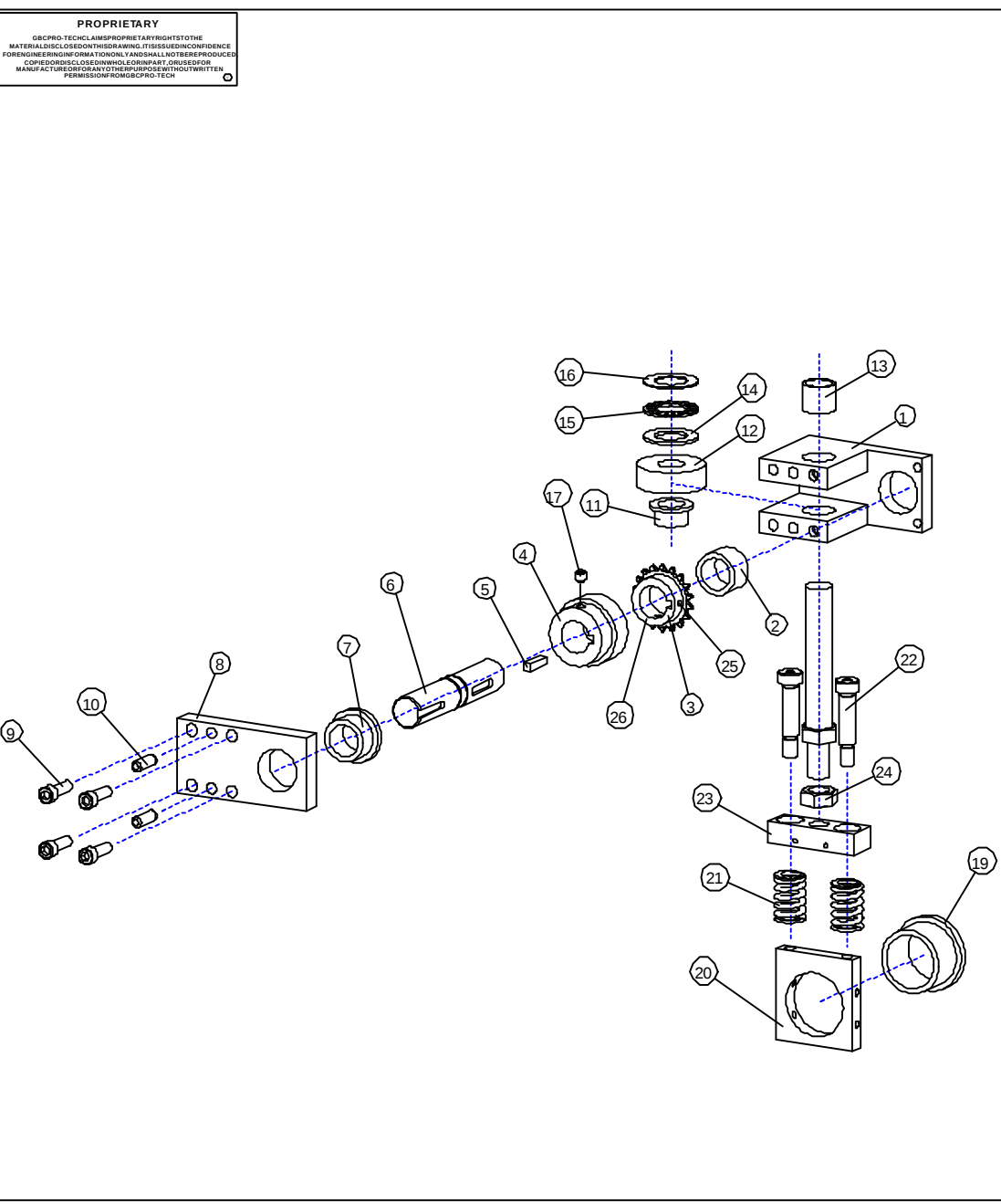
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	501-040	BLOCK, GEAR PULL ROLL
2	1	040-053	BUSHING B1216-5
3	1	435-020	SPROCKET, 18T, #25, 3/16X3/32 KEYWAY
4	1	430-006	GEAR, HELICAL, W/SET SC
5	1	316x23-32key	3/16 x 3/16 x 23/32 KEY
6	1	710-104	SHAFT, HELIX GEAR, PULL ROLL LIFT
7	1	040-008	BUSHING, BRONZE, FLANGED
8	1	501-041	BLOCK, SUPPORT PULL ROLL
9	4	1-4-20x.75shcs	1/4 -20 x .75 SHCS
10	2	095-160	DOWEL PIN, 1/4 X 3/4
11	1	500-019	BUSHING, MOD
12	1	570-003	GEAR, HELI, MODIFIED
13	1	040-054	BUSHING B1012-5
14	1	032-175	THRUST WASHER, TRB-1220
15	1	032-292	THRUST BEARING, NTA-1220
16	1	032-291	THRUST WASHER, TRA-1220
17	1	1-4-20x4.16SETSCREW	1/4-20 x 1/4 SET SCREW
18	1	645-001	SCREW, ACME, MODIFIED
19	1	040-009	BUSHING, BRONZE, FLANGED
20	1	501-003	BLOCK, MAIN ROLL BEARING, UPPER
21	2	089-004	COMPRESSION SPRING
22	2	3.8x1.25shss	3/8-16 x 1.25 SOCKET SHOULDER SCREW
23	1	501-004	BLOCK, BEARING PLATE SPRING
24	1	1-2-20jamnut	1/2-20 JAM NUT
25	1		#8-32 x 1/8 SET SCREW
26	1		#8-32 x 3/16 SET SCREW



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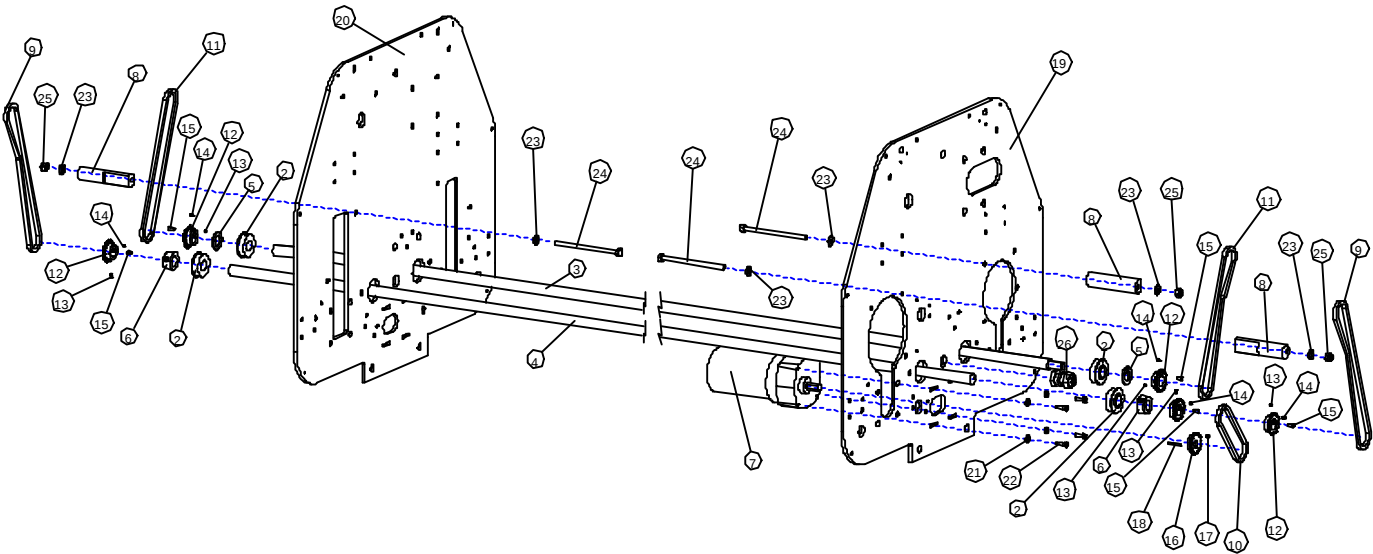
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UNLESS OTHERWISE SPECIFIED TOLERANCES						GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
FRACTIONS TO BE			DECIMALS TO BE			TITLE: Pull roller lift - control side					
X			X			DATE: 10/10/00					
X			X			DRAWN BY: N/A					
X			X			DWG SCALE: N/A					
X			X			DWG: 021					

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	501-040	BLOCK,GEAR PULL ROLL
2	1	040-053	BUSHINGB1216-5
3	1	435-020	SPROCKET 18T #25 3/16X3/32KEYWAY
4	1	430-006	GEAR,HELICAL W/SETSC
5	1	316x23-32key	3/16 x 3/16 x 23/32 KEY
6	1	710-104	SHAFT,HELIXGEAR, PULLROLLLIET
7	1	040-008	BUSHING, BRONZE FLANGED
8	1	501-041	BLOCK,SUPPORT PULL ROLL
9	4	1/4-20x.75shcs	1/4-20 x .75 SHCS
10	2	095-160	DOWEL PIN, 1/4X 3/4
11	1	500-019	BUSHING, MODFB1012-4
12	1	570-003	GEAR, HELI, MODIFIED
13	1	040-054	BUSHINGB1012-5
14	1	032-175	THRUSTWASHER, TRB-1220
15	1	032-292	THRUSTBEARING, NTA-1220
16	1	032-291	THRUSTWASHER, TRA-1220
17	1	1/4-20x4.16SETSCREW	1/4-20 x 1/4 SETSCREW
18	1	645-001	SCREW, ACME, MODIFIED
19	1	040-009	BUSHING, BRONZE FLANGED
20	1	501-003	BLOCK, MAIN ROLL BEARING, UPPER
21	2	089-004	COMPRESSION SPRING
22	2	3/8-16x1.25SHSS	3/8-16 x 1.25 SOCKET SHOULDER SCREW
23	1	501-004	BLOCK, BEARING PLATES SPRING
24	1	1/2-20JAMNUT	1/2-20 JAMNUT
25	1		#8-32 x 1/8 SETSCREW
26	1		#8-32 x 3/16 SETSCREW



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UNLESS OTHERWISE SPECIFIED TOLERANCE									
FRS AS		TOL.		FINISH		GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
ASSEMBLY				TO 30					
XXX		±.125							
X		±.050							
XX		±.010							
XXX		±.020		ANGLES		DATE: 10/10/00 DRAWN BY: N/A DWG SCALE: N/A DWG: 022			
XXXX		±.050		±.02					
XXXXX		±.010		±.01					
TITLE : Pull roller lift - drive side									

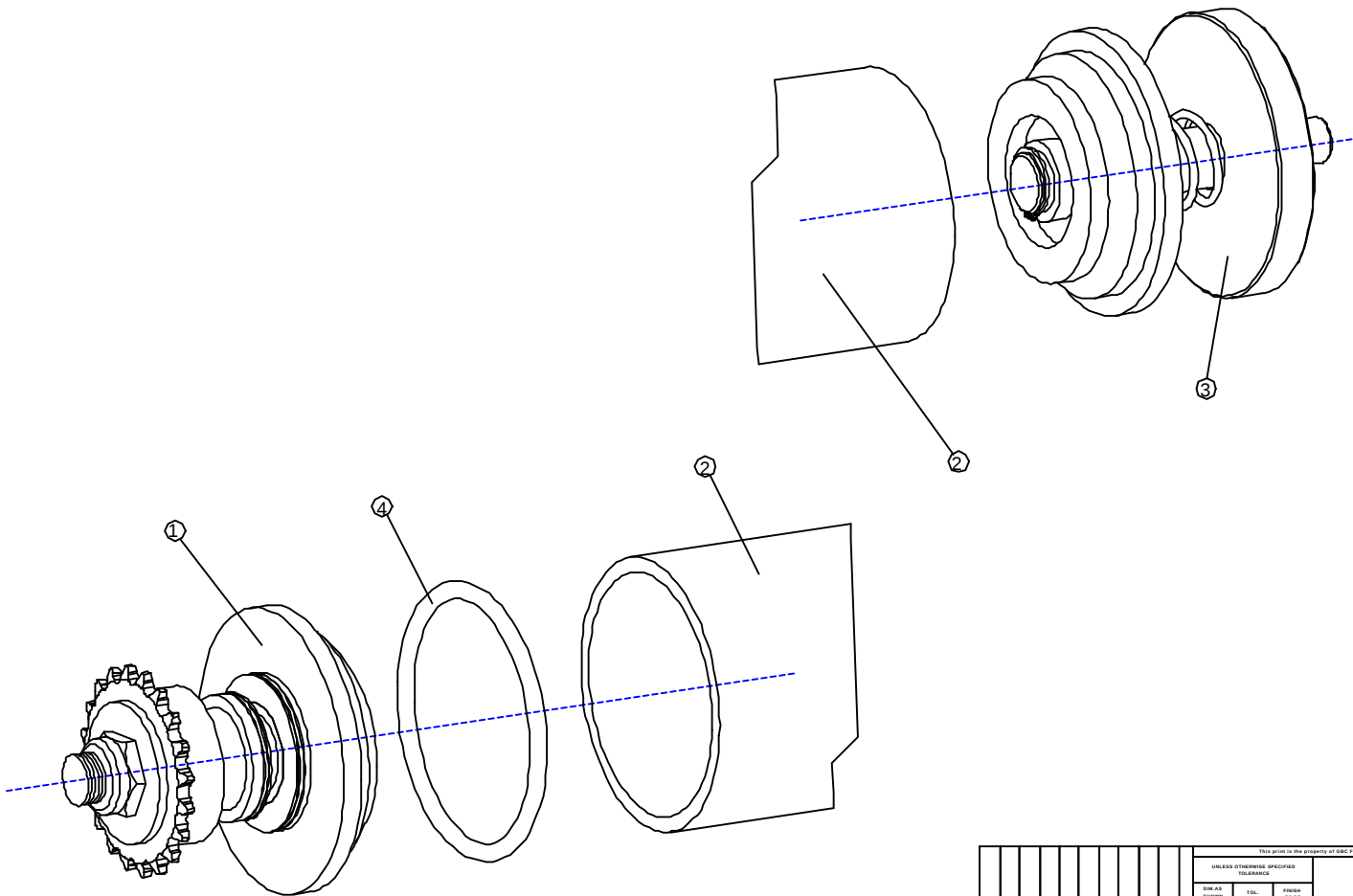
ITEM NO.	QTY.	PARTNO.	DESCRIPTION
1	1	F160Skeleton	
2	4	020-009	BEARING,BALL,SEALED
3	1	710-109	SHAFT,TRAVERSE,PULL,ROLL,F160
4	1	710-112	SHAFT,TRAVERSE,MAINROLL,F160
5	2	032-014	THRUSTWASHER,RC1220
6	2	290-012	COLLAR,LOCK,SC-12,F,RULAND
7	1	425-004	MOTOR,GEAR,BISON
8	3	525-009	ECCENTRIC,CHAINADJUST,F160
9	2	570-009	CHAIN,UP/DOWNDRIVE,MAINROLL,F160
10	1	570-012	CHAIN,UP/DOWN,DRIVE,MOTOR,F160
11	2	570-017	CHAIN,UP/DOWNDRIVE,PULL,ROLL,F160
12	5	435-020	SPROCKET,18T,#25,3/16X3/32KEYWAY
13	5	8.32x3.16CUPSETSCREW	8.32x3/16CUPSETSCREW
14	5	8.32x2.16CUPSETSCREW	8.32x1/8CUPSETSCREW
15	5	3.16x8-16key	3/16x3/16x1/2KEY
16	1	435-021	SPROCKET,18T,#25,1/8X1/16KEYWAY
17	2	8.32x4.16CUPSETSCREW	8.32x1/4CUPSETSCREW
18	1	1.8x1.8x1.000key	1/8x1/8x1.00KEY
19	1	730-017	SIDEFRAME,RIGHT,F160
20	1	730-018	SIDEFRAME,LEFT,F160
21	4	#10Flatwasher	#10FLATWASHER
22	4	10-32_0.625shcs	#10-32x5/8SHCS
23	6	5.16FLATWASHER	5/16FLATWASHER
24	3	5.16-18_5.0hexhead	5/16-18x5.0HEXHEAD
25	3	5.16-18nylock	5/16-18NYLOCK
26	1	175-180	STRAINRELIEF,1/2"



UNLESS OTHERWISE SPECIFIED TOLERANCES				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
INCH AS SHOWN	TOL.	DECIMAL EQUIV.	INCH TO BE	TITLE :			
XXX	±.184	1/16	✓	Traverse shaft assembly			
X	±.050			DATE:	DRAWN BY:	DWG SCALE:	DWG :
XX	±.010			10/10/00	N/A	N/A	023
XXX	±.005						
XXXX	±.001						

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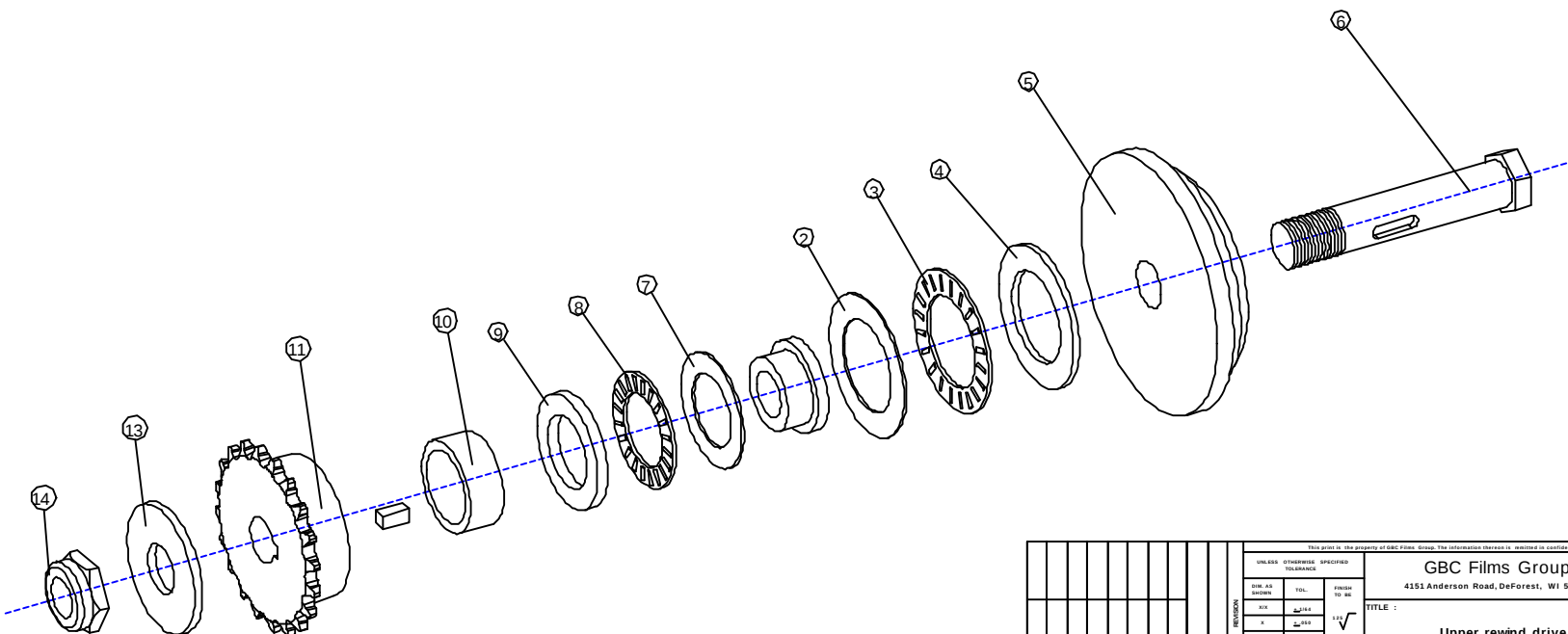
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	upper rewind drive	UPPER REWIND DRIVE
2	1	860-016	TUBE, REWIND, 65-1/4", F160
3	1	rewind brake	REWIND BRAKE
4	1	480-005	O-RING, 90 CAST URETHANE, 2-7/8 ID



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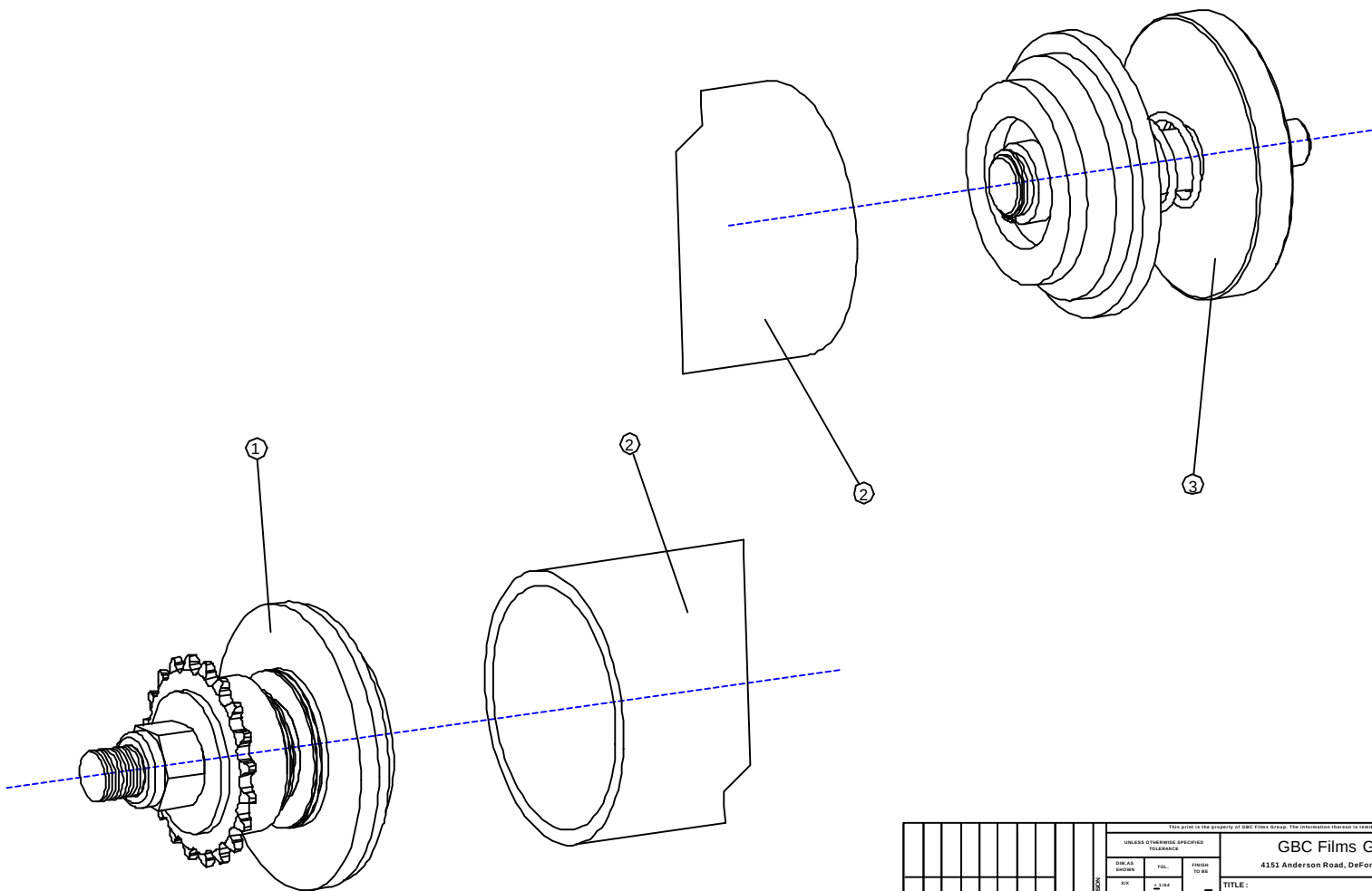
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UNLESS OTHERWISE SPECIFIED: TOLERANCES					GBC Films Group				
DRAWN BY: DATE: DWG SCALE: DWG:					4151 Anderson Road, DeForest, WI 53532				
TITLE:					Upper rewind				
10/10/00 N/A N/A 026									
UNLESS OTHERWISE SPECIFIED: TOLERANCES					GBC FILMS GROUP				
DRAWN BY: DATE: DWG SCALE: DWG:					4151 ANDERSON ROAD, DEFOREST, WI 53532				
TITLE:					Upper rewind				
10/10/00 N/A N/A 026									

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		UNLESS OTHERWISE SPECIFIED TOLERANCES		GBC Films Group 4151 Anderson Road, DeForest, WI 53532	
		DIM AND DATUMS	TOL.	FINISH TO BE	TITLE : Upper rewind drive
		FTY	.001/16	1/16 ✓	
		A	.001/16		
		B	.001/16		
		C	.001/16		
		D	.001/16	FINISH TO BE	DATE: 10/10/00 DRAWN BY: N/A DWG SCALE: N/A DWG: 027
		E	.001/16		
		F	.001/16		

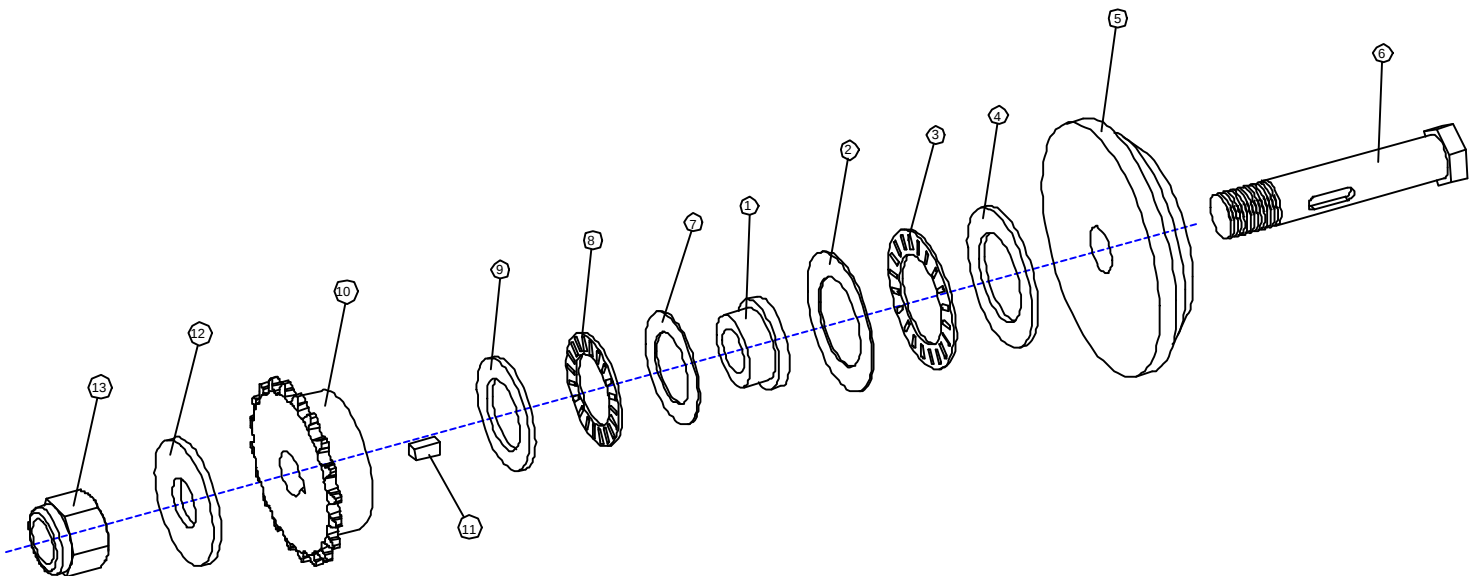
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	lower rewind drive	LOWER REWIND DRIVE
2	1	860-016	TUBE, REWIND, 65-1/4", F160
3	1	rewind brake	REWIND BRAKE



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UNLESS OTHERWISE SPECIFIED TOLERANCES						GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
DIM. AS SHOWN		TOL.		FINISH TO BE		TITLE:					
.010		±.014		√		Lower rewind					
.015		±.020				DATE:		DRAWN BY:		DWG SCALE:	
.020		±.030				10/10/00		N/A		N/A	
.030		±.040								028	
.040		±.050									
.050		±.060									
.060		±.070									
.070		±.080									
.080		±.090									
.090		±.100									
.100		±.110									
.110		±.120									
.120		±.130									
.130		±.140									
.140		±.150									
.150		±.160									
.160		±.170									
.170		±.180									
.180		±.190									
.190		±.200									
.200		±.210									
.210		±.220									
.220		±.230									
.230		±.240									
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.250		±.260									
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.310		±.320									
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.360		±.370									
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.720		±.730									
.730		±.740									
.740		±.750									
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.760		±.770									
.770		±.780									
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.790		±.800									
.800		±.810									
.810		±.820									
.820		±.830									
.830		±.840									
.840		±.850									

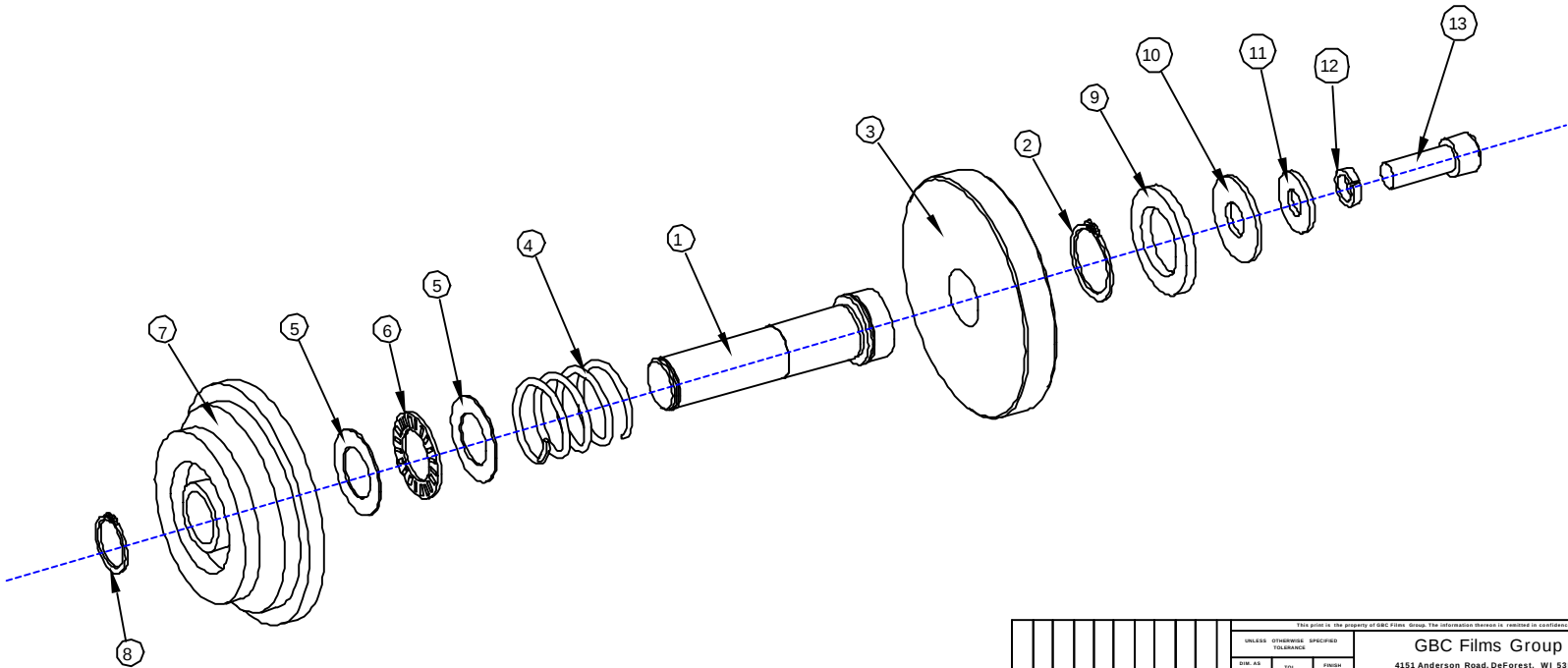
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	500-014	BUSHING, MODIFIED, LOWER REWIND, F160
2	1	032-410	THRUST WASHER, TRA-2031
3	1	032-400	THRUST BEARING, NTA-2031
4	1	032-420	THRUST WASHER, TRC-2031
5	1	x92-0111	PLUG, CLUTCH DRIVE
6	1	M8-1.25	BOLT, CLUTCH DRIVE
7	1	032-200	THRUST WASHER, TRA-1625
8	1	032-190	THRUST BEARING, NTA-1625
9	1	032-205	THRUST WASHER, TRC-1625
10	1	435-175	SPROCKET, 35BS20 X 5/8
11	1	3-16x3-16key	3/16 x 3/16 x 3/8 KEY
12	1	58 FLATWASHER	5/8 FLAT WASHER
13	1	58-11 Nylock	5/8-11 NYLOCK



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UNLESS OTHERWISE SPECIFIED TOLERANCES									
DIM. AS SHOWN		TOL.		FINISH		GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
H9		±.004		11.4		TITLE : Lower rewind drive			
K		±.005		11.4		DATE: 10/10/00			
M		±.010		11.4		DRAWN BY: N/A			
N		±.015		11.4		DWG SCALE: N/A			
P		±.020		11.4		DWG : 029			
R		±.025		11.4					
S		±.030		11.4					
T		±.035		11.4					
U		±.040		11.4					
V		±.045		11.4					
W		±.050		11.4					
X		±.055		11.4					
Y		±.060		11.4					
Z		±.065		11.4					

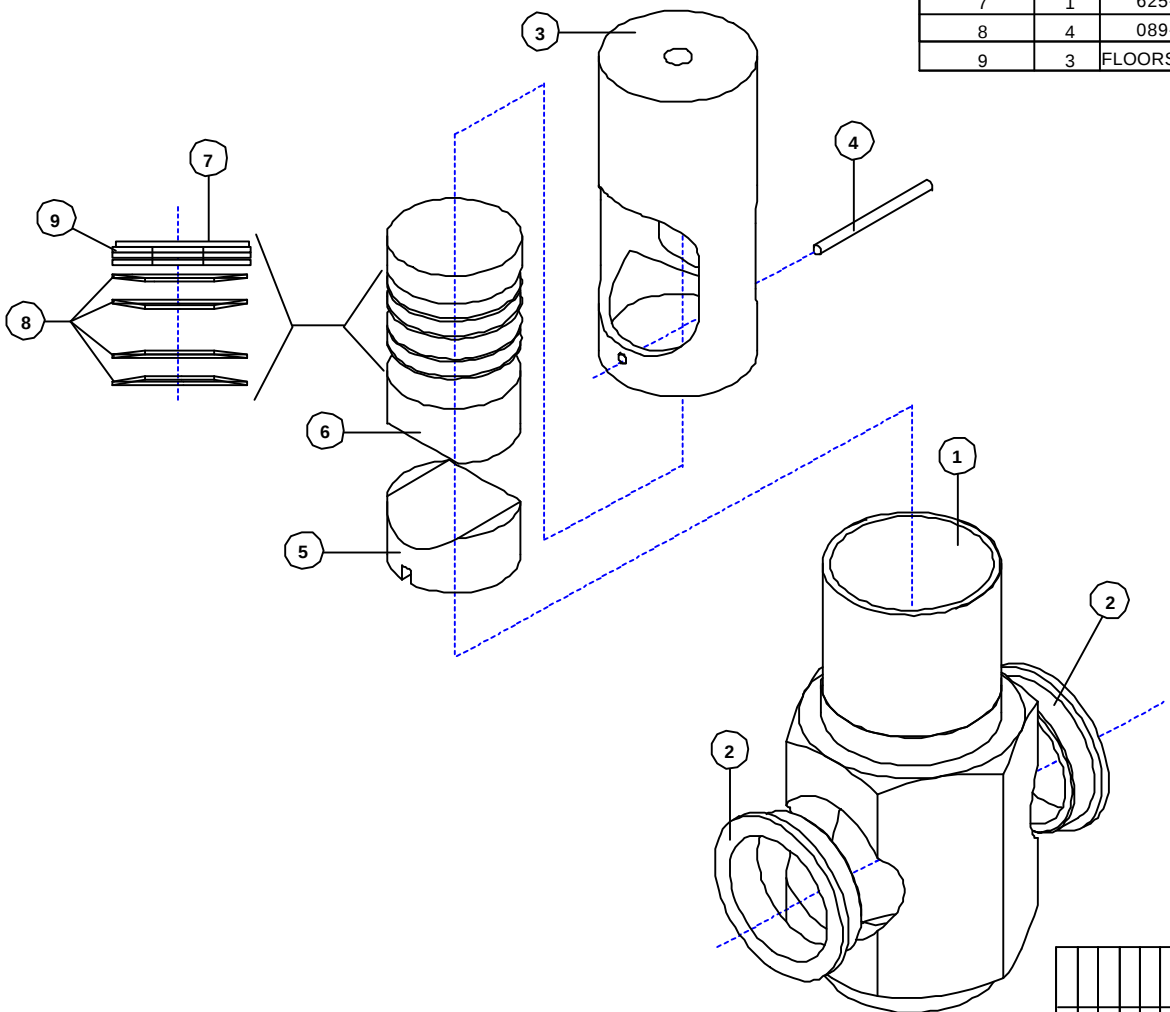
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	11920113	SHAFT, REWIND STANDOFF
2	1	090-140	SPRING CLIP
3	1	625-007	KNOB, KNURLED CLUTCH
4	1	089-200	COMPRESSION SPRING, C1225-10
5	2	032-242	THRUST WASHER, TRA-1423
6	1	032-390	THRUST BEARING, NTA-1423
7	1	11920112	PLUG CLUTCH
8	1	090-135	SPRING CLIP, 5100-75
9	1	032-310	THRUST WASHER, TRE-1625
10	1	716 FLATWASHER	716 FLATWASHER
11	1	516 FLATWASHER	516 FLATWASHER
12	1	3.8 hcsplitlockw asher	3.8 hcsplitlockw asher
13	1	SHCS38-16-16	SHCS38-16-16



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		UNLESS OTHERWISE SPECIFIED TOLERANCES				GBC Films Group 4151 Anderson Road, DeForest, WI 53532						
		FIN. AS SHOWN	TOL.	FINISH TO BE	TITLE : Rewind brake - upper/lower							
		XXX	±.184	XXX								1:1
		X	±.050									
XX	±.010											
XXX	±.005	XXX	ANALYSIS	DATE:	DRAWN BY:	DWG SCALE:	DWG :	10/10/00 N/A N/A 030				
XXX	±.005	XXX										

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ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	625-008	PIN, PIVOT, UNWIND
2	2	500-006	BUSHING, FLANGED, NYLON
3	1	625-022	HOUSING, BRAKE
4	1	095-105	ROLL PIN
5	1	625027	PAD, BRAKE
6	1	625027	PAD, BRAKE
7	1	625-028	PISTON, BRAKE
8	4	089-009	SPRING, DISC
9	3	FLOORSTOCK	FLAT WASHER, 9/16

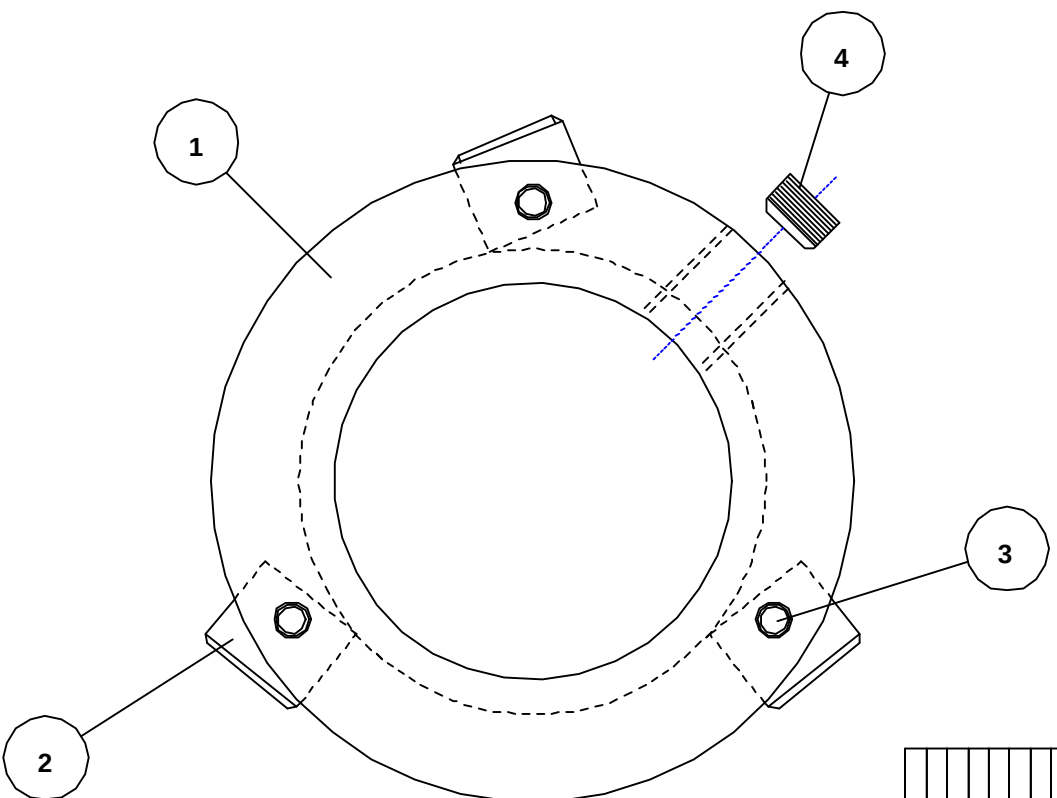


UNLESS OTHERWISE SPECIFIED TOLERANCES									
FR	AS	TOL.	FINISH	GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
FR	AS	±.004	1/16"						
FR	AS	±.005	1/16"						
FR	AS	±.005	1/16"						
FR	AS	±.005	1/16"						
DATE:	DRAWN BY:	DWG SCALE:	DWG:	TITLE : Unwind brake assembly					
10/10/00	N/A	N/A	001-563						

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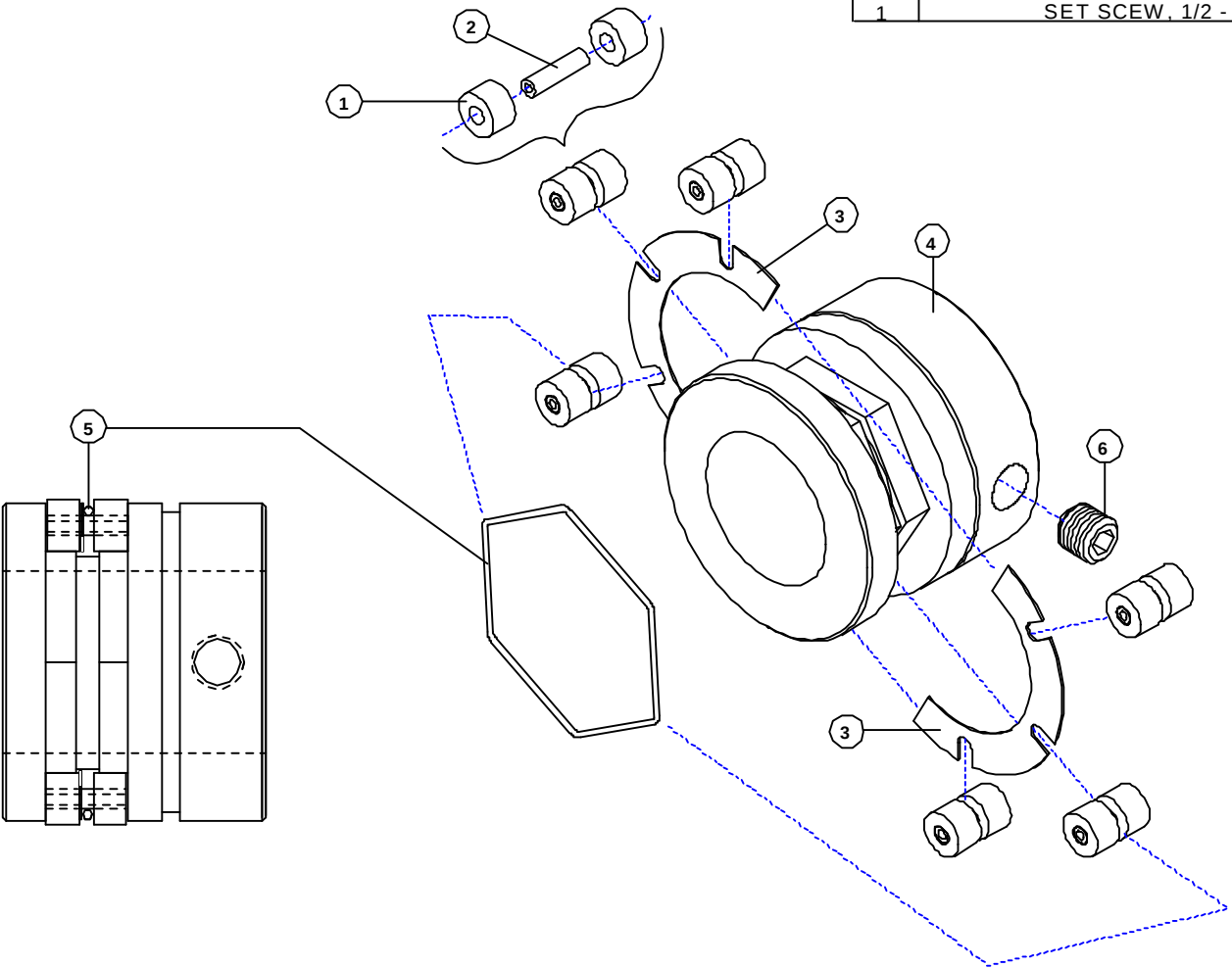
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		UNLESS OTHERWISE SPECIFIED TOLERANCE		GBC Films Group 4151 Anderson Road, DeForest, WI 53522	
		MIN. AS SHOWN	TOL.	FINISH TO BE	TITLE : Core gripper assembly - original
		OV	$\pm .004$	122 ✓	
		X	$\pm .010$		
		IN	$\pm .005$		
		FIN	$\pm .010$		
		MAX	$\pm .005$	APPROX $\pm .010$	
				DATE: 10/10/00	DRAWN BY: N/A
				DWG SCALE: N/A	DWG: 001-510

QTY.	DESCRIPTION	PART NO.	ITEM NO.
12	ROLLER	068 - 013	1
6	PIN	095 - 106	2
2	CORE, CLIP	530 - 037	3
1	CORE	530 - 036	4
1	O-RING	480 - 006	5
1	SET SCREW, 1/2 - 13 X 1/2	---	6

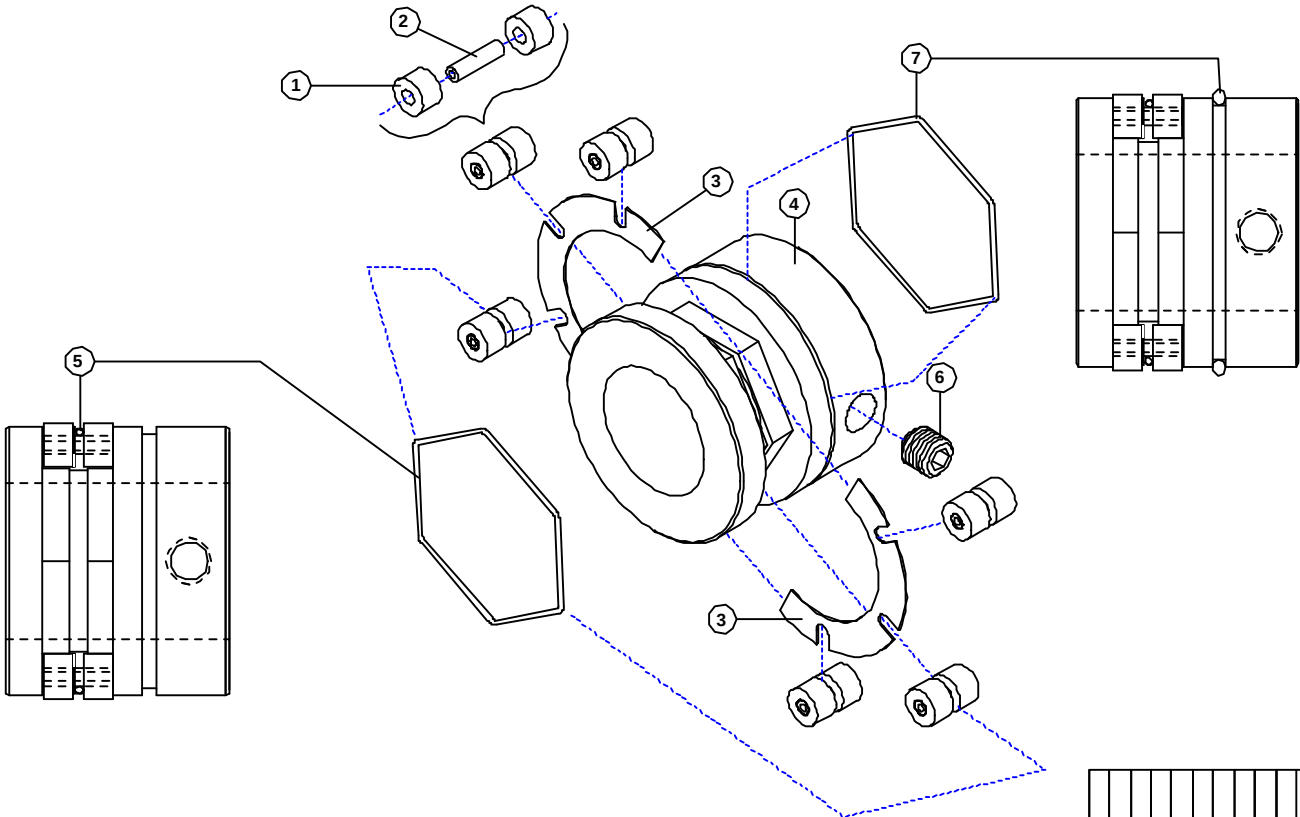


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UNLESS OTHERWISE SPECIFIED TOLERANCE			FINISH TO BE		
DIM AS SHOWN	TOL.				
XXX	$\pm .010$				
XX	$\pm .015$				
XX	$\pm .010$				
XXX	$\pm .015$				
XXXX	$\pm .010$				
ANGLES			ANGLES		
			45°		
GBC Films Group 4151 Anderson Road, DeForest, WI 53532			TITLE: Outside core gripper assembly- current		
DATE: 10/10/00		DRAWN BY: N/A		DWG SCALE: N/A	
				DWG : 001-601	

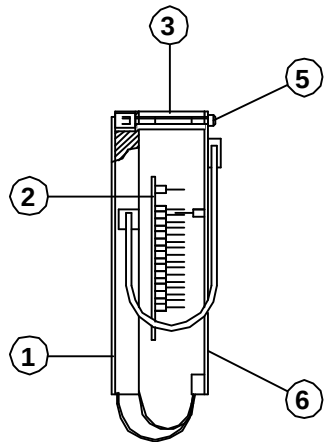
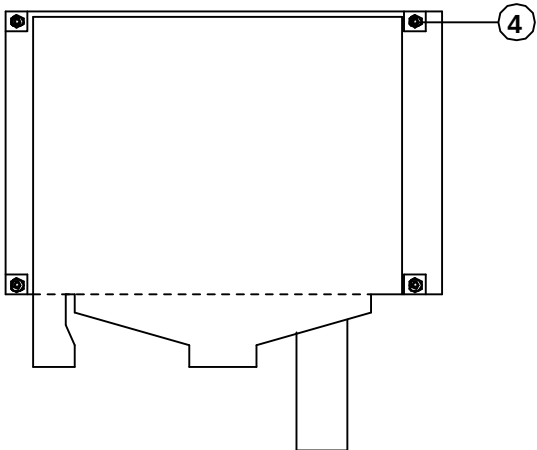
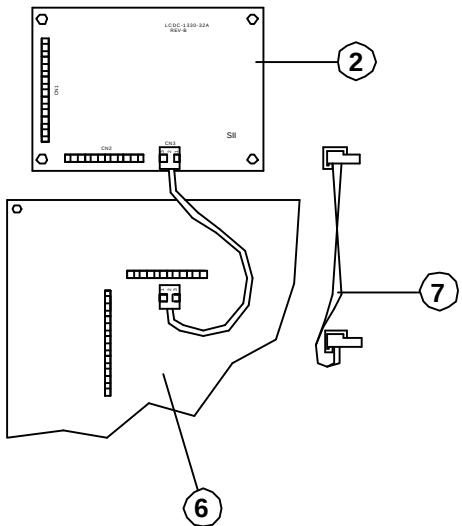
QTY.	DESCRIPTION	PART NO.	ITEM NO.
12	ROLLER	068 - 013	1
6	PIN	095 - 106	2
2	CORE CLIP	530 - 037	3
1	CORE	530 - 036	4
1	O-RING	480 - 006	5
1	SET SCEW, 1/2 - 13 X 1/2	---	6
1	O-RING	480 - 007	7

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PERMISSION FROM GBCPRO-TECH



UNLESS OTHERWISE SPECIFIED TOLERANCE				GBC Films Group 4151 Anderson Road, DeForest, WI 53532			
SIZE	TOL.	FINISH	DATE	TITLE : Inside core gripper assembly - current			
XXX	±.004	12.5	10/10/00	DRAWN BY:	DATE	DWG SCALE:	DWG NO:
XX	±.005		N/A				
XX	±.005						
XXX	±.005						
XXX	±.005						

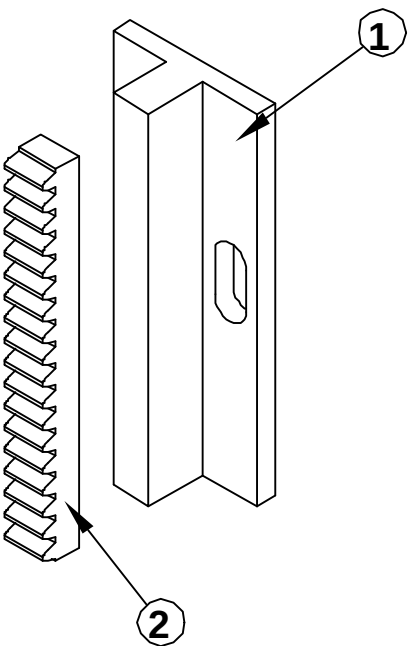
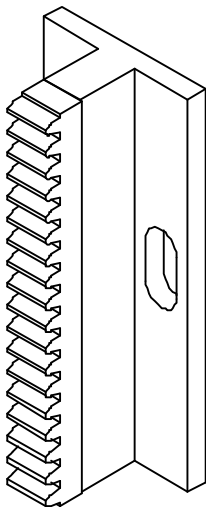
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	185-035	TOUCH PANEL
2	1	185-036	CONTROL BOARD
3	4	120-014	STANDOFF, HEX, PLASTIC
4	4	120-015	STANDOFF, HEX, HEAD, M/F
5	4	-	SHCS #4-40 x 1/2
5	1	001-568	ASSEMBLY, PCB BOARD
5	1	280-053	HARNESS, DISPLAY - LCD



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UNLESS OTHERWISE SPECIFIED TOLERANCES																				
DIM. AS SHOWN			TOL.			FINISH			OTHER											
X10			±.125			NONE			NONE											
X1			±.000			NONE			NONE											
X1			±.010			NONE			NONE											
X10			±.020			NONE			NONE											
X100			±.050			NONE			NONE											
GBC FILMS GROUP																				
4151 Anderson Road, DeForest, WI 53532																				
TITLE :																				
Falcon 160 CE: Display panel assembly																				
DATE:			DRAWN BY:			DWG SCALE:			DWG :											
08/15/00			N/A			N/A			001 - 595											

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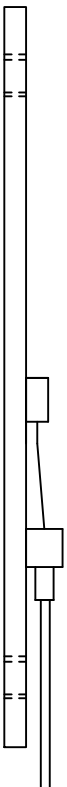
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	501-051	BLOCK, RACK MOUNT, ENCODER, F160
2	1	570-013	RACK, ENCODER DRIVE



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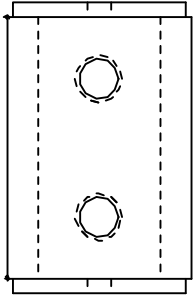
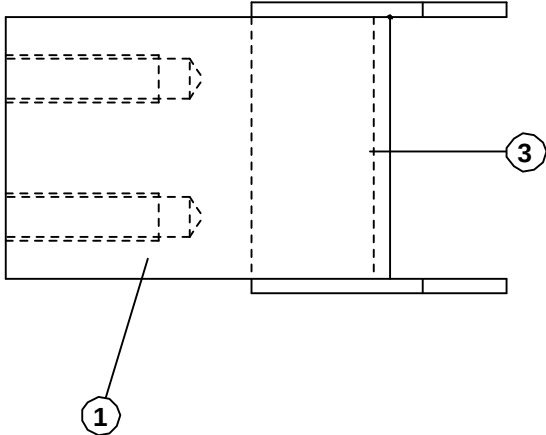
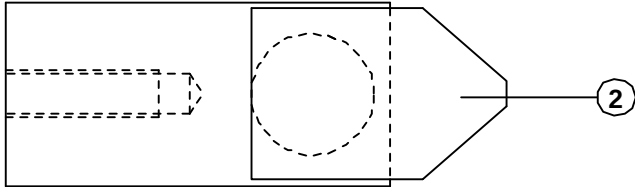
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UNLESS OTHERWISE SPECIFIED TOLERANCES						GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
DIM. AS SHOWN			TOL.			TITLE:					
.010			±.004			Falcon 160 CE: Rack assembly					
.015			±.005								
.020			±.010								
.030			±.015								
.040			±.020			DATE: 08/15/00					
.050			±.025			DRAWN BY: N/A		DWG SCALE: N/A		DWG: 001 - 578	
.060			±.030								
.070			±.035								
.080			±.040								
.090			±.045								
.100			±.050								
.110			±.055								
.120			±.060								
.130			±.065								
.140			±.070								
.150			±.075								
.160			±.080								
.170			±.085								
.180			±.090								
.190			±.095								
.200			±.100								
.210			±.105								
.220			±.110								
.230			±.115								
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.270			±.135								
.280			±.140								
.290			±.145								
.300			±.150								
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.340			±.170								
.350			±.175								
.360			±.180								
.370			±.185								
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.430			±.215								
.440			±.220								
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.470			±.235								
.480			±.240								
.490			±.245								
.500			±.250								
.510			±.255								
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.530			±.265								
.540			±.270								
.550			±.275								
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.630			±.315								
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.790			±.395								
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1.130			±.565								
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3.980			±.1990								
3.990			±.1995								
4.000			±.2000								
4.010			±.2005								

Diagram illustrating the removal of the outer jacket and braided shield from a three-core cable. The diagram shows a vertical cross-section of the cable. Label 1 points to the outer jacket, which is being removed. Label 2 points to the braided shield, which is also being removed. Label 3 points to the three individual conductors, which are shown with dashed lines indicating they are to be stripped back.



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		UNLESS OTHERWISE SPECIFIED TOLERANCE		GBC Films Group 4151 Anderson Road, DeForest, WI 53532	
		TOP-AS ENDVIEW	TOL.	FINISH TO AS	TITLE : Falcon 160 CE: Force sensor assembly
		DT	± 0.004	1.25	
		A	± 0.004		
		XX	± 0.004		
		XXX	± 0.004		
			PROFILES ± 0.004	DATE:	DRAWN BY:
			XXX ± 0.004	08/15/00	N/A
					DWG SCALE:
					DWG:
					001 - 504

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	501-018	DELIN BLOCK
2	2	672-020	PLATE
3	1	475-701	MAGNET



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UNLESS OTHERWISE SPECIFIED TOLERANCE						GBC Films Group 4151 Anderson Road, DeForest, WI 53532					
TITLE:						Falcon 160 CE: Magnet assembly					
DATE:						DRAWN BY:		DWG SCALE:		DWG:	
08/15/00						N/A		N/A		001 - 423	

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