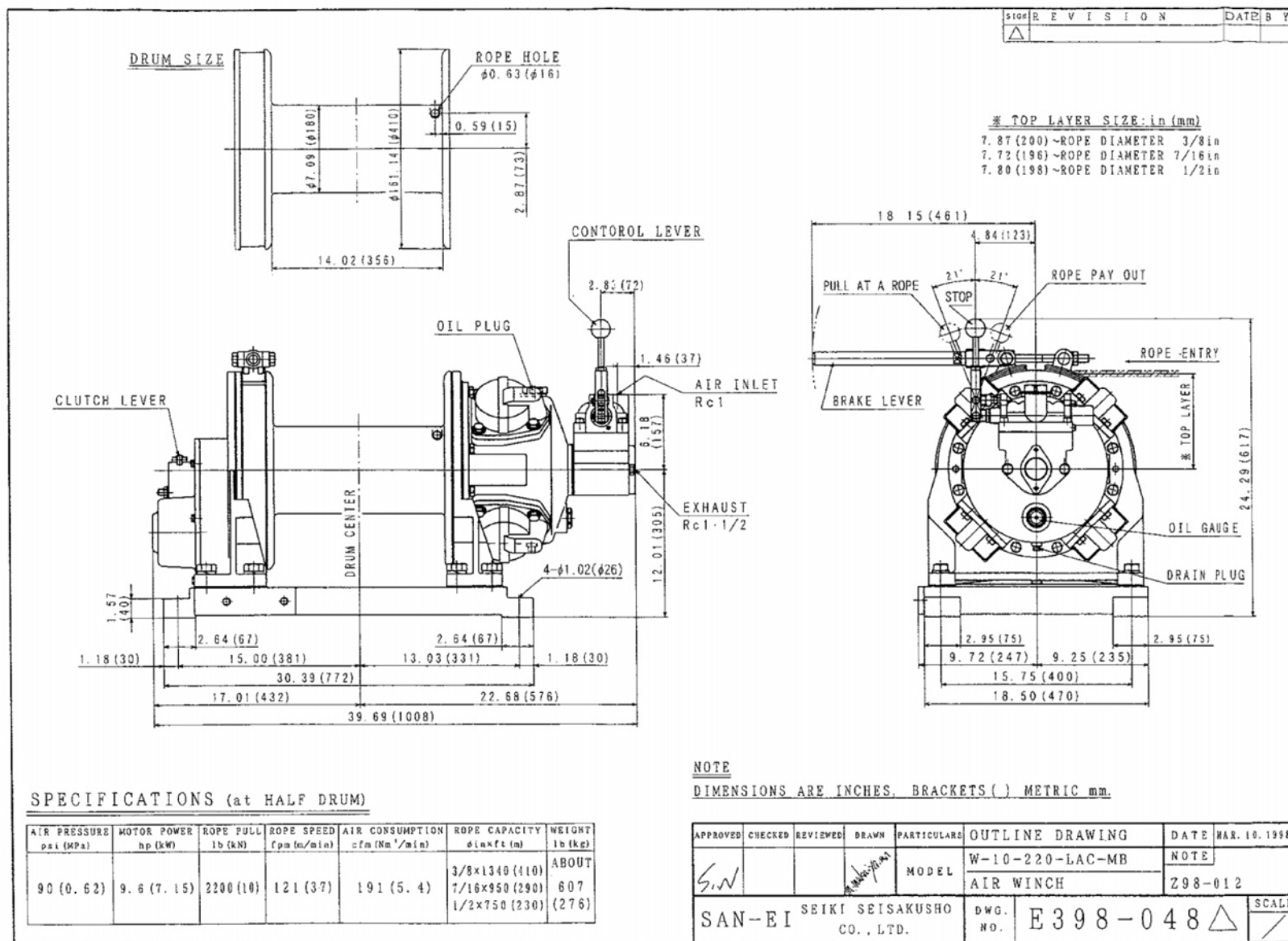




MICHIGAN PNEUMATIC TOOL, INC.

MP-W10220LACMB

2200 lb. Long Drum Winch w/ Manual Brake

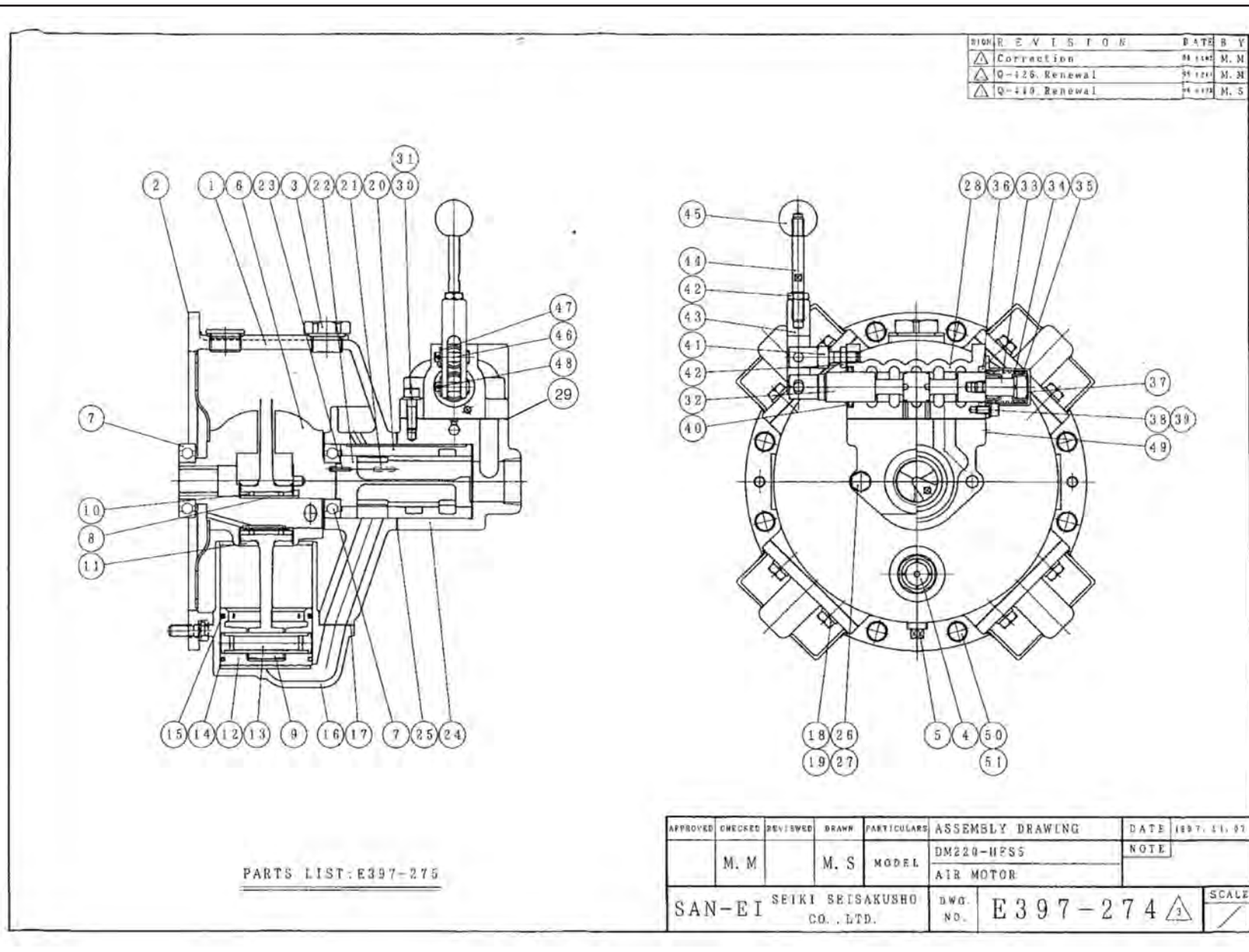




MICHIGAN PNEUMATIC TOOL, INC.

MP-W10220LACMB

2200 lb. Long Drum Winch w/ Manual Brake





MICHIGAN PNEUMATIC TOOL, INC.

MP-W10220LACMB

2200 lb. Long Drum Winch w/ Manual Brake

SIGNATURE									
REVISION									
DATE									
BY									
Q-140, Renewal									
N.S.									
No.	PART NO.	PARTS NAME	QTY	REMARKS	No.	PART NO.	PARTS NAME	QTY	REMARKS
1	E397-2741	Crank Case	1		31	SW1-10	Spring Washer	5	10 (Cap)
2	E397-2742	Crank Case Packing	1		32	E397-27432	Spool	1	
3	E397-2803	Oil Plug	1		33	E397-27433	Spool End	1	
4	E397-2804	Oil Gauge	1		34	E397-27434	Spring	1	
5	E397-2745	Plug	1	1/2B	35	E397-27435	Spring Seat	1	
6	E397-2746	Crank Complete	1Set		36	E397-27436	Spacer	1	
7	E397-2747	Ball Bearing	2	6208	37	E397-27437	Cover	1	
8	E397-2748	Shaft Sleeve	1		38	CS-816	Hex. Socket Cap Screw	2	M8x16
9	E397-2749	Connecting Rod	4		39	E397-27022	Spring Washer	2	8
10	E397-27410	Rod Bearing	1		40	E397-27440	Dust Seal	1	
11	E397-27411	Rod Ring	2		41	E397-27441	Support Bolt	1	
12	E397-27412	Piston	4		42	E397-27442	Hex. Nut	2	M12-3
13	E397-27413	Piston Pin	4		43	E397-27443	Lever Support	1	
14	E397-27414	Piston Ring	4		44	E397-27444	Control Lever	1	
15	E397-27415	Oil Ring	4		45	E397-27445	Knob	1	
16	E397-27416	Cylinder	4		46	E397-27446	Lever Pin	2	
17	E397-27417	Cylinder Packing	4		47	E397-27447	Plane Washer	2	10
18	E397-27418	Hex. Bolt	16	M12x30	48	SNP-3.220	Split Pin	2	φ3.2x20
19	E397-28021	Spring Washer	16	12	49	PHP-T20	Hex. Socket Plug	1	1/4B
20	E397-27420	Valve Sleeve	1		50	E397-27450	Hex. Bolt	8	M12x35
21	E397-27421	Key	1	5x5x23	51	SW2-12	Spring Washer	8	12
22	E397-27422	Rotary Valve	1						
23	SNP-420	Spring Pin	1	φ4x20					
24	E397-27424	Valve Chest	1						
25	E397-27425	Valve Chest Packing	1						
26	E397-27426	Hex. Bolt	2	M12x140					
27	SW2-12	Spring Washer	2	12					
28	E397-27428	Valve Body	1						
29	E397-27429	Valve Body Packing	1						
30	E397-27430	Hex. Socket Cap Screw	5	M10x35					

ASSEMBLY DRAWING E397-274

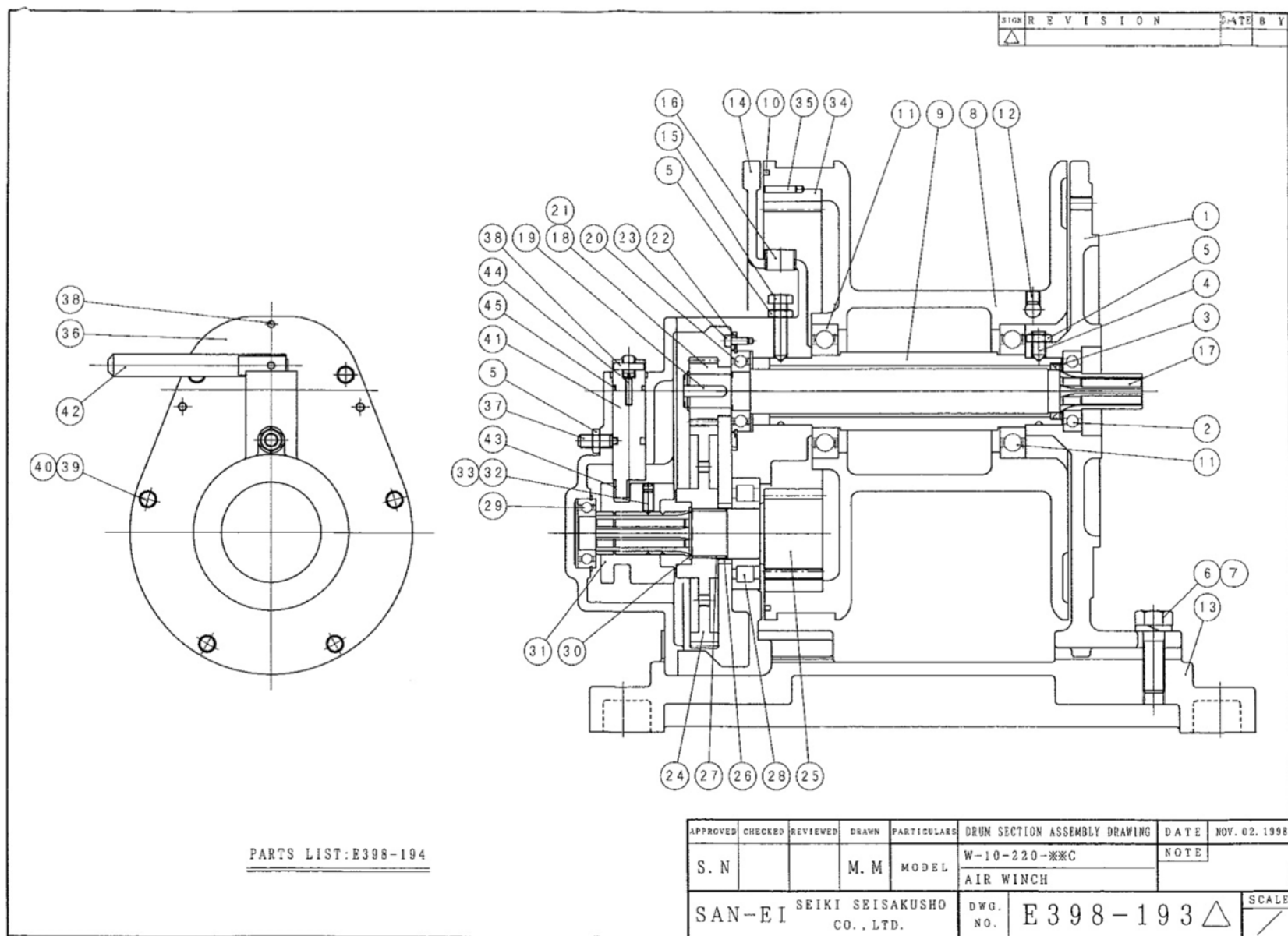
APPROVED	CHECKED	REVIEWED	DRAWN	PARTICULARS	PARTS LIST	DATE	1997. 10. 07
	M. M		M. S	MODEL	DM220-HFS5	NOTE	
					AIR MOTOR		
SAN-EI SEIKI SEISAKUSHO CO., LTD.					DWG. NO.	E397-275	SCALE



MICHIGAN PNEUMATIC TOOL, INC.

MP-W10220LACMB

2200 lb. Long Drum Winch w/ Manual Brake





MICHIGAN PNEUMATIC TOOL, INC.

MP-W10220LACMB

2200 lb. Long Drum Winch w/ Manual Brake

REVISION									
Correction Q-441									
No.	PART NO.	PARTS NAME	QTY	REMARKS	No.	PART NO.	PARTS NAME	QTY	REMARKS
1	E397-2451	Crank Case Cover	1		31	E397-24532	Clutch	1	
2	E397-2452	Ball Bearing	1	6207	32	E397-24533	Plunger	1	PBF-10-KS
3	E397-2453	Oil Seal	1	SC38508	33	E398-19333	Hex.Socket Set Screw	1	M10x8 △
4	E397-2454	Hex.Socket Set Screw	1	M12x30	34	E398-19334	Internal Gear	1	
5	E397-27442	Hex.Nut	3	M12-3	35	NP-630	Parallel Pin	2	φ6x30
6	E397-2456	Hex.Bolt	8 (6)	M20x60	36	E398-19336	Gear Case Cover	1	
7	E397-2457	Spring Washer	8 (6)	20	37	E397-24538	Plunger	1	SP12-1
8	E397-2458L	Drum (Long)	1		38	SNP-628	Spring Pin	2	φ6x28
9	E397-2459L	Drum Shaft (Long)	1		39	E302-11135	Hex.Bolt	6	M8x25
10	E397-24510	Packing	1		40	SW2-8	Spring Washer	6	8
11	E397-24511	Ball Bearing	2	6213Z2	41	E397-24542	Clutch Eccentric	1	
12	E397-24512	Hex.Socket Set Screw	1	M12x12	42	E397-24543	Clutch Lever	1	
13	E397-24513L	Bed (Long)	1		43	E397-24544	Inner Ring	1	1R10x14x16
14	E398-19314	Gear Case	1		44	E397-24545	Plunger	1	SP-8-2
15	E397-24515	Drum Shaft Set Bolt	1		45	OR-P24	O Ring	1	P24
16	PHP-T50	Hex.Socket Plug	1	3/4B					
17	E398-19317L	Motor Shaft (Long)	1						
18	E398-19318	First Pinion	1						
19	E398-19319	Key	1	10x8x33					
20	E397-24520	Ball Bearing	1	6207ZZNR					
21	E398-19321	Retaining Ring	1	S30					
22	E397-24522	Bearing Support	1						
23	CS-616	Hex.Socket Cap Screw	3	M6x16					
24	E398-19324	First Gear	1						
25	E398-19325	Second Pinion	1						
26	E398-19326	Collar	1						
27	E397-24528	Gear Bushing	1	R-ML4030					
28	E398-19328	Roller Bearing	1	NJ309					
29	E397-24530	Ball Bearing	1	6206ZZNR					
30	E398-19330	Retaining Ring	1	S40					

NOTE: Bracket () are Model: W-10-220-***C-AB

ASSEMBLY DRAWING: E398-193

APPROVED	CHECKED	REVIEWED	DRAWN	PARTICULARS	DRUM SECTION PARTS LIST	DATE	NOV. 02. 1998
S. N			M. M	MODEL	W-10-220-***C	NOTE	
					AIR WINCH		
SAN-EI SEIKI SEISAKUSHO CO., LTD.					DWG. NO.	E398-194 △	SCALE

