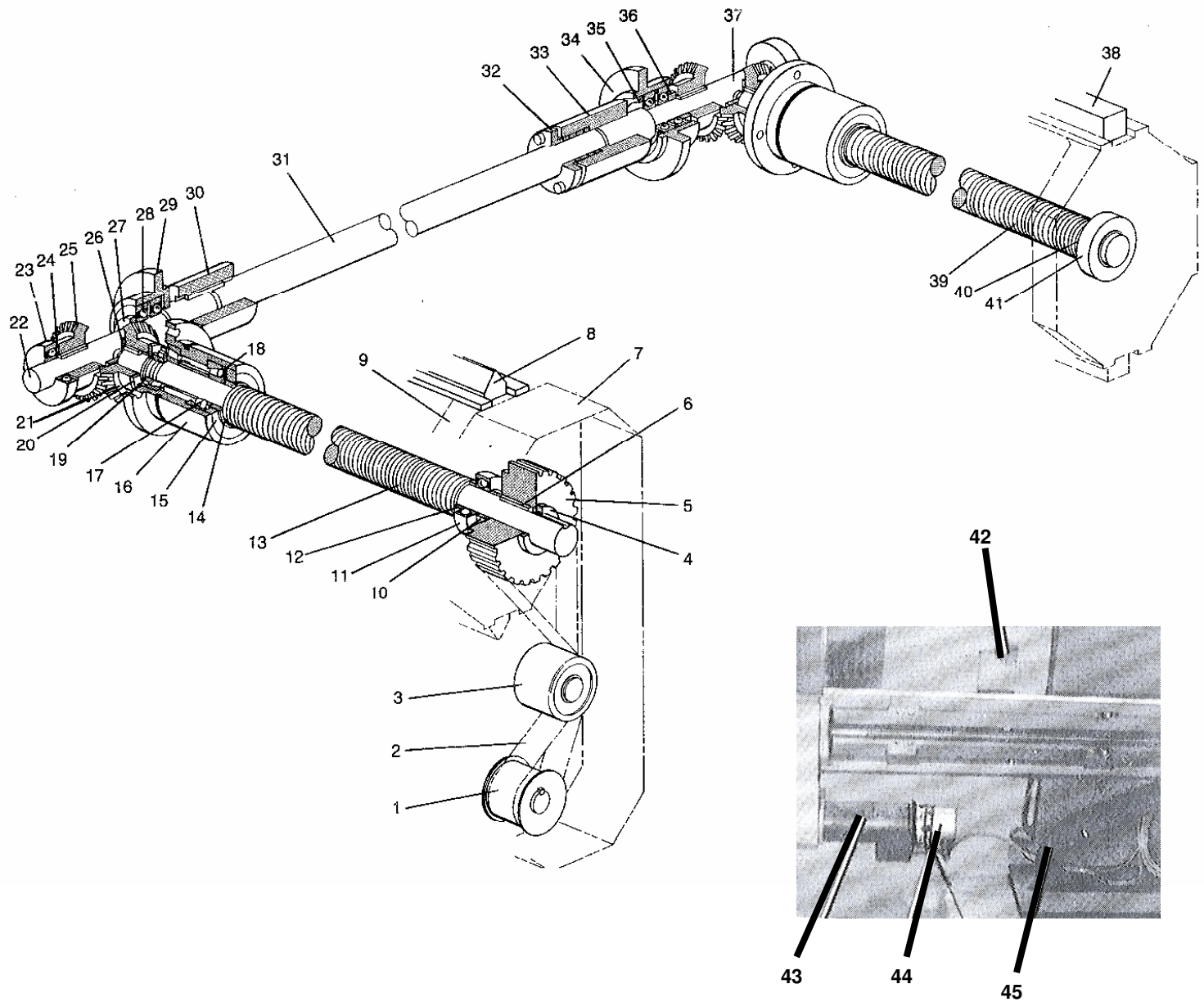


RT4 SERIES PRESS BRAKES

BACK GAUGE RAIL ASSEMBLY

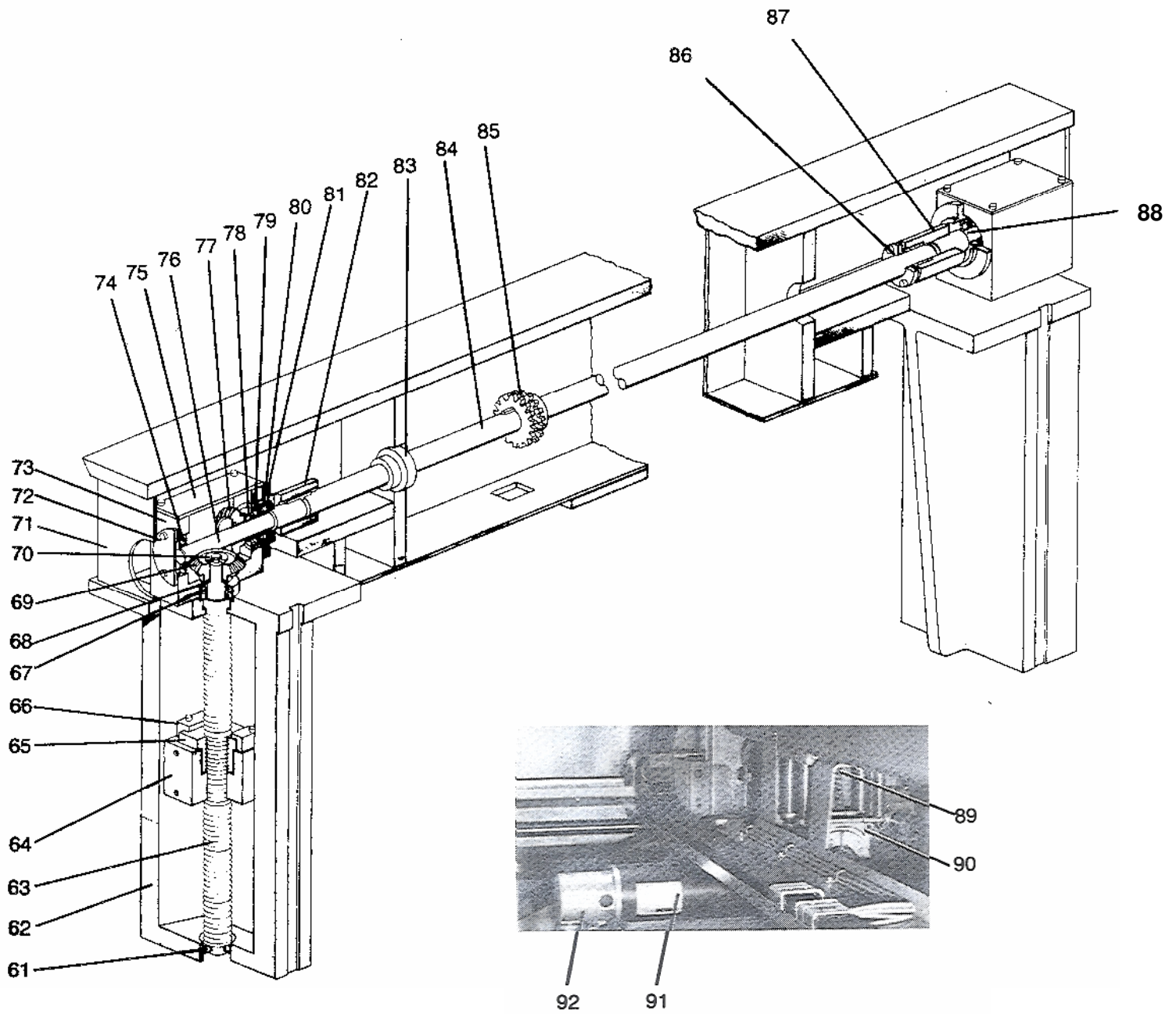


RT4 SERIES PRESS BRAKES

BACK GAUGE RAIL ASSEMBLY

ITEM NO.	DESCRIPTION	PART NUMBER
1	Pulley, Timing	6492-003
2	Belt, Timing	3413-009
3	Pulley, Take-Up	S40-032
4	Lock Nut & Washer	S040-PUR-001
5	Pulley, Timing	S040-PUR-015
6	Key	S040-PUR-011
7	Housing, Timing Belt Drive.....	S040-27B
8	Gib, V-Groove	S047-38A
9	Rail, Back Gage	S047-1C
10	Spacer, Timing Pulley	S040-15
11	Bearing	S040-PUR-007
12	Spacer, Bearing	S040-14
13	Screw, X-Axis R.H.	S047-3W
14	Spacer, Bearing	S040-REP13
15	Seal, Oil	S040-PUR-004
16	Housing, Bearing	S040-REP11
17	Bearing, Timpkin	S040-PUR-006
18	Spacer, Oil Seal	S040-12
19	Lock Nut & Washer	S040-PUR-001
20	Washer, Bevel Gear	S040-10A
21	Gear, Bevel (XH).....	S040-PUR-013
22	Shaft, R.H. Horz.	S040-REP5/1
23	Bearing	S040-PUR-008
24	Washer, Gear	S040-REP23
25	Gear, Bevel (VH).....	S040-PUR-014
26	Bushing	S040-PUR-018
27	Spacer	S040-REP7
28	Bearing	S040-PUR-006
29	Housing, Drive Shaft Bearing	S040-REP11
30	Coupling, Drive Shaft	S040-REP19/3
31	Shaft, Horiz. Drive	
	Model RT4 90X100	S040-300/3-2050
	Model RT4 90X122	S040-300/3-2600
	Model RT4 90X146	S040-300/3-3100
	Model RT4 90X168	S040-300/3-3820
	Model RT4 140X122	S040-300/3-2600
	Model RT4 140X146	S040-300/3-3100
	Model RT4 140X168	S040-300/3-3820
	Model RT4 140X200	S040-300/3-4600
	Model RT4 175X122	S040-300/3-2600
	Model RT4 175X146	S040-300/3-3100
	Model RT4 175X168	S040-300/3-3800
	Model RT4 250X122	S040-300/3-2600
	Model RT4 250X146	S040-300/3-3100
	Model RT4 250X168	S040-300/3-3820
	Model RT4 330X122	S040-300/3-2600
	Model RT4 330X146	S040-300/3-3100
	Model RT4 330X168	S040-300/3-3800
32	Clamp, Coupling Adj.	6392-052-ND
33	Coupling, BG Drive Shaft Adj.	6392-052-ND
34	Housing, Drive Shaft	S040-REP16
35	Spacer, Drive Shaft	S040-REP7
36	Spacer	S040-17
37	Shaft, LH Drive	S040-6
38	Gib, Flat (39")	S047-37A
39	Screw, 39" L.H.	S047-4W
40	Spacer, Bearing	S040-14
41	Bearing	S040-PUR-007
42	Switch, X-Axis Rear Limit	4110-440
43	Motor, X-Axis	4450-025
44	Encoder, X-Axis	3900-500-01
45	Duct, Elec. Wire	4358-300

RT4 SERIES PRESS BRAKES BACK GAUGE CROSS BEAM ASSEMBLY

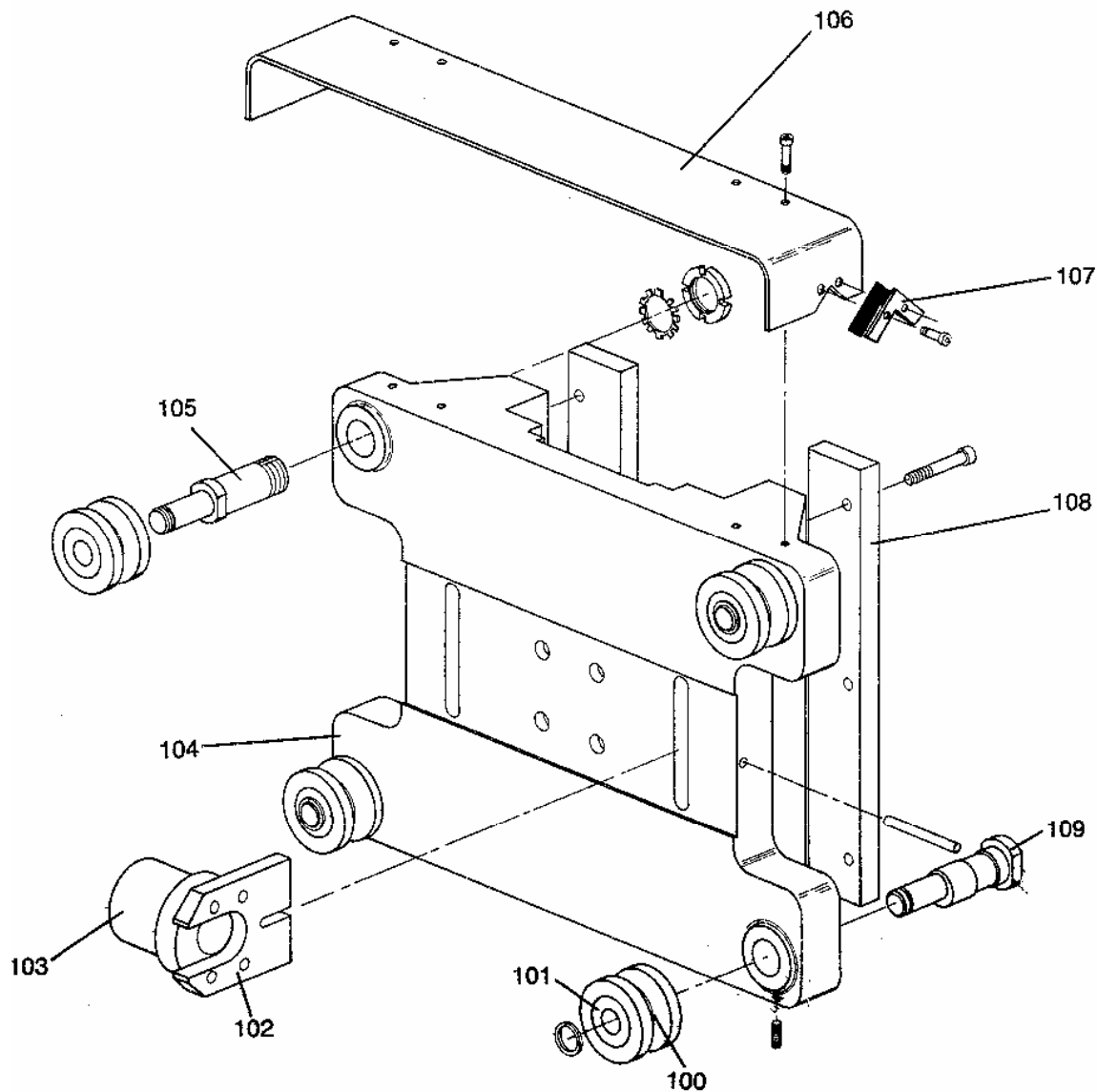


RT4 SERIES PRESS BRAKES

BACK GAUGE CROSS BEAM ASSEMBLY

ITEM NO.	DESCRIPTION	PART NUMBER
61	Bearing	3177-160
62	Housing, R-Axis	S044-REP500/1
63	Screw, R-Axis	S044-REP504/1A
64	Housing, R-Axis Nut	S044-513A
65	Nut, R-Axis Drive	S044-516A
66	Block, R-Axis Nut	S044-REP526C
67	Bearing	S040-PUR-023
68	Washer, Bevel Gear	S040-10A
69	Gear, Bevel	S040-PUR-013
70	Washer, Bevel Gear	S040-18
71	Beam, B/G Cross	
	Model RT4 90X100	S040-502-1A-2050
	Model RT4 90X122	S040-502-1A-2600
	Model RT4 90X146	S040-502-1A-3100
	Model RT4 90X168	S040-502-1A-3820
	Model RT4 140X122	S040-502-1A-2600
	Model RT4 140X146	S040-502-1A-3100
	Model RT4 140X168	S040-502-1A-3820
	Model RT4 140X200	S040-502-1A-4600
	Model RT4 175X122	S040-502-1A-2600
	Model RT4 175X146	S040-502-1A-3100
	Model RT4 175X168	S040-502-1A-3800
	Model RT4 250X122	S040-502-1A-2600
	Model RT4 250X146	S040-502-1A-3100
	Model RT4 250X168	S040-502-1A-3820
	Model RT4 330X122	S040-502-1A-2600
	Model RT4 330X146	S040-502-1A-3100
	Model RT4 330X168	S040-502-1A-3800
72	Cap, Gear Housing End	S040-22
73	Housing, R-Axis Gear	S044-550
74	Bearing	S040-PUR-009
75	Cover, Gear Housing	S044-530
76	Shaft, R.H. Horiz. Drive	S040-6
77	Gear, Bevel	S040-PUR-014
78	Collar, Drive Shaft	S040-REP7
79	Bearing	S040-PUR-008
80	Bearing	S040-PUR-009
81	Housing, Drive Shaft Bearing	S040-REP16
82	Coupling, B/G Drive Shaft	S040-REP19/3
83	Bearing, Flange Mtg.	3146-351
84	Shaft, R-Axis Cross	
	Model RT4 90X100	S040-REP544-2050
	Model RT4 90X122	S040-REP544-2600
	Model RT4 90X146	S040-REP544-3100
	Model RT4 90X168	S040-REP544-3820
	Model RT4 140X122	S040-REP544-2600
	Model RT4 140X146	S040-REP544-3100
	Model RT4 140X168	S040-REP544-3820
	Model RT4 140X200	S040-REP544-4600
	Model RT4 175X122	S040-REP544-2600
	Model RT4 175X146	S040-REP544-3100
	Model RT4 175X168	S040-REP544-3800
	Model RT4 250X122	S040-REP544-2600
	Model RT4 250X146	S040-REP544-3100
	Model RT4 250X168	S040-REP544-3820
	Model RT4 330X122	S040-REP544-2600
	Model RT4 330X146	S040-REP544-3100
	Model RT4 330X168	S040-REP544-3800
85	Sprocket, R-Axis Driven	6492-155
86	Clamp, Coupling Adj.	6392-052-ND
87	Coupling, Drive	6392-052-ND
88	Shaft, L.H. Horiz. Drive	S040-REP5/1
89	Chain, R-Axis Drive	S040-PUR-026
90	Reducer, R-Axis Gear	S040-PUR-025
91	Motor, R-Axis	4450-025-005
92	Encoder, R-Axis	3900-200

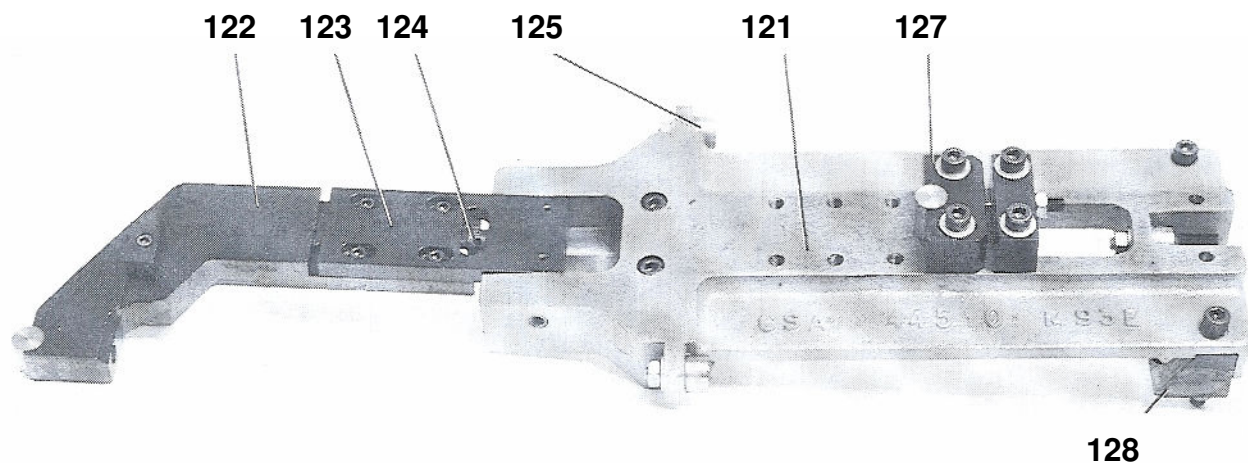
RT4 SERIES PRESS BRAKES BACK GAUGE CARRIAGE ASSEMBLY



ITEM NO.	DESCRIPTION	PART NUMBER
100	Roller, V-Groove (Roller Flat Top Not Shown)	S040-41
101	Bearing	S040-PUR-022
102	Plate, X-Axis Drive Nut	S040-36.11
103	Nut, X-Axis Drive	S047-3W
104	Carriage, X & R Axis	S044-501
105	Shaft, Top Roller	S040-42
106	Guard, Gib V-Roller (Guard, Gib Flat Roller Not Shown)	S040-45A
107	Wiper, V-Gib X-Axis (Wiper, Flat Gib X-Axis Not Shown)	S040-104
108	Gib, R-Axis	S044-REP527
109	Shaft, Bottom Roller	S040-43

RT4 SERIES PRESS BRAKES

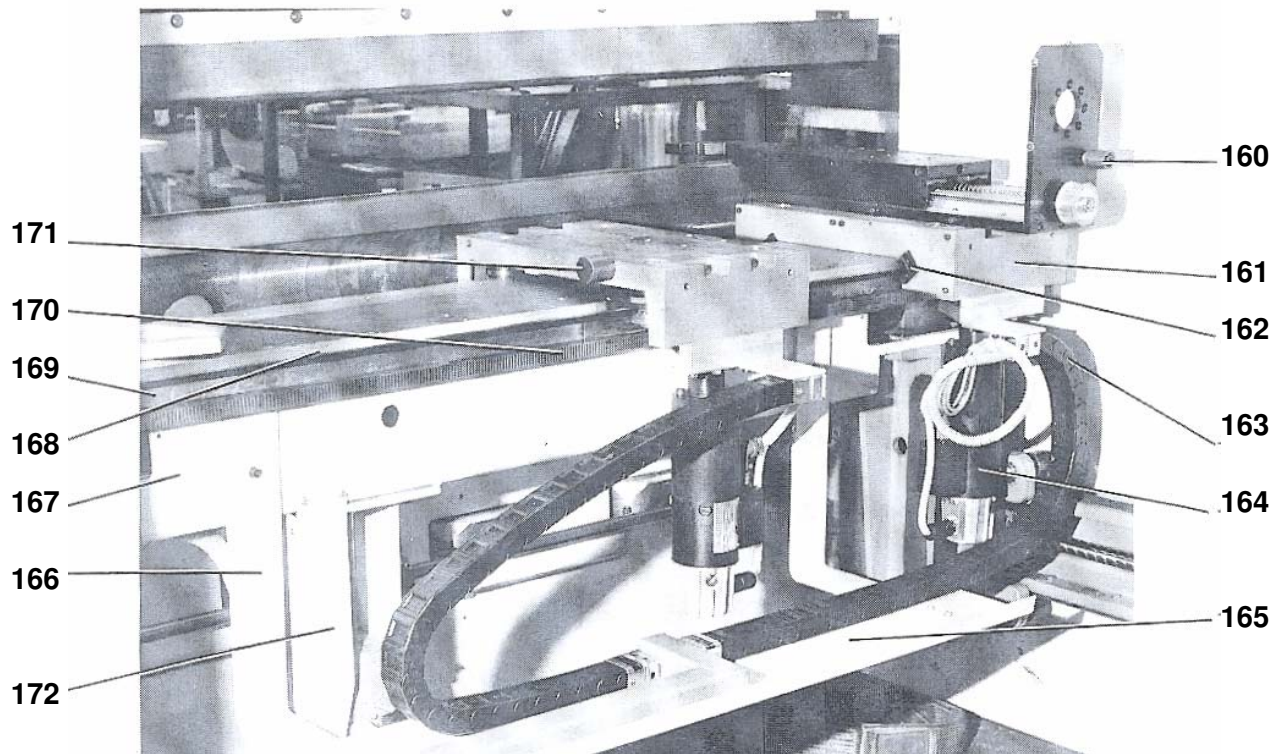
MANUAL Z1-Z2 FINGER ASSEMBLY



ITEM NO.	DESCRIPTION	PART NUMBER
121	Bracket, Z1-Z2 Finger	S044-R-510/1
122	Finger, Z1-Z2	S057-308
123	Flap, Z1-Z1 Support	S057-REP310
124	Disc, Z1-Z2 Adj. Finger	S057-REP312
125	Roller, Z1-Z2	S040-PUR-045
126	Clamp, Z1-Z2 Rear Finger	S040-511
127	Finger, 2 Step Rear	S057-010
128	Brg., Transfer	3107-321

RT4 SERIES PRESS BRAKES

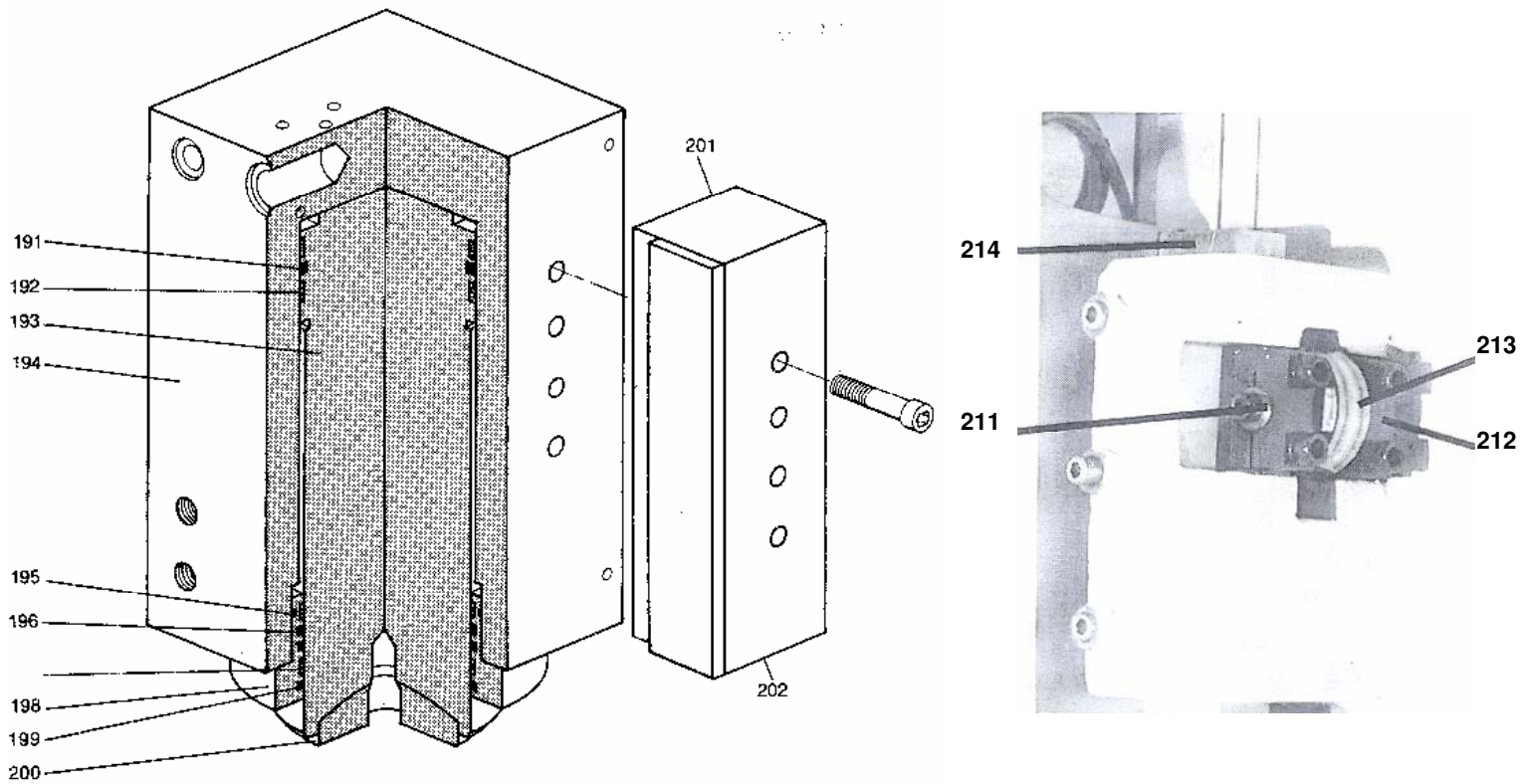
POWERED Z1-Z2 BACK GAUGE



ITEM NO.	DESCRIPTION	PART NUMBER
160	Unit, X-1 Finger	S066-02
161	Unit, Z1-Z2 Power	S055-1700
162	Wiper (Neoprene)	S040-104
163	Wire Duct	4358-309
164	Motor, Z1-Z2 W/Encoder	4450-025-025
165	Tray, Wire Support	6492-220
166	Bracket, Tray Support	6492-214
167	Beam, B/G Z1-Z2 Cross	
	RT4 X100	S055-REP502-2050
	RT4 X122	S055-REP502-2600
	RT4 175 X 168	S055-REP502-3100
	RT4 330 X 168	S055-REP502-3800
	RT4 90 X 168	S055-REP502-3800
	RT4 140 X 168	S055-REP502-3820
	RT4 250 X 168	S055-REP502-3800
168	Plate, Cross Beam Top	
	RT4 X 100	6492-018
	RT4 X 122	6492-020
	RT4 X 146	6492-053
	RT4 175 X 168	6492-192
	RT4 330 X 168	6492-192
	RT4 90 X 168	6492-217
	RT4 140 X 168	6492-217
	RT4 250 X 168	6492-217
169	Adapter, Gear Rack	6492-205
170	Rack, Gear	6492-212
171	Bumper	4540-273
172	Bracket, Gear Reducer	6492-256

RT4 SERIES PRESS BRAKES

MAIN HYDRAULIC CYLINDER, UPPER & LOWER GUIDES

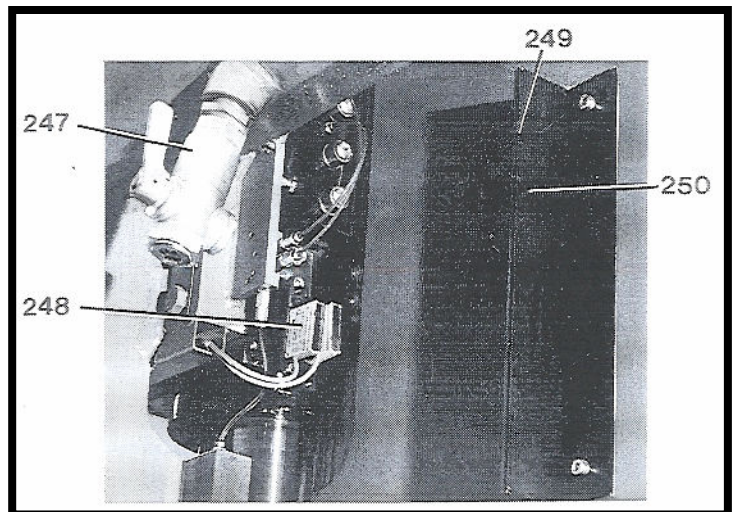
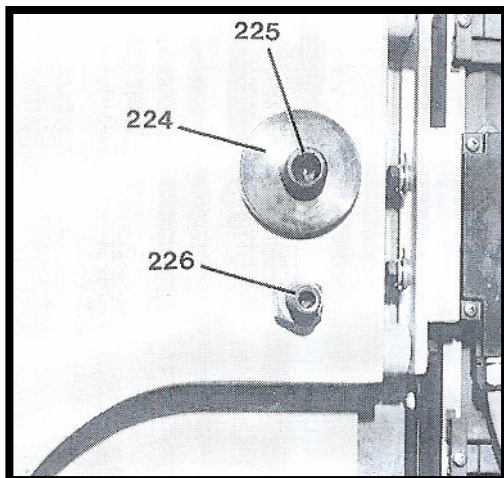
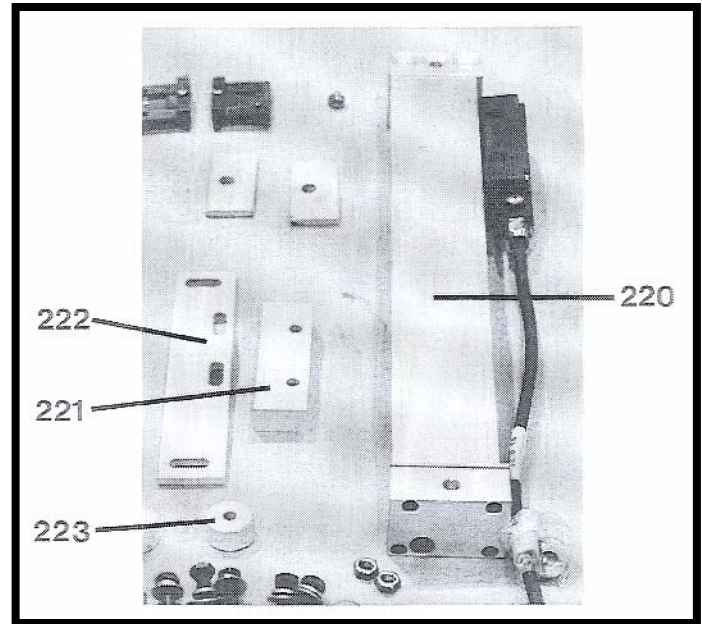
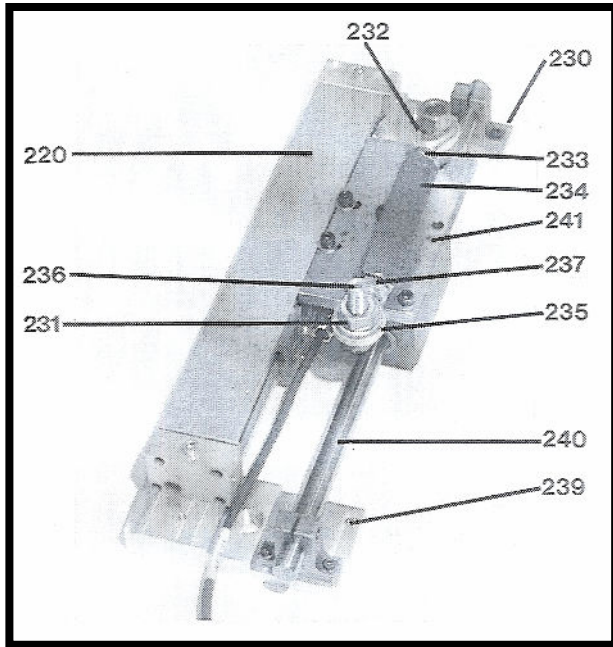


ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
191	Glyd Ring	91.081.150.430.0	91.081.180.438.0	91.081.200.441.0	91.081.24 0.446.0	91.081.275.448.0
192	Slyd Ring	91.083.150.150.0	91.083.150.180.0	91.083.150.200.0	91.083.15 0.240.0	91.082.250.275.0
193	Rod, Hyd. Cylinder	708.08.20.000.00	712.08.10.100.00	716.08.14.000.00	722.0 8.14.000.00	730.08.15.000.00
194	Housing, Hyd. Cylinder	708.08.10.000.00	612.08.14.000.00	716.08.10.000.00	722.0 8.10.000.00	730.08.19.000.00
195	O-Ring	3255-209	3255-214	3255-217	3255-254	91.100.090.379.0
196	Step Seal	91.080.145.359.0	91.080.173.365.0	91.080.190.368.0	91.080.23 0.448.0	91.080.260.450.0
197	Slyd Ring	91.083.150.150.0	91.082.150.173.0	91.082.150.190.0	91.082.15 0.230.0	91.082.250.260.0
198	Cap, Hyd. Cylinder Rod	708.08.19.000.00	712.08.11.100.00	716.08.12.000.00	722.08.15. 000.00	730.08.16.000.00
199	Double Scraper	91.084.000.145.0	91.084.000.173.0	91.084.000.190.0	91.084 .000.230.0	91.084.000.260.0
200	Washer, Large Convex Rod	708.08.13.000.00	612.08.17.000.00	716.08.13.000.00	720.08.17. 000.00	730.08.17.000.00
201	Gib, Upper Front	612.05.10.000.00	612.05.10.000.00	612.05.10.000.00	720.05.1 6.000.00	730.05.11.000.00
202	Gib, Upper Rear	705.05.10.000.00	705.05.10.000.00	705.05.10.000.00	720.05.16 .000.00	730.05.11.000.00
203	Washer, Concave	708.08.15.000.00	612.08.11.000.00	720.08.11.000.00	720.08 .11.000.00	730.08.11.000.00
204	Washer, Convex	708.08.16.000.00	612.08.12.000.00	720.08.12.000.00	720.08. 12.000.00	730.08.12.000.00
205	Nut, Cylinder To Ram	708.08.17.000.00	612.08.13.000.00	720.08.13.000.00	720.08.13. 000.00	730.08.13.000.00

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
211	Shaft, Eccentric	612.05.14.100.00	612.05.14.100.00	612.05.14.100.00	720. 05.14.100.00	720.05.14.100.00
212	Clamp	712.05.10.000.00	712.05.10.000.00	712.05.10.000.00	720 .05.15.000.00	720.05.15.000.00
213	Roller	90.079.030.072.0	90.079.030.072.0	90.079.030.072.0	90 .079.040.090.0	90.079.040.090.0
214	Gib, Lower L.H.	708.05.10.000.00	612.05.13.000.00	612.05.13.000.00	720.02.10 .100.00	720.02.10 .100.00
214A	Gib, Lower R.H.	708.05.10.000.00	612.05.13.000.00	612.05.13.000.00	720.02.10 .002.00	720.02.10 .002.00

RT4 SERIES PRESS BRAKES

Y1-Y2 LINEAR ENCODER



INFRARED LIGHT BEAM

LINEAR ENCODER

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
220	Encoder, Linear	3900-100	3900-100	3900-100	3900-270	3900-270
221	Block, Encoder Head	612.16.13.000.00	612.16.13.000.00	612.16.13.000.00		
222	Strip, Encoder	612.16.10.000.00	612.16.10.000.00	612.16.10.000.00		
223	Spacer, Encoder	612.16.11.000.00	612.16.11.000.00	612.16.11.000.00		
224	Washer, Encoder	612.16.12.000.00	612.16.12.000.00	612.16.12.000.00	612.16.12.000.00	612.16.12.000.00
225	Screw, Socket Head Cap	3303-737	3303-737	3303-737	3303-737	3303-737
226	Screw, Socket Hd. Set & Nut	3306-736,3319-305	3306-736,3319-305	3306-736,3319-305	3306-736,3319-305	3306-736,3319-305
227	Connector	3905-013	3905-013	3905-013		
230	Base, Linear Encoder Top				6492-200	6492-200
231	Spacer, Hex Nut				6492-097	6492-097
232	Rod End, R.H. Thd.				3132-260	3132-260
233	Nut, Jam R.H. Thd.				3320-025	3320-025
234	Turnbuckle				6492-096	6492-096
235	Rod End, L.H. Thd.				3132-262	3132-262
236	Stud, Encoder Locating				6492-095	6492-095

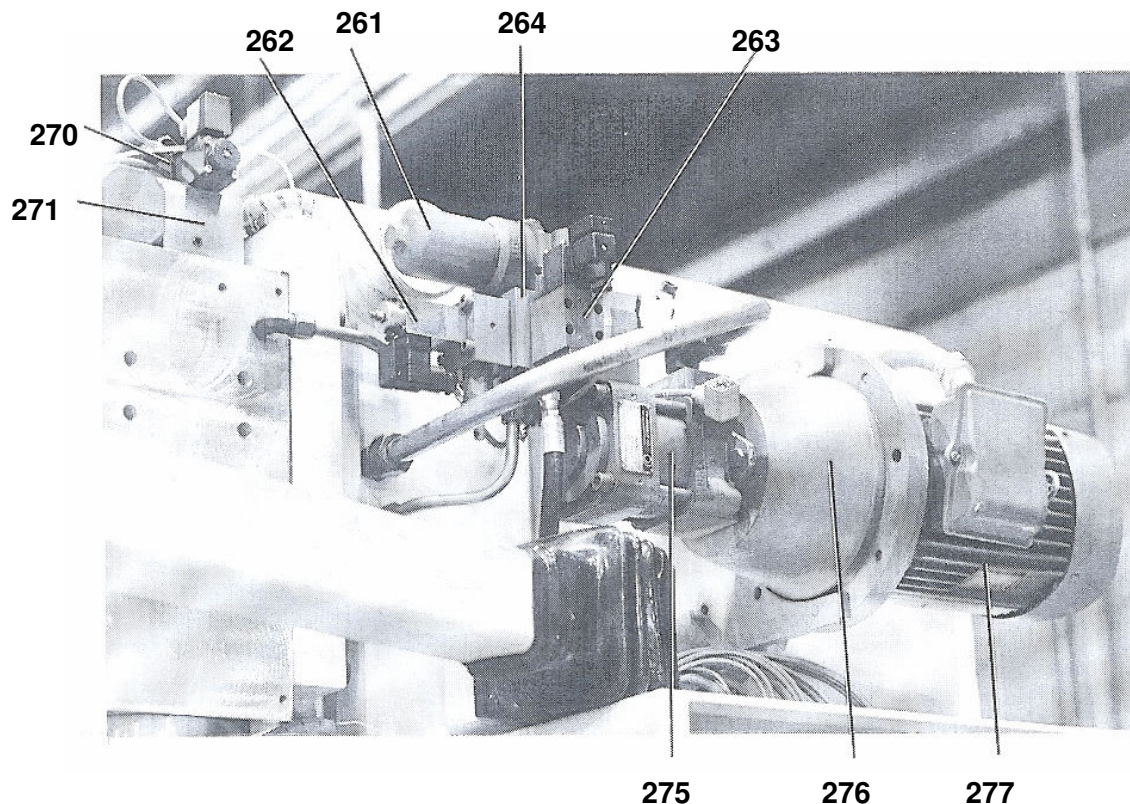
LINEAR ENCODER

237	Nut, Jam L.H. Thd.	3320-026	3320-026
238	Spring, Extension (Not Shown-Under turnbuckle)	746.16.20.000.00	746.16.20.000.00
239	Base, Linear Encoder Bottom	6492-201	6492-201
240	Guide, Encoder	91.056.016.002.1	91.056.016.002.1
241	Plate, R.H. Connection	721.16.11.100.00	721.16.11.100.00
241A	Plate, L.H. Connection	721.16.12.100.00	721.16.12.100.00

INFRARED LIGHT BEAM

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
247	Valve, Hyd. Tank Drain	3761-022	3761-022	3761-022	3761-022	3761-022
248	Switch, Photo	4112-002	4112-002	4112-002	4112-002	4112-002
249	Bracket, Mirror Support	612.15.18.000.00	612.15.18.000.00	612.15.18.000.00	730.15.10.000.00	730.15.10.000.00
250	Mirror	612.15.18.002.ND	612.15.18.002.ND	612.15.18.002.ND	730.15.10.001.ND	730.15.10.001.ND

FILTER MANIFOLD, CYLINDER MANIFOLD, HYDRAULIC PUMP



FILTER MANIFOLD

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
260	Sensor, Pressure Filter	4166-901	4166-901	4166-901	4166-901	4166-901
261	Filter, Pressure	91.327.250.032.0	91.327.250.032.0	91.327.250.056.0	91.327.250.090.0	91.327.250.090.0
262	Valve, Prop. Pressure	91.520.000.001.0	91.520.000.001.0	91.520.000.001.0	91.520.000.001.0	91.520.000.001.0
263	Valve, Bed Comp.	91.540.350.024.0	91.540.350.024.0	91.540.350.024.0	91.540.350.024.0	91.540.350.024.0
264	Manifold, Pump	612.11.11.100.00	612.11.11.100.00	745.11.11.000.00	745.11.11.000.00	745.11.11.000.00

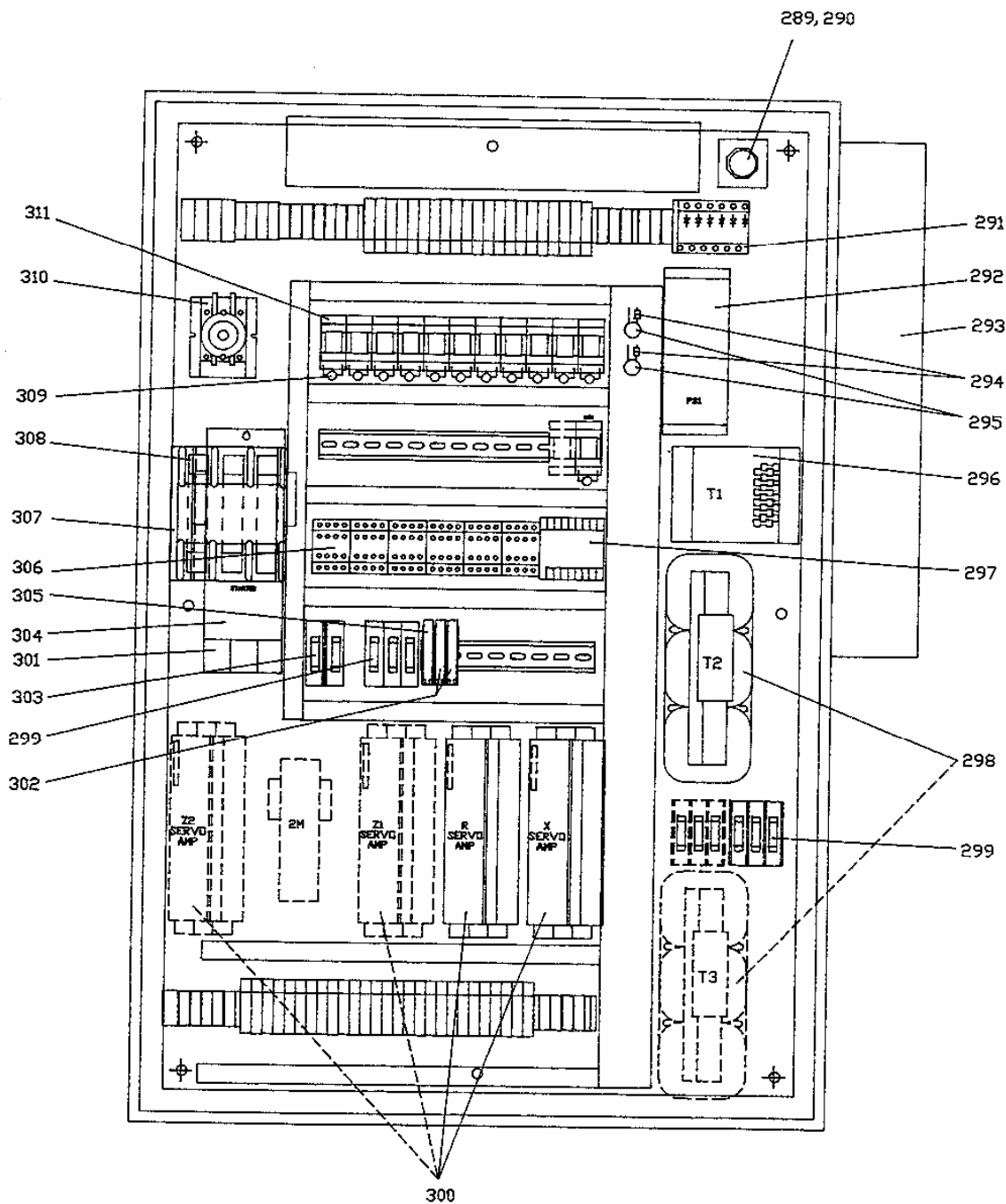
CYLINDER MANIFOLD

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
270	Valve, 4-Way	91.521.000.001.0	91.521.000.001.0	91.521.000.002.0	91.521.000.002.0	91.521.000.002.0
271	Manifold, Main Cyl.	612.11.10.100.00	612.11.10.100.00	745.11.10.000.00	745.11.10.000.00	745.11.10.000.00

CYLINDER MANIFOLD

ITEM NO.	DESCRIPTION	RT4 90 Ton	RT4 140 Ton	RT4 175 Ton	RT4 250 Ton	RT4 330 Ton
275	Pump, Hydraulic	91.272.033.010.0	91.272.033.012.0	91.272.043.020.0	91.272.043.032.0	91.272.043.032.0
276	Flange, Pump	90.251.300.411.0	3257-062	90.251.350.420.0	90.251.350.420.0	90.251.350.420.0
277	Motor, Main	92.011.132.550.4	4424-053	92.011.160.110.4	92.012.160.150.4	92.012.160.150.4

RT4 SERIES PRESS BRAKES ELECTRICAL PANEL



RT4 SERIES PRESS BRAKES

ELECTRICAL PANEL

ITEM NO.	DESCRIPTION	RT4 90 TON	RT4 140 TON	RT4 175 TON	RT4 250 TON	RT4 330 TON
289	Push Button	4128-201	4128-201	4128-201	4128-201	4128-201
290	Contact Block	4130-011	4130-011	4130-011	4130-011	4130-011
291	Diode Block	4175-201	4175-201	4175-201	4175-201	4175-20
292	Power Supply	3901-224-01	3901-224-01	3901-224-01	3901-224-01	3901-224-01
293	Heat Exchanger	3773-356	3773-356	3773-356	3773-356	3773-356
294	Resistor	3952-101	3952-101	3952-101	3952-101	3952-101
295	Capacitors	3943-471	3943-471	3943-471	3943-471	3943-471
296	Transformer	4177-901	4177-901	4177-901	4177-901	4177-901
297	Stroke Interlock	4059-101	4059-101	4059-101	4059-101	4059-101
298	Transformer	4177-901	4177-901	4177-901	4177-901	4177-922
299	Fuse	4328-615	4328-615	4328-615	4328-615	4328-615
300	Servo Amplifier	4100-101	4100-101	4100-101	4100-101	4100-101
301	Heater, Overload 230v.	4125-514	4125-514	4125-516	4125-521	4125-521
301A	Heater, Overload 460v.	4125-512	4125-511	4125-512	4125-514	4125-514
302	Fuse	4326-012	4326-012	4326-012	4326-012	4326-012
303	Fuse	4328-602	4328-602	4328-602	4328-602	4328-602
304	Starter	4150-843	4150-843	4150-843	4150-844	4150-844
305	Fuse	4326-058	4326-058	4326-058	4326-058	4326-058
306	Suppressor	4137-002	4137-002	4137-002	4137-002	4137-002
307	Fuse Block	4329-104	4329-104	4329-104	4329-105	4329-105
308	Fuse @230v.	4328-740	4328-740	4328-770	4328-770	4328-770
308A	Fuse@460v.	4328-725	4328-725	4328-735	4328-740	4328-740
309	Suppressor	3903-005	3903-005	3903-005	3903-005	3903-005
310	Disconnect	4171-143	4171-143	4171-143	4171-144	4171-144
311	Relay	4134-705	4134-705	4134-705	4134-705	4134-705