

Parts List for 87,700 Series Brakes (rev. A)

Information required when ordering replacement parts:

Give part number of parts or kits needed, brake model number, and brake serial number. The brake model and serial number may identify special brakes not covered by this parts list.

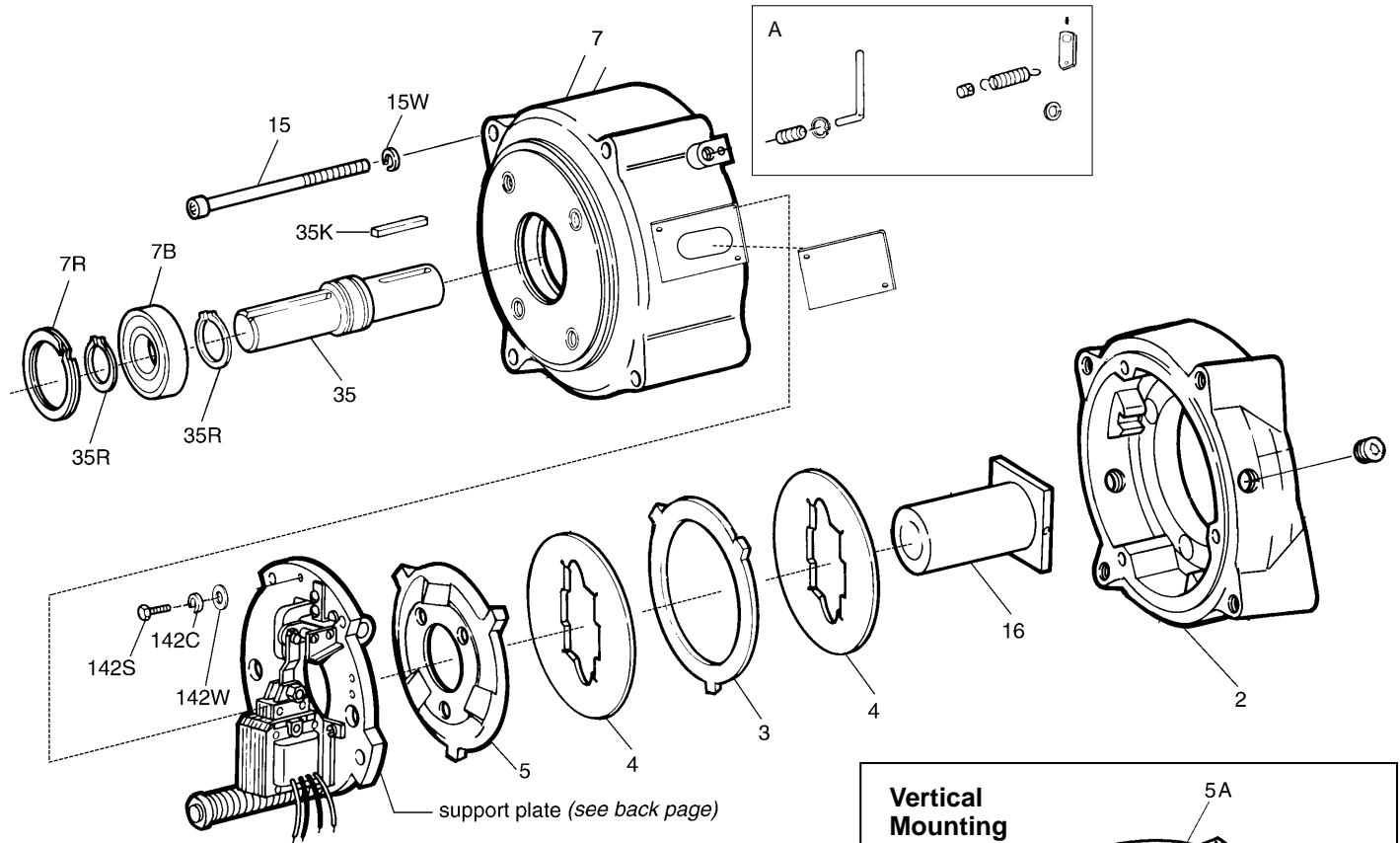
Description items in **CAPITALIZED BOLD ITALICS>** are recommended spare parts. One set per 5 brakes in service is recommended.

Enclosures are designated as follows:

O = Standard **E** = Dust-tight, waterproof (DTWP)

Housing and manual release assembly (Item B) includes manual release kit (Item BA).

For installation and service instructions, see Sheet 8-078-927-07. Detailed service instruction sheet is included with each kit.



Stearns®

SEE INSTALLATION AND SERVICE SHEET OR INSTALLATION LABEL INSIDE OF HOUSING BEFORE INSTALLING, OPERATING OR SERVICING BRAKE.

Model number 108775101QG	Rev. A	Serial number
Torque lb-ft	Mounting	Amps inrush
Volts	Hertz	Amps holding

LR 6254

Raymond Corporation, Stearns Division
Milwaukee, WI 53202 (414) 272-1100

Note:
MODEL NUMBER
will appear on brake
nameplate.

REVISION CONTROL
(if applicable) and
brake serial number

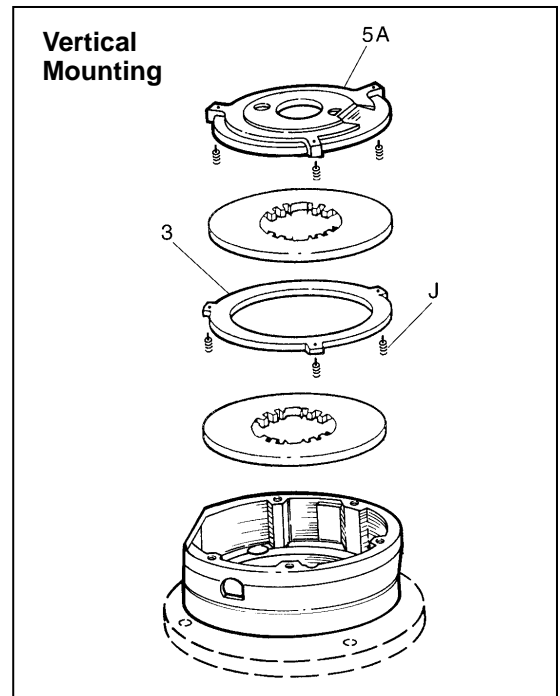


TABLE 1
Components of AC and DC Brake

Item	Description	Brake Model Number →	1-087-7XX-01* 1-1/8 Shaft						1-087-7XX-03* 1-3/8 Shaft						1-087-7XX-05* 1-5/8 Shaft							
			Torque (lb-ft) →		6 thru 35		50 and 75		105		6 thru 35		50 and 75		105		6 thru 35		50 and 75		105	
			O	E	O	E	O	E	O	E	O	E	O	E	O	E	O	E	O	E	O	E
7R	Retaining ring (housing) Retaining ring (housing)	9-03-0076-00 9-03-0126-00	1	1	1	1	1	1														
35R	Retaining ring (shaft) Retaining ring (shaft)	9-03-0132-00 9-03-0133-00	2	2	2	2	2	2														
7B	Ball bearing Ball bearing	9-01-0506-00 9-01-0509-00	1	1	1	1	1	1														
35	Brake shaft Brake shaft Brake shaft	8-035-709-00 8-035-710-00 8-035-711-00	1	1	1	1	1	1														
35K	Key Key Key	9-50-1030-00 9-50-1230-00 9-50-1430-00	1	1	1	1	1	1														
7	Housing and manual release assembly Housing and manual release assembly Housing and manual release assembly Housing and manual release assembly	5-07-7031-00 5-07-7032-00 5-07-7033-00 5-07-7034-00	1		1		1															
A	Manual release kit	5-55-7002-00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
15	Housing cap screw	9-16-3486-00	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
15W	Lock washer spring medium 1/2	9-45-0334-00	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
not shown	Pipe plug (drain)	9-33-0325-00		1		1		1		1		1		1		1		1		1		
5	PRESSURE PLATE	8-005-708-01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
4	FRICION DISC KIT - STANDARD	5-66-8472-00	1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3	3	
3	STATIONARY DISC KIT	5-66-8372-00	0	0	1	1	2	2	0	0	1	1	2	2	0	0	1	1	2	2	2	
16	Hub and set screw assembly Hub and set screw assembly Hub and set screw assembly	5-16-7110-00 5-16-7111-00 5-16-7112-00	1	1		1	1			1	1		1	1			1	1		1	1	
2	Endplate Endplate Endplate Endplate Endplate Endplate	8-002-788-20 8-002-789-20 8-002-790-20 8-002-788-22 8-002-789-22 8-002-790-22	1			1				1			1				1				1	
142S	Machine screw 1/4 - 20 x 7/8 hex head	9-13-3060-00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
142C	Conical spring washer, 1/4	9-46-0006-00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
142W	Flat washer 1/4 I.D. x 9/16 O.D.	9-46-0005-00	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
not shown	O ring gasket (housing-to-endplate)	8-073-002-04		1		1		1		1		1		1		1		1		1		
not shown	O ring gasket (each end of brake)	8-073-002-03		2		2		2		2		2		2		2		2		2		
2P	Pipe plug (external lead holes)	9-33-0914-00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Vertical Modification - for stationary disc(s) see Item 3 Table 1																						
5A	PRESSURE PLATE	8-005-708-12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
J	VERTICAL SPRING KIT (STANDARD)	5-66-3176-00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	VERTICAL SPRING KIT (BRASS)	5-66-3177-00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	

* X in brake model number denotes variables in torque rating, enclosure and current. i.e. 1-087-7XX-01

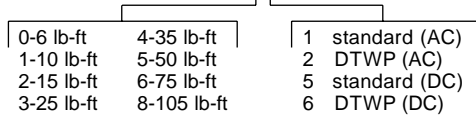


TABLE 2
Components of Support Plate and Coil Assembly*

Item	Description	Part Number	Torque (lb-ft)			
			6 10	15	25 50	35 75 105
126	Support plate and bearing assembly	5-26-7006-00	1	1	1	1
22	Solenoid lever stop	8-022-203-00	1	1	1	1
76	Wrap spring stop	8-076-703-00	1	1	1	1
76S	Screw (wrap spring stop) 10-24 x 1/2	9-25-7331-00	2	2	2	2
79P	Spacer (solenoid)	8-179-701-00	1	1	1	0
8	SOLENOID LEVER AND PINION KIT	5-96-7371-00	1	1	1	1
170	Release plate	8-170-706-00	1	1	1	1
170N	Nut (release plate) 1/4 x 20	9-40-3730-00	2	2	2	2
170S	Cap screw (release plate)	9-15-1031-00	2	2	2	2
171	Spacer (release plate)	8-141-707-00	2	2	2	2
17	Lever arm assembly	5-17-7005-00	1	1	1	1
130	Pivot pin (lever arm)	9-32-3111-00	1	1	1	1
152P	Pivot pin (spring tube)	9-32-4059-00	1	1	1	1
130B	Bearing (washer type)	8-138-701-00	2	2	2	2
19 & 152	Pressure spring tube kit	5-66-7471-00	1	1	1	1
11	Pressure spring kit black (formerly blue)	5-66-3072-00	1			
	Pressure spring kit white (formerly yellow)	5-66-3074-00		1		
	Pressure spring kit orange (formerly red)	5-66-3076-00			1	
	Pressure spring kit purple (formerly green)	5-66-3078-00				1
AC Brakes						
U	NO. 5 AC SOLENOID KIT	5-66-5051-00	1			
	NO. 6 AC SOLENOID KIT	5-66-5061-00		1	1	
	NO. 8 AC SOLENOID KIT	5-66-5082-00				1
13B	Solenoid link	8-013-708-00	1	1	1	
	Solenoid link	8-013-709-00				1
13C	SOLENOID LINK CAP SCREW	8-157-701-00	1			
	SOLENOID LINK CAP SCREW	8-157-702-00		1	1	
	SOLENOID LINK CAP SCREW	8-157-703-00				1
V	NO. 5 COIL KIT 60 HZ	115/230 Vac	5-66-6507-33	1		
		230/460 Vac	5-66-6509-33	1		
		115 Vac	5-66-6501-33	1		
		230 Vac	5-66-6502-33	1		
		460 Vac	5-66-6504-33	1		
		575 Vac	5-66-6505-33	1		
	NO. 6 COIL KIT 60 HZ	115/230 Vac	5-66-6607-33		1	1
		230/460 Vac	5-66-6609-33		1	1
		115 Vac	5-66-6601-33		1	1
		230 Vac	5-66-6602-33		1	1
		460 Vac	5-66-6604-33		1	1
		575 Vac	5-66-6605-33		1	1
	NO. 8 COIL KIT 60 HZ	115/230 Vac	5-66-6807-33			1
		230/460 Vac	5-66-6809-33			1
		115 Vac	5-66-6801-33			1
		230 Vac	5-66-6802-33			1
		460 Vac	5-66-6804-33			1
		575 Vac	5-66-6805-33			1
XX**	Brake release interlock switch	5-57-5517-00	1	1	1	1
DC Brakes						
W	No. 5 DC solenoid assembly	5-12-5557-00	1			
	No. 6 DC solenoid assembly	5-12-5567-00		1	1	
	No. 8 DC solenoid assembly	5-12-5588-00				1
VV	No. 5 Coil Assembly	115 Vdc	5-96-6516-00	1		
		230 Vdc	5-96-6517-33	1		
		No. 6 Coil Assembly	115 Vdc	5-96-6616-33		1
		230 Vdc	5-96-6617-33		1	1
	No. 8 Coil Assembly	115 Vdc	5-96-6816-33			1
		230 Vdc	5-96-6817-33			1
X	DC switch assembly	5-57-5501-00	1	1	1	
	DC switch assembly	5-57-5503-00				1
Y	Arc suppression module	5-57-5711-00	1	1	1	1

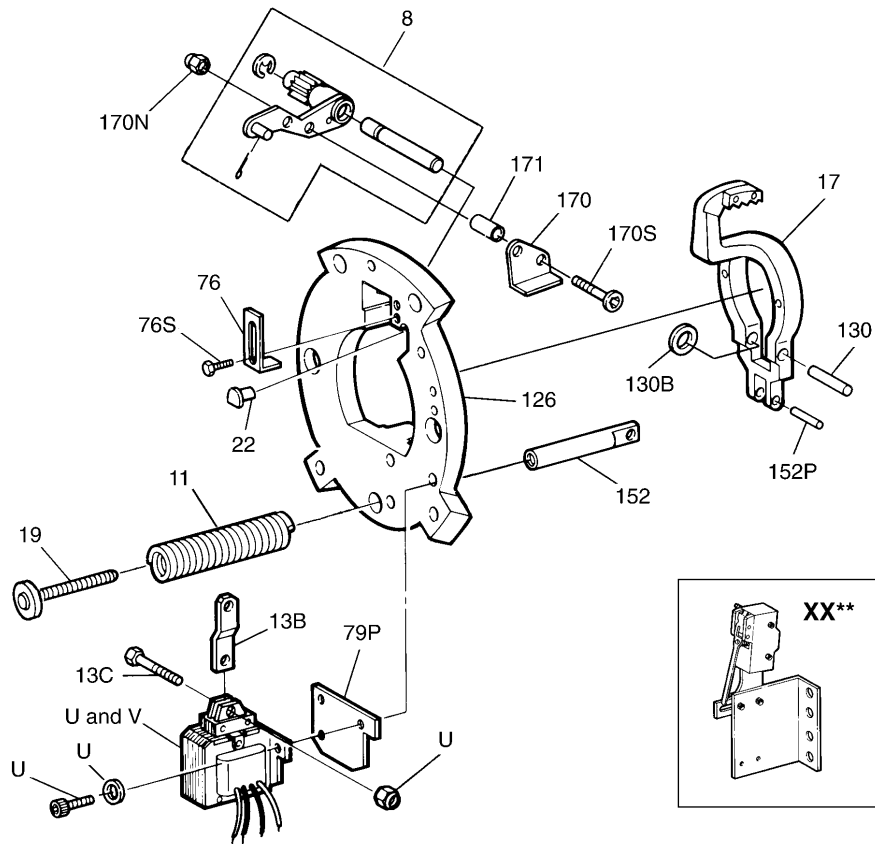
*Consult factory for price and availability on complete support plate assemblies including solenoid.

**AC brakes with the brake release interlock (N.O.) switch Item XX use Item W solenoid assembly for switch mounting in place of Item U.

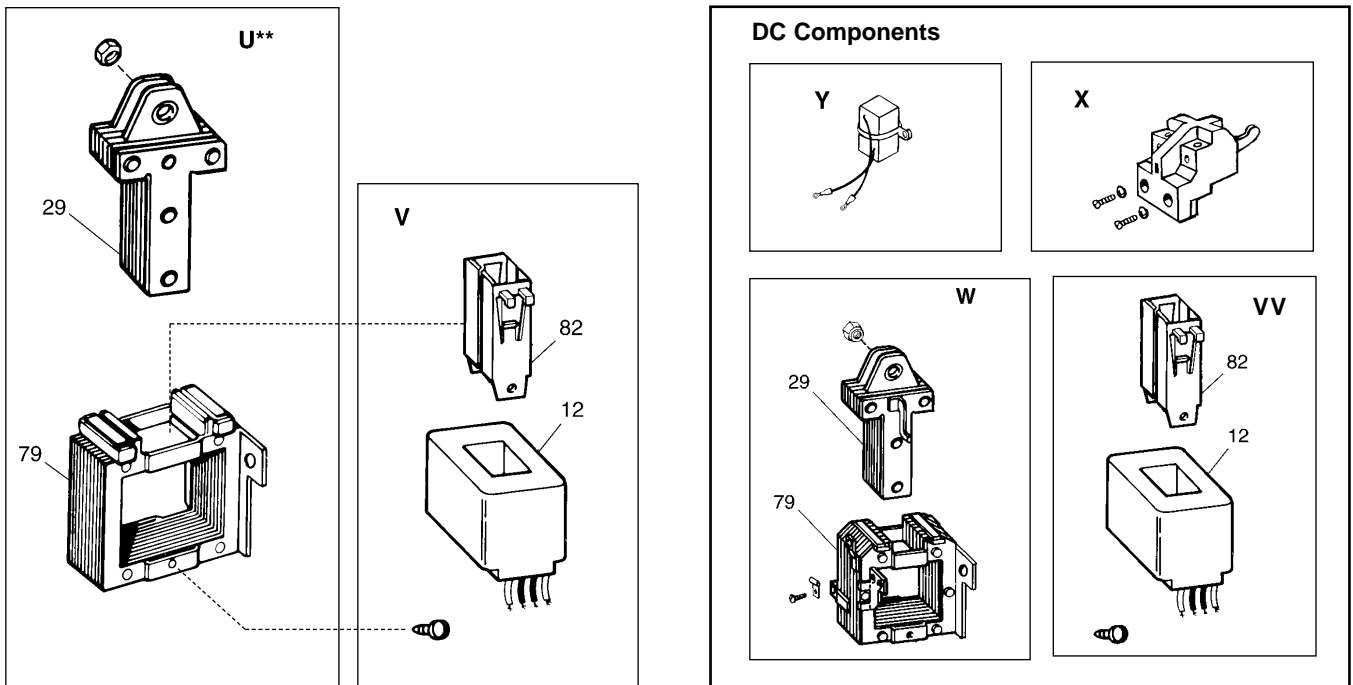
TABLE 3
Contents of Kits and Assemblies (contents may vary)

Letter Designation	Kit Description
4	Friction disc kit standard (5-66-8472-00) 1 Friction disc
3	Stationary disc kit (5-66-8372-00) 1 Stationary disc
J	Vertical above spring and spacer kit (5-66-3171-00) 9 Vertical above mounting springs 9 Vertical above spring spacers
8	Solenoid lever and pinion kit (5-96-7371-00) 1 Solenoid lever and pinion assembly 1 Cotter pin 1 Solenoid lever pivot pin 1 Pivot pin retaining ring
19 & 152	Pressure spring tube kit (5-66-7471-00) 1 Pressure spring tube 1 Pressure spring screw 1 Spring tube pivot pin
11	Pressure spring kit (5-66-307X-00) 1 Pressure spring
U	AC solenoid kit (5-66-50XX-00) 1 Plunger 1 Frame 3 Solenoid mounting screws 3 Solenoid mounting conical spring washers 1 Solenoid link nut 1 Drive loc pin (for #8 solenoid only) (not shown) 1 Washer (for #8 solenoid only) (not shown)
V	Coil kits (5-66-6XXX-33) AC coils 1 Coil 2 Plunger guides 2 Plunger guide screws
VV	Coil assembly (5-96-6XXX-33) DC coils 1 Coil 2 Plunger guides 2 Plunger guide screws
W	DC solenoid assembly (5-12-55XX-00) 1 Plunger 1 Frame 3 Solenoid mounting screws 3 Conical spring washers 1 Solenoid link nut 1 Cable clamp and screw
X	DC switch assembly (5-57-5501-00 or 5-57-5503-00) 1 DC switch 2 Mounting screws 2 Lock washers
XX	AC switch assembly (5-57-5504-00 or 5-57-5506-00) (brake release interlock switch N.O.) 1 AC switch 2 Mounting screws 2 Lock washers
Y	Arc suppression module (5-57-5711-00) 1 Arc suppression module 1 Cable strap
A	Manual release kit (5-55-7002-00) Spring anchor Roll pin Retaining ring Release spring Bearing Release lever Release arm O ring

Support Plate Assembly



Solenoid and Coil



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