

1. FOR WIRING DIAGRAM SEE 025-349770, FOR SCHEMATIC DIAGRAM SEE 020-349769.
2. FOR TEST SPECIFICATIONS SEE 001-355931, FOR U/L TEST SPECIFICATION SEE 001-340514.
3. ALL LABELS TO BE POSITIONED IN AREAS APPROXIMATELY AS SHOWN

④ WHEN REQUIRED, ITEM 18 (PLATE, FRENCH COMPLIANCE) TO BE ATTACHED AS SHOWN, USING ITEM 78 (RIVETS), IN HOLES LOCATED TO MATCH.

5. TENSION OF ITEM 189 (HINGES), TO BE ADJUSTED SUCH THAT WHEN RAISED TO AN ANGLE OF 30°, ITEM 105 (DOOR) WILL REMAIN IN POSITION.

⑥ MARKETING TO CHOOSE PROPER POWER CORD BASED ON SALES ORDER.

⑦ ITEM 13 (LABEL, SERIAL NO.) TO HAVE SAME SERIAL NO. AS ON ITEM 16 OR 17 (NAME RATING PLATE).

⑩ ⑧ ADJUST ITEM 143 (LOCK STRIKE) TO MAINTAIN A GOOD SEAL BETWEEN ITEM 105 (DOOR) AND ITEM 89 (GASKET, BOWL), WHEN RUNNING A GH-3.7 ROTOR AT RATED SPEED.

⑨ CONNECTIONS TO ITEM 183 (RESISTOR, VARIABLE) TO BE MADE PER WIRING DIAGRAM USING ITEM 288 (SOLDER, 50/50).

⑩ DOOR LOCK EMERGENCY OPERATING STRING TO BE TIED OFF CLOSE TO ITEM 203 (GROMMET), EXCESS TO BE TRIMMED.

⑩ ⑪ APPLY ITEM 259 (LOCTITE) TO APPROPRIATE THREADS ON ITEM 241 (SCREW) BEFORE INSTALLING IN ITEM 102 (MTR. MTG. PLATE).

⑫ THE TWO MOUNTING SCREWS FOR ITEM 197 (TIMER) ARE SUPPLIED WITH THE TIMER.

⑩ ⑬ TIGHTEN ITEM 277 (NUT) ON LOWER STUDS OF ITEM 163 (LOOP, MOTOR MOUNTS) UNTIL 3 THREADS OF STUD PROTRUDE BEYOND NUT.

⑩ ⑭ TIGHTEN ITEM 277 (NUT) ON UPPER STUDS OF ITEM 163 (LOOP, MOTOR MOUNTS) UNTIL 2 THREADS OF STUD PROTRUDE BEYOND NUT.

⑮ INSTALL ITEM 130 (FOAM, BACK SIDE PANELS) AFTER BOLTING ITEM 92 (HOUSING) TO ITEM 94 (CHASSIS).

⑩ ⑯ NUT & INTERNAL TOOTH LOCK WASHER SUPPLIED WITH ITEM 183 (RESISTOR, VARIABLE).

⑩ ⑰ PACKAGING MATERIAL SPECIFICATIONS CONTROLLED BY SPINCO MFG., PACKAGING ENG. DEPT.

⑩ ⑱ TIGHTEN ITEM 271 (NUT) ON ITEM 241 (MOTOR MOUNTING SCREWS) UNTIL NUT IS FLUSH WITH END OF SCREW.

FINAL ASSEMBLY ADJUSTMENTS

A. SPEED CALIBRATION

1. UNPLUG PIO AND APPLY A TEST SIGNAL TO PINS ONE AND THREE OF J10.
FREQUENCY 400 HZ ± 1
AMPLITUDE +12 V
2. ADJUST R90 UNTIL RPM DISPLAY READS 4000 RPM.

⑩ B. DRIVE CURRENT ADJUSTMENT

1. CONNECT D.C. VOLTMETER IN PARALLEL WITH THE MOTOR FIELD (J9, PIN3 & PIN5).
2. RUN MACHINE AT > 3000 RPM, WITH SWITCH IN LOW BRAKE POSITION.
3. TURN OFF TIMER AND ALLOW FIELD CURRENT TO REACH EQUILIBRIUM (15 SECONDS).
4. ADJUST VOLTAGE TO 16.0 VDC ± 1 VDC USING POTENTIOMETER R18 FOR 60 HZ UNITS.
ADJUST VOLTAGE TO 34.0 VDC ± 1 VDC USING POTENTIOMETER R18 FOR 50 HZ UNITS.
LINE VOLTAGE TO BE 120 VAC FOR 60 HZ UNITS OR 220 VAC FOR 50 HZ UNITS.

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CHG	E.O. NO.	DATE	BY	CHK
A	PINK	12-8-86	CS2	
B	26928	12-86	C.T.	
C	27048	1-15-87	C.T.	
D	27224	3-24-87	CS2	
E	27546	5-27-87	JC	BU

DWG. NO.
035-355950
SHEET 1 OF 7

NOTES: (UNLESS OTHERWISE SPECIFIED)

BY DR. C. STEWART		DATE 11-5-86		BECKMAN TITL TABULATION, GP CENTRIFUGE ASSY	
CHK. S. Lawan		3-25-87			
DSGN. <i>[Signature]</i>		3-25-87			
ENGR. <i>[Signature]</i>		3-25-87			
IV-1				C SIZE	
MOD GP CENTRIFUGE				SCALE	
CODE IDENT NO. 07978				DWG NO. 035-355950	
1st USE				SHEET 1 OF 7	

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CHG	E.O. NO.	DATE	BY	CHK
F		SEE SHEET 1		

			40		
			39		
I		A3	38	855-349798	BOARD ASSY, P.W. - CONTROL, 50HZ
	I	A3	37	855-349782	BOARD ASSY, P.W. - CONTROL, 60HZ
			36		
			35		
			34		
			33		
			32		
			31		
			30		
			29		
			28		
			27		
			26		
			25		
			24		
I		C3	23	842-355971	DRIVE MTR. ASSY 50HZ
	I	C3	22	842-355970	DRIVE MTR. ASSY 60HZ
			21		
I	I		20	060-357675	PACKAGING
			19		
I		D4	18	261-234832	PLATE, FRENCH COMPLIANCE
I		D4	17	261-355959	PLATE, NAME RATING - GP 50HZ
	I	D4	16	261-355958	PLATE, NAME RATING - GP 60HZ
			15		
			14		
I	I	C2	13	270-233469	LABEL, SERIAL NO.
			12		
I			11	035-355955	SHIPPING LIST, GP 220V 50HZ
	I		10	035-355954	SHIPPING LIST, GP 120V 60HZ
			9		
			8		
			7		
			6		
			5		
			4		
			3		
			2		
I	I		1	449-355951	CENTRIFUGE ASSY, GP COMMON

① 17

IV-2

C 035-355950

QTY	ITEM	PART NO.	DESCRIPTION
	BY	DATE	
	DR C. STEWART	9-25-86	
	CHK		
	DSGN		
	ENGR		
	BECKMAN BECKMAN INSTRUMENTS, INC. SPED DIVISION 4401 FINE HILL ROAD FALG HILLS, CALIF 92624		
	TITLE		
	TABULATION, GP CENTRIFUGE ASSY		
	CODE IDENT NO.	DWG NO.	
	C 07978	035-355950	
	MOD GP CENTRIFUGE	SCALE	1/2" USE

NOTES: (1) S OTHERWISE SPECIFIED)

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CHG.	E.O.NO.	DATE	BY	CHK
E		SEE SHEET 1		

				80		
				79		
	4		D4	78	121-823254	RIVET, BLIND - .094 DIA X .222 LG
				77		
				76		
	1		A3	75	137-927392	LOCK, ELECTROMAGNETIC-220V 50HZ
		1	A3	74	137-927391	LOCK, ELECTROMAGNETIC-110V 60HZ
				73		
				72		
	2		D3	71	735-884060	CARRIER, FUSE-5MM X 20MM
		2	D3	70	735-884061	CARRIER, FUSE-.25 X 1.25
				69		
				68		
				67		
				66		
		2	C3	65	731-883160	FUSE, 10A-250V T.D.
	2		C3	64	731-929778	FUSE, 6.3A-250V T.D.
				63		
				62		
				61		
	1		B2	60	604-927527	RESISTOR, W.W.-50, 100W, 5%
		1	B2	59	604-927526	RESISTOR, W.W.-13, 100W, 5%
	1		B2	58	604-927525	RESISTOR, W.W.-5, 25W, 5%
		1	B2	57	604-927524	RESISTOR, W.W.-1, 25W, 5%
				56		
				55		
				54		
				53		
	1		C3	52	664-355850	CORD, POWER-50HZ (TABULATION)
		1	C4	51	664-873155	CORD, POWER-60HZ
				50		
				49		
				48		
				47		
				46		
				45		
				44		
				43		
		1	D3	42	270-234875	LABEL, CAUTION - FUSE 10A 250V
	1		D3	41	270-234877	LABEL, CAUTION - FUSE 6.3A 250V
QTY				ITEM	PART NO.	DESCRIPTION
GP CENTRIFUGE 220 V, 50 HZ 050-355953	GP CENTRIFUGE 120 V, 60 HZ 050-355952	ZONE	BY	DATE	BECKMAN TITLE TABULATION, GP CENTRIFUGE ASSY	
			DR C. STEWART	9-25-86		
			CHK S. Fawcett	3-25-87		
			DSGN. H. Hoge	3-25-87		
			ENGR H. Hoge	3-25-87		
				CODE IDENT NO	DWG NO.	
				C SIZE	07978	035-355950
MOD GP CENTRIFUGE				SCALE	1:1	USE SHEET 3 OF 7

IV-3

NOTES: (UNLESS OTHERWISE SPECIFIED)

		150			
		149			
		148			
B2		147	2	327-885964	BRACKET, RESISTOR MOUNTING
B2		146	2	327-805967	BRACKET, RESISTOR MOUNTING
		145			
		144			
D2		143	1	137-927389	STRIKE, DOOR LOCK
		142			
		141			
A2		140	1	254-355999	FOAM, FRONT, MOTOR DUCT
A2		139	1	254-355998	FOAM, REAR, MOTOR DUCT
A1		138	2	254-355996	FOAM, SIDE PANEL GP
A2		137	1	254-355995	FOAM, BACK PANEL GP
D2		136	1	254-355838	FOAM, BOWL TRIM GP
A1		135	6	254-355837	FOAM, BOWL STRIP GP
		134			
A1		133	1	254-355827	FOAM, CONTROL HEAD GP
D3		132	1	254-355826	FOAM, BOWL LINER GP
C3		131	1	254-355825	FOAM, MOTOR LINER
B2		130	2	254-355820	FOAM, BACK SIDE PANEL
		129			
		128			
A4		127	1	445-355980	PANEL, OVERLAY - U.K.
A4		126	1	445-355979	PANEL, OVERLAY - U.S.A.
		125			
		124			
B3		123	3	350-349799	SUPPORT, BOWL
		122			
		121			
		120			
		119			
		118			
		117			
		116			
		115			
		114			
D3		113	1	337-349755	BELLOWS, MOTOR
		112			
		111			
		110			
B1		109	1	349-349759	ANGLE, DOOR
C2		108	1	348-349758	STRIP, DOOR
		107			
		106			
CLC2		105	1	036-356024	DOOR ASSEMBLY, GP & GPK
		104			
		103			
C2		102	1	327-349820	PLATE, MOTOR MTG
		101			
		100			
A4		99	2	325-349774	KNOB
A3		98	1	254-355833	PANEL, DAMPING-FRONT GP
		97			
A4		96	1	445-349750	CONTROL, PANEL
		95			
B2		94	1	430-349749	CHASSIS
		93			
A1		92	1	299-349748	HOUSING
		91			
D2		90	1	349-349747	BOWL (NON-REFRG)
D3		89	1	175-349745	GASKET, BOWL
		88			
		87			
A2		86	1	270-340574	LABEL ROTATION ARROW
D3		85	1	270-340816	LABEL, CAUTION - INT MAINT
A3		84	2	270-340784	LABEL, WARNING
		83			
		82			
		81			
ZONE	ITEM	QTY	PART NO.		

CENTRIFUGE ASSY. GP COMMON
449-355951

DRAWING NO.
035-355950
SHEET 4 OF 7

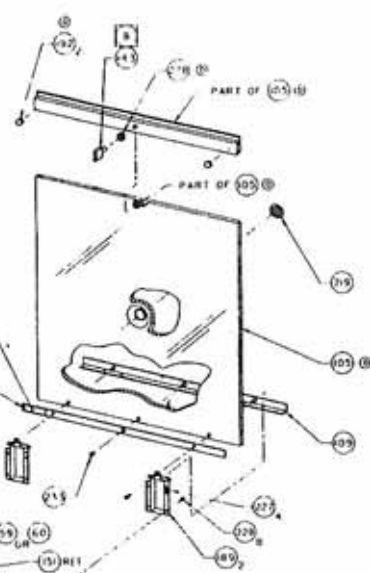
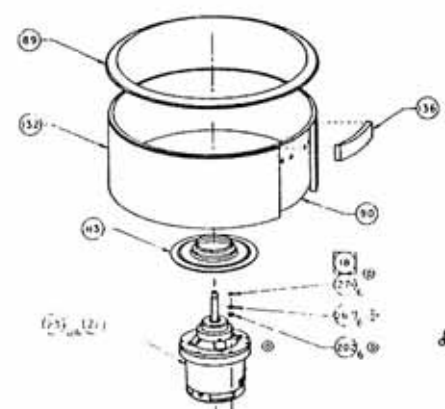
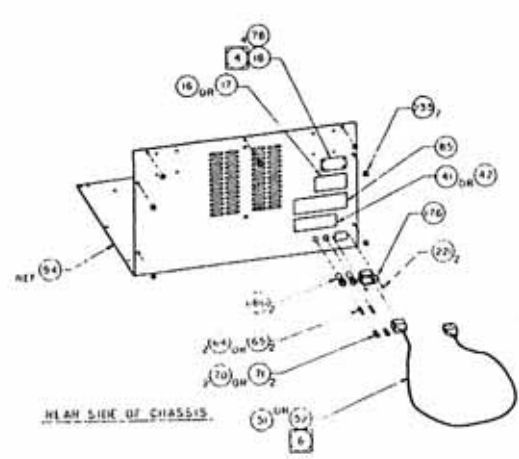
REV. E SEE SHT 1
BECKMAN INSTR. INC.
DRAWING NUMBER
035-355950
SHEET 4 OF 7
04 ME.2774.355950.SHT 4

		220			
	C1	219	1	321-881645	PLUG BUTTON, VENTILATOR
		218			
		217			
	A3	216	3	161-927355	SPACER, CYL, NON-THD, 562 LG 140 I.D..25 O.D
	A3	215	6	161-927356	SPACER, CYL, NON-THD 3/8 LG 140 I.D. 25 O.D.
		214			
		213			
		212			
		211			
	A4	210	1	701-927462	SWITCH, ROCKER - SPDT (BRAKE)
	A4	209	1	701-927461	SWITCH, ROCKER - SPST (DOOR)
	A4	208	1	701-927460	SWITCH, ROCKER - SPST (POWER)
		207			
	A2	206	1	708-927383	SWITCH, SENSITIVE, SPDT
		205			
		204			
	A3	203	1	313-927387	GROMMET, ROUND 1/8 I.D. 1/2 O.D. 5/16 THK
	C2	202	6	313-349786	GROMMET, MTR. MTG
		201			
		200			
	B3	199	1	755-927473	RECTIFIER, BRIDGE
		198			
	B3	197	1	827-927457	TIMER, 30 MIN W/HOLD DPST
		196			
	B3	195	3	297-927357	CAP, TUBE PROTECTOR
		194			
	A2	193	4	313-889502	BUMPER - FOOT, BLK RUBBER
	D2	192	2	313-889306	BUMPER, ADH - BLK
		191			
		190			
	B2	189	2	317-878522	HINGE
		188			
		187			
		186			
		185			
		184			
	B3	183	1	611-834379	RESISTOR, VARIABLE, W.W. 10K
		182	1	864-356043	SPACER - KNOB RESTRAINT
		181			
	D3	180	2	735-894080	FUSE HOLDER
		179			
	B4	178	1	697-812602	CONNECTOR, BUTT-FASTENER
		177			
	D3	176	1	676-889543	RECEPTACLE, POWER
		175			
		174			
		173			
		172			
		171			
		170			
	B3	169	1	855-349783	BOARD ASSY, P.W. - DISPLAY
		168			
	B3	167	1	338-000596	CLAMP, CABLE
		166			
	B3	165	3	301-349756	SPRING, MOTOR MTG.
		164			
	C3	163	3	327-355821	LOOP, MOTOR - MOUNT (BLUE)
		162			
	C3	161	3	161-349746	SLEEVE, SPRING
	B3	160	2	161-349797	SPACER, LOCK
		159			
	C3	158	1	792-349788	TRANSFORMER, POWER
		157			
		156			
	A3	155	1	662-349784	HARNESS, LATCH
	B3	154	1	662-349781	HARNESS, CONTROL PANEL
		153			
		152			
	B3	151	1	662-349767	HARNESS, POWER
	ZONE	ITEM	QTY	PART NO.	
CENTRIFUGE ASSY. GP COMMON 449-355951					DRAWING NO. 035-355950
					SHEET 5 OF 7

		290			
		289			
	A3	288	A/R	40-005-85	SOLDER, 50/50
		287			
		286			
		285			
(D)	A3	284	1	165-808295	WASHER, FLT .645 O.D. .400 I.D. X .042 THK S-C
	C2	283	6	165-878492	WASHER, FLT .631 O.D. .199 I.D. S-C
		282			
(B)	B3	281	2	165-808255	WASHER, EXT. #10 S-ZN
		280			
(D)	A2	279	2	165-808245	WASHER, EXT #4 S-ZN
(C)	C2	278	1	105-927585	NUT, 10MM X 1.50MM
	A3,C3	277	6	105-854322	NUT, 1/4-20 SLFLKG-S-ZN
	A3	276	4	105-878195	NUT, 1/4-20 HXFLG-S-C
		275			
		274			
		273			
		272			
(D)	C2	271	6	105-829294	NUT, 10-32 SLFLKG-S-C
	A3	270	2	105-878636	NUT, 10-32 HXFLG-S-C
		269			
(B)		268			
		267			
		266			
	B3	265	9	105-853432	NUT, KEP 6-32
		264			
		263			
		262			
		261			
		260			
(D)	C2	259	A/R	60-001-46	LOCTITE #271, RED
		258			
		257			
		256			
		255			
		254			
		253			
		252			
		251			
		250			
		249			
	A2	248	4	101-816110	SCREW, .250-20 X .75 P-S-C-SL
		247			
		246			
		245			
		244			
		243			
(D)	B4	242	2	101-812107	SCREW, 10-32 X 2 P-SS-SL
	C2	241	6	101-809982	SCREW, 10-32 X 1.5 P-S-C-SL
		240			
		239			
	C2	238	2	101-803262	SCREW, 10-32 X .625 FL-SS-SL
		237			
		236			
(D)	A2,A3,B2,B3,D3	235	31	101-878542	SCREW, 10-32 X .375 HXFLG-S-C
	A3	234	10	101-355839	SCREW, CAP, 10-32 X .375 BU-S-BK-HXSO (PAINT HD)
	B2	233	1	101-812167	SCREW, 10-32 X .375 FL-SS-SL
		232			
		231			
		230			
		229			
(B)	B2	228	8	101-885026	SCREW, 8-32 X .375 HXFLG-S-C
	B2	227	4	101-809968	SCREW, 8-32 X .25 P-SS-SL
		226			
		225			
	B2	224	2	101-878805	SCREW, 6-32 X .375 HXFLG-S-C
		223			
	A2	222	2	101-823155	SCREW, 4-40 X .562 PH-S-C
	D3	221	2	101-803056	SCREW, 4-40 X .25 PH-S-C
	ZONE	ITEM	QTY	PART NO.	
CENTRIFUGE ASSY, GP COMMON 449-355951					DRAWING NO. 035-355950
					SHEET 6 OF 7

REV. E SEE SHT 1
BECKMAN INSTR. INC.
DRAWING NUMBER
035-355950
SHEET 6 OF 7
04 DEC 2274 355950 SMT6

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CHG	Q.D.N.O.	DATE	BY	CHK
1				
SEE SHEET 1				



NOTES: UNLESS OTHERWISE SPECIFIED:

1. FOR WIRING DIAGRAM SEE 025-349770, FOR SCHEMATIC DIAGRAM SEE 020-349769.
2. FOR TEST SPECIFICATIONS SEE 001-355832, FOR U/L TEST SPECIFICATION SEE 001-340515.
3. ALL LABELS TO BE POSITIONED IN AREAS APPROXIMATELY AS SHOWN.

4. WHEN REQUIRED, ITEM 18 (PLATE, FRENCH COMPLIANCE) TO BE ATTACHED AS SHOWN, USING RIVETS, ITEM 78, IN HOLES LOCATED TO MATCH.

5. TENSION OF HINGES ITEM 189, TO BE ADJUSTED SUCH THAT WHEN RAISED TO AN ANGLE OF 30°, THE DOOR (ITEM 110) WILL REMAIN IN POSITION.

6. MARKETING TO CHOOSE PROPER POWER CORD BASED ON SALES ORDER.

7. LABEL, SERIAL NO., ITEM 13, TO HAVE SAME SERIAL NO. AS ON NAME RATING PLATE, ITEM 16 OR 17.

8. ADJUST STRIKE (DOOR LOCK) ITEM 143, TO MAINTAIN A GOOD SEAL BETWEEN DOOR, ITEM 110, AND GASKET OF BOWL ASSEMBLY, ITEM 131, WHEN RUNNING A GH-3.7 ROTOR AT RATED SPEED.

9. CONNECTIONS TO SPEED AND TEMPERATURE POTENTIOMETERS, ITEM 183, TO BE MADE PER WIRING DIAGRAM USING SOLDER, ITEM 288.

10. REFRIGERATION SYSTEM TUBING CONNECTIONS TO BE BRAZED USING SOLDER, ITEM 287. SYSTEM TO BE PRESSURE TESTED PER 001-340515 BEFORE APPLYING INSULATION ITEMS 286 & 290. ITEM 290 TO BE APPLIED WITH A MIN. THICKNESS OF 3 LAYERS WHERE NECESSARY.

11. CHARGE REFRIGERATION SYSTEM WITH 10.5±.5 OZ OF FREON R 12.

12. DOOR LOCK EMERGENCY OPERATING STRING TO BE TIED OFF CLOSE TO GROMMET ITEM 203, EXCESS TO BE TRIMMED.

13. APPLY ITEM 259 (LOCTITE) TO APPROPRIATE THREADS ON ITEM 241 (SCREW) BEFORE INSTALLING IN ITEM 102 (MTR MTG PLATE).

14. THE TWO MOUNTING SCREWS FOR TIMER ITEM 197 ARE SUPPLIED WITH TIMER.

15. TIGHTEN NUTS, ITEM 277, ON LOWER STUDS OF LOOPS, MOTOR-MOUNT, ITEM 163, UNTIL 3 THREADS OF STUD PROTRUDE BEYOND NUT.

16. TIGHTEN NUTS, ITEM 277, ON UPPER STUDS OF LOOPS, MOTOR-MOUNT, ITEM 163, UNTIL 2 THREADS OF STUD PROTRUDE BEYOND NUT.

17. FAN SHROUD, ITEM 121, TO BE MOUNTED ON THE EXTERIOR OF THE REFRIGERATION CONDENSER SIDE PLATES USING PINS ITEM 185.

18. PACKAGING MATERIAL SPECIFICATIONS CONTROLLED BY SPINCO MFG. PACKAGING ENG. DEPT.

19. DISCARD TERMINAL HARDWARE SUPPLIED WITH METER, ITEM 81, AND USE ITEM 269 AS INDICATED.

20. TIGHTEN ITEM 271 (NUT) ON MOTOR MOUNTING SCREWS (ITEM 241) UNTIL NUT IS FLUSH WITH END OF SCREW.

21. SEAL THERMISTOR ASSY, ITEM 132, AFTER INSTALLATION, USING ITEM 289.

22. NUT AND INTERNAL TOOTH LOCK WASHER SUPPLIED WITH ITEM 183 (RESISTOR, VARIABLE).

FINAL ASSEMBLY ADJUSTMENTS

A. SPEED CALIBRATION

1. UNPLUG P10 AND APPLY A TEST SIGNAL TO PINS ONE AND THREE OF J 10.
FREQUENCY 400 HZ±
AMPLITUDE +12 V
2. ADJUST R 90 UNTIL RPM DISPLAY READS 4000 RPM.

B. TEMPERATURE CALIBRATION

1. WITH POWER OFF, ADJUST TEMPERATURE METER NEEDLE TO READ 15°C, USING METER ZERO ADJUSTMENT.
2. UNPLUG P11 AND CONNECT A 25K OHM RESISTOR BETWEEN PINS ONE AND TWO OF J11.
3. ADJUST R 58 UNTIL METER READS 3°C.

C. DRIVE CURRENT ADJUSTMENT

1. CONNECT D.C. VOLTMETER IN PARALLEL WITH THE MOTOR FIELD (J 9, PIN 3 & PIN 5).
2. RUN MACHINE AT > 3000 RPM, WITH SWITCH IN LOW BRAKE POSITION.
3. TURN OFF TIMER AND ALLOW FIELD CURRENT TO REACH EQUILIBRIUM (15 SECONDS).
4. ADJUST VOLTAGE TO 16.0 VDC ±2 VDC USING POTENTIOMETER R 18 FOR 60 HZ UNITS.
ADJUST VOLTAGE TO 34.0 VDC ±2 VDC USING POTENTIOMETER R 18 FOR 50 HZ UNITS.
LINE VOLTAGE TO BE 120 VAC FOR 60 HZ UNITS OR 220 VAC FOR 50 HZ UNITS.

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CHG.	E.O. NO.	DATE	BY	CHK
B	26913	12-86	C.T.	
C	26975	12-86	C.T.	
D	27048	1-15-87	C.T.	
E	27247	2-18-87	J.B.	
F	27430	4-2-87	C.T.	
G	27545	5-27-87	SC	

BY DR JULIA LEUNG		DATE 10-20-86		BECKMAN		BECKMAN INSTRUMENTS, INC. 3700 S. LINDEN IRVINE, CALIF. 92618	
CHK DSGN				TITLE TABULATION, GPR CENTRIFUGE ASSY			
ENGR							
IV-8				C SIZE		CODE IDENT NO. 07978	
				DWG NO. 035-349700			
MOD GPR CENTRIFUGE				SCALE 1/4		1ST USE	
						SHEET 1 OF 7	

DWG. NO.
035-349700
SHEET 1 OF 7

6-ΔI

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CHG.	E.O. NO.	DATE	BY	CHK
G	SEE SHEET 1			

					40		
					39		
				A3	38	855-349798	BOARD ASSY, P.W. - CONTROL, 50HZ
				A3	37	855-349782	BOARD ASSY, P.W. - CONTROL, 60HZ
					36		
					35		
					34		
				B2	33	842-349791	FAN MOTOR ASSY (CONDENSER) 50HZ
				B2	32	842-349790	FAN MOTOR ASSY (CONDENSER) 60HZ
					31		
					30		
					29		
					28		
				A2,B1	27	449-349753	WELDING ASSY, REFRIG SYSTEM, 50HZ
				A2,B1	26	449-349752	WELDING ASSY, REFRIG SYSTEM, 60HZ
					25		
					24		
				C3	23	842-355971	DRIVE MTR, ASSY 50HZ
				C3	22	842-355970	DRIVE MTR, ASSY 60HZ
					21		
					20	040-337676	PACKAGING
					19		
				D3	18	261-234832	PLATE, FRENCH COMPLIANCE
				D3	17	261-349709	PLATE, NAME RATING - GPR 50HZ
				D3	16	261-349708	PLATE, NAME RATING - GPR 60HZ
					15		
					14		
				C1	13	270-233469	LABEL, SERIAL NO.
					12		
					11	035-349705	SHIPPING LIST, GPR 220V 50HZ
					10	035-349704	SHIPPING LIST, GPR 120V 60HZ
					9		
					8		
					7		
					6		
					5		
					4		
					3		
					2		
					1	449-349701	CENTRIFUGE ASSY, GPR COMMON
QTY		ZONE		ITEM PART NO.		DESCRIPTION	
				BY		DATE	
				DR JULIA LEUNG		9-22-85	
				CHK			
				DSGN			
GPR CENTRIFUGE 220 V, 50 HZ 050-349703				ENGR			
GPR CENTRIFUGE 115 V, 60 HZ 050-349702							

CHG.	E.O.NO.	DATE	BY	CHK
G	SEE SHEET 1			

(C) (C) (C) (C)

(C) (6) (C)

C	035-349700
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IV-10

QTY		ZONE	ITEM	PART NO.	DESCRIPTION						
GPR CENTRIFUGE 220 V. 50 HZ 050-349703	GPR CENTRIFUGE 115 V. 60 HZ 050-349702		BY	DATE	BECKMAN BECKMAN INSTRUMENTAL, INC. 3500 S.W. 8th MIAMI, FL 33135 TEL 475 24 0700 FAX 475 24 0700						
			DR	JULIA LEUNG		9-22-88					
			CHK								
			DSGN								
			ENGR								
					TITLE						
					TABULATION, GPR CENTRIFUGE ASSY						
					<table border="1"> <tr> <td>C</td> <td>CODE IDENT NO.</td> <td>DWG NO.</td> </tr> <tr> <td>SIZE</td> <td>07978</td> <td>035-349700</td> </tr> </table>	C	CODE IDENT NO.	DWG NO.	SIZE	07978	035-349700
C	CODE IDENT NO.	DWG NO.									
SIZE	07978	035-349700									
MOD GPR CENTRIFUGE					SCALE — 1st USE SHEET 3 OF 7						

		150			
	A2	149	1	327-927321	BRACKET, FAN MTG
		148			
	B2	147	1	327-885964	BRACKET, RESISTOR MOUNTING
	C2	146	1	327-805967	BRACKET, RESISTOR MOUNTING
		145			
		144			
	C1	143	1	137-927389	STRIKE, DOOR LOCK
		142			
		141			
	A2	140	1	254-355998	FOAM, REAR, MTR DUCT
	A3	139	1	254-355999	FOAM, FRONT, MTR DUCT
		138			
		137			
		136			
	A1	135	1	254-355836	FOAM, R.H. TOP
	A1	134	1	254-355835	FOAM, R.H. SIDE
	B3,B4	133	2	254-355834	FOAM, L.H. SIDE
	D2	132	1	626-349787	THERMISTOR ASSY
	D2,D3	131	1	449-349766	BOWL FOAMED
		130			
	C3	129	1	254-355825	MOTOR LINER, FOAM
		128			
	A4	127	1	445-355978	PANEL, OVERLAY - U.K.
	A4	126	1	445-355976	PANEL, OVERLAY - U.S.A.
		125			
		124			
	D3	123	1	337-349755	BELLOWS, MOTOR
		122			
	B2	121	1	337-349754	SHROUD, FAN
		120			
		119			
		118			
		117			
		116			
		115			
	C1	114	1	349-349740	ANGLE, LID (REFRIG.)
		113			
	C1	112	1	348-349741	STRIP, LID (REFRIG.)
		111			
	C1	110	1	036-356025	DOOR ASSY-GPR
		109			
		108			
		107			
		106			
	A3	105	1	327-349731	MTG, TEMP. METER
		104			
		103			
	C3	102	1	327-349820	PLATE, MOTOR MTG.
		101			
	A4	100	3	325-349774	KNOB, - S.C.D.
		99			
	A3	98	1	445-355997	PANEL, DAMPING, FRONT
		97			
	A4	96	1	445-349734	CONTROL PANEL (REFRIG.)
		95			
	B2,B3	94	1	430-349730	CHASSIS
		93			
		92			
	A1	91	1	299-349733	HOUSING, R.H. END
	B4,C4	90	1	299-349732	HOUSING, L.H. END
		89			
	C4	88	1	270-340574	LABEL, ROTATION ARROW
	B2	87	1	270-231879	LABEL, CAUTION
	D4	86	1	270-453796	LABEL, NOTICE - REFRG.
	D3	85	1	270-340816	LABEL, CAUTION - INT MAINT
	A3,B3	84	3	270-340784	LABEL, WARNING
		83			
		82			
	A3	81	1	196-349760	TEMP. METER - S.C.D.
	ZONE	ITEM	QTY	PART NO.	

CENTRIFUGE ASSY, GPR COMMON
449-349701

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DRAWING NO.
035-349700
SHEET 4 OF 7

REV. G SEE SHT I
BECKMAN INSTR. INC.
DRAWING NUMBER
035-349700
SHEET 4 OF 7

		220			
		219			
		218			
		217			
	A3	216	3	161-927355	SPACER, CYLINDRICAL, NON-THD, .562 LG .140 I.D. .25 O.D.
	A3	215	6	161-927356	SPACER, CYLINDRICAL, NON-THD 3/8 LG .140 I.D. .25 O.D.
		214			
		213			
		212			
		211			
	A4	210	1	701-927462	SWITCH, ROCKER - SPDT (BRAKE)
	A4	209	1	701-927461	SWITCH, ROCKER - SPST (DOOR)
	A4	208	1	701-927460	SWITCH, ROCKER - SPST (POWER)
		207			
	B3	206	1	708-927383	SWITCH, SENSITIVE, SPDT
		205			
		204			
	A3	203	1	313-927387	GROMMET, ROUND 1/8 I.D. 1/2 O.D. 5/16 THK
(F)	C3	202	6	313-349786	GROMMET, MTR. MTG.
		201			
		200			
	B3	199	1	755-927473	RECTIFIER, BRIDGE
		198			
	A3	197	1	827-927457	TIMER, 30 MIN W/HOLD DPST
		196			
		195			
		194			
	A2, A3, B3	193	5	313-889502	BUMPER - FOOT, BLK RUBBER
(E)	C1	192	2	313-869306	BUMPER, ADH - BLK.
		191			
		190			
	B1, C1	189	2	317-878522	HINGE
		188			
	B2	187	1	241-885697	FAN BLADE .254 BORE, 7.75 DIA
		186			
	B2	185	12	125-885460	PIN, NYLON
		184			
	A3	183	2	611-834379	RESISTOR, VARIABLE W.W -10K
(D)		182	2	864-358043	SPACER - KNOW RESTRAINT
		181			
	D3	180	2	735-894080	FUSE HOLDER
		179			
		178			
		177			
(C)	D3	176	1	676-889543	RECEPTACLE, POWER
		175			
	B3	174	1	338-000596	CLAMP, CABLE
		173			
		172			
	B3	171	3	301-349756	SPRING, MOTOR MTG.
		170			
	A3	169	1	855-349783	BOARD ASSY, P.W. - DISPLAY
		168			
		167			
		166			
		165			
		164			
	B3	163	3	327-355821	LOOP, MOTOR - MOUNT (BLUE)
		162			
	B3	161	3	161-349746	SLEEVE, SPRING
	B3	160	2	161-349797	SPACER, LOCK
		159			
	B3	158	1	792-349788	TRANSFORMER, POWER - S.C.D.
		157			
		156			
	A3	155	1	662-349784	HARNESS, LATCH
	A3	154	1	662-349781	HARNESS, CONTROL PANEL
	A3	153	1	662-349771	HARNESS, TEMP READOUT
	B2	152	1	662-349768	HARNESS, REFG. UNIT
	B3	151	1	662-349767	HARNESS, POWER
	ZONE	ITEM	QTY	PART NO.	

CENTRIFUGE ASSY, GPR COMMON
449-349701

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DRAWING NO.
035-349700
SHEET 5 OF 7

REV G SEE SHT 1
BECKMAN INSTR. INC.
DRAWING NUMBER
035-349700
SHEET 5 OF 7

04 ME 8874 349700.MTB

(E)	B1,D2	290	A/R	55-043-01	TAPE, PRESSURE SENSITIVE
(E)	D2	289	A/R	60-025-01	SEALANT, DUCT
	A3	288	A/R	40-005-85	SOLDER, 50/50
	B1	287	A/R	40-071-06	SOLDER, SIL - FOS - 5
(E)	D2	286	A/R	55-028-01	TUBE, RUBBER
(F)(E)	B1	285	4	165-827385	WASHER, FLT .750 O.D. .343 I.D. X .062 THK SS-PA
	A3	284	2	165-808295	WASHER, FLT .645 O.D. .400 I.D. X .042 THK S-C
(F)(B)	D3	283	6	165-878492	WASHER, FLT .631 O.D. .199 I.D. S-C
		282			
(B)	B2,B3	281	3	165-808255	WASHER, EXT #10 S-C
(C)		280			
	B3	279	2	165-808245	WASHER, EXT #4 S-C
(E)	D1	278	1	105-927585	NUT, 10MM X 1.50MM
(D)	A3,C3	277	5	105-854322	NUT, 1/4-20 SLFLG-S-ZN
(F)	A2,A3,B2,B3	276	10	105-878195	NUT, 1/4-20 HXFLG-S-C
		275			
		274			
	A2	273	4	105-885321	NUT, 5/16-18 HXFLG-S-ZN
		272			
(F)(E)	D2	271	6	105-829294	NUT, 10-32 SLFLG-S-C
	A3	270	2	105-878636	NUT, 10-32 HXFLG-S-C
(C)	A4	269	2	105-848748	NUT, 10-32 KEP
(C)		268			
(E)	D2	267	1	105-885317	NUT, 3/8-32 NYLON
(E)	D2	266	1	175-042550	O-RING
	A3,B3	265	11	105-853432	NUT, 6-32 KEP
		264			
		263			
		262			
(B)		261			
		260			
(E)	C3	259	A/R	60-001-46	LOCTITE #271, RED
		258			
		257			
		256			
	B1	255	4	101-841922	SCREW, CAP 5/16-18 X 1.5 HX-S-C
		254			
		253			
		252			
		251			
		250			
		249			
	A2,A3	248	5	101-816110	SCREW, 250-20 X .75 P-S-C-SL
	A2	247	4	101-878543	SCREW, .250-20 X .375 HXFLG-S-SL
		246			
		245			
		244			
		243			
	B3	242	2	101-812107	SCREW, 10-32 X 2 P-SS-SL
(F)(E)	C3	241	6	101-809982	SCREW, 10-32 X 1.5 P-S-C-SL
		240			
		239			
	C1	238	2	101-803262	
		237			
		236			
	A2,A3,B2,B3	235	40	101-878542	SCREW, 10-32 X .375 HXFLG-S-C
(B)	A3,B1	234	13	101-355839	SCREW, CAP 10-32 X .375 BU-S-BK-HXSO (PAINT HD)
	C1	233	1	101-812167	SCREW, 10-32 X .375 FL-SS-SL
		232			
		231			
	A2	230	4	101-885760	SCREW, 8-36 X .375, S-C
		229			
(C)	B1,C1,B2	228	8	101-885026	SCREW, 8-32 X .375 HXFLG-S-C
	B1,C1	227	4	101-809968	SCREW, 8-32 X .25 P-SS-SL
		226			
		225			
(B)	B2	224	2	101-878805	SCREW, 6-32 X .375 HXFLG-S-C
		223			
	B3	222	2	101-823155	SCREW, 4-40 X .562 PH-S-C
	D3	221	2	101-803056	SCREW, 4-40 X .25 FH-S-C
	ZONE	ITEM	QTY	PART NO.	

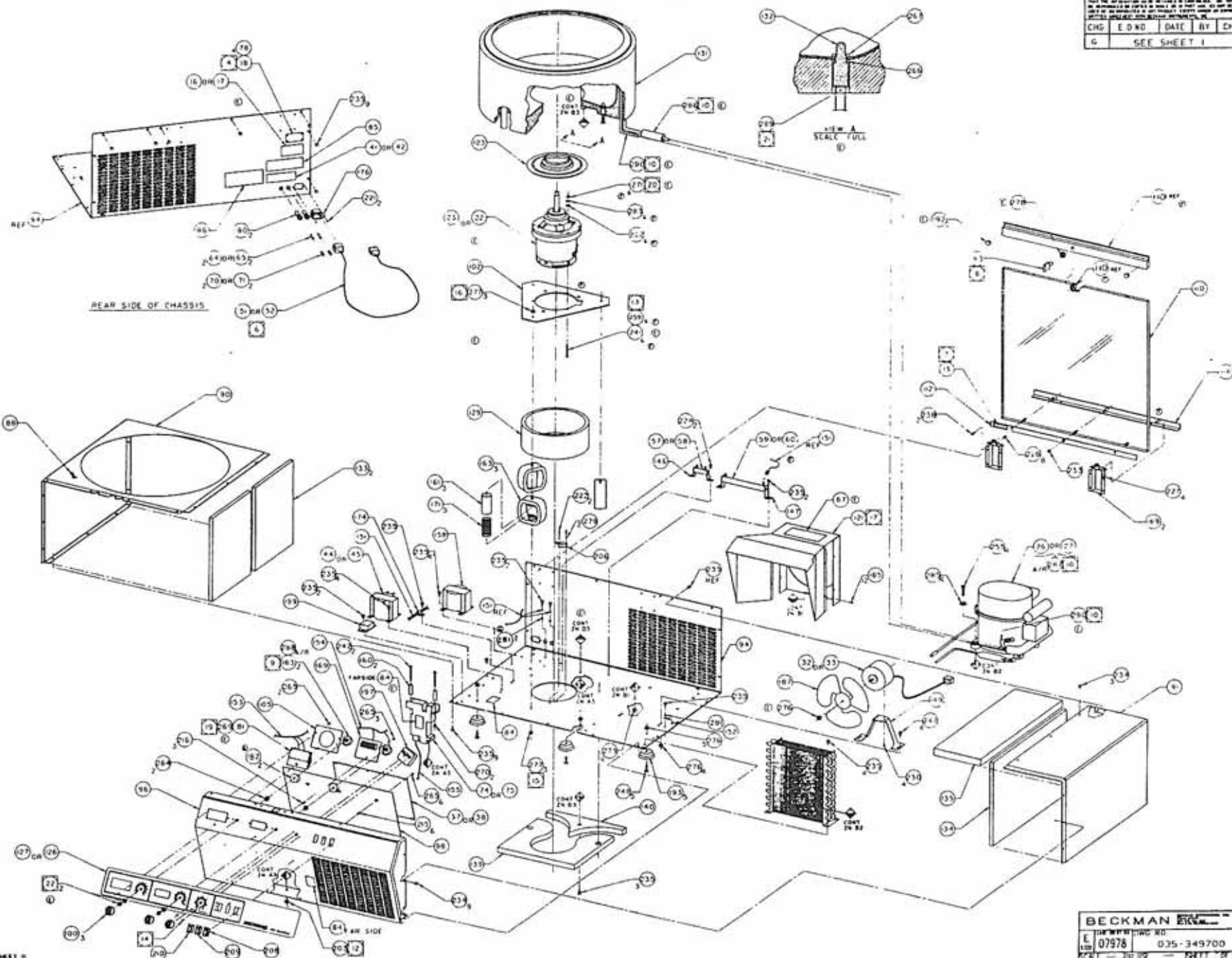
CENTRIFUGE ASSY, GPR COMMON
449-349701

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DRAWING NO.
035-349700
SHEET 6 OF 7

REV. C SEE SHIT I
BECKMAN INSTR. INC.
DRAWING NUMBER
035-349700
SHEET 6 OF 7

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G				
SEE SHEET 1				



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NOTES: SEE SHEET 1

BECKMAN	
E 07578	035-349700
REV 1	REV 1