

Parts Manual

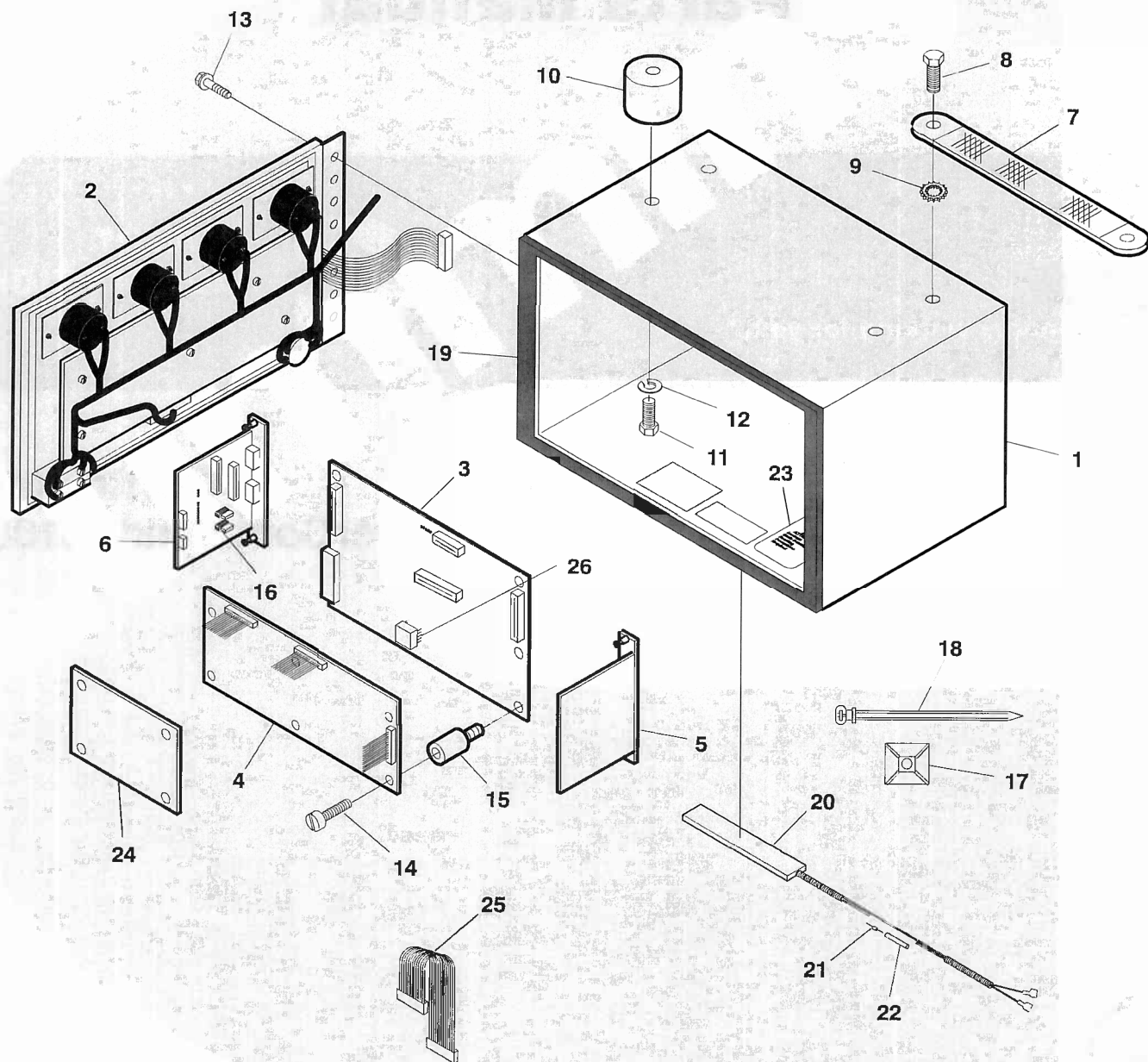
Our energy working for you.™



**Power
Generation**

**Controller
PowerCommand® 3100**

Control Box

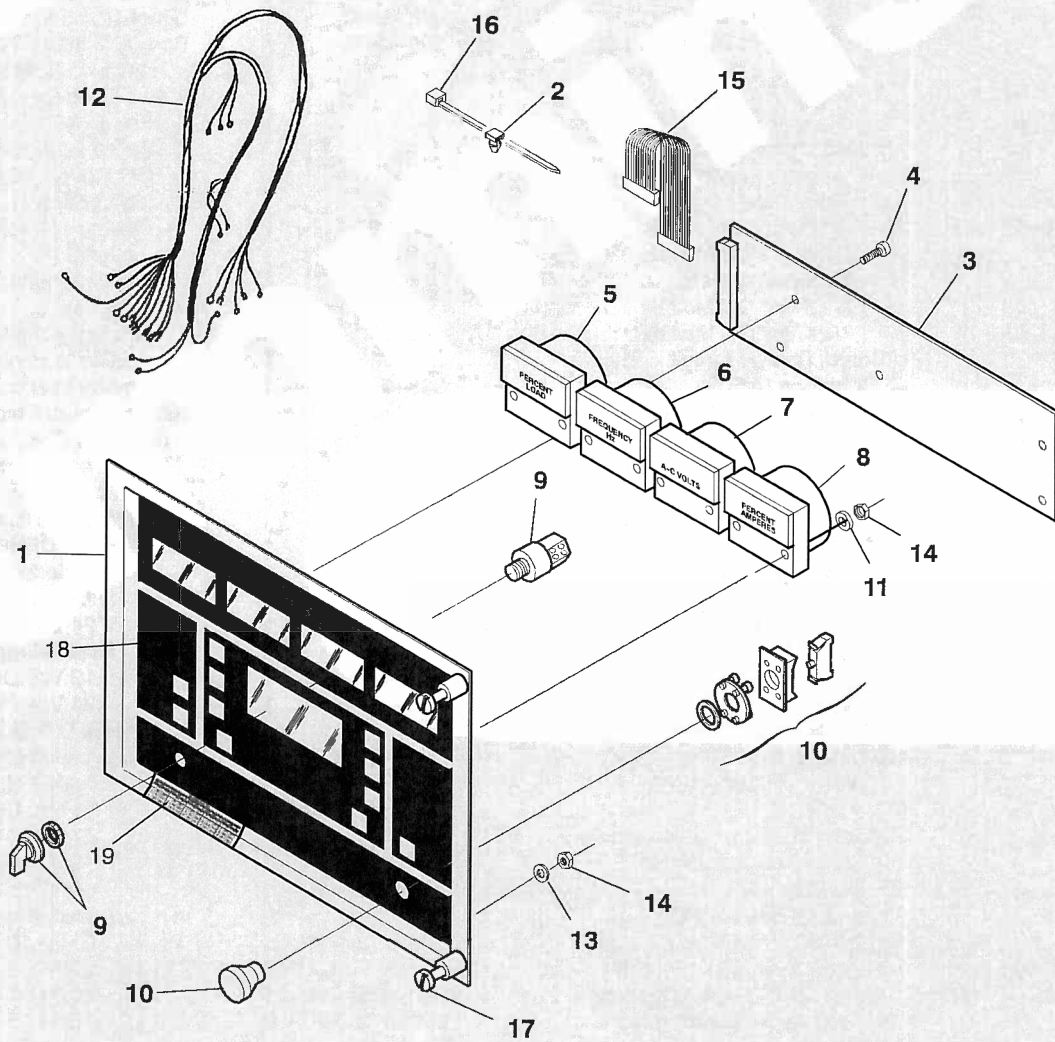


Control Box

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1687	1	Box Assembly – Control	19	895-0359	1	Gasket, Door
2			Door Assembly – Control (See Separate Page For Components)	20			Heater, Control (Includes Rectifier and Splices)
3			Board, Printed Circuit – Digital (A32)		300-4515-01	1	120 Volt
	300-4079-01	1	12 Volt DC Models		300-4515-02	1	240 Volt
	300-4079	1	24 Volt DC Models	21	357-0114	1	Rectifier, Power (3 Amp)
4			Board, Printed Circuit – Analog (A33)	22	332-1789	2	Splice, Window (18 GA)
	300-4080-01	1	Single Set	23	098-6940	1	Label, Static Sensitive
	300-4080-02	1	Paralleling Sets	24	300-4458	1	Board, Printed Circuit – Network Interface Module (Not Used On DFHA, DFHB, DFHC) (A41)
5			Board, Printed Circuit – Customer Interface (A34) Single Set	25			Cable, Ribbon (Used On Early PCC Models With Removable Ribbon Cables)
	300-4462-02	1	12 Volt DC Models		338-2931-02	1	Customer Interface to Digital
	300-4462	1	24 Volt DC Models		338-2932-02	1	Customer Interface to Analog
	300-4462-03	1	12 Volt DC Models		338-2932-01	1	Analog to Digital
	300-4462-01	1	24 Volt DC Models		338-2933	1	Analog to Engine Interface
6			Board, Printed Circuit – Engine Interface (A31) 12 Volt DC Models 24 Volt DC Models	26	338-2931-01	1	Engine Interface to Digital Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty) English/Spanish Versions
	300-4083-01	1	All Except DFHA, DFHB, DFHC				All Models Except DFHA, DFHB, DFHC
	300-4819	1	DFHA, DFHB, DFHC				Single Set
7	337-0049	2	Strap, Bond				12 Volt DC Models
8	800-0003	2	Screw, Cap – Hex Head (1/4–20 x 1/2")		300-4721-08	1	24 Volt DC Models
9	856-0006	2	Washer, Lock – EIT (1/4")		300-4721	1	Paralleling Sets
10	402-0527	4	Isolator, Vibration		300-4721-20	1	12 Volt DC Models
11	800-0024	4	Screw, Cap – Hex Head (5/16–18 x 1/2")		300-4721-12	1	24 Volt DC Models
12	850-0045	4	Washer, Lock (5/16")				DFHA, DFHB, DFHC (24 Volt DC Models)
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10–32 x 5/16")				Single Set
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6–32 x 1/4")		300-4721-04	1	DFHA, DFHB
15	332-3235	6	Standoff, Board – PC (#6–32 IT x #6–32 ET x 3/4")		300-4721-04	1	DFHC
16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)		300-4721-35	1	QST30–G3 Engine
17	332-3338	1	Mount, Tie – Cable (Quantity Used As Required) (Door Harness)		300-4721-16	1	QST30–G5 Engine
18	332-1445	1	Tie, Cable (Quantity Used As Required) (Door Harness)		300-4721-16	1	Paralleling Sets
					300-4721-40	1	DFHA, DFHB
							DFHC
							QST30–G3 Engine
							QST30–G5 Engine



Control Door



Control Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-1701-01		Door, Control	9	308-0998	1	Switch, Selector – Run/Off/Auto (Knob Operated Switch)(S12)
2	332-3262	4	Mount, Tie – Cable		308-1045	1	Switch, Selector (Key Operated) (Includes 2 (Converts Knob Operated 308-0998 Selector Switch To A Key Operated Selector Switch)(Not Illustrated)
3			Board, Printed Circuit – Display (A35)				Key, Replacement (Not Illustrated)
	300-4481	1	Single Set		308-1046	2	Switch, Pushbutton – Emergency Stop (S13)
	300-4286	1	Paralleling Sets	10	308-0999	1	Washer, Flat (#4)
4	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")	11	526-0257	8	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
5	302-2012	1	Wattmeter (0-125 %) (M24)	12	338-2937	1	Washer, Flat (#4)
6	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	13	526-0417	2	Nut, Hex – W/ET (#4-40)
7			Voltmeter, AC (M21)	14	870-1220	10	Cable, Ribbon (10-1/2") (A32 to A35)
	302-2009-01	1	0-300/0-600 Volt	15	338-2934	1	Tie, Cable
	302-2009-02	1	0-750 Volt	16	332-1445	4	* Fastener, Door
	302-2009-03	1	0-5250 Volt	17	406-0761-03	2	Panel, Membrane
	302-2009-04	1	0-15 kV	18			English
8	302-2011	1	Ammeter (0-125 %) (M22)		300-4693	1	Single Set
					300-4691	1	Paralleling Set
							Spanish
					300-4396	1	Single Set
					300-4694	1	Paralleling Set
				19	98-7276	1	Label, Harness

* – Parts Included in Door, Control Assembly (Item 1).



Control Housing
(DFGB, DFGC, DFHC, DFJA, DFJB, DFJC, DFJD, DFLB, DFLC, DFLD,
DFMB – HC6/HC7 Generators)
(DFFB, DFGA, DFHA, DFHB, DFHC – HC6 Generator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...				38			Plate, End – Terminal
				332-3126-01	1		Single Level End Section
				332-3126-02	1		Double Level End Section
33	332-2634	4	Clamp, Retainer	39	332-2878	1	Bracket, End – Terminal
			Prior To December 1996	40	517-0135	1	Plug
			Production (Mounted On	41			Harness, Wiring –
			Top And Side Of Control				Interconnect (See Separate
			Box Wrapper)				Page For Components)
			Begin December 1996	338-3201	1		Single Unit
			Production	338-3202	1		Paralleling Units
	332-2634	2	Mounted On Top And	42	319-1095	1	Cover, Control Housing
			Side Of Control Box				(Quantity Used As
			Wrapper On The Side				Required)
			Towards The Control	43			Screw, Self-Locking – Hex
			Box Cover				Washer Head
	518-0548-42	2	Mounted On Top And				Prior To November 1996
			Side Of Control Box				Production (1/4–20 x
			Wrapper On The Side				1/2")
			Towards The Rear	821-5002-03	10		With One Control
			Housing Control				Housing Cover
			Panel	821-5002-03	20		With Two Control
34	518-0548-24	1	Clamp, Retainer – Wiring				Housing Covers
			Harness				Begin November 1996
35			Board, Printed Circuit –				Production (M6 x
			Governor				20mm)
	300-4307	1	All Models Except DFHA,	821-6002-03	10		With One Control
			DFHB, DFHC				Housing Cover
	300-4725	1	DFHA, DFHB, DFHC	821-6002-03	20		With Two Control
36			Board, Printed Circuit –				Housing Covers
			PT/ CT	44	300-4306	1	Board, Printed Circuit –
	300-4308-01	1	120 Volt (Used On All 12				Voltage Regulator
			Lead Reconnectable	45	332-2879-06	1	Rail, Terminal
			Standard And Broad	46	319-2246	1	Mount, Rail
			Range Generators,	47	815-0839	8	Screw, Pan Head – Cross
			Medium Voltage 2400,				Recessed W/ET (#10–32 x
			3300 and 4160 Volt				3/8")
			Generators, Low	48	402-0510	4	Isolator, Vibration
			Voltage HC7 Frame	49	321-0307-05	3	Fuse – 10 Amp
			Generators)	50			Screw, Self-Locking – Hex
	300-4308-02	1	240 Volt (Used On All				Washer Head
			Series Delta		821-5003-01	12	Prior To November 1996
			Generators, All 480 Volt				Production (5/16–18 x
			And Less 6 Lead				1/2")
			Generators)		821-6003-02	12	Begin November 1996
	300-4308-03	1	346 Volt (Used On All				Production (M8 x
			600 Volt 6 And 12 Lead				20mm)
			Generators)	51	319-2245	1	Cover, Control Box
37			Screw, Self-Locking – Hex	52			Isolator, Vibration
			Washer Head		402-0610	4	Prior To December 1996
	821-5000-05	20	Prior To December 1996				Production
			Production (#10–32 x		402-0729	4	Begin December 1996
			1/2")				Production
	821-6001-03	20	Begin December 1996				
			Production (M5 x				
			16mm)				
				Continued...			

Control Housing
(DFGB, DFGC, DFHC, DFJA, DFJB, DFJC, DFJD, DFLB, DFLC, DFLD,
DFMB – HC6/HC7 Generator)
(DFFB, DFGA, DFHA, DFHB, DFHC – HC6 Generator)

