



Parts Manual

Our energy working for you.™



**Power
Generation**

Generator Set with Detector Control

DFBJ (Spec A)

DFCF (Spec A)

DFCG (Spec A)

DGCH (Spec A)

MODEL IDENTIFICATION

This catalog covers models produced under the Cummins®/Onan® and Cummins Power Generation brand names.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Cummins Power Generation nameplate.

For handy reference, insert your nameplate information in the spaces below.

MODEL AND SPEC NO.

SERIAL NO.

DIGITAL CONTROL SOFTWARE VERSION
AND DATE (IF APPLICABLE)

SAFETY PRECAUTIONS

The following symbols are used in Cummins Power Generation manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

PRODUCT SAFETY PRECAUTIONS



Service and repair of Cummins Power Generation equipment must be performed by trained, experienced personnel only. Improper service or repair may result in property damage, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Introduction

This catalog applies to Cummins Power Generation Generator Models DFBJ, DFCF, DFCG and DFCH as listed in the Generator Set Data Table. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this catalog left and right sides are determined by facing the engine end (front) of the set unless noted in the description column.

Engine parts that have been modified or added by Cummins Power Generation are identified in this catalog. All other engine replacement parts must be ordered from the engine manufacturer by referring to the engine manufacturer's nameplate and supplying all available information. Contact your nearest engine parts distributor for assistance in ordering replacement parts.

Replacement Engine

Cummins Power Generation Generator Model	Cummins Engine Model
DFBJ	NT 855-G6
DFCF	NTA 855-G2
DFCG 50 Hertz DFCG 60 Hertz	NTA 855-G4 NTA 855-G3
DFCH	NTA 855-G5

Generator Set Data Table

Model and Specification	Electrical Data					Battery Voltage
	Watts	Volts	Hertz	Wire	Phase	
250DFBJ/*	250,000	#	50	12	3	24VDC
275DFBJ/*	275,000	#	60	12	3	24VDC
275DFCF/*	275,000	#	50	12	3	24VDC
300DFCF/*	300,000	#	60	12	3	24VDC
310DFCG/*	310,000	#	50	12	3	24VDC
350DFCG/*	350,000	#	60	12	3	24VDC
400DFCH/*	400,000	#	60	12	3	24VDC

* – The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from the standard model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.

– Broad range reconnectible

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Abbreviations

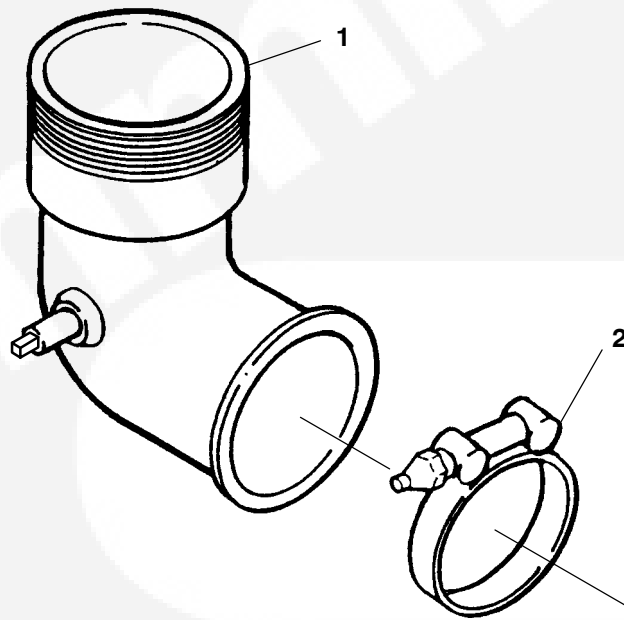
Some of the following abbreviations may be used throughout this Parts Catalog:

AC	Alternating Current	mm	Millimeter
Amp	Ampere	MOH	Mobile Off Highway
A/R	As Required	NFS	Not For Sale
AVR	Automatic Voltage Regulator	NPT	National Pipe Thread
AWG	American Wire Gauge	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	Printed Circuit
EFC	Electronic Fuel Control	Ph	Phase
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
ET	External Tooth	RFI	Radio Frequency Interference
GFI	Ground Fault Interrupter	RT	Right
ID	Inside Diameter	Spec	Specification
IEC	International Electrotechnical Commission	Thk	Thick
IT	Internal Tooth	UL	Underwriters Laboratories Inc.
kW	Kilowatt	UNC	Union National Coarse
LPG	Liquid Petroleum Gas	UNF	Union National Fine
LT	Left	VAC	Volts Alternating Current
M(meter number)	Meter	VDC	Volts Direct Current
		W/(ET, IT, EIT)	With

Paint and Thread Sealant

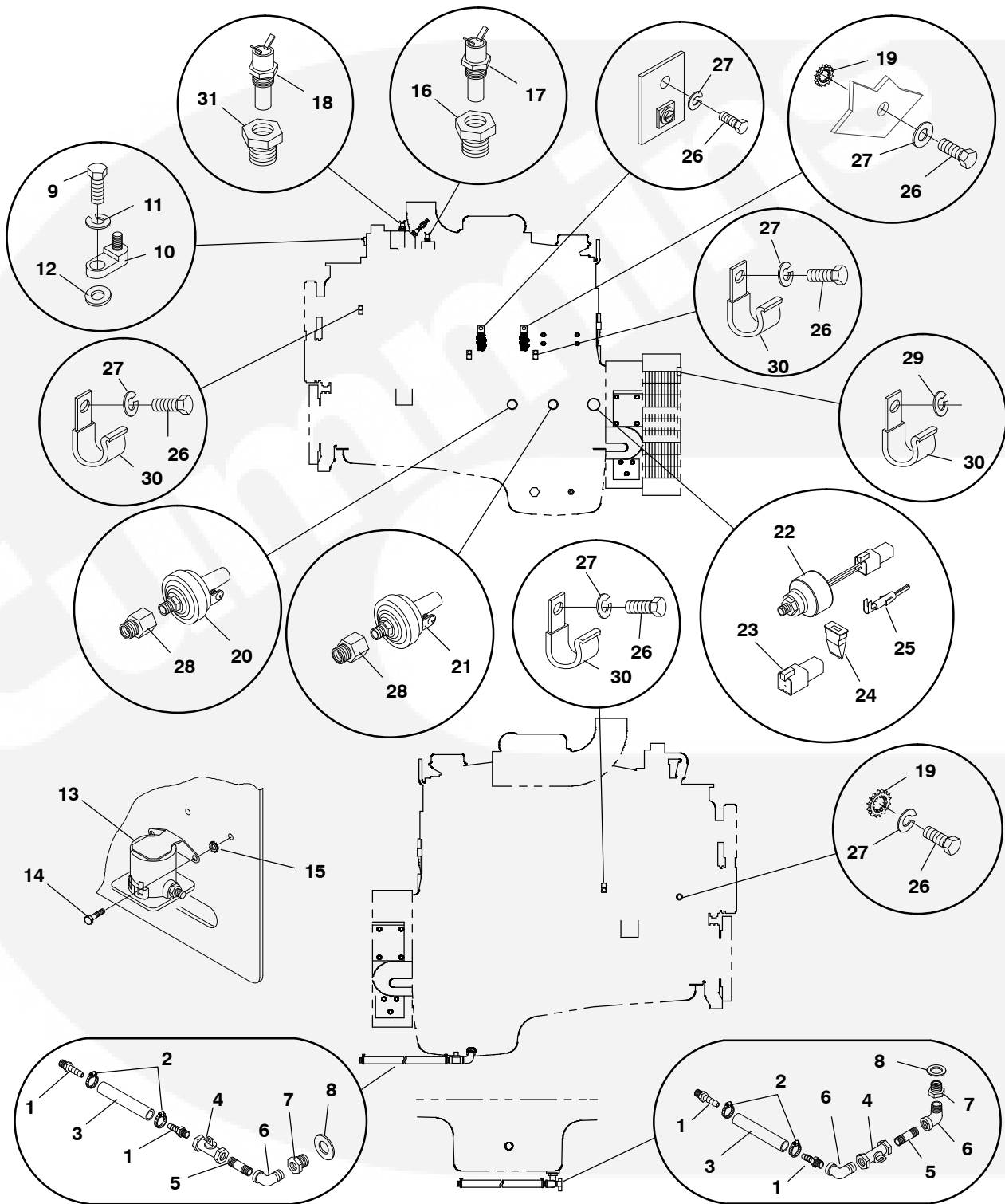
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Onan Green Enamel (Non-Metallic)				Cummins Beige Enamel
	525-0305	-	12 oz. Pressurized Spray Can		525-0551-02	-	12 oz. Pressurized Spray Can
	525-0306	-	Quart Can		525-0551-03	-	Quart Can
	525-0304	-	Gallon Can		525-0551-04	-	Gallon Can
					518-0601	-	Sealant, Thread (6 ml Tube)

Exhaust Elbow



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-2409-01	1	Elbow, Exhaust (5" OD With Threads)	2	503-1575	1	Clamp, V-Band

External Engine Parts



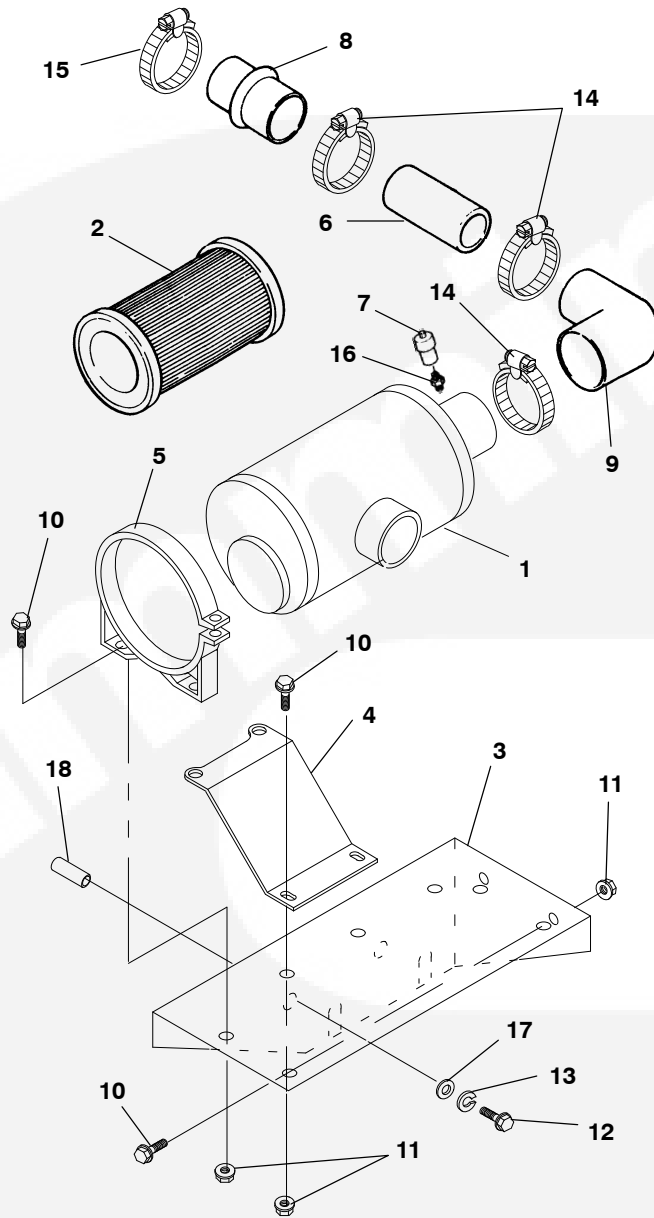
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External Engine Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-0827	2	Barb, Hose (1/2 x 3/4)	18	193-0447-01	1	Sender, Water Temperature (E2)
2	503-0189	2	Clamp, Hose	19	856-0010	2	Washer, Lock – EIT (3/8")
3	503-0098	–	Hose – Bulk (Order By The Foot – 4 Feet Required)	20	309-0641-07	1	Switch, Oil Pressure (Opens At 20 Lbs Descending) (S5 Pre-Alarm)
4	504-0011	1	Valve, Shutoff (1/2")	21	309-0641-03	1	Switch, Oil Pressure (Opens At 14 Lbs Descending) (S1)
5	505-0100	1	Nipple, Pipe – Close (1/2")	22	193-0448	1	Sender, Oil Pressure (Includes Parts Marked *)
6			Elbow, Pipe – Street – 90° (1/2")				(E1)
	505-0050	1	DFBJ, DFCF, DFCG				
	505-0050	2	DFCH	23	323-1549	1	* Connector, Receptacle – 4 Place
7	102-1335	1	Plug, Oil Drain	24	323-1548	1	* Wedge, Receptacle
8	508-0292	1	Washer, Sealing	25	323-1492	4	* Socket, Contact
9	800-0062	1	Screw, Cap – Hex Head (3/8–16 x 4")	26	801-0048	6	Screw, Cap – Hex Head (3/8–24 x 3/4")
10	309-0269	1	Switch, Temperature – Low Engine Coolant (S4)	27	850-0050	6	Washer, Lock – Spring (3/8")
11	850-0050	1	Washer, Lock – Spring (3/8")	28	503-1503	2	Adapter, Pipe (1/8")
12	526-0066	1	Washer, Flat (3/8") Not Used On All Models	29	526-0018	1	Washer, Flat (1/4")
13	307-2167	1	Relay, Start Solenoid (K2)	30	332-2634	5	Clamp, "J"
14	821-0010	2	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")	31	505-0021	1	Bushing, Pipe – Reducer (3/4" to 1/2") DFCF, DFCG
15	856-0006	1	Washer, Lock – EIT (1/4")				
16	505-0019	1	Bushing, Pipe – Reducer (1/2" to 3/8")				
17	309-0576	1	Switch, Thermostat – High Engine Coolant Temperature (Opens At 202° F – Closes At 222° F) (S2)				

* – Parts Included In 193-0448 Oil Pressure Sender

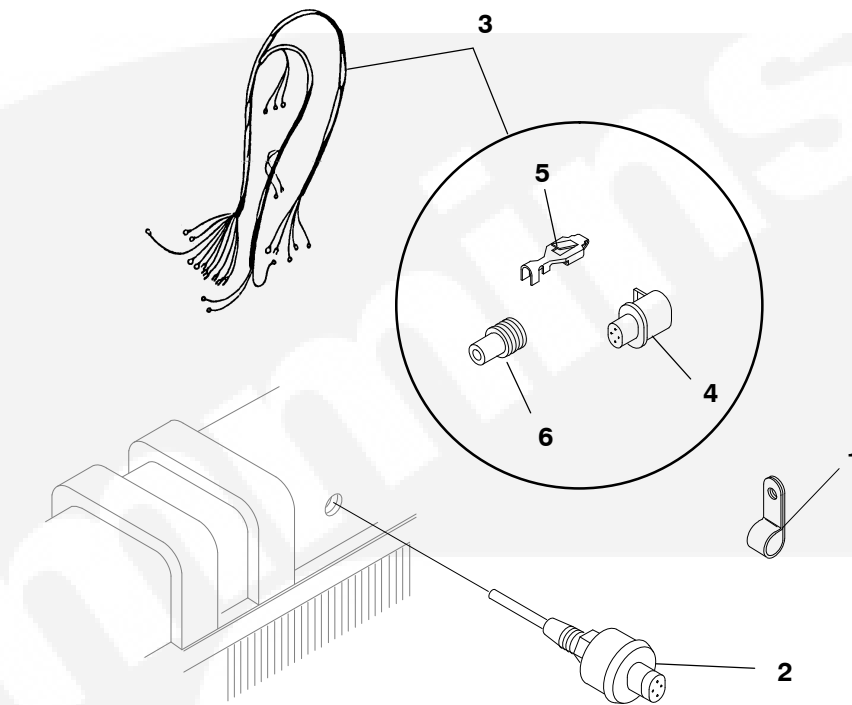
Air Cleaner Standard



D041

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-2389	1	Cleaner, Air (Includes Element)	11	870-0550-09	8	Nut, Hex – Flange Head (3/8-16)
2	140-2391	1	Element	12	801-0124	2	Screw, Cap – Hex Head (5/8-18 x 3-1/4")
3	140-3096	1	Bracket, Mounting	13	850-0070	2	Washer, Lock – Spring (5/8")
4	140-2384	1	Bracket, Mounting	14	503-1870-14	3	Clamp, Hose
5	140-1973	2	Band, Mounting	15	503-1870-11	1	Clamp, Hose
6	140-2395	1	Tube, Air Inlet (7" ID x 10-1/2")	16	505-1503	1	Adapter, Pipe
7	140-1548	1	Indicator, Service	17	526-0112	2	Washer, Flat (5/8")
8	503-1675	1	Hose, Reducer (7" ID x 5-1/2" ID)	18	403-4115-01	2	Spacer, Mounting
9	503-0970	1	Elbow, Hose – 90 Deg (7" ID)				
10	821-5004-02	8	Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")				

**Low Coolant Level Sender
Without Continuously Monitored Low Coolant Level
Generator Sets With Radiator Cooling**

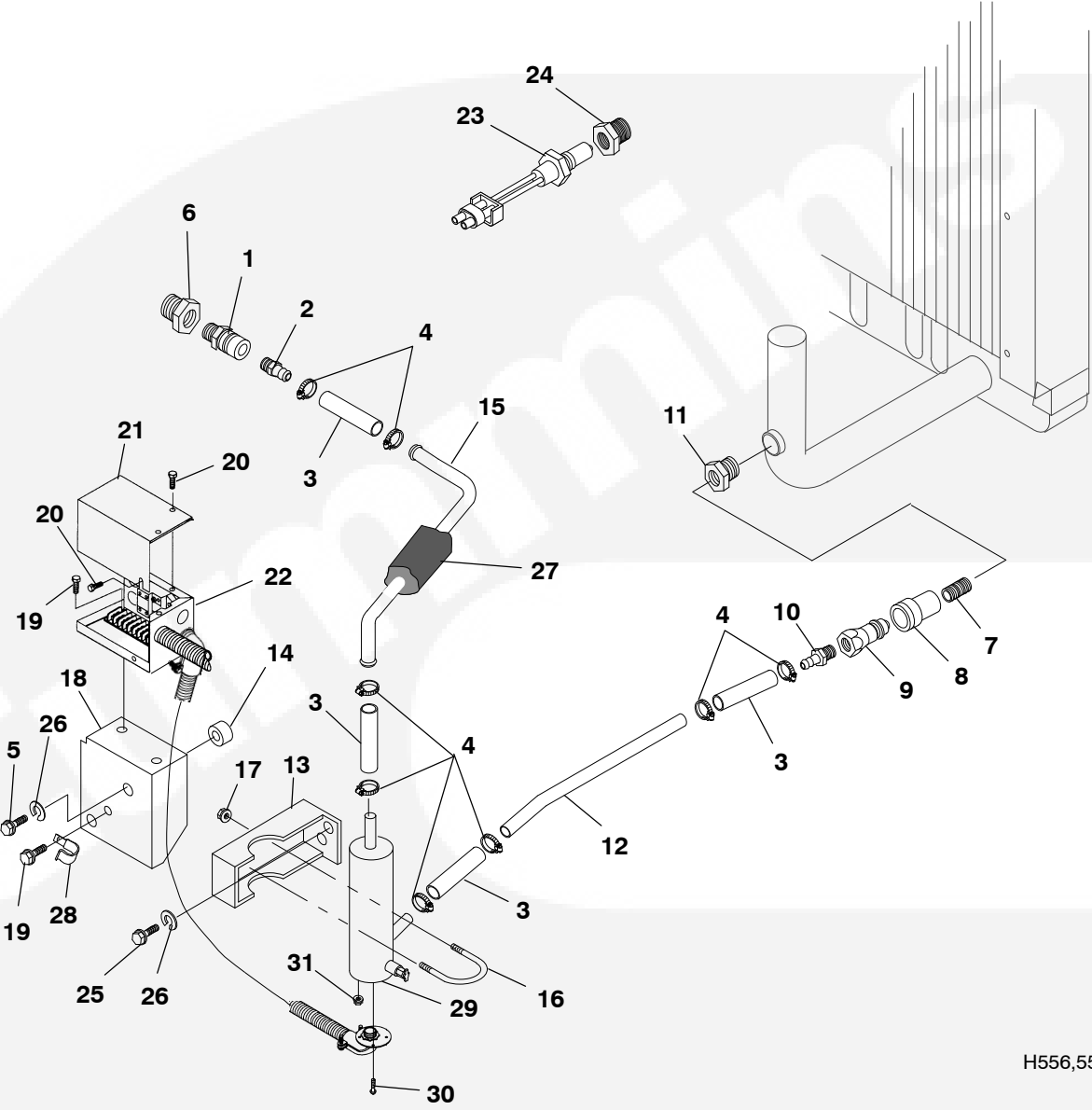


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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0481	1	Sender Assembly – Low Coolant Level (Includes Parts Marked *)	4	323-1765	1	** Connector, Housing – 4 Pin (S3)
1	518-0548-15	1	Clamp, Wiring Harness	5	323-1709	4	** Socket, Contact
2	193-0468	1	* Sender, Low Coolant Level (S7)	6	323-1708	4	** Seal, Cable
3	338-3594	1	* Harness, Wiring – Pigtail – Low Coolant Level Sender (Includes Parts Marked #)				

* – Parts Included In 193-0481 Low Coolant Level Sender Assembly
– Parts Included In 338-3594 Pigtail Wiring Harness

Coolant Heater



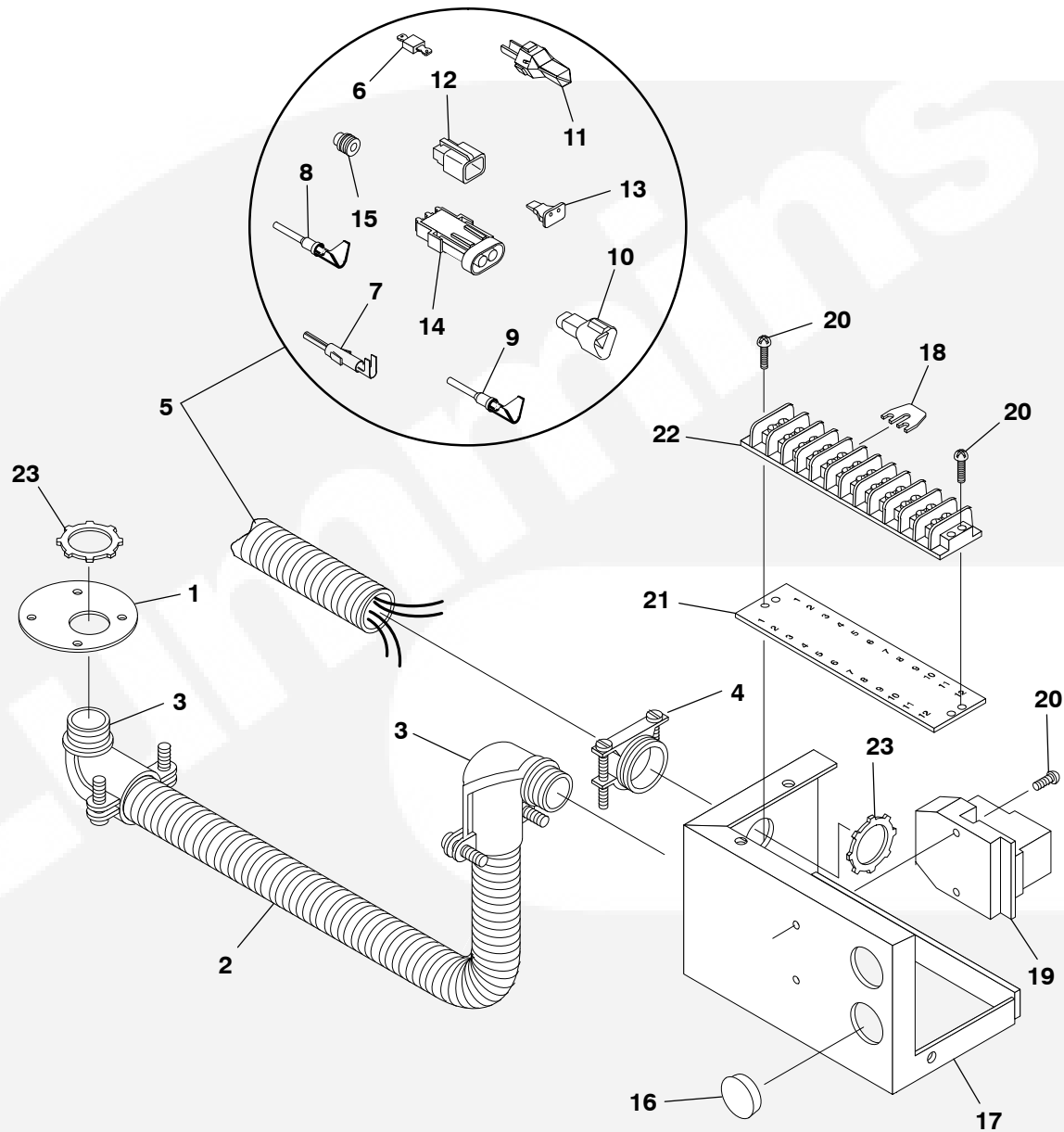
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Coolant Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	502-1259	1	Coupler, Coolant Heater (1/2")	20	821-5002-03	4	Screw, Self-Locking – Hex Washer Head (1/4–20 x 1/2")
2	502-1257	1	Connector, Hose Barb (For 3/4" ID Hose)	21	319-2815	1	Cover, Control
3	503-1634-01	4	Hose, Rubber (3/4" ID x 4")	22	–	1	Control Assembly, Coolant Heater (See Separate Page For Components)
4	503-2157-01	8	Clamp, Hose	23	309-0649	1	Thermostat (S11)
5	800-0132	2	Screw, Cap – Hex Head (5/8–11 x 1–1/2")	24	502-1336	1	Bushing, Reducer (1/2" to 3/8")
6	505-0022	1	Bushing, Reducer (1" to 1/2")	25	800-0130	2	Screw, Cap – Hex Head (5/8–11 x 1")
7	505-0100	1	Nipple, Pipe (1/2")	26	850-0070	4	Washer, Lock – Spring (5/8")
8	502-1260	1	Coupler, Coolant Heater	27	128-0108	–	Insulation – Bulk (3/4" ID) (Order By The Foot – 2 Feet Required)
9	502-1261	1	Nipple, Coolant Heater (1/2")	28	332-2634	1	Clamp, "J" Heater, Coolant (HTR)
10	502-0827	1	Connector, Hose Barb (For 3/4" ID Hose)	29	333-0639-01	1	4990 Watt
11	505-0021	1	Bushing, Reducer (3/4" to 1/2")		333-0639-02	1	6420 Watt
12	130-4588	1	Tube, Coolant Heater (Lower)	30	815-0539	3	Screw, Machine – Round Head – Cross Recessed W/IT (#8–32 x 5/8")
13	130-4586	1	Bracket, Coolant Heater	31	870-0131	3	Nut, Hex – W/ET (#10–32)
14	370-4040	2	Spacer				
15	130-4587	1	Tube, Coolant Heater (Upper)				
16	155-3021	1	Clamp, Coolant Heater				
17	870-0550-09	2	Nut, Hex Flange (3/8–16)				
18	319-2915	1	Bracket, Terminal Block				
19	821-5004-02	3	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")				

Coolant Heater Control

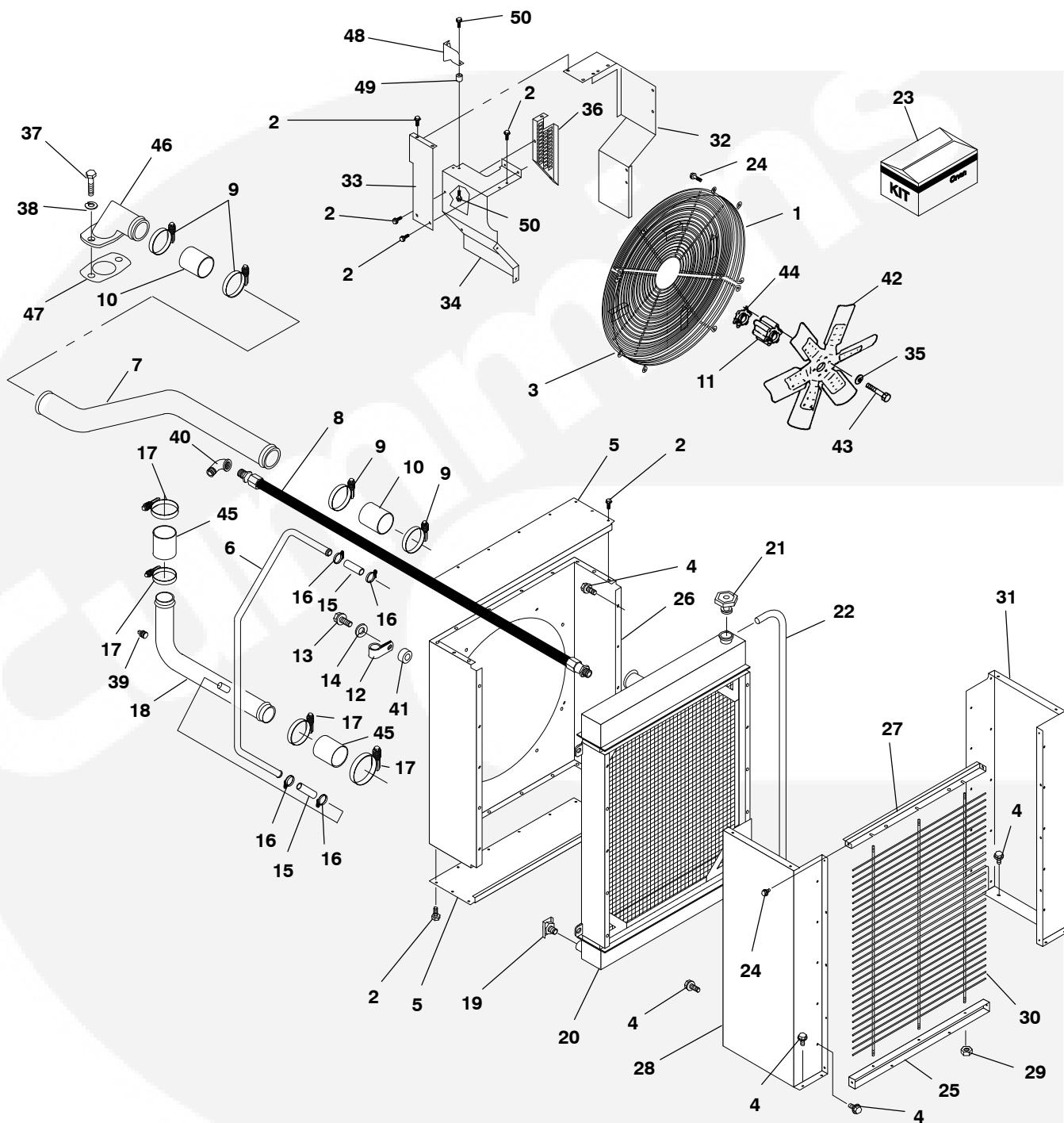


Coolant Heater Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4552	1	Cover, Coolant Heater	11	323-1502	1	*Wedge, Receptacle (Used With J3)
2	338-3335-03	1	Harness, Wiring – AC – Coolant Heater (From Coolant Heater Bottom To Coolant Heater Control Box) (Includes Conduit Connectors) (33")	12	323-1504	1	*Connector, Plug (2 Pin) (P4)
3	331-0554	2	Connector, Conduit – 90 Deg (3/4")	13	323-1500	1	*Wedge, Plug (Used With P4)
4	331-0042	1	Connector, Wiring – DC – Romex (3/4")	14	323-1652	1	*Connector, Plug – 2-Way (2 Pin) (P11)
5	338-3384	1	Harness, Wiring – DC – Engine Heater (From Coolant Heater Control Box To Engine And Main Engine Harness) (Includes Parts Marked *)	15	323-1445	2	*Seal, Cable (Used With P11)
6	357-0030	1	*Rectifier (6 Amp) (Located at K11 end of harness)	16	517-0138-02	3	Plug, Hole (Fits 1-1/8" Hole)
7	323-1718	2	*Pin, Contact (Used In P11)	17	319-2814	1	Box, Terminal
8	323-1491	3	*Pin, Contact (Used In J3)	18	332-3440	1	Jumper, Terminal
9	323-1492	2	*Socket, Contact (Used In P4)	19	307-2859	1	Relay, Power – 24VDC (K11)
10	323-1494	1	*Connector, Receptacle (3 Pin) (J3)	20	815-0464	4	Screw, Machine – Round Head – Cross Recessed W/IT – Thread Forming (#8-32 x 1.0")
				21	332-1469	1	Strip, Marker
				22	332-1468	1	Block, Terminal – 12 Place (TB1)
				23	331-0555	2	Nut, Connector Lock (3/4-14)

* – Parts Included in 338-3384 DC Engine Heater Wiring Harness

Radiator **DFBJ, DFCF, DFCG**

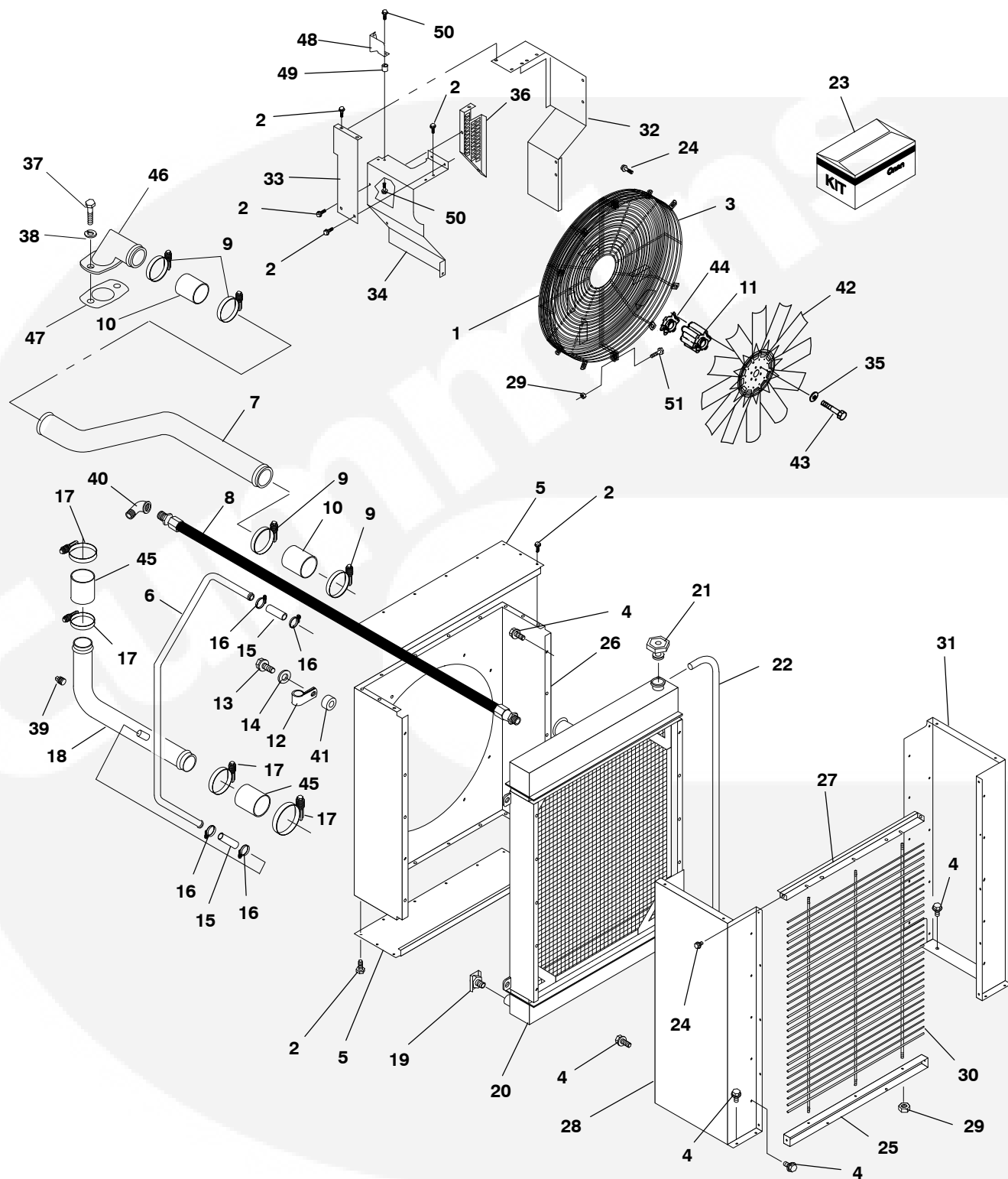


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Radiator **DFBJ, DFCF, DFCG**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-3521-01	1	Guard, Fan (Right Side) (Top)	24	821-5003-03	14	Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
2	821-5002-04	34	Screw, Self-Locking – Hex Washer Head (1/4-20 x 5/8")	25	130-4386	1	Support, Grille (Lower)
3	130-3521-02	1	Guard, Fan (Left Side) (Bottom)	26	130-4375	1	Wrapper, Fan Shroud
4			Screw, Self-Locking – Hex Washer Head (3/8-16 x 3/4")	27	130-4387	1	Support, Grille (Upper)
	821-5004-02	34	Sets With 44" Wide Skid	28	130-4384-02	1	Guard, Radiator (Left Side)
	821-5004-02	36	Sets With 50" Wide Skid		130-4383-02	1	Sets With 44" Wide Skid
5	130-4373	2	Shroud, Fan	29	870-0550-09	12	Nut, Self-Locking – Hex Head (3/8-16)
6	130-4376	1	Tube, Radiator Fill	30	130-4385	1	Grille
7	130-4725	1	Tube, Radiator (Inlet)	31			Guard, Radiator (Right Side)
8	501-0551-01	1	Line, Flexible (3/4")		130-4384-01	1	Sets With 44" Wide Skid
9	503-1872-04	4	Clamp, Hose		130-4383-01	1	Sets With 50" Wide Skid
10	503-1379-02	2	Hose, Radiator (2-1/4" ID x 4-1/2")	32	130-4665	1	Guard, Belt (Right Side)
11	130-4407-01	1	Spacer, Fan	33	130-3535	1	Guard, Belt (L-Shaped)
12	518-0548-20	2	Clamp, Hose	34	130-4802	1	Guard, Belt (Left Side)
13	800-0052	2	Screw, Cap – Hex Head (3/8-16 x 1-1/2")	35	526-0026	6	Washer, Flat (3/8")
14	526-0029	2	Washer, Flat (3/8")	36	130-4729	1	Guard, Belt (Back)
15	503-1634	2	Hose, Rubber (1" ID x 4")	37	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")
16	503-1872-01	4	Clamp, Hose	38	850-0050	2	Washer, Lock – Spring (3/8")
17	503-1872-05	4	Clamp, Hose	39	505-0130	1	Plug, Pipe – Square Head (3/4")
18	130-4379	1	Tube, Radiator (Outlet)	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
19	504-0028	1	Cock, Drain (3/8")	41	130-3660-01	2	Spacer
20			Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	42	130-4534	1	Fan, Radiator (6 Blade)
			DFBJ	43	800-0061	6	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
	130-4355	1	2 Row Core	44	130-3193	1	Gasket, Spacer
	130-4355-01	1	3 Row Core	45	503-1414-02	2	Hose, Radiator (2-3/4" ID x 5-3/4")
	130-4355-01	1	DFCF	46	130-3180	1	Connection, Radiator
			DFCG	47	130-3184	1	Gasket, Connection
	130-4355-01	1	3 Row Core	48	130-4671	1	Bracket, Mounting – Belt Guard
	130-4356	1	4 Row Core	49	402-0070	1	Dampener, Vibration
21	130-3588	1	Cap, Radiator	50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)				
23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)				

Radiator DFCH

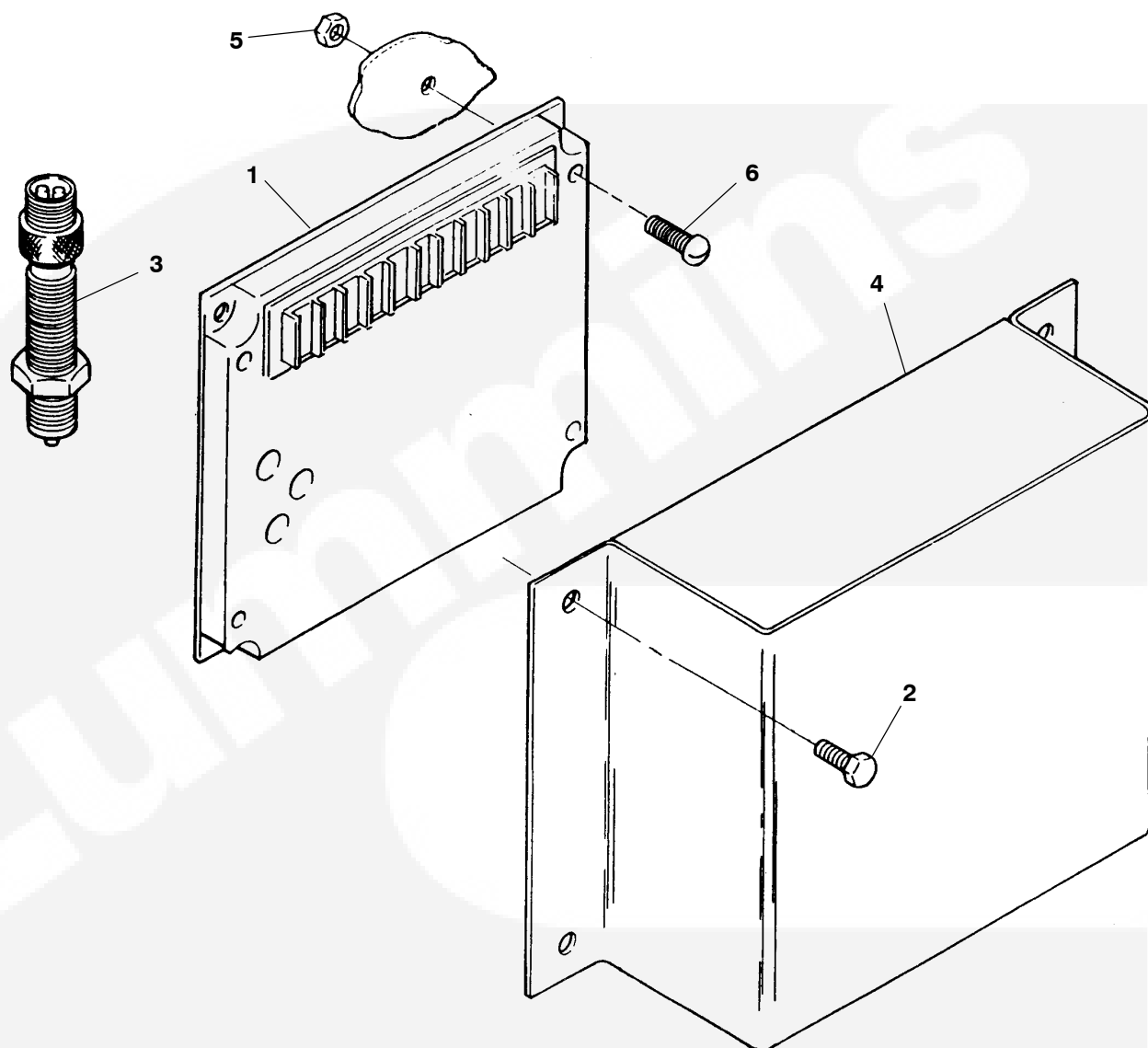


E074

Radiator DFCH

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	130-4406-01	1	Guard, Fan (Left Side)	25	130-4398	1	Support, Grille (Lower)
2	821-5002-04	39	Screw, Self-Locking – Hex Washer Head (1/4–20 x 5/8")	26	130-4400	1	Wrapper, Fan Shroud
3	130-4406-02	1	Guard, Fan (Right Side)	27	130-4409	1	Support, Grille (Upper)
4	821-5004-02	33	Screw, Self-Locking – Hex Washer Head (3/8–16 x 3/4")	28	130-4402-02	1	Guard, Radiator (Left Side)
5	130-4403	2	Shroud, Fan	29	870-0550-09	23	Nut, Self-Locking – Hex Head (3/8–16)
6	130-4376	1	Tube, Radiator Fill	30	130-4399	1	Grille
7	130-4725	1	Tube, Radiator (Inlet)	31	130-4402-01	1	Guard, Radiator (Right Side)
8	501-0551-01	1	Line, Flexible (34")	32	130-4665	1	Guard, Belt (Right Side)
9	503-1872-04	4	Clamp, Hose	33	130-3535	1	Guard, Belt (L-Shaped)
10	503-1379-02	2	Hose, Radiator (2–1/4" ID x 4–1/2")	34	130-4664	1	Guard, Belt (Left Side)
11	130-4407	1	Spacer, Fan	35	850-0050	6	Washer, Lock – Spring (3/8")
12	518-0548-20	2	Clamp, Hose	36	130-4729	1	Guard, Belt (Back)
13	800-0052	2	Screw, Cap – Hex Head (3/8–16 x 1–1/2")	37	800-0050	2	Screw, Cap – Hex Head (3/8–16 x 1")
14	526-0029	2	Washer, Flat (3/8")	38	850-0050	2	Washer, Lock – Spring (3/8")
15	503-1634	2	Hose, Rubber (1" ID x 4")	39	505-0130	1	Plug, Pipe – Square Head (3/4")
16	503-1872-01	4	Clamp, Hose	40	502-0053	1	Elbow, Street – 45 Deg (1/8")
17	503-1872-05	4	Clamp, Hose	41	130-3660-01	2	Spacer
18	130-4379	1	Tube, Radiator (Outlet)	42	130-4408	1	Fan, Radiator (12 Blade)
19	504-0028	1	Cock, Drain (3/8")	43	800-0061	6	Screw, Cap – Hex Head (3/8–16 x 3–3/4")
20	130-4369	1	Radiator (Includes Radiator Cap, Overflow Hose, and Safety Sight Gauge Kit)	44	130-3193	1	Gasket, Spacer
21	130-3588	1	Cap, Radiator – 7 PSI	45	503-1414-02	2	Hose, Radiator (2–3/4" ID x 5–3/4")
22	503-1418	–	Hose – Bulk (1/4" ID) (Order By The Foot – 6 Feet Required)	46	130-3180	1	Connection, Radiator
23	130-4362	1	Kit, Gauge – Safety Sight – Radiator (Includes Glass Bulb and O-Ring)	47	130-3184	1	Gasket, Connection
24	821-5003-03	12	Screw, Self-Locking – Hex Washer Head (5/16–18 x 3/4")	48	130-4671	1	Bracket, Mounting – Belt Guard
				49	402-0070	1	Dampener, Vibration
				50	821-0014	2	Screw, Self-Locking – Hex Washer Head (5/16–18 x 1/2")
				51	821-5004-03	3	Screw, Self-Locking – Hex Washer Head (3/8–16 x 1")

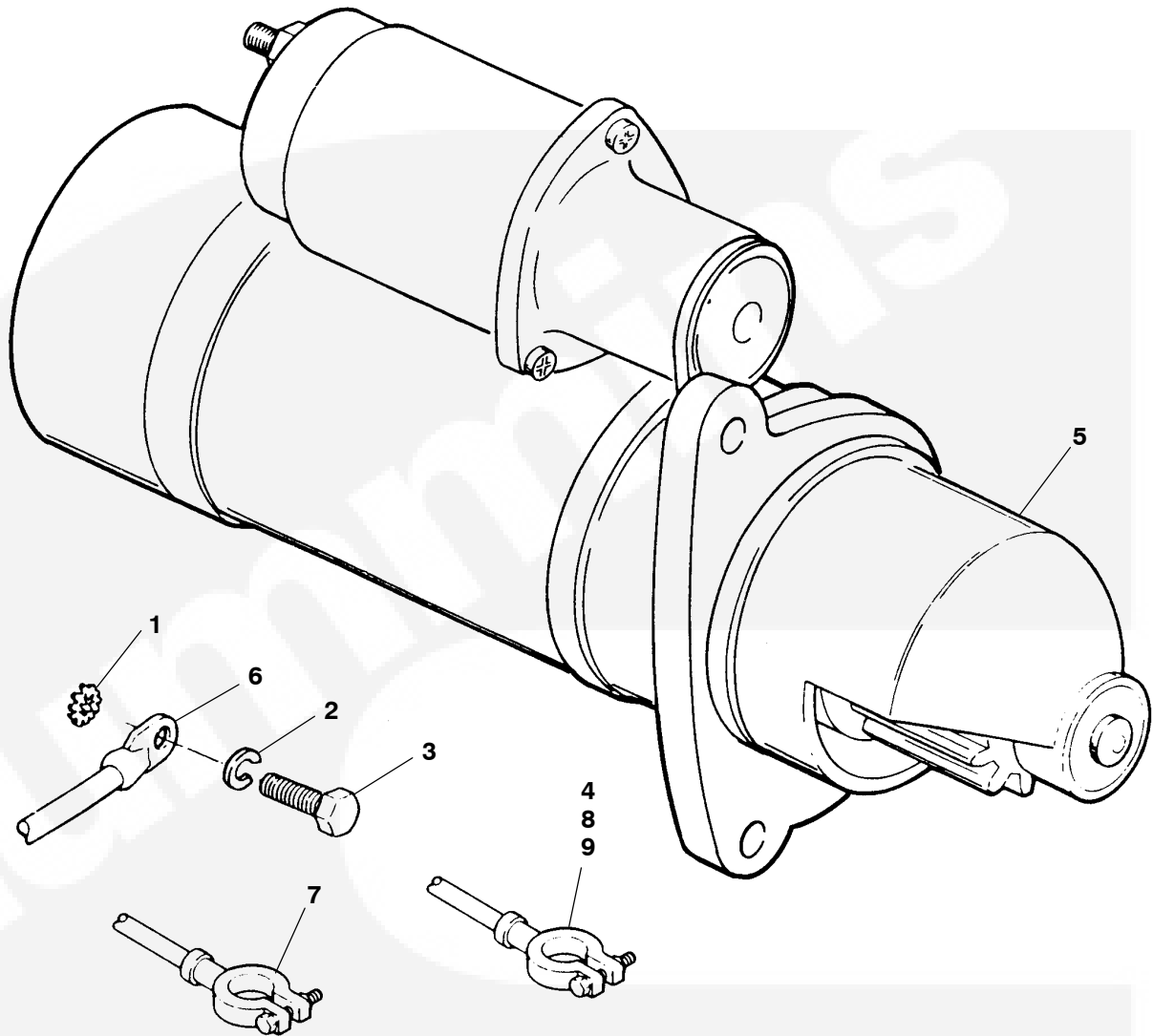
Electronic Governor



A332,H529,546,547

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	151-0637	1	Control, Governor	5	870-0131	4	Nut, Hex - W/ET (#10-32)
2	821-6002-03	4	Screw, Self-Locking - Hex Washer Head (M6 x 20mm)	6	821-6001-03	4	Screw, Self-Locking - Hex Washer Head (M5 x 16mm)
3	151-0411	1	Pickup, Magnetic				
4	150-2213	1	Cover, Governor Control				

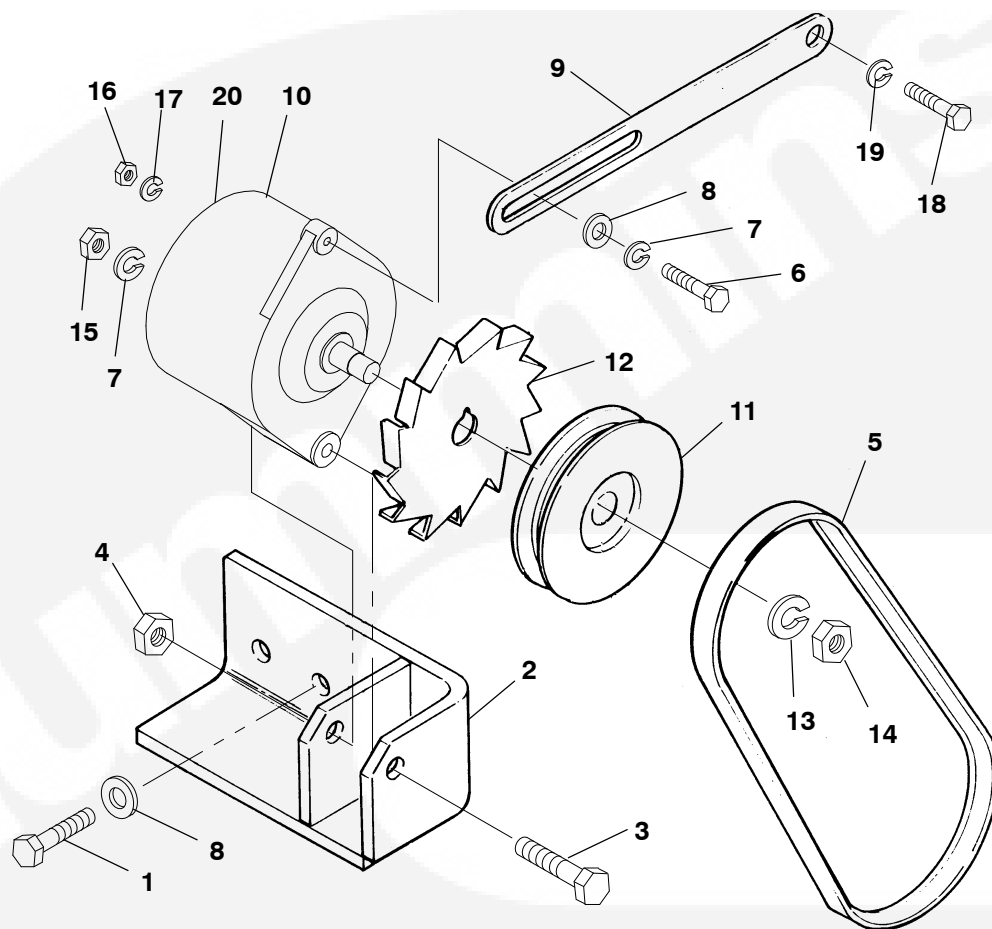
Electric Starter



A334

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	856-0013	1	Washer, Lock - EIT (1/2") Sets With 44" Wide Skid	5	191-1858	1	Starter (24VDC)
	856-0013	2	Sets With 50" Wide Skid	6	416-0632	1	Cable, Battery - Starter to Ground (14-1/2")
2	850-0060	1	Washer, Lock - Spring (1/2") Sets With 44" Wide Skid	7	416-0446	1	Cable, Battery - Jumper (12-1/2")
	850-0060	2	Sets With 50" Wide Skid	8	416-1019	1	Boot, Battery - Red
3			Screw, Cap - Hex Head (1/2-13 x 1")	9	416-1084	1	Boot, Starter - Red
	800-0090	1	Sets With 44" Wide Skid				
	800-0090	2	Sets With 50" Wide Skid				
4	416-0444	2	Cable, Battery Sets With 44" Wide Skid (44") Sets With 50" Wide Skid				
	416-0619	1	18"				
	416-0444	1	44"				

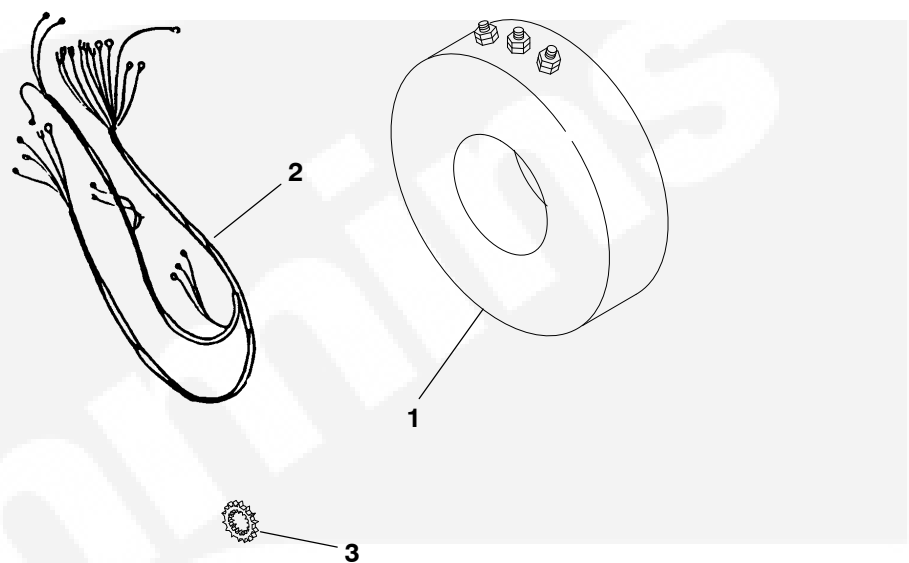
Alternator 45 Amp



A333

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0050	2	Screw, Cap – Hex Head (3/8-16 x 1")	10	191-1983-02	1	Alternator (G1)
2	191-1980	1	Bracket, Mounting	11	191-1982	1	Pulley, Alternator
3	800-0059	1	Screw, Cap – Hex Head (M10 x 80mm)	12	191-1981	1	Fan, Alternator
4	870-2056	1	Nut, Hex – Flange Head (M10)	13	851-0039	1	Washer, Spring (Special)
5	511-0092	1	Belt, Alternator	14	870-2161	1	Nut, Hex (M16)
6	800-2059	1	Screw, Cap – Hex Head (M8 x 30mm)	15	860-2008	1	Nut, Hex (M8)
7	850-2008	2	Washer, Lock – Spring (M8)	16	860-2006	2	Nut, Hex (M5)
8	526-0030	3	Washer, Flat (3/8")	17	850-2005	2	Washer, Lock – Spring (M5)
9	191-1977	1	Bracket, Adjusting	18	800-0202	1	Screw, Cap – Hex Head (7/16-20 x 3-1/2")
				19	850-0055	1	Washer, Lock – Spring (7/16")
				20	191-2121	1	Regulator, Voltage

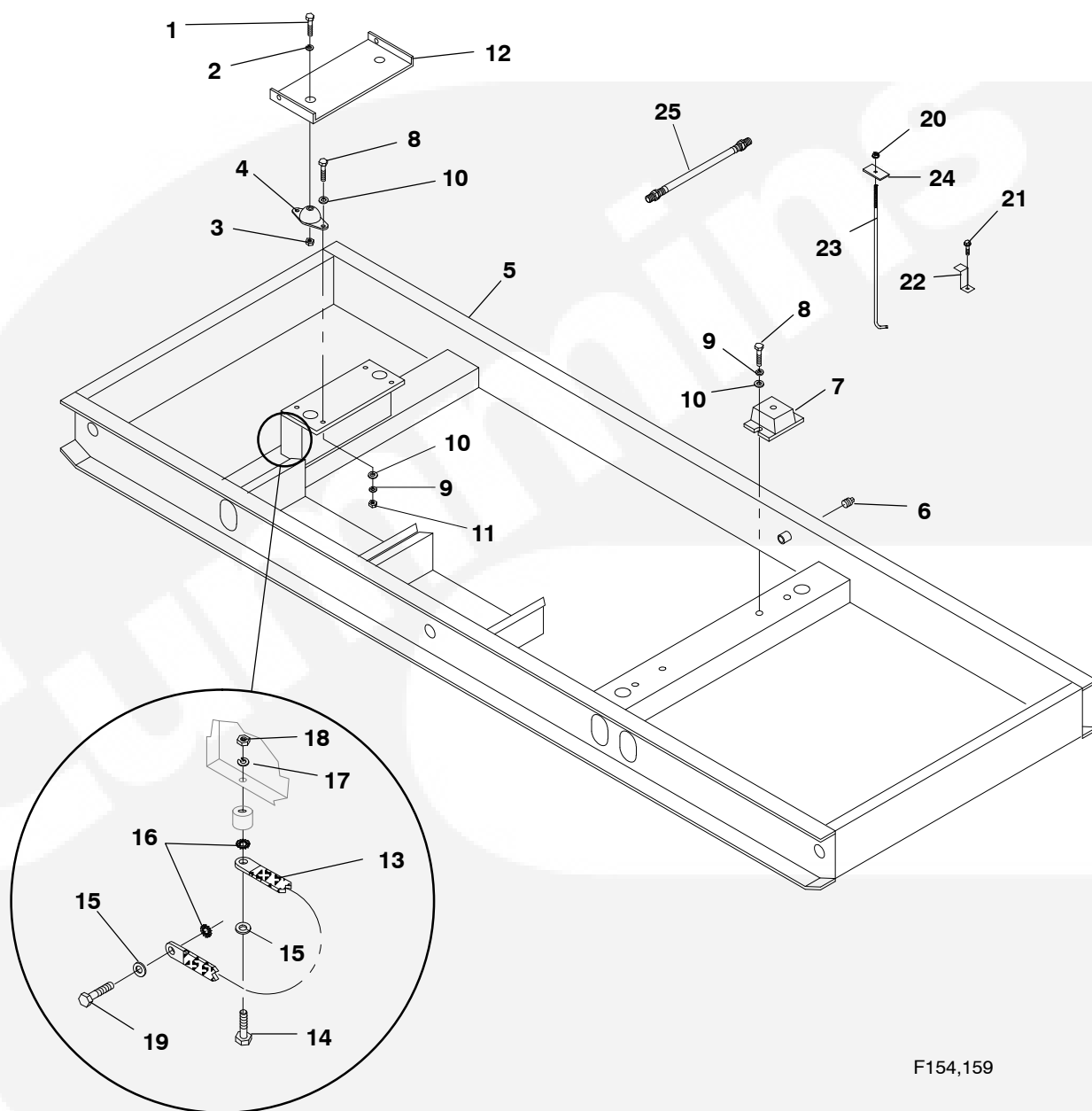
Current Transformer



K001,H530,532,555

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21, CT22, CT23)	2	338-1980	1	Harness, Wiring (TB21 And GND To CT21,22,23) (61")
	302-1794-08	3	Ratio 400/5 or 800/5	3	856-0008	2	Washer, Lock - EIT (5/16") (Grounding Wires)
	302-1794-09	3	Ratio 500/5 or 1000/5				
	302-1794-10	3	Ratio 600/5 or 1200/5				
	302-1794-11	3	Ratio 750/5 or 1500/5				
	302-1794-12	3	Ratio 1500/5 or 3000/5				

Skid

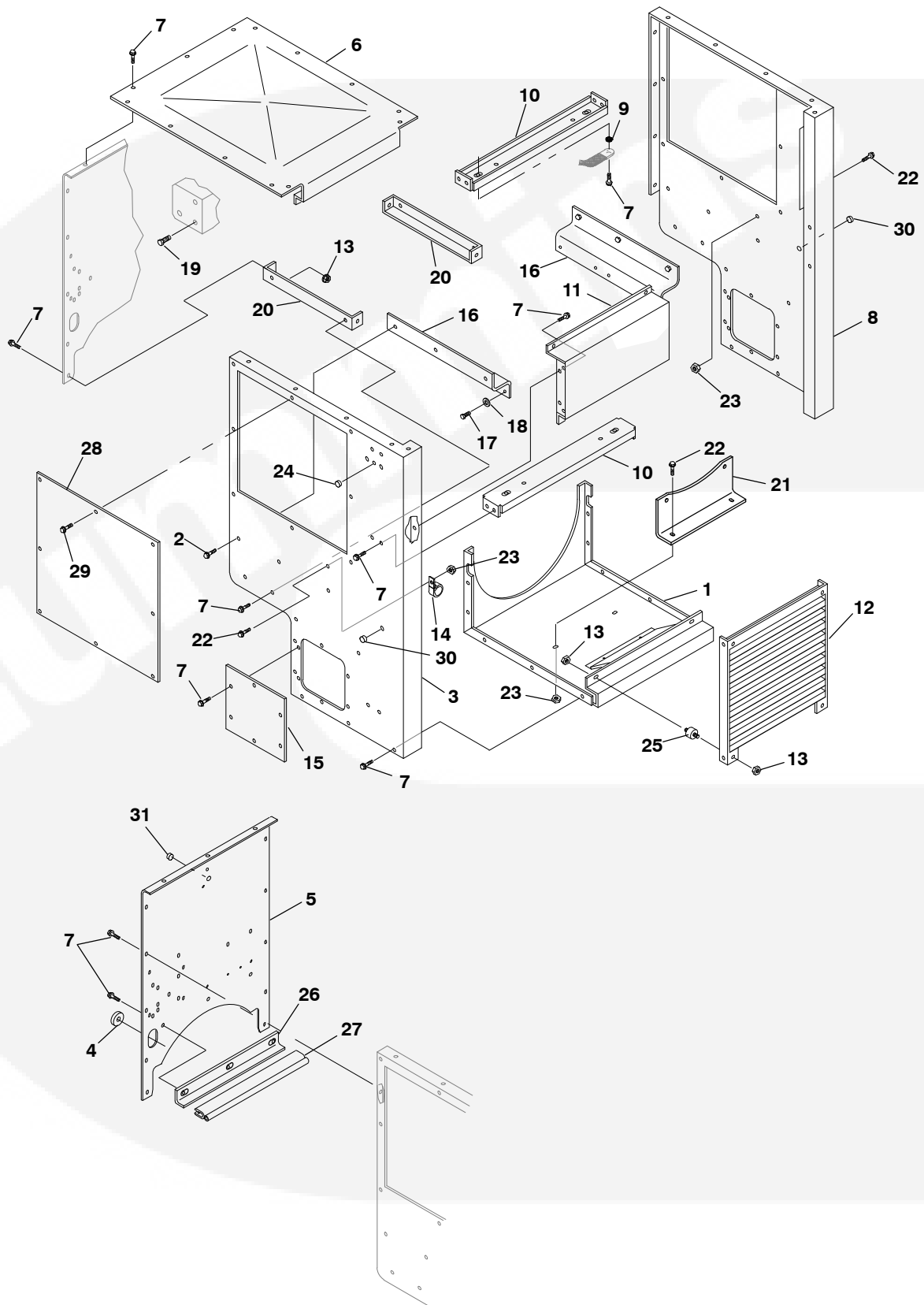


F154,159

Skid

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0138	2	Screw, Cap – Hex Head (5/8-11 x 3")	15	526-0030	2	Washer, Flat (3/8")
2	850-0070	2	Washer, Lock – Spring (5/8")	16	856-0010	2	Washer, Lock – EIT (3/8")
3	870-0547	2	Nut, Hex (5/8-11)	17	850-0050	2	Washer, Lock – Spring (3/8")
4	402-0716	2	Isolator, Vibration – Engine End	18	860-0003	2	Nut, Hex (3/8-16)
5			Skid	19	800-0051	1	Screw, Cap – Hex Head (3/8-16 x 1-1/4")
	403-4125	1	Generator Sets With 44" Wide Skid	20	870-0212	1	Nut, Hex – Locking (1/4-20)
	403-4143	1	Generator Sets With 50" Wide Skid	21	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
6	505-1379	1	Plug, Pipe (1/2")	22	416-0850	4	Bracket, Retainer – Battery
7	402-0704	2	Isolator, Vibration Generator End	23	416-0853	1	Hold-Down – Battery
8	800-0091	8	Screw, Cap – Hex Head (1/2-13 x 1-1/4")	24	416-0975-01	1	Bracket, Retainer – Battery
9	850-0060	8	Washer, Lock – Spring (1/2")	25			Line, Fuel – Flexible (Generator Sets Without Day Tank)
10	526-0219	12	Washer, Flat (1/2")		501-0084	1	Fuel Supply (1/2" ID x 39")
11	862-0016	4	Nut, Hex (1/2-13)		501-0216	1	Fuel Return (3/8" ID x 42")
12	403-4114	1	Bracket, Engine Support	26	517-0286-04	1	Plug, Cap – Exhaust (Not Illustrated)
13	337-0090	1	Strap, Ground				
14	800-0053	1	Screw, Cap – Hex Head (3/8-16 x 1-3/4")				

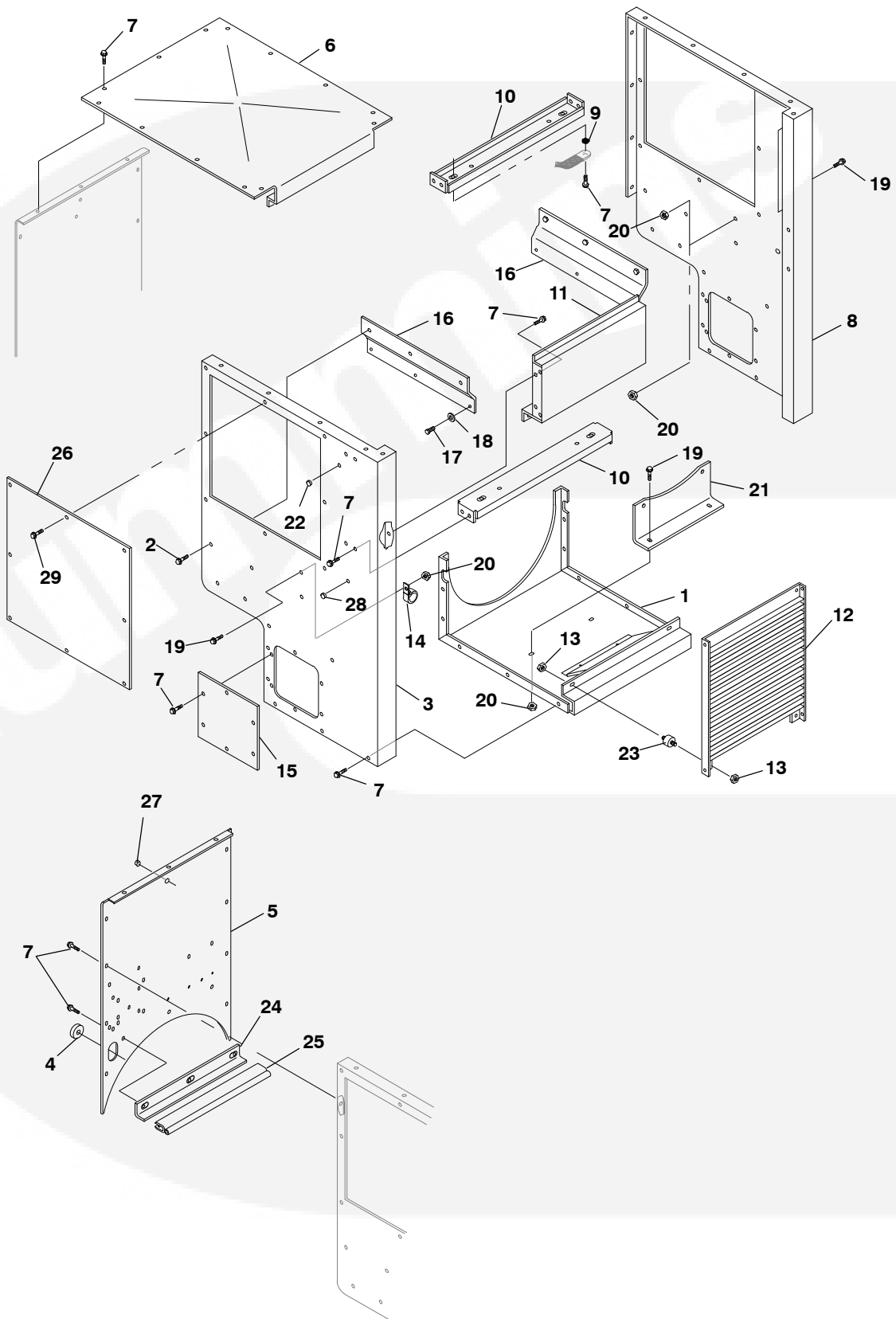
Control Housing Model HC4 Generators DFBJ, DFCF, DFCG



**Control Housing
Model HC4 Generators
DFBJ, DFCF, DFCG**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-01	1	Panel – Bottom	20	319-3257	2	Panel, Support
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	21	319-1345	1	Bracket, Panel
3	319-3287-01	1	Panel – Right Side	22	821-6003-02	5	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	23	870-2055	5	Nut, Locking – Hex Head (M8)
5	319-3289	1	Panel – Front	24	517-0131	1	Plug, Hole (Fits 3/8" Hole)
6	301-9512	1	Cover, Top	25	402-0729	4	Isolator, Vibration
7	821-6002-03	62	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	26	319-3291	1	Angle, Stiffener
8	319-3287-02	1	Panel – Left Side	27	508-1109	–	Edging – Bulk (1/4") (Order By The Foot – 1 Foot Required)
9	856-0006	1	Washer, Lock – W/EIT (1/4")	28	301-9511	2	Cover, Side – Upper Without Circuit Breaker, Entrance Box or BUS Box
10	319-3294	2	Support, Control Box		301-9511	1	With Circuit Breaker, Entrance Box or BUS Box
11	319-2776	1	Panel – Rear	29			Screw, Self-Locking – Hex Washer Head Without Circuit Breaker, Entrance Box or BUS Box (M6 x 20mm)
12	319-2768	1	Grille				With Circuit Breaker, Entrance Box or BUS Box (M6 x 20mm)
13	870-2054	8	Nut, Locking – Hex Flange Head (M6)				Plug, Hole (Fits 3/4" Hole)
14	518-0548-02	2	Clamp, Hose				Plug, Hole (Fits 5/8" Hole)
15	301-9629	2	Cover, Side – Lower				
16	319-3255	2	Bracket, Mounting		821-6002-03	16	
17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)				
18	850-2012	6	Washer, Lock – Spring (M12)		821-6002-03	8	
19	800-2114	1	Screw, Cap – Hex Head (M12 x 40mm)	30	517-0136	2	
				31	517-0135	1	

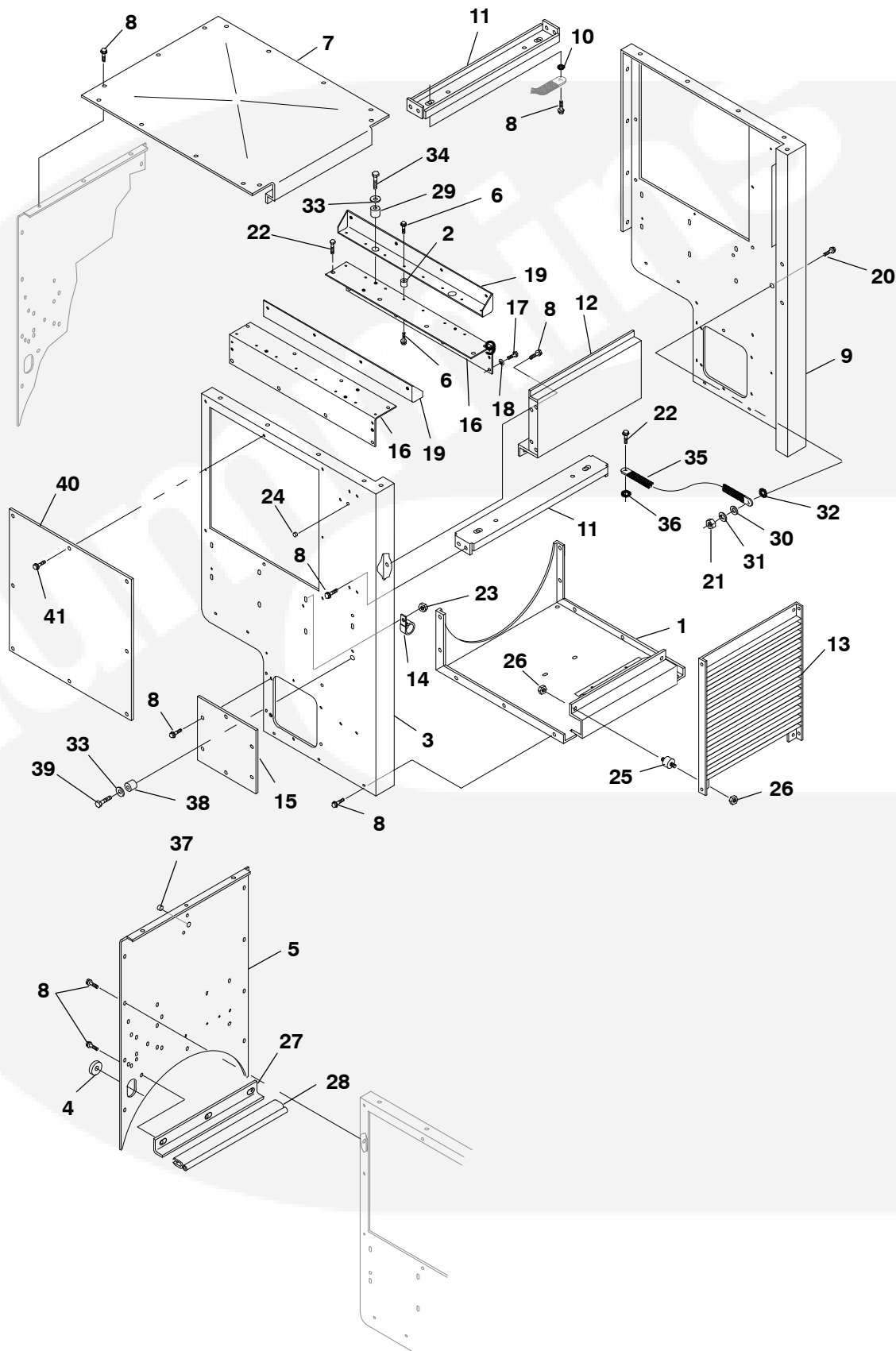
Control Housing Model HC5 Generators DFBJ, DFCF, DFCG



**Control Housing
Model HC5 Generators
DFBJ, DFCF, DFCG**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	20	870-2055	5	Nut, Hex (M8)
2	821-6004-01	6	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)	21	319-1346	1	Bracket, Panel
3	319-3287-01	1	Panel – Right Side	22	517-0131	1	Plug, Hole (Fits 3/8" Hole)
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	23	402-0729	4	Isolator, Vibration
5	319-3290	1	Panel – Front	24	319-3291	1	Angle, Stiffener
6	301-9512	1	Cover, Top	25	508-1109	–	Edging – Bulk (1/4") (Order By The Foot – 1 Foot Required)
7	821-6002-03	61	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	26	301-9511	2	Cover, Side – Upper Without Circuit Breaker, Entrance Box or BUS Box
8	319-3287-02	1	Panel – Left Side		301-9511	1	With Circuit Breaker, Entrance Box or BUS Box
9	856-0006	1	Washer, Lock – EIT (1/4")	27	517-0135	1	Plug, Hole (Fits 5/8" Hole)
10	319-3294	2	Support, Control Box	28	517-0136	2	Plug, Hole (Fits 3/4" Hole)
11	319-2776	1	Panel – Rear	29			Screw, Self-Locking – Hex Washer Head (M6 x 20mm)
12	319-2768	1	Grille		821-6002-03	20	Without Circuit Breaker, Entrance Box or BUS Box
13	870-2054	8	Nut, Locking – Hex Flange Head (M6)		821-6002-03	12	With Circuit Breaker, Entrance Box or BUS Box
14	518-0548-02	2	Clamp, Hose				
15	301-9629	2	Cover, Side – Lower				
16	319-3327	2	Bracket, Mounting				
17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)				
18	850-2012	6	Washer, Lock – Spring (M12)				
19	821-6003-02	5	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)				

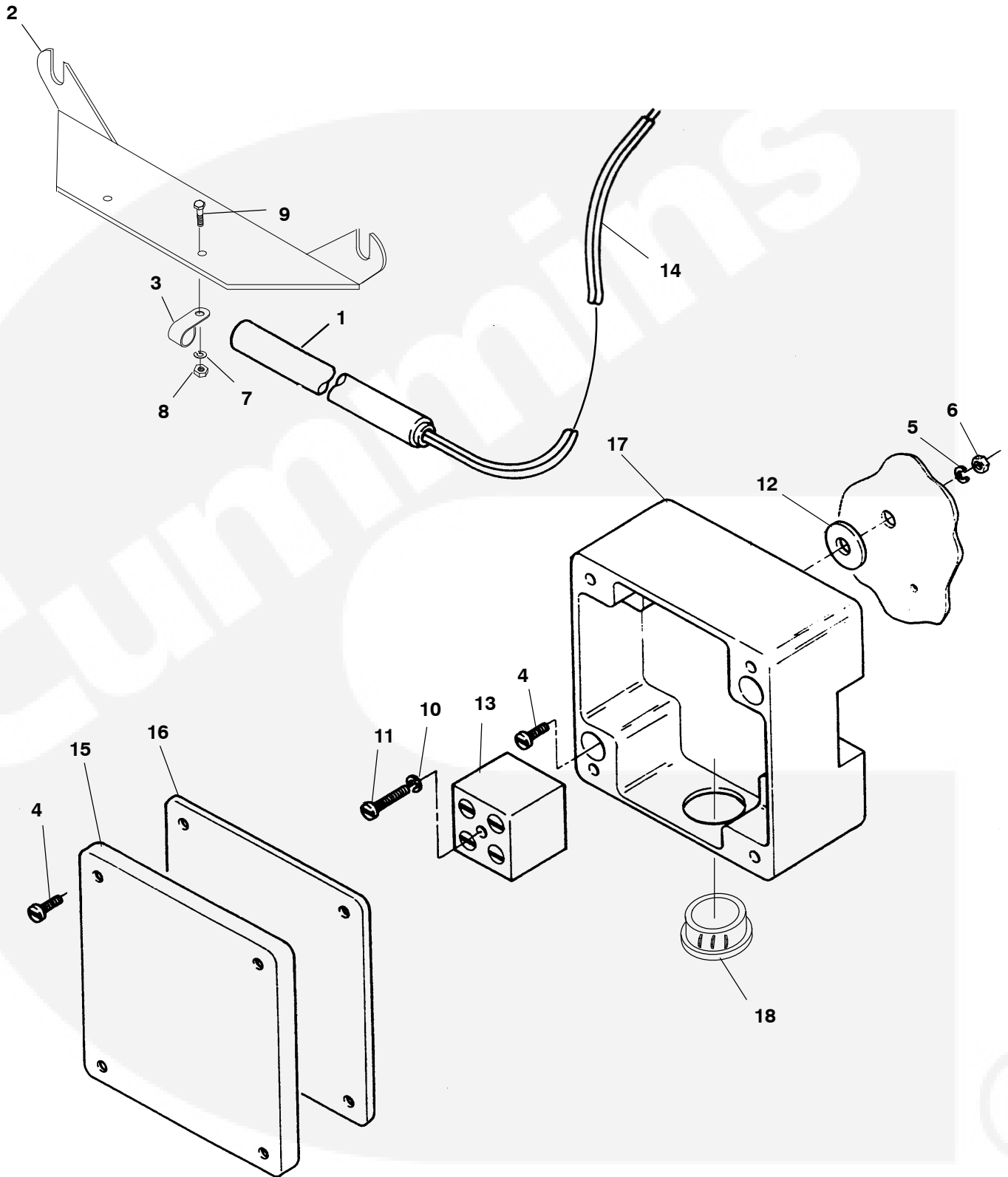
Control Housing Model HC5 Generators DFCH



Control Housing Model HC5 Generators DFCH

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3270-02	1	Panel – Bottom	21	870-2055	2	Nut, Hex (M8)
2	402-0070	16	Isolator, Vibration	22	821-6004-01	15	Screw, Self-Locking – Hex Washer Head (M10 x 20mm)
3	319-3287-01	1	Panel – Right Side	23	870-2056	2	Nut, Hex (M10)
4	508-1057	1	Grommet, Rubber (Fits 2-1/4" Hole)	24	517-0131	1	Plug, Hole (Fits 3/8" Hole)
5	319-3290	1	Panel – Front	25	402-0729	4	Isolator, Vibration
6	821-0014	36	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")	26	870-2054	8	Nut, Hex (M6)
7	301-9512	1	Cover, Top	27	319-3291	1	Angle, Stiffener
8	821-6003-02	61	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	28	508-1109	–	Edging – Bulk (Order By The Foot – 1 Foot Required)
9	319-3287-02	1	Panel – Left Side	29	191-2034-03	4	Spacer, Mounting
10	856-0006	1	Washer, Lock – EIT (1/4")	30	526-2100	2	Washer, Flat (M8)
11	319-3294	2	Support, Control Box	31	850-2006	1	Washer, Lock – Spring (M8)
12	319-2776	1	Panel – Rear	32	856-0008	1	Washer, Lock – EIT (5/16")
13	319-2768	1	Grille	33	526-0128	6	Washer, Flat (7/16" ID x 1-1/2" OD x 1/4" Thk)
14	332-2634	2	Clamp, "J"	34	800-2091	4	Screw, Cap – Hex Head (M10 x 50mm)
15	301-9629	2	Cover, Side – Lower	35	337-0090-01	1	Strap, Ground
16	319-3328	2	Bracket, Control Panel – Lower	36	856-0010	1	Washer, Lock – EIT (3/8")
17	800-2111	6	Screw, Cap – Hex Head (M12 x 25mm)	37	517-0135	1	Plug, Hole (Fits 5/8" Hole)
18	850-2012	6	Washer, Lock – Spring (M12)	38	191-2034-02	2	Spacer, Mounting
19	319-3292	2	Bracket, Control Panel – Upper	39	800-0052	2	Screw, Cap – Hex Head (3/8-16 x 1.5)
20	821-6003-02	2	Screw, Self-Locking – Hex Washer Head (M8 x 20mm)	40	301-9511	2	Cover, Side – Upper
				41	821-6002-03	16	Screw, Hex Head (M6 x 1 x 20)

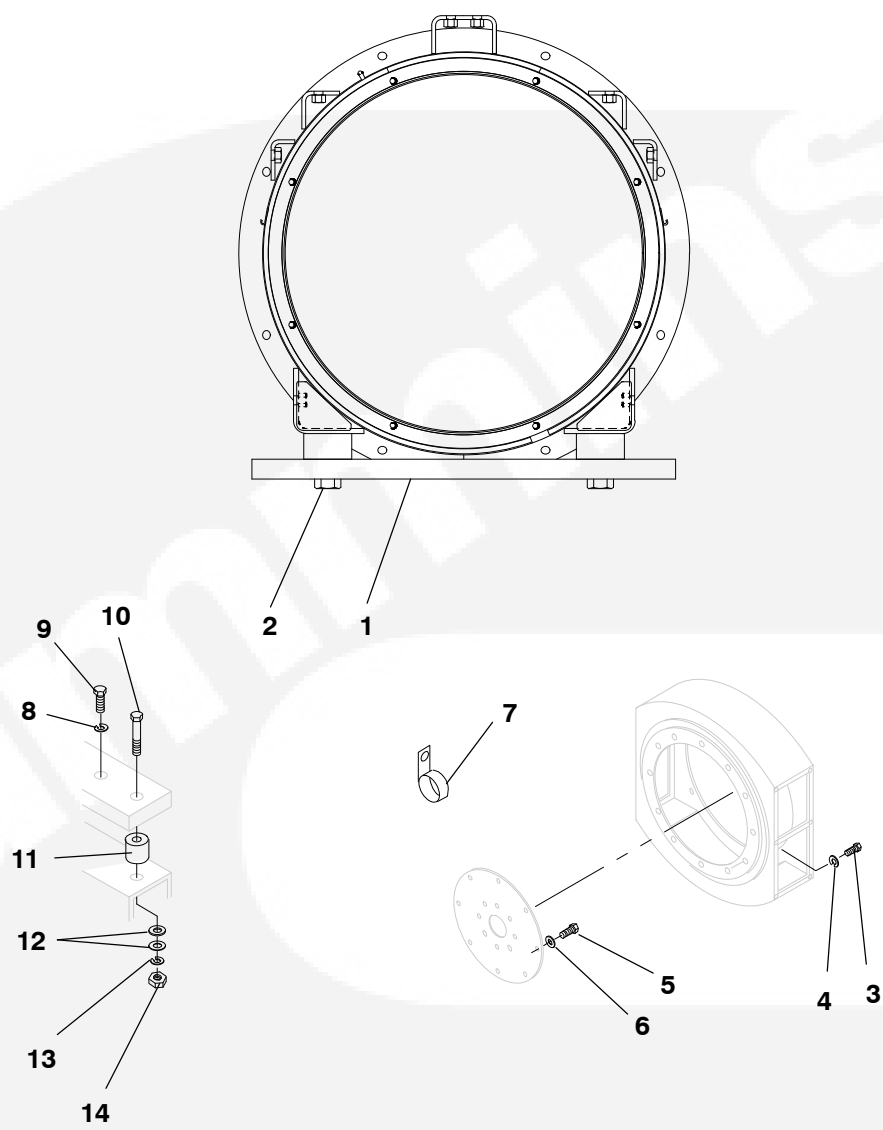
Generator Heater



Generator Heater

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Cartridge, Heater	5	850-2004	2	Washer, Lock – Spring (M4)
			150 Watt	6	860-2005	2	Nut, Hex (M4)
	333-0438-03	2	120 Volt	7	850-2005	2	Washer, Lock – Spring (M5)
	333-0438-04	2	240 Volt	8	860-2006	2	Nut, Hex (M5)
			300 Watt	9	800-2008	2	Screw, Cap – Hex Head (M5 x 16mm)
	333-0438-05	1	120 Volt	10	850-2003	1	Washer, Lock – Spring (M3)
	333-0438-06	1	240 Volt	11	822-3047	1	Screw, Machine – Pan Head (M3 x 20mm)
2			Bracket, Mounting – Heater	12	508-0228	1	Grommet
	232-3850	1	Sets With Model HC4 Generator	13	332-3023	1	Block, Terminal
	232-3849	1	Sets With Model HC5 Generator	14	898-1254-25	1	Sleeving – Heater Leads (59")
3			Clamp, Loop	15	330-0141-03	1	Cover, Box
	332-3024-14	4	Sets With Model HC4 Generator	16	330-0141-04	1	Gasket, Cover
	332-3024-14	2	Sets With Model HC5 Generator	17	330-0142	1	Box, Terminal
4	822-3075	6	Screw, Machine – Slotted Pan Head (M4 x 16mm)	18	517-0021	1	Plug, Dot Button

Generator Mounting



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	232-3966	1	Foot, Generator
2	800-2242	1	Screw, Cap - Hex Head (M24 x 70)
3	800-0073	12	Screw, Cap - Hex Head (7/16-14 x 1-1/2")
4	850-0055	12	Washer, Lock - Spring (7/16")
5	805-0032	8	Bolt, Place (1/2-13 x 1-1/4")
6	526-0035	8	Washer, Flat (1/2")
7	332-3196	1	Clamp, "J"

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	850-0060	2	Washer, Lock - Spring (1/2")
9	800-0093	2	Screw, Cap - Hex Head (1/2-13 x 1-3/4")
10	800-0307	2	Screw, Cap - Hex Head (1-8 x 5")
11	403-4115	2	Spacer, Generator Mounting
12	526-0435	4	Washer, Flat (1")
13	850-0086	2	Washer, Lock - Spring (1")
14	862-0042	2	Nut, Hex (1-8)

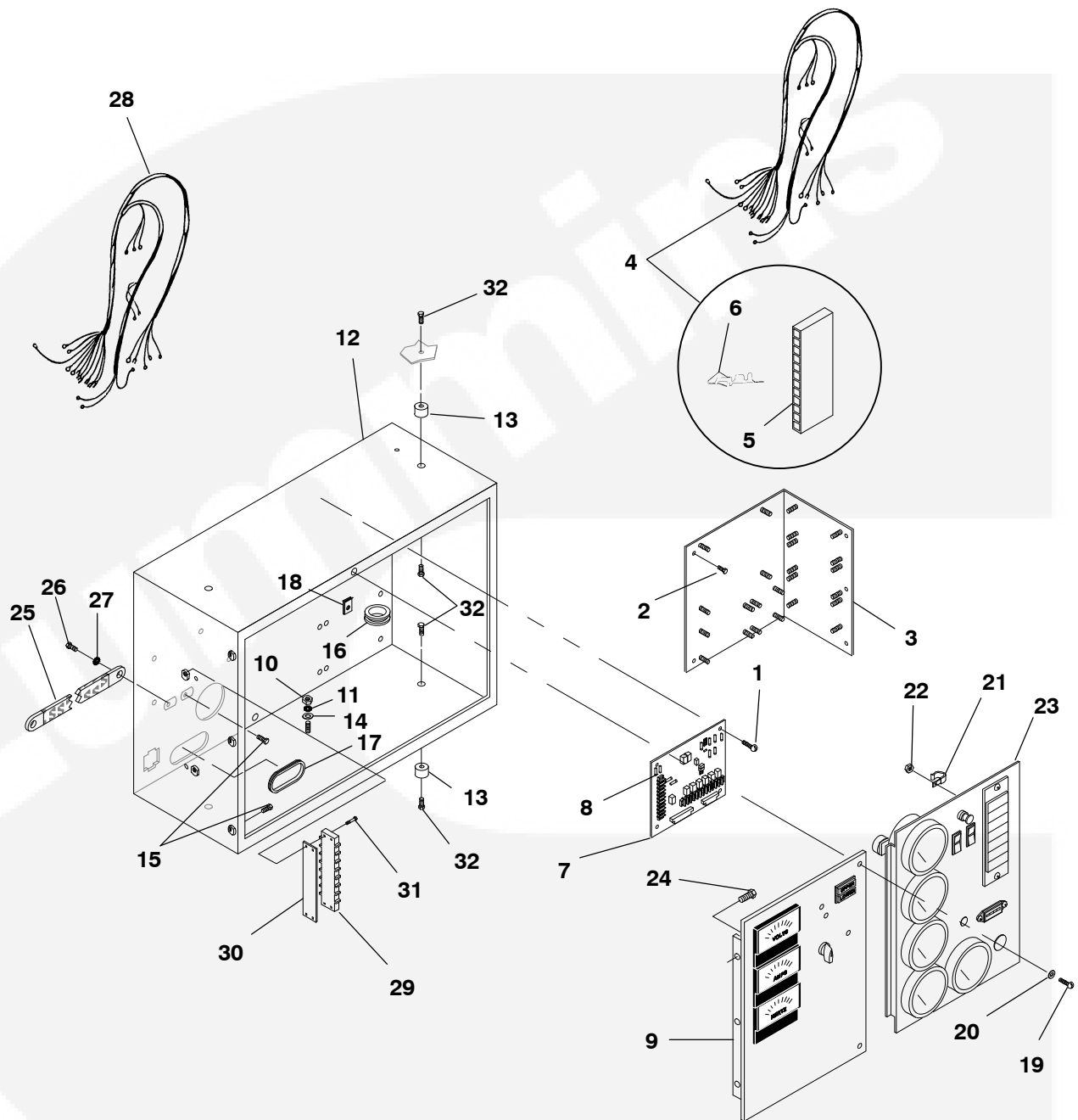
Generator

For COMPLETE generator replacement use the 200-XXXX-XX Cummins Power Generation identification number.

Contact your nearest Newage distributor for assistance in ordering component parts. For COMPLETE generator replacement use the 200-XXXX-XX Cummins Power Generation identification number listed below.

Cummins Power Generation Identification Number	Generator Model
200-3046-63	HC434D
200-3046-64	HC434E
200-3046-65	HC434F
200-3046-76	HC534C
200-3046-77	HC534D

Detector Control

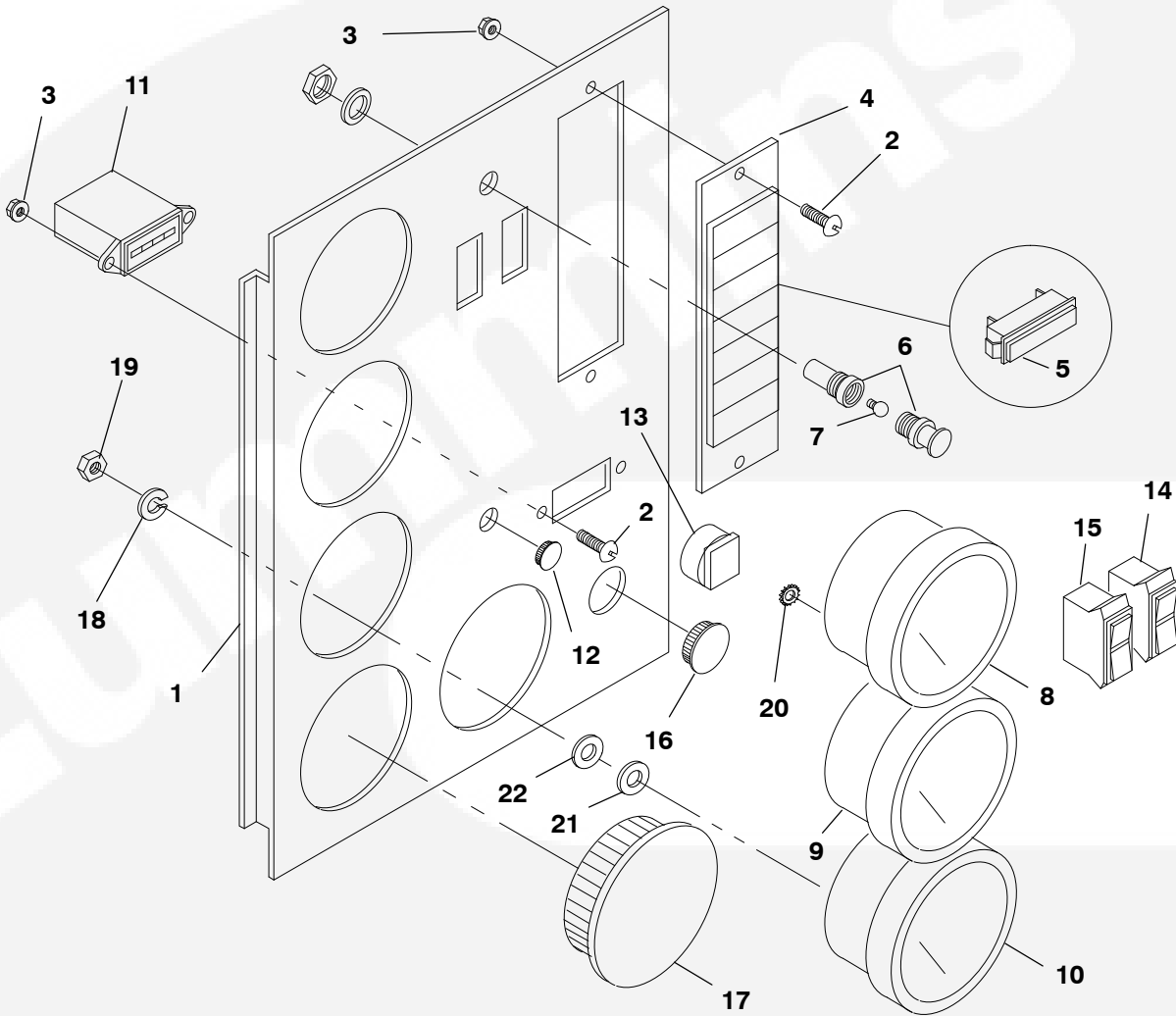


H461,462,529,546,547,
K001,994

Detector Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0388	4	Screw, Pan Head – Cross Recessed (#6-32 x 1/2")	13	402-0527	4	Isolator, Vibration
2	821-0004	5	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")	14	526-0018	1	Washer, Flat (1/4")
3	301-8851	1	Bracket, Mounting	15	821-5000-05	3	Screw, Self-Locking – Hex Washer Head (#10-32 x 1/2")
4	338-3252	1	Harness, Wiring – DC Control Door Assembly to Engine Monitor Board (Includes Connector Housing and Contact Pins)	16	508-0001	1	Grommet (Fits 1-1/16" Hole)
5	323-1308	1	Housing, Connector (12 Place) (J4)	17	508-0051	1	Grommet (Fits 2" Hole)
6	323-1302	11	Pin, Contact	18	406-0332	2	Receptacle, Fastener
7			Board Assembly, Printed Circuit – Engine Monitor (Includes Fuses) (A11)	19	406-0333	2	Stud, Fastener
	300-4295	1	7 Light Control	20	406-0334	2	Washer, Stud Retainer
	300-4297	1	12 Light Control	21	332-0052	2	Clip, Wire
8			Fuse	22	870-0131	5	Nut, Hex – W/ET (#10-32)
			Cylinder Shaped	23	-	1	Door, Assembly – Control – DC (See Separate Page For Components)
	321-0270	2	20 Amp (F1,F2)	24	821-0004	8	Screw, Self-Locking – Hex Washer Head (#10-32 x 5/16")
	321-0231	1	15 Amp (F3)	25			Strap, Ground
	321-0094	2	5 Amp (F4,F5)		337-0049	1	Sets Without AC Meters
			U Shaped		337-0049	3	Sets With AC Meters
	321-0307-03	2	5 Amp (Tan) (F4, F5)	26	800-0024	3	Screw, Cap – Hex Head (5/16-18 x 1/2")
	321-0307-06	1	15 Amp (Light Blue) (F3)	27	856-0008	4	Washer, Lock – EIT (5/16")
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	28	338-2278	1	Harness, Wiring – AC Control Door Assembly to TB21 Terminal Block (Includes TB21 Terminal Block)
9	-	1	Door Assembly – Control – AC (See Separate Page For Components)	29	332-0607	1	Block, Terminal – 12 Place (TB21)
10	871-0015	1	Nut, Hex (1/4-20)	30	332-2723	1	Strip, Marker
11	853-0008	1	Washer, Lock – ET (#10)	31	815-0901-06	2	Screw, Machine – Hex Head (#6-32 x 5/8")
12	301-8065	1	Box, Control	32	821-0014	8	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")

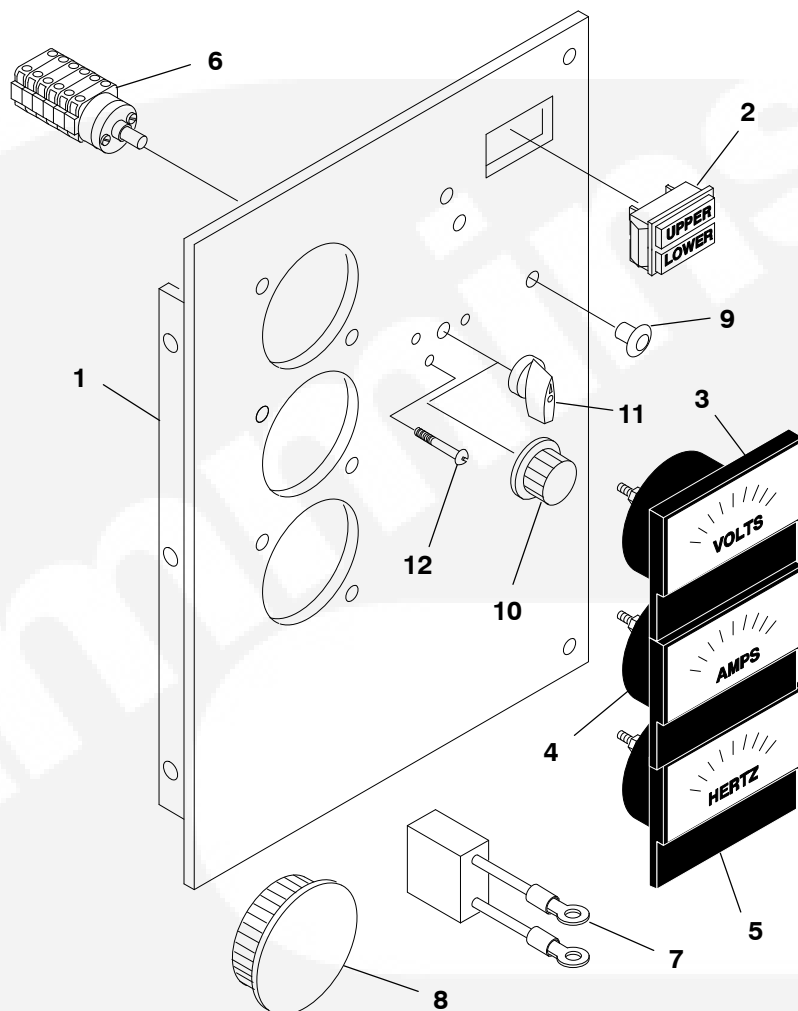
DC Control Door Assembly



DC Control Door Assembly

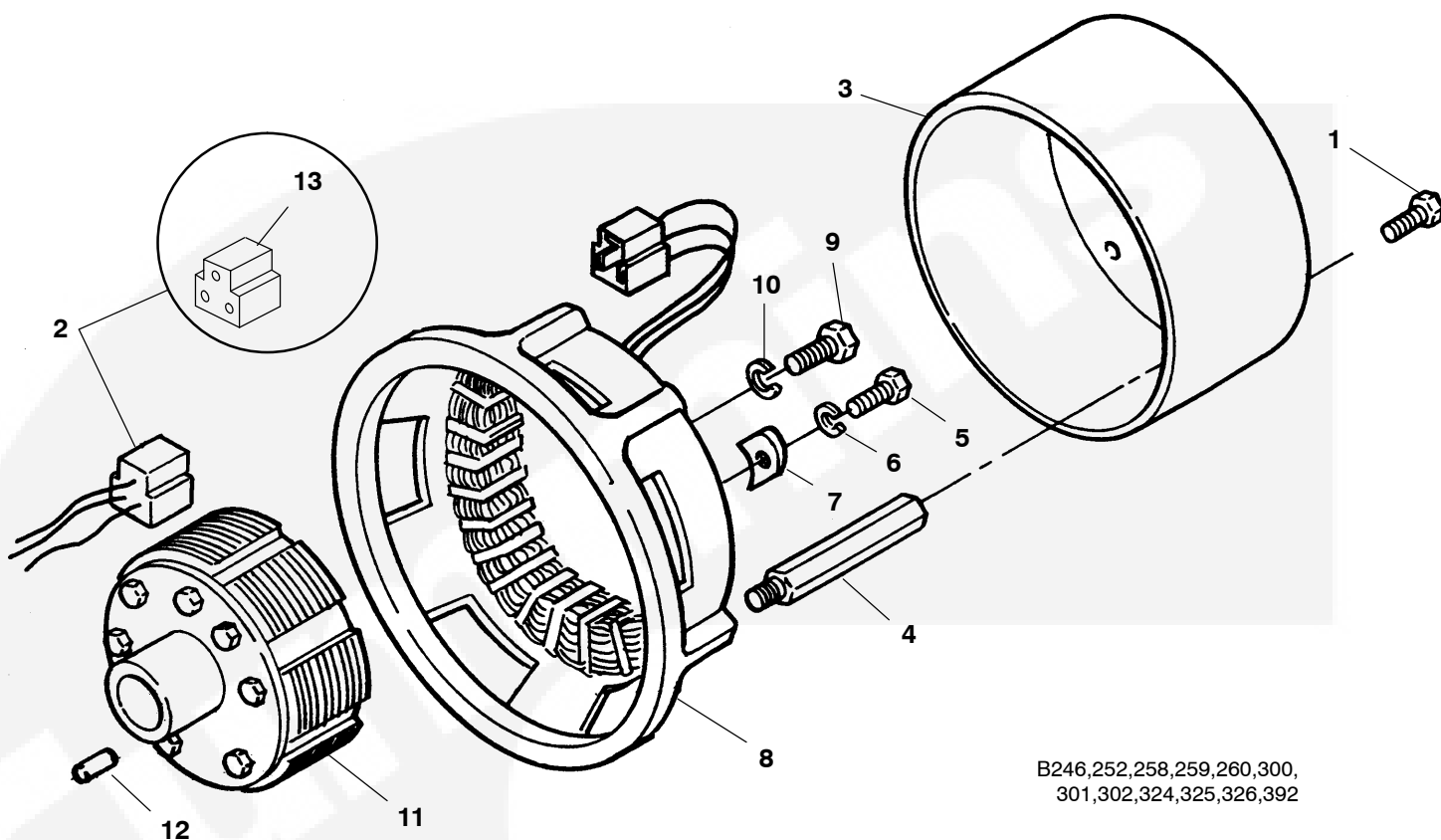
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door, Control – DC	12	517-0131	1	Plug, Hole (Fits 3/8" Hole)
	301-9055-02	1	Doors With Three Round Gauge Holes	13	193-0250	2	Resistor (Mounted on Oil Pressure and Water Temperature Gauges) (R12, R13)
	301-9055-01	1	Doors With Five Round Gauge Holes				
2	815-0385	2	Screw, Machine – Round Head (#6-32 x 1/2")	14	308-1010	1	Switch, Rocker – Lamp Test/Reset Panel Lamp – Preheat (S11)
3	870-0183	2	Nut, Hex – W/ET (#6-32)				
4	322-0360-02		Light Assembly, Indicator (Includes Wiring Harness and Connector Housing) (A12)	15	308-1011	1	Switch, Rocker – Run/Stop/Remote (S12)
5	322-0369-02	1	Light, Indicator – Replacement	16	517-0137	1	Plug, Hole (Fits 7/8" Hole)
6	322-0361	1	Light, Panel (DS11)	17	517-0301	1	Plug, Hole (Fits 2" Hole) Quantity Used As Required
7	322-0017	1	Bulb, Panel Light – Replacement	18	850-0030	8	Washer, Lock – Spring (#10)
8	193-0466	1	Gauge, Oil Pressure (M11)	19	871-0010	16	Nut, Hex – Brass (#10-32)
9	193-0351	1	Gauge, Water Temperature (M12)	20	853-0008	1	Washer, Lock – ET (#10)
10	302-1642	1	Voltmeter (M13)	21	526-0409	8	Washer, Nylon (3/8" OD x .194" ID x 1/8" Thk)
11	302-2002	1	Meter, Time Totalizing (M14)	22	526-0049	16	Washer, Flat (#10)

AC Control Door Assembly



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-9054-01	1	Door, Control – AC	6	308-1052	1	Switch, Rotary – Voltmeter/
	301-9054-04	1	With Four Meter Holes				Ammeter (Includes Knob)
2	322-0363	1	Light, Indicator – Upper/	7	355-0189	1	(S21)
			Lower Scale (DS21, DS22)				Capacitor – Voltmeter
3			Voltmeter (M21)	8	517-0302	1	(.1 Mfd., 500 WVDC) (C21)
	302-1148	1	Scale Reads 0-300/600	9	517-0131	1	Plug, Hole (Fits 3/8" Hole)
	302-1753	1	Scale Reads 0-750	10	303-0032	1	Knob, Rotary Switch (Earlier
4			Ammeter (M22)				Round Style)
	302-1726	1	Scale Reads 0-400/800	11	308-1082	1	Knob, Rotary Switch (Later
	302-1727	1	Scale Reads 0-500/1000				Wedge Style)
	302-1728	1	Scale Reads 0-600/1200	12	815-0875-02	3	Screw, Machine – Round Head
	302-1729	1	Scale Reads 0-750/1500				(M4 x 8mm)
	302-1798	1	Scale Reads 0-1000/2000				
5	302-1968	1	Meter, Frequency (M23)				

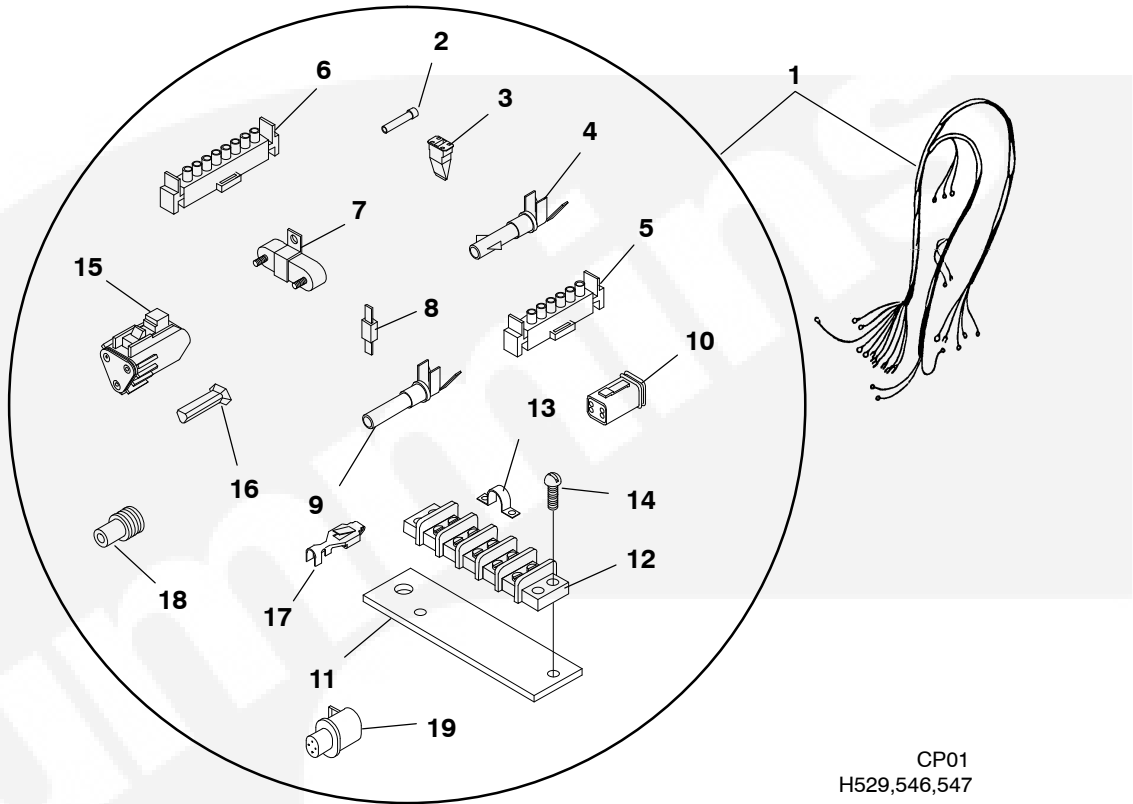
Permanent Magnet Generator



B246,252,258,259,260,300,
301,302,324,325,326,392

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6001-02	3	Screw, Self-Locking – Hex Washer Head (M5 x 12mm)	9			Bolt, Hex Head
2	338-2508	1	Harness, Wiring – PMG (3 Wire, 30") (Includes Housing Connector) (P2, P3, P4 to P2, P3, P4)	815-0761	1		Model HC4 Generators (M10 x 110mm)
3	234-0890	1	Cover	815-0825	1		Model HC5 Generators (M10 x 120mm)
4	232-3527	3	Spacer, Mounting	10	850-2010	1	Washer, Lock – Spring (M10)
5	800-3017-18	4	Screw, Cap – Hex Head (M8 x 16mm)	11			Rotor, Exciter – PMG
6	850-0114-54	4	Washer, Lock – Spring (M8)	201-3455	1		Model HC4 Generators
7	232-3526	4	Clamp, Stator	201-3510	1		Model HC5 Generators
8			Stator, Exciter – PMG (Includes 4 Each Of 232-3527 Mounting Spacers)	12	775-0049	1	Pin
	220-4249	1	Model HC4 Generators	13	332-3021	1	Connector, Housing (3 Place)
	220-4396	1	Model HC5 Generators				

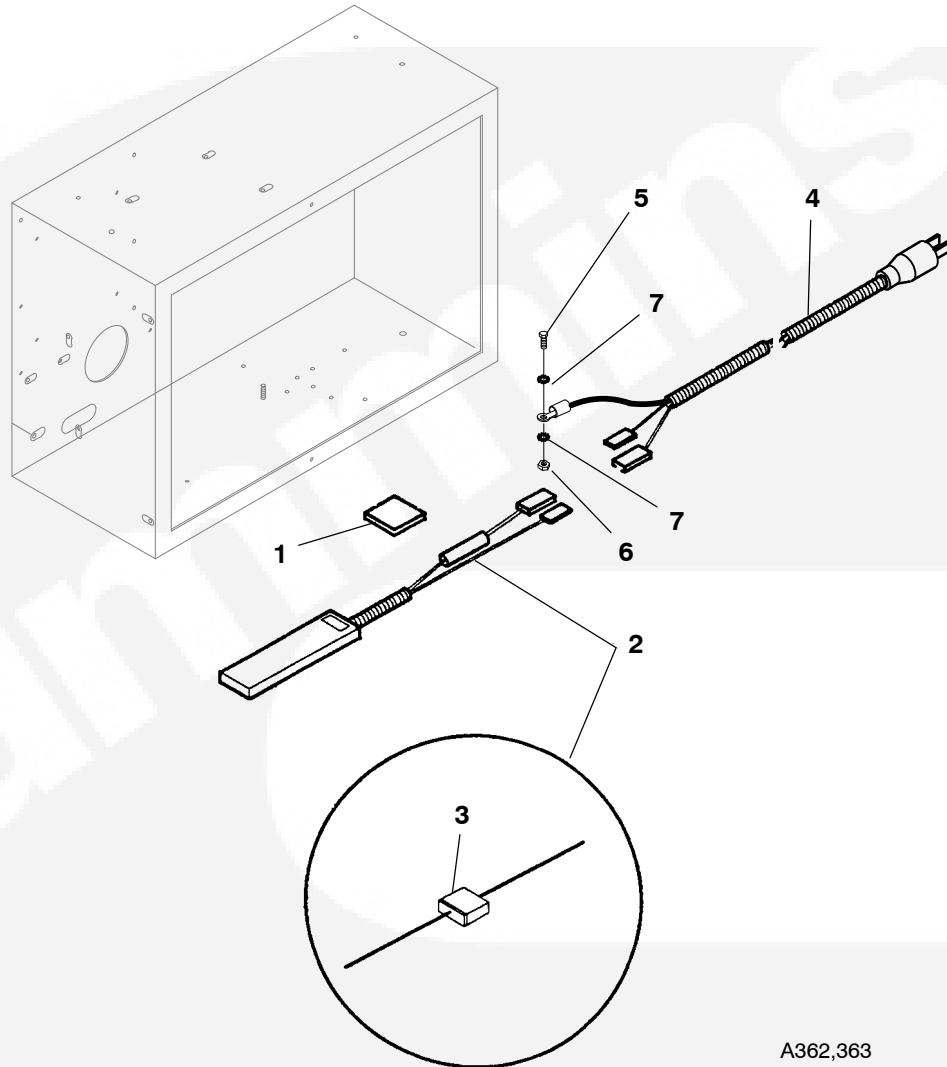
Wiring Harness Engine to Control



CP01
H529,546,547

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-3759	1	Harness, Wiring – Engine To Control – (Includes Parts Listed Below)	10	323-1546	1	Plug, Connector (4 Place) (E1)
2	323-1591	1	Plug, Seal (Used In E1)	11	319-2006-01	1	Bracket, Mounting – Terminal Marked "26" (T26)
3	323-1548	1	Wedge (Used in E1)		319-2006-02	1	Marked "GND" (GND-ENG)
4	323-1200	11	Socket, Contact (Used In J1, J2)	12	332-0604	2	Block, Terminal (5 Place)
5	323-1304	1	Housing, Connector (6 Place) (J2)	13	332-1043	8	Jumper
6	323-1306	1	Housing, Connector (8 Place) (J1)	14	815-0538	4	Screw, Machine – Round Head – W/IT (8-32 x 1/2")
7	353-0094-01	1	Resistor (R1)	15	323-1493	1	Plug, Connector (3 Place) (P3)
8	357-0030	1	Rectifier (CR1)	16	323-1503	1	Wedge (Used In P3)
9	323-1492	6	Socket, Contact (Used In E1, P3)	17	323-1709	4	Socket, Contact (Used In S7)
				18	323-1708	4	Seal, Cable (Used In S7)
				19	323-1765	1	Housing, Connector (S7)

Control Heater

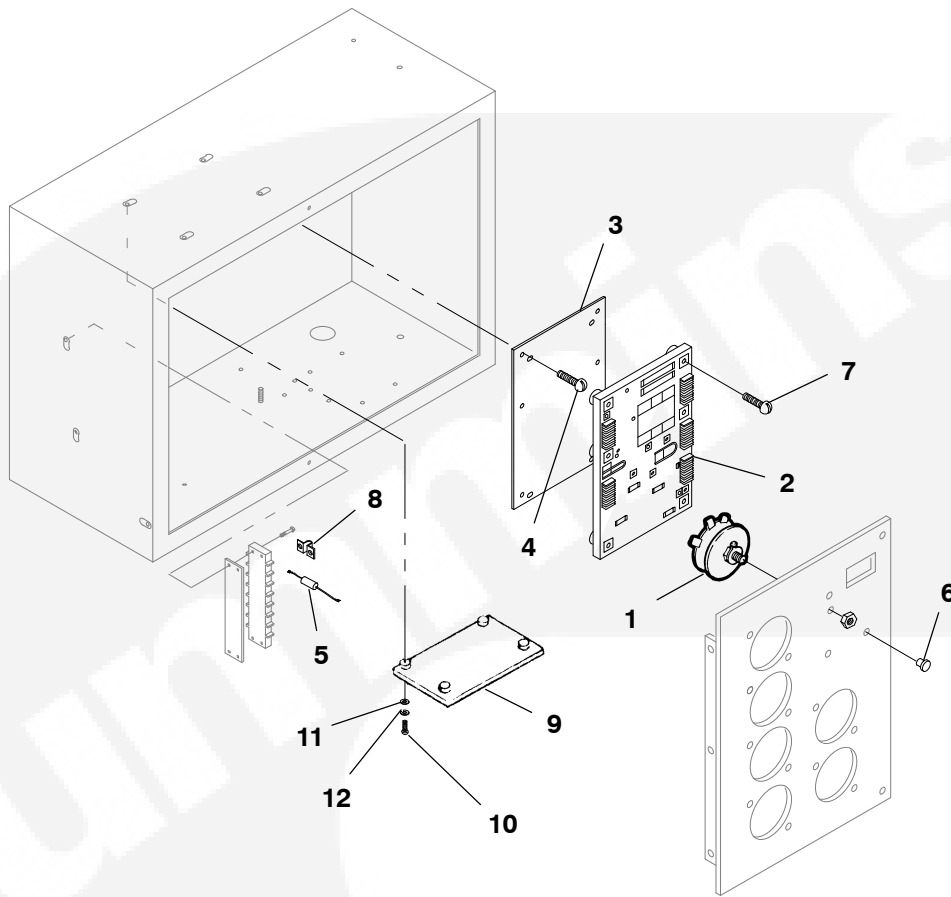


A362,363

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-3338	2	*#Mount, Cable	6	870-0257	1	*Nut, Locking - Hex (5/16-18)
2			Heater Assembly, Control - 100 Watt (Includes Rectifier)	7	856-0008	2	*Washer, Lock - EIT (5/16")
	300-4515-01	1	* 120 Volt				
	300-4515-02	1	# 240 Volt				
3	357-0114	1	*#Rectifier (3 Amp)				
4	335-0173	1	*Cable, Heater (7')				
5	800-0024	1	*Screw, Cap - Hex Head (5/16-18 x 3/4")				

* - Parts Used in 120 Volt Control Heater Application
- Parts Used in 240 Volt Control Heater Application

Voltage Regulator

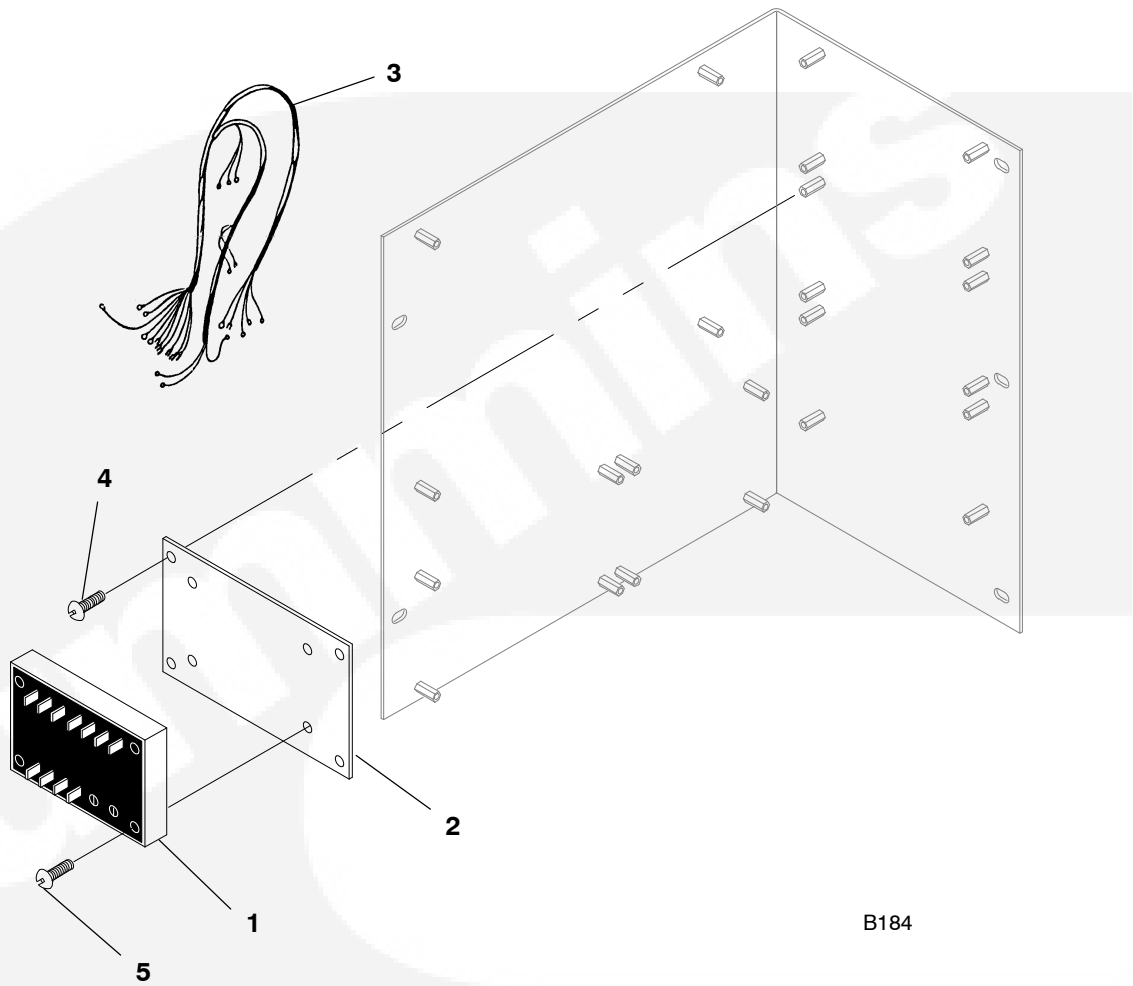


H529,546,547,K001,994

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	303-0285-01	1	*Potentiometer – Voltage Adjust – 5K Ohms (Used With Model MX321 Voltage Regulator) (R21)	7	812-0084	4	Screw, Machine – Round Head (#8-32 x 1")
2	305-0823	1	Board, Printed Circuit – Voltage Regulator (MX321) (VR21)	8	332-2605	1	Jumper (Used On TB21)
3	319-0652	1	Plate, Mounting	9	305-0868	1	*Board, Printed Circuit – Isolation Transformer (T30)
4	815-0937	6	Screw, Machine – Pan Head – Cross Recessed (#6-32 x 1/2")	10	813-0108	4	*Screw, Machine – Round Head (#10-32 x 1-1/2")
5	350-1222	1	Resistor (1.5K Ohms) (Used On TB21)	11	526-0008	4	*Washer, Flat (#10)
6	517-0131	1	Plug, Hole (Fits 3/8" Hole)	12	850-0030	4	*Washer, Lock – Spring (#10)

* – Not Used On All Models

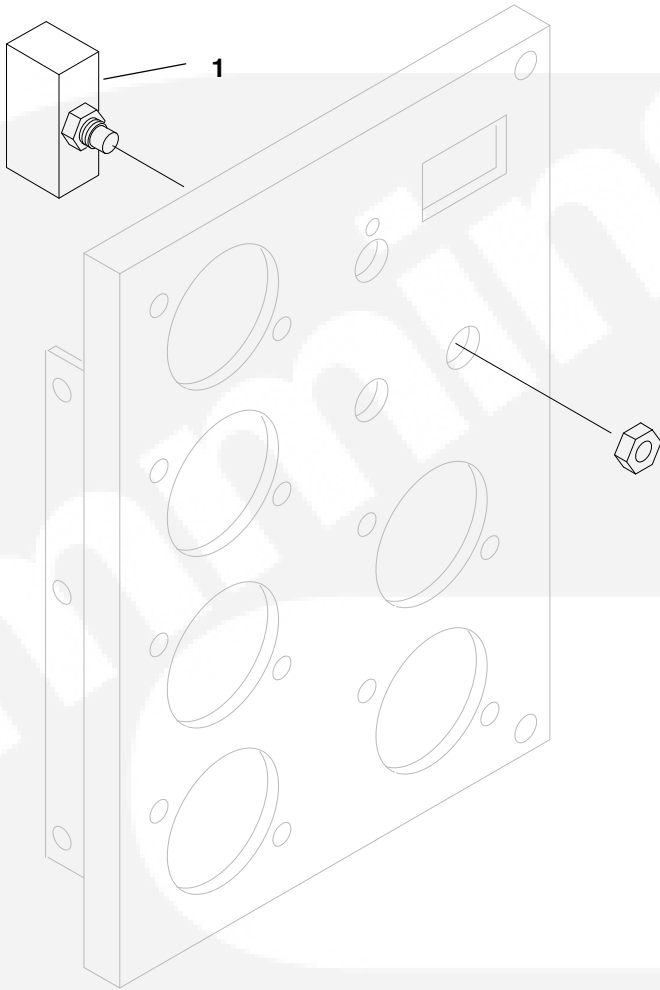
Electronic Overspeed



B184

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	305-0902-02	1	Board, Printed Circuit – Electronic Overspeed (A16)	4	815-0388	4	Screw, Pan Head – Cross Recessed – Thread Forming (#6-32 x 1/2")
2	319-0754	1	Plate, Mounting	5	812-0082	4	Screw, Machine – Round Head (#8-32 x 3/4")
3	338-2447	1	Harness, Wiring (A16 to A11, AUX.) (5 Wire) (66-1/2")				

Circuit Breaker AC Control Door

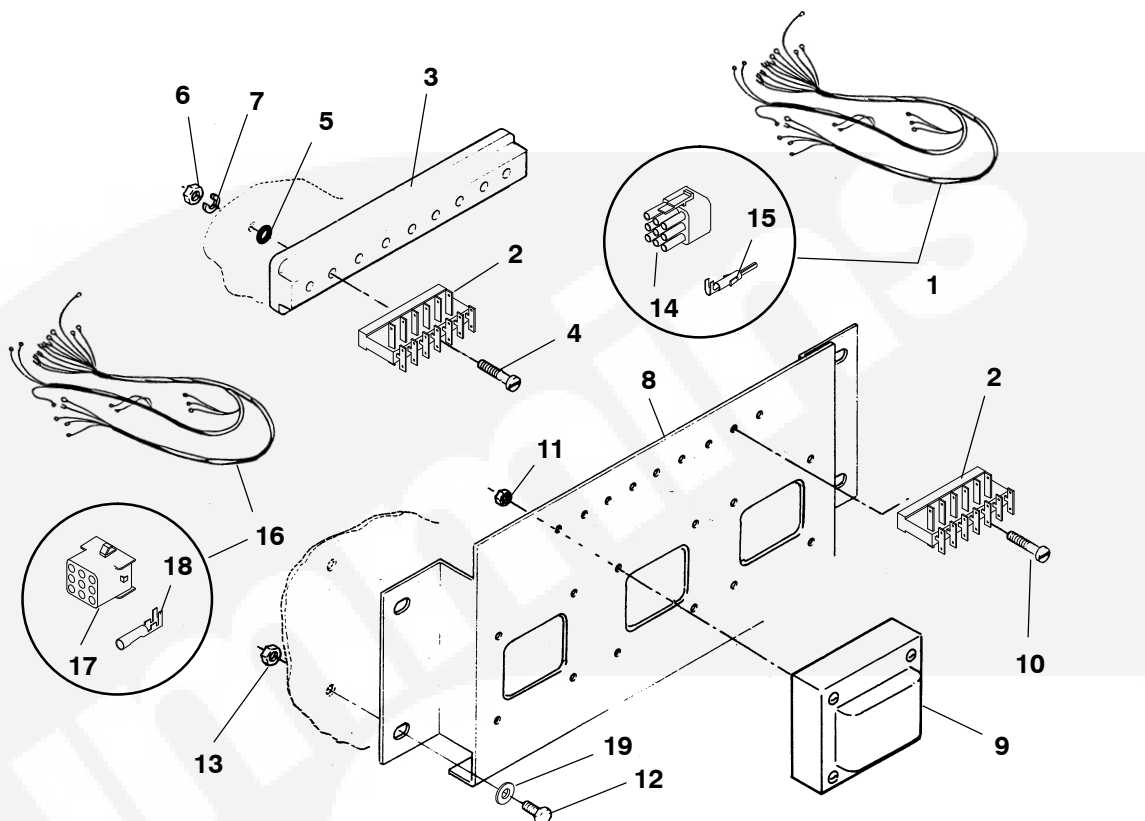


H529,546,547,K600

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit (CB21)				
	320-1688-01	1	Without Auxiliary Contacts				
	320-1688-02	1	With Auxiliary Contacts				



Auxiliary Terminal Block



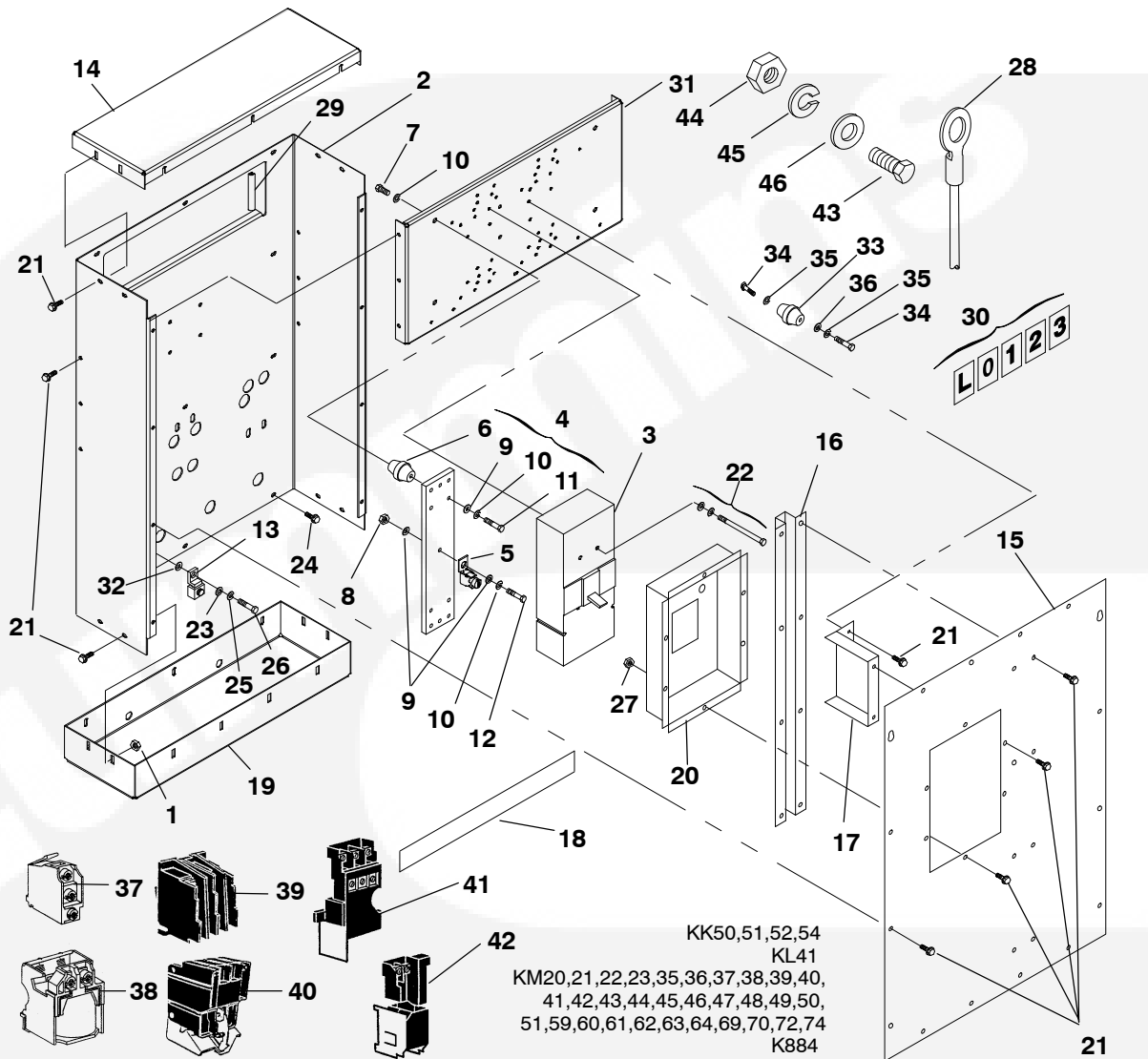
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Auxiliary Terminal Block	10	812-0082	3	Screw, Machine – Round Head (#8-32 x 3/4")
	338-2491	1	190-240, 380-480 Volt, 12 Lead Reconnectable Generators (Includes Parts Marked *) (AUX. to TB21, VR21, A16, 8, 7, 6, 5, 4, X, XX, P2, P3, P4)	11	870-0221	12	Nut, Hex – W/ET (#8-32)
	338-3359	1	600 Volt Generators (Includes Parts Marked #) (AUX. to TB21, A16, VR21, 8, 7, 6, 5, X, XX, P1, P2, P3, P4)	12	800-2088	4	Screw, Cap – Hex Head (M10 x 35mm)
2	332-3007	3	*# Block, Terminal (AUX.)	13	870-0257	4	Nut, Locking – Hex Flange Head (5/16-18)
3	232-3536	1	*# Base, Terminal Block	14	323-1644-01	1	# Plug, Connector (9 Place) (P1)
4	812-0085	3	+ Screw, Machine – Round Head (#8-32 x 1-1/8")	15	323-1647	8	# Pin, Contact
5	509-0065	1	*# Seal, O-Ring	16	338-3337	1	Harness, Wiring – Transformer (Includes Housing and Sockets) (J1 to PTW, PTV, PTU)
6	870-0221	3	Nut, Hex – W/ET (#8-32)	17	323-1644-02	1	Housing, Connector (9 Place) (J1)
7	850-0025	3	Washer, Lock – Spring (#10)	18	323-1648	9	Socket, Contact
8	319-1245	1	+ Bracket, Mounting	19	526-2120	4	Washer, Flat (M10)
9	315-0717	3	+ Transformer (PTW,PTV,PTU)				

* – Parts Included In 338-2491 Wiring Harness

– Parts Included In 338-3359 Wiring Harness

+ – Not Used On All Models

Circuit Breaker and Disconnect Switch **UL Listed, IEC Conformity**



Circuit Breaker and Disconnect Switch UL Listed, IEC Conformity

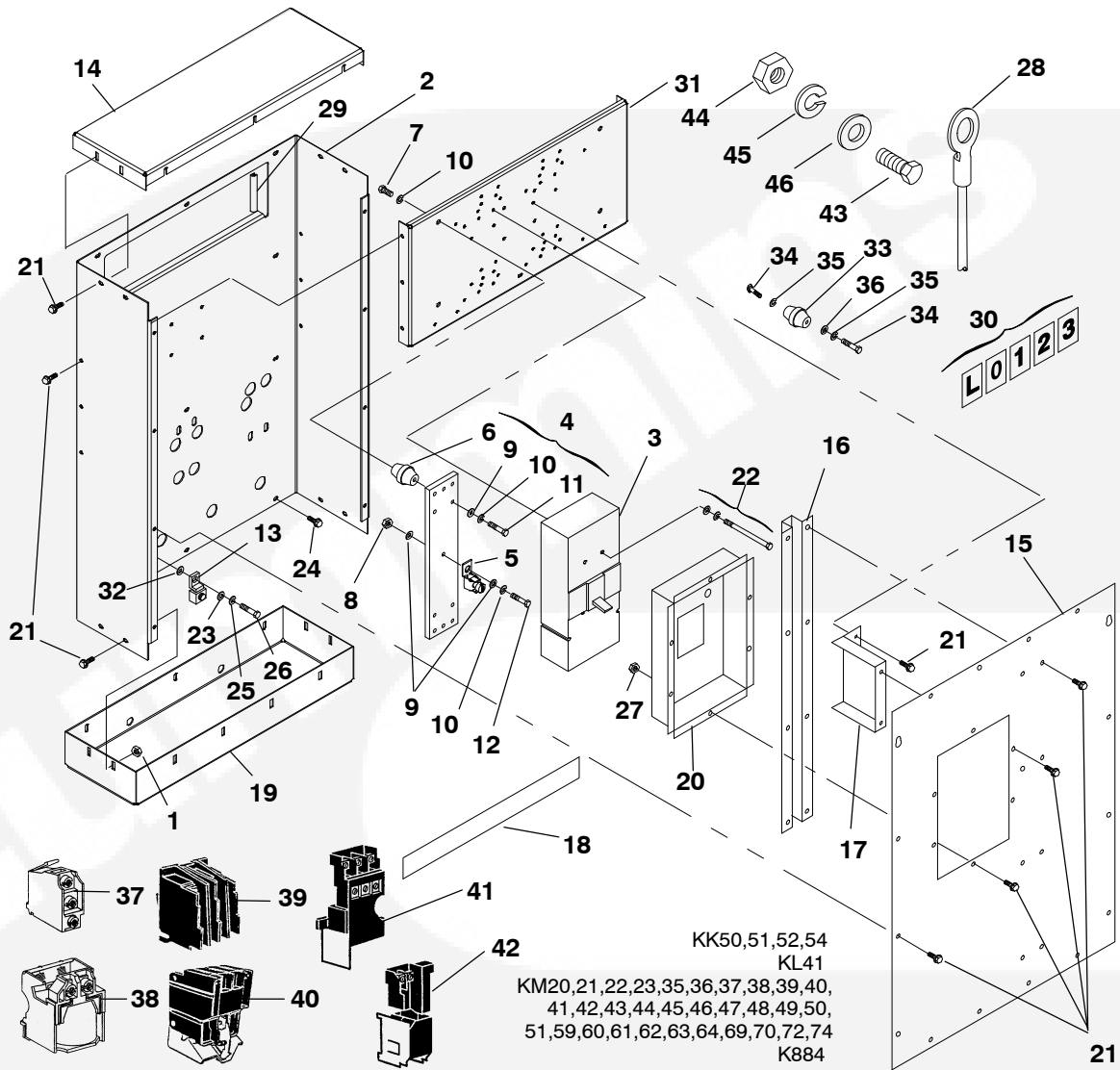
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0504	16	Nut, Self-Retaining (M6)	Disconnect Switches			
2	319-3169	1	Box, Circuit Breaker	3 Pole (UL, IEC)			
3			The following listed Circuit Breakers and Disconnect Switches include lugs and mounting hardware.	320-1990-02	1	400 Amp	
			Circuit Breakers	320-1990-01	1	600 Amp	
			3 Pole (UL, IEC)	320-1992-02	1	800 Amp	
				320-1992-01	1	1200 Amp	
				4	300-4318-01	1	#Bar Assembly, Neutral (Includes Neutral Bars, Labels and Parts Marked *)
320-1970-06	1	125 Amp		5	332-2001	3	*#Lug, Solderless
320-1970-05	1	150 Amp		6	332-2744-07	2	*#Standoff, Insulator
320-1970-04	1	175 Amp		7	800-0048	2	*#Screw, Cap – Hex Head (3/8-16 x 3/4")
320-1970-03	1	200 Amp		8	862-0003	3	*#Nut, Hex (3/8")
320-1970-02	1	225 Amp		9	526-0029	8	*#Washer, Flat (3/8")
320-1970-01	1	250 Amp		10	850-0050	7	*#Washer, Lock – Spring (3/8")
320-1963-06	1	300 Amp		11	800-0051	2	*#Screw, Cap – Hex Head (3/8-16 x 1-1/4")
320-1963-05	1	350 Amp		12	800-0052	3	*#Screw, Cap – Hex Head (3/8-16 x 1-1/2")
320-1963-04	1	400 Amp		13	332-2001	1	Lug, Solderless
320-1963-03	1	450 Amp		14	319-1915	1	Panel – Top
320-1963-02	1	500 Amp		15			Cover
320-1963-01	1	600 Amp			319-1917	1	All Except 4 Pole Switches Mounted on the Right Side When Facing Control
320-1964-05	1	700 Amp			319-2463	1	4 Pole Switches Mounted on the Right Side When Facing Control
320-1964-04	1	800 Amp		16	319-3284	1	Brace, Cover
320-1964-03	1	900 Amp		17	319-3333	1	Brace, Cover
320-1964-02	1	1000 Amp		18	091-0002	1	Strip, Copper (Used for wrapping end of leads before securing to circuit breakers and disconnect switches) (Quantity Used As Required)
320-1964-01	1	1200 Amp		19	319-3183	1	Panel – Bottom
			4 Pole (IEC)				
320-1960-09	1	400 Amp					
320-1960-08	1	500 Amp					
320-1960-07	1	630 Amp					
320-1964-08	1	800 Amp					
320-1964-07	1	1000 Amp					
320-1964-06	1	1250 Amp					

* – Parts Included In 300-4318-01 Neutral Bar Assembly

– Parts Used With Three Pole Circuit Breakers and Disconnect Switches

Continued...

Circuit Breaker and Disconnect Switch **UL Listed, IEC Conformity**



Circuit Breaker and Disconnect Switch UL Listed, IEC Conformity

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
Continued...							
20			Cup	31	319-3329	1	Bracket, Mounting
	319-2431-27	1	1-7/8" x 3-1/32" Opening	32	856-0010	1	Washer, Lock – EIT (3/8")
	319-2431-29	1	2" x 3-11/32" Opening	33	332-2744-07	1	Standoff, Insulator
	319-2431-31	1	2-1/2" x 4-9/16" Opening	34	800-0048	2	Screw, Cap – Hex Head (3/8-16 x 3/4")
	319-2431-26	1	2-7/8" x 4" Opening	35	850-0050	2	Washer, Lock – Spring (3/8")
	319-2431-30	1	3-5/16" x 4-3/8" Opening	36	526-0029	1	Washer, Flat (3/8")
21	821-6002-03	53	Screw, Self-Locking – Hex Washer Head (M6 x 16mm)	Accessories, Circuit Breaker:			
22			Package, Hardware – Mounting (Includes Screws, Nuts and Lock Washers – 1 Package Required Per Switch)	37	320-1981-01	1	Switch – Used as a Trip Alarm or Auxiliary Contact
	320-1986-07	1	Used With 320-1960-XX Circuit Breakers and 320-1990-XX Disconnect Switches	38	320-1981-03	1	24 Volt Shunt Trip
	320-1986-02	1	Used With 320-1963-XX Circuit Breakers and 320-1991-XX Disconnect Switches	Accessories, Circuit Breaker:			
	320-1986-01	1	Used With 320-1964-XX Circuit Breakers and 320-1992-02 Disconnect Switches	39	320-1977-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
	320-1986-03	1	Used With 320-1970-XX Circuit Breaker Switches	40	320-1977-03	1	24 Volt Shunt Trip
23	526-2120	1	Washer, Flat (M10)	41	320-1978-01	1	Switches – Includes 1 Trip Alarm and 1 Auxiliary Contact
24	821-2034	2	Screw, Self-Locking – Hex Washer Head (M6 x 20mm)	42	320-1978-03	1	24 Volt Shunt Trip
25	850-2010	1	Washer, Lock – Spring (M10)	The following four hardware items are used to fasten the load leads to the generator and neutral bar on HC5 generators. Quantity used as required.			
26	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)	43	800-2116	1	Screw, Cap – Hex Head (M12 x 50mm)
27	870-2054	4	Nut, Hex – Flange (M6)	44	860-2010	1	Nut, Hex (M12)
28			Lead (Quantity Used As Required) 39" (Without Markings) (#1/0 Wire)	45	850-2012	1	Washer, Lock – Spring (M12)
	226-4406-03	1	1/2" Ring Terminal End to 1" Stripped End	46	526-2140	1	Washer, Flat (M12)
	226-4406-04	1	1/2" Ring Terminal End to 1/2" Ring Terminal End				
29	508-1092	-	Edging – Bulk (Order By The Foot – 3 Feet Required)				
30			Label, Marker (10 Characters Per Card) (Quantity Used As Required)				
	098-5854-06	1	Marked "L"				
	098-5854-07	1	Marked "1"				
	098-5854-08	1	Marked "2"				
	098-5854-09	1	Marked "3"				
	098-5854-10	1	Marked "0"				

* – Parts Included In 300-4318-01 Neutral Bar Assembly

– Parts Used With Three Pole Circuit Breakers and Disconnect Switches

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