



Parts Catalog

PowerCommand Control for Generator Sets



Printed in U.S.A.

960-0205B 1-99
Replaces 1-97

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO. and SERIAL NO. from the Onan 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 Onan 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 Onan 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 parts supplement applies to the Onan PowerCommand Control. 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 part 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.

Models affected by this catalog

The following generator set models may be equipped with the PowerCommand Control. Some of these models may have been retrofitted in the field.

Model	Parts Catalog Number
DFAA/B/C	960-0260
DFBC/D/E/F, DFCB/C	960-0204
DFEB/C/D, DFFA/B	960-0240
DFGA/B/C	960-0259
DFHA/B/C	960-0241
DFJA/B/C/D	960-0263
DFLA/B/C/D, DFMB	960-0264
DGBB/C, DGCA/B/C	960-0210
DGDA/B, DGEA, DGFA/B/C	960-0211

Abbreviations

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

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

Engine Matrix

MODEL	ENGINE
175 DFAA	LTA10-G3
175 DFBC	NT855-G4
175 DFBD	NT855-G4
200 DFAA	LTA10-G1
200 DFAB	LTA10-G3
200 DFBC	NT855-G4
200 DFBD	NT855-G4
220 DFAC	LTA10-G3
220 DFBE	NT855-G5
230 DFAB	LTA10-G1
230 DFBD	NT855-G4
250 DFAC	LTA10-G1
250 DFBE	NT855-G5
250 DFBF	NT855-G6
275 DFBF	NT855-G6
275 DFCE	NTA855-G2
300 DFCE	NTA855-G2
310 DFCC	NTA855-G3
330 DFEB	KTA19-G2
350 DFCC	NTA855-G3
400 DFEB	KTA19-G2
400 DFEC	KTA19-G3
400 DFFA	KTTA19-G1
450 DFEC	KTA19-G3
450 DFED	KTA19-G4
450 DFFA	KTTA19-G1
450 DFFB	KTTA19-G2
450 DFGA	VTA28-G2
500 DFED	KTA19-G4
500 DFFB	KTTA19-G2
500 DFGA	VTA28-G2
550 DFGB	VTA28-G5
550 DFGC	VTA28-G3
600 DFGB	VTA28-G2
620 DFHA	QST30-G2
620 DFJA	KTA38-G1
660 DFJB	KTA38-G2

MODEL	ENGINE
700 DFHB	QST30-G2
750 DFHA	QST30-G2
750 DFJA	KTA38-G1
800 DFHB	QST30-G2
800 DFJB	KTA38-G2
800 DFJC	KTA38-G3
880 DFJD	KTA38-G5
880 DFLA	KTA50-G1
900 DFHC	QST30-G3
900 DFJC	KTA38-G3
1000 DFJD	KTA38-G4
1000 DFLA	KTA50-G1
1100 DFLB	KTA50-G2
1120 DFLC	KTA50-G3
1200 DFLD	KTA50-G4
1250 DFLC	KTA50-G3
1280 DFMB	KTTA50-G2
1500 DFMB	KTTA50-G2
35DGBB	4B3.9-G
28DGBB	4B3.9-G
40DGBC	4B3.9-G
32DGBC	4B3.9-G
50DGCA	4BT3.9-G2
40DGCA	4BT3.9-G2
60DGCB	4BT3.9-G2
50DGCB	4BT3.9-G2
65DGDA	6BT5.9-G2
80DGDA	6BT5.9-G2
85DGDB	6BT5.9-G2
100DGDB	6BT5.9-G2
110DGEA	6CT8.3-G
125DGEA	6CT8.3-G
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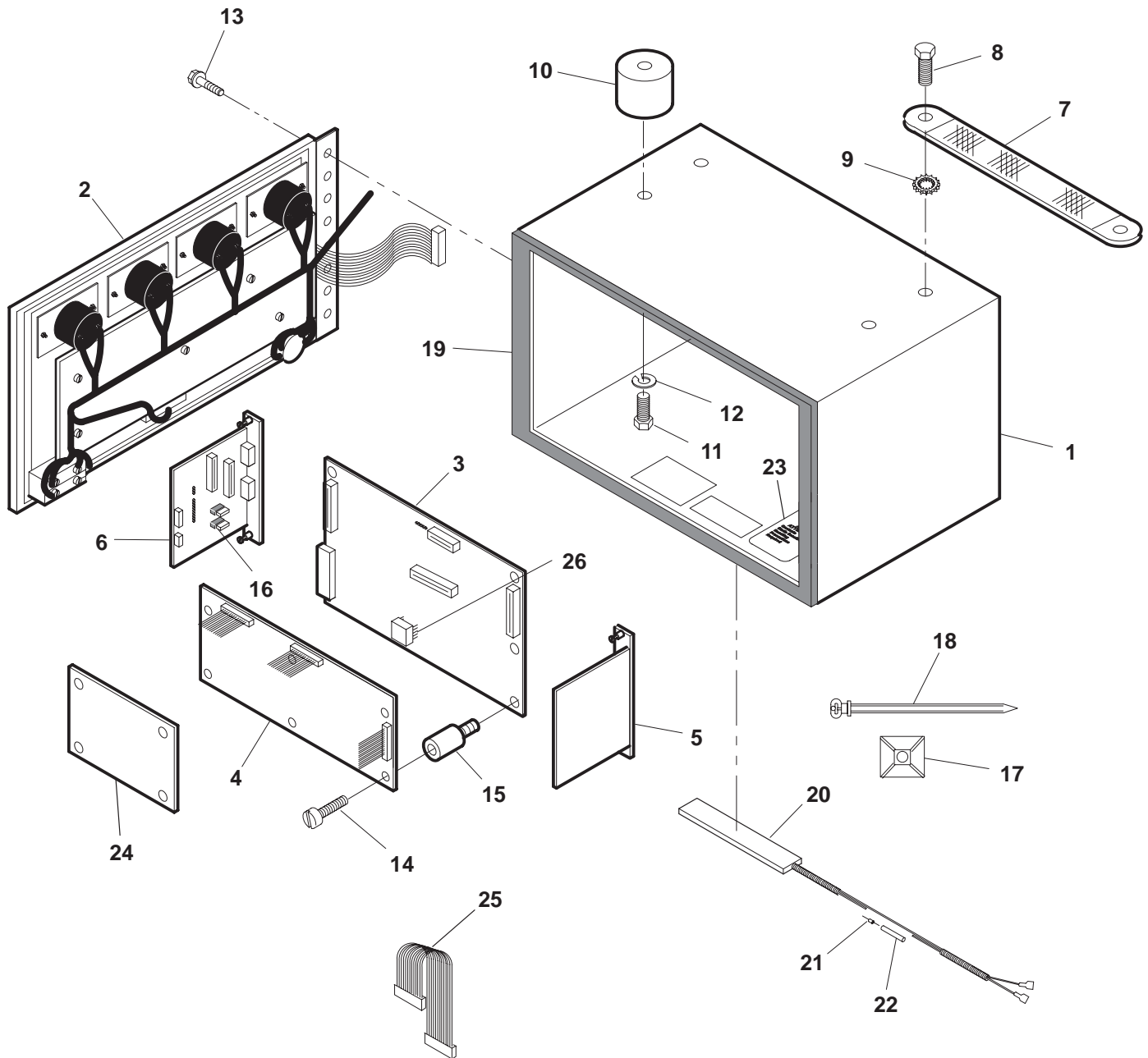
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Control Box

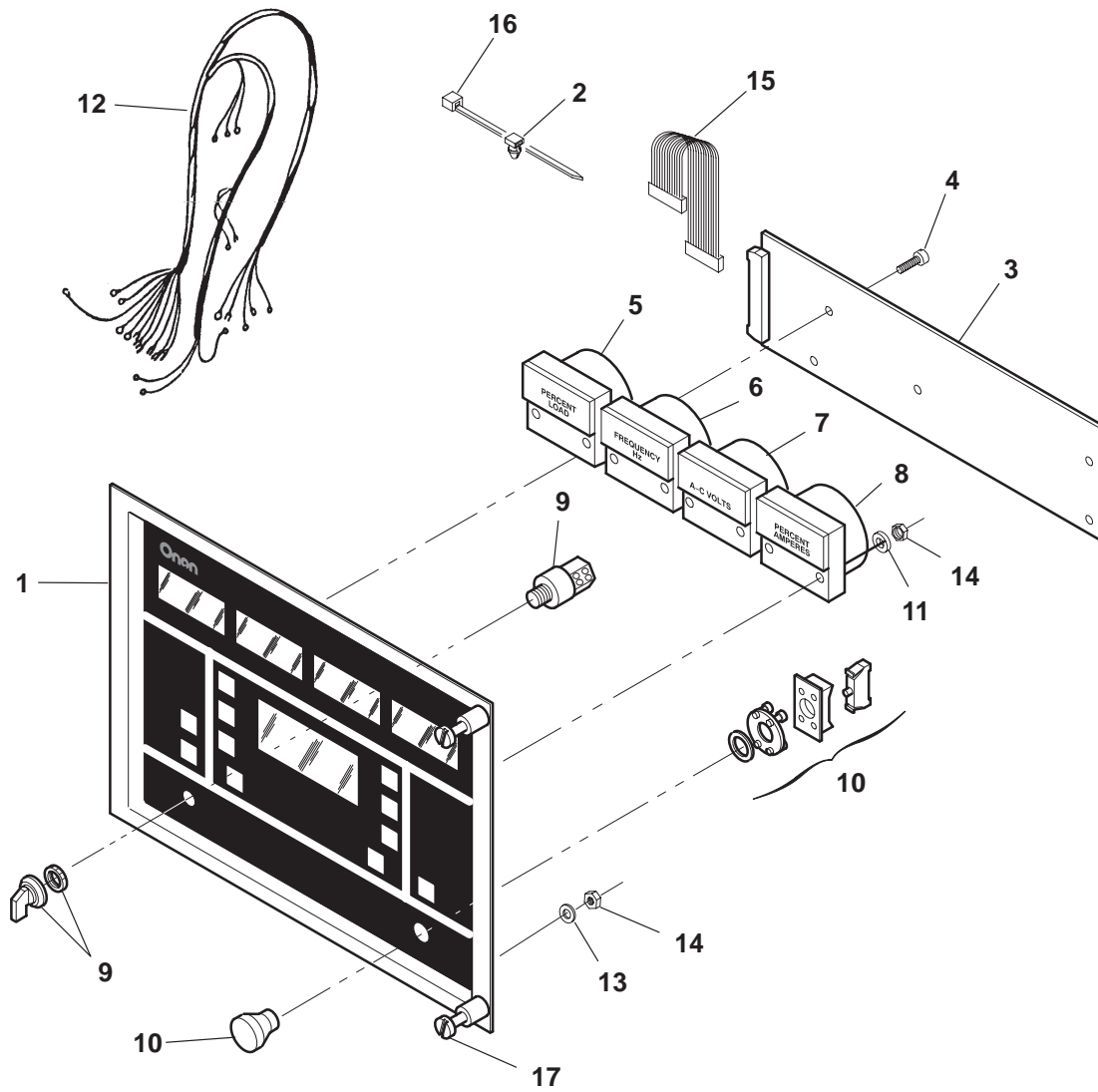


300-4305
 300-4430
 300-4515
 300-4603
 300-4820
 300-4821
 539-1574

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 (Includes Gasket)	18	332-1445	1	Tie, Cable (Quantity Used As Required) (Door Harness)
2			Door Assembly – Control (See Separate Page For Components)	19	895-0359	1	Gasket, Door
3			Board, Printed Circuit – Digital (A32)	20			Heater, Control (Includes Rectifier and Splices)
	300-4079-01	1	12 Volt DC Models		300-4515-01	1	120 Volt
	300-4079	1	24 Volt DC Models		300-4515-02	1	240 Volt
4			Board, Printed Circuit – Analog (A33)	21	357-0114	1	Rectifier, Power (3 Amp)
	300-4080-01	1	Single Set	22	332-1789	2	Splice, Window (18 GA)
	300-4080-02	1	Paralleling Sets	23	098-6940	1	Label, Static Sensitive
5			Board, Printed Circuit – Customer Interface (A34)	24	300-4458	1	Board, Printed Circuit – Network Interface Module (Not Used On DFHA, DFHB, DFHC) (A41)
			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
			Paralleling Sets		338-2932-01	1	Analog to Digital
	300-4462-03	1	12 Volt DC Models		338-2933	1	Analog to Engine Interface
	300-4462-01	1	24 Volt DC Models		338-2931-01	1	Engine Interface to Digital
6			Board, Printed Circuit – Engine Interface (A31)	26			Kit, Language Chip – EPROM (Includes Chip, Instruction Sheets and Warranty)
	300-4083-01	1	12 Volt DC Models				English/Spanish Versions
			24 Volt DC Models				All Models Except DFHA, DFHB, DFHC
	300-4083	1	All Except DFHA, DFHB, DFHC				Single Set
	300-4819	1	DFHA, DFHB, DFHC				12 Volt DC Models
7	337-0049	2	Strap, Bond		300-4721-08	1	24 Volt DC Models
8	800-0003	2	Screw, Cap – Hex Head (1/4–20 x 1/2")		300-4721	1	Paralleling Sets
9	856-0006	2	Washer, Lock – EIT (1/4")				12 Volt DC Models
10	402-0527	4	Isolator, Vibration		300-4721-20	1	24 Volt DC Models
11	800-0024	4	Screw, Cap – Hex Head (5/16–18 x 1/2")		300-4721-12	1	DFHA, DFHB, DFHC (24 Volt DC Models)
12	850-0045	4	Washer, Lock (5/16")				Single Set
13	821-0004	4	Screw, Self-Locking – Hex Washer Head (#10–32 x 5/16")		300-4721-04	1	DFHA, DFHB
14	815-0549	6	Screw, Machine – Pan Head – Cross Recessed W/ET (#6–32 x 1/4")		300-4721-04	1	DFHC
15	332-3235	6	Standoff, Board – PC (#6–32 IT x #6–32 ET x 3/4")		300-4721-35	1	QST30–G3 Engine
16	321-0307-03	2	Fuse, 5 Amp, 32V (F1, F3)				QST30–G5 Engine
17	332-3338	1	Mount, Tie – Cable (Quantity Used As Required) (Door Harness)		300-4721-16	1	Paralleling Sets
							DFHA, DFHB
							DFHC
					300-4721-16	1	QST30–G3 Engine
					300-4721-40	1	QST30–G5 Engine

Control Door



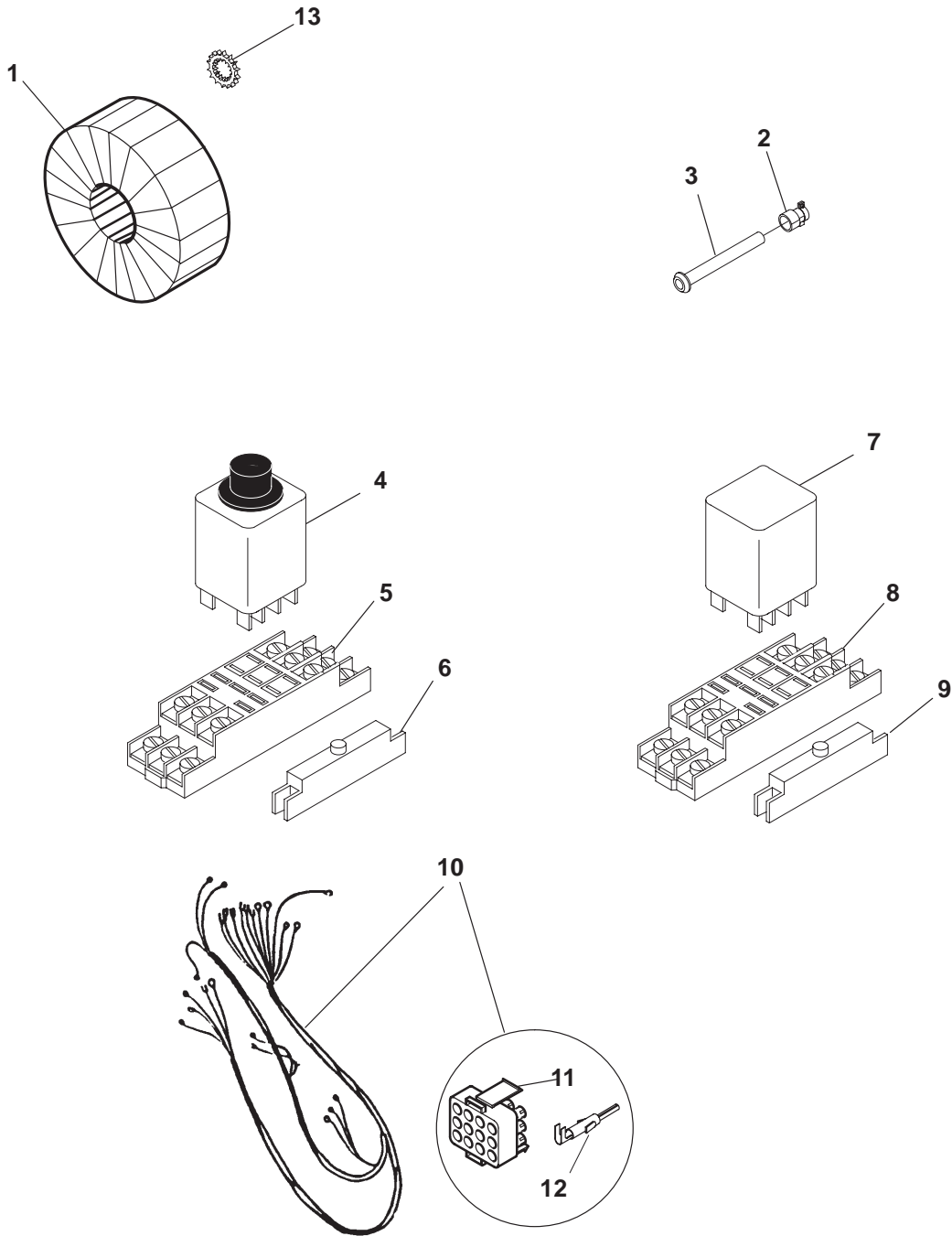
300-4311
300-4431

Control Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Door Assembly (Includes Membrane, Display Window and Parts Marked *)	9	308-0998	1	Switch, Selector – Run/Off/Auto (Knob Operated Switch) (S12)
	300-4608-01	1	English Single Set		308-1045	1	Switch, Selector (Key Operated) (Includes 2 Keys) (Converts 308-0998 Knob Operated Selector Switch To A Key Operated Selector Switch) (Not Illustrated)
	300-4608-02	1	Paralleling Sets				
	300-4610-01	1	Spanish Single Set				
	300-4610-02	1	Paralleling Sets				
2	332-3262	4	Mount, Tie – Cable				
3			Board, Printed Circuit – Display (A35)		308-1046	2	Key, Replacement (Not Illustrated)
	300-4481	1	Single Set	10	308-0999	1	Switch, Pushbutton – Emergency Stop (S13)
	300-4286	1	Paralleling Sets				
4	815-0550	5	Screw, Machine – Pan Head – Cross Recessed W/ET (#6-32 x 3/8")	11	526-0257	8	Washer, Flat (#4)
5	302-2012	1	Wattmeter (0-125 %) (M24)	12	338-2937	1	Harness, Wiring – Control Door (Includes Selector Switch and Emergency Stop Switch)
6	302-2010	1	Meter, Frequency (45-65 Hz) (M23)	13	526-0417	2	* Washer, Flat (#4)
7			Voltmeter, AC (M21)	14	870-1220	10	* Nut, Hex – W/ET (#4-40)
	302-2009-01	1	0-300/0-600 Volt	15	338-2934	1	Cable, Ribbon (10-1/2") (A32 to A35)
	302-2009-02	1	0-750 Volt				
	302-2009-03	1	0-5250 Volt	16	332-1445	4	Tie, Cable
	302-2009-04	1	0-15 kV	17	406-0761-03	2	* Fastener, Door
8	302-2011	1	Ammeter (0-125 %) (M22)				

* – Parts Included in Door Assembly

Miscellaneous PowerCommand Parts

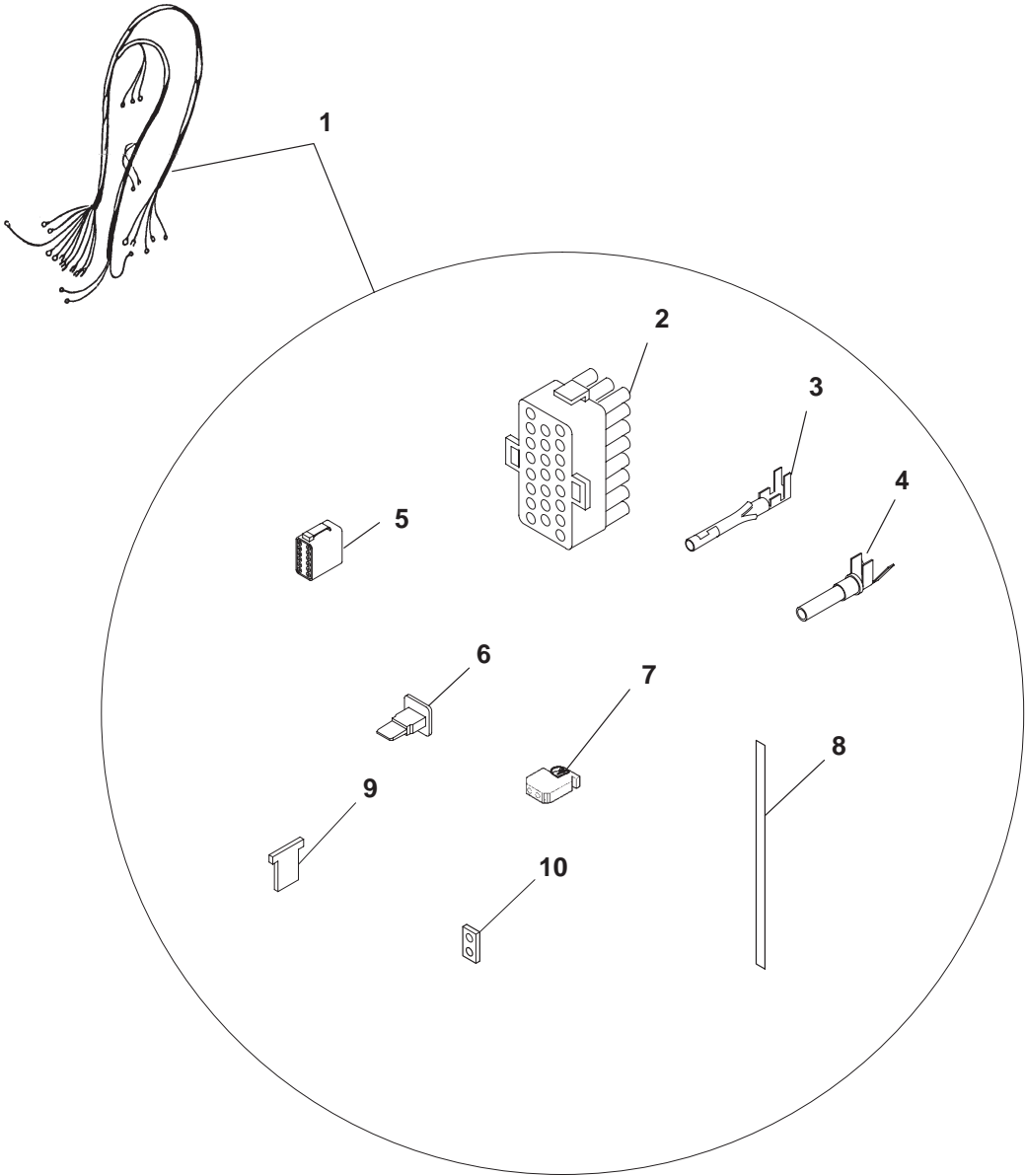


300-4379
300-4381
300-4446

Miscellaneous PowerCommand Parts

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Transformer, Current (CT21,22,23)				6 Lead Generators
			12 Lead Generators		302-1926-01	3	Ratio 1893-1
	302-1922-01	3	Ratio 138-1 / 276-1		302-1926-02	3	Ratio 1899-1
	302-1922-02	3	Ratio 158-1 / 316-1		302-1926-03	3	Ratio 2141-1
	302-1922-03	3	Ratio 173-1 / 346-1		302-1926-04	3	Ratio 2279-1
	302-1922-04	3	Ratio 189-1 / 378-1		302-1926-05	3	Ratio 2366-1
	302-1922-05	3	Ratio 224-1 / 448-1		302-1926-06	3	Ratio 2523-1
	302-1922-06	3	Ratio 252-1 / 504-1		302-1926-07	3	Ratio 2762-1
	302-1922-07	3	Ratio 294-1 / 588-1		302-1926-08	3	Ratio 2839-1
	302-1922-08	3	Ratio 315-1 / 630-1		302-1926-09	3	Ratio 3039-1
	302-1922-09	3	Ratio 345-1 / 690-1		302-1926-10	3	Ratio 3154-1
	302-1922-10	3	Ratio 394-1 / 788-1		302-1926-11	3	Ratio 3470-1
	302-1922-11	3	Ratio 432-1 / 864-1		302-1926-12	3	Ratio 3867-1
	302-1922-12	3	Ratio 473-1 / 946-1		302-1926-13	3	Ratio 3943-1
	302-1922-13	3	Ratio 483-1 / 966-1		302-1926-14	3	Ratio 4144-1
	302-1922-14	3	Ratio 518-1 / 1036-1		302-1926-15	3	Ratio 4420-1
	302-1922-15	3	Ratio 552-1 / 1104-1		302-1926-16	3	Ratio 4731-1
	302-1922-16	3	Ratio 604-1 / 1208-1		302-1926-17	3	Ratio 8211-1
	302-1922-17	3	Ratio 631-1 / 1262-1		302-1926-18	3	Ratio 6832-1
	302-1922-18	3	Ratio 656-1 / 1312-1		302-1926-21	3	Ratio 122-1
	302-1922-19	3	Ratio 725-1 / 1450-1		302-1926-22	3	Ratio 146-1
	302-1922-20	3	Ratio 760-1 / 1520-1		302-1926-23	3	Ratio 170-1
	302-1922-21	3	Ratio 789-1 / 1578-1		302-1926-24	3	Ratio 194-1
	302-1922-22	3	Ratio 863-1 / 1726-1		302-1926-25	3	Ratio 242-1
	302-1922-23	3	Ratio 867-1 / 1734-1		302-1926-26	3	Ratio 302-1
	302-1922-24	3	Ratio 946-1 / 1892-1		302-1926-27	3	Ratio 362-1
	302-1922-25	3	Ratio 950-1 / 1900-1		302-1926-28	3	Ratio 422-1
	302-1922-26	3	Ratio 1070-1 / 2140-1		302-1926-29	3	Ratio 482-1
	302-1922-27	3	Ratio 1104-1 / 2208-1	2	323-1510	1	Clamp, Cable
	302-1922-28	3	Ratio 1140-1 / 2280-1	3	323-1511	1	Bushing, Rubber
	302-1922-29	3	Ratio 1262-1 / 2524-1	4	307-2737-01	1	Relay – Alarm
	302-1922-30	3	Ratio 1381-1 / 2762-1	5	307-2737-02	1	Socket, Relay
	302-1922-31	3	Ratio 1419-1 / 2838-1	6	323-1411-01	2	Clip, Socket Mounting
	302-1922-32	3	Ratio 1519-1 / 3038-1	7			Relay – Control
	302-1922-33	3	Ratio 1577-1 / 3154-1		307-1058-01	4	12V
	302-1922-34	3	Ratio 1893-1 / 3786-1		307-1056-01	4	24V
	302-1922-35	3	Ratio 1899-1 / 3798-1	8	323-1410-01	4	Socket, Relay
	302-1922-36	3	Ratio 2141-1 / 4282-1	9	323-1411-01	3	Clip, Socket Mounting
	302-1922-37	3	Ratio 2279-1 / 4558-1	10	338-3019	1	Harness, Wiring – Current
	302-1922-38	3	Ratio 2366-1 / 4732-1				Transformer (Includes Plug and Socket)
	302-1922-39	3	Ratio 2523-1 / 5046-1	11	323-1644-03	1	Plug – 12 Place
	302-1922-40	3	Ratio 2762-1 / 5524-1	12	323-1648	10	Socket, Contact
	302-1922-41	3	Ratio 2839-1 / 5678-1	13	856-0008	2	Washer, Lock – W/EIT (5/16")
	302-1922-42	3	Ratio 3154-1 / 6308-1				Generator Reconnection
	302-1922-43	3	Ratio 122-1 / 244-1				Block
	302-1922-44	3	Ratio 209-1 / 418-1				
	302-1922-45	3	Ratio 243-1 / 486-1				
	302-1922-46	3	Ratio 278-1 / 556-1				
	302-1922-47	3	Ratio 604-1 / 1208-1				
	302-1922-48	3	Ratio 694-1 / 1388-1				

**Wiring Harness Components
Interconnect**

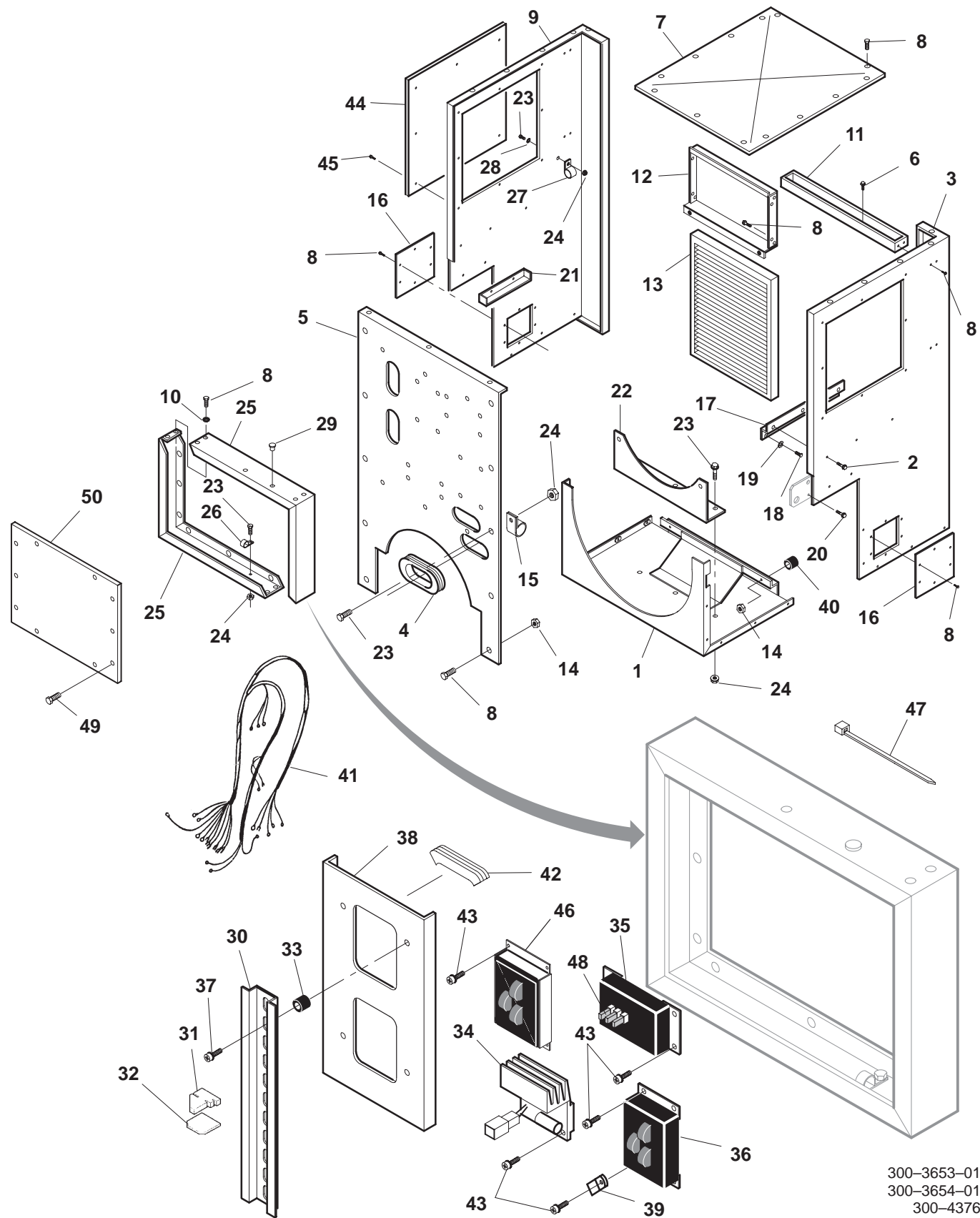


Wiring Harness Components Interconnect

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Interconnect	7			Block, Terminal (Used In TB1)
	338–3199	1	Used With Model HC4, HC5 Generators – Single Set (Includes Parts Marked *)		332–3125–02	4 *^	Model HC4, HC5, UC22, UCD22, UC27, UCD27 Generators (10 Pole Block, Single Level)
	338–3201	1	Used With Model HC6, HC7 Generators – Single Set (Includes Parts Marked #)		332–3125–02	4 #	Model HC6, HC7 Generators Single Set (10 Pole Block, Single Level)
	338–3202	1	Used With Model HC6, HC7 Generators – Paralleling Sets (Includes Parts Marked +)		332–3125–02	5 +	Paralleling Sets 10 Pole Block, Single Level
	338–3525	1	Used With Model UC22, UCD22, UC27, UCD27 Generators – Single Set (Includes Parts Marked ^)		332–3125–04	10 +	Single Pole, Double Level
2			Plug, Connector – 23 Place	8			Tag, Terminal (Used In TB1)
	323–1605–01	1 *#+^	Colored Black (P1)		332–2842–21	1 *^	Model HC4, HC5, UC22, UCD22, UC27, UCD27 Generators (Numbered 1 Through 50)
	323–1605–03	1 *#+^	Colored Grey (P2)				Model HC6, HC7 Generators
	323–1605–04	1 *#+^	Colored Blue (P3)		332–2842–21	1 #	Single Set – Numbered 1 Through 50
3			Socket, Contact (Used In P1, P2, P3, P8)		332–2842–21	1 +	Paralleling Sets Numbered 1 Through 50
	323–1614–01	57 *^	Model HC4, HC5, UC22, UCD22, UC27, UCD27 Generators		332–2842–22	1 +	Numbered 51 Through 100
			Model HC6, HC7 Generators	9	332–2840–02	2 *#+	Partition, Terminal – Single Set (Used On TB1)
	323–1614–01	54 #	Single Set	10			Jumper, Terminal (Used On TB1)
	323–1614–01	75 +	Paralleling Sets		332–2843–01	1 *#+	Used On Single Level Terminal Blocks
4			Socket, Contact		332–2843–05	1 +	Used On Double Level Terminal Blocks
	323–1492	7 *^	Model HC4, HC5, UC22, UCD22, UC27, UCD27 Generators (Used In P12)				
	323–1492	9 #+	Model HC6, HC7 Generators (Used In P1, P12)				
5	323–1582	1 *#+^	Plug, Connector – 12 Place (Colored Grey) (P12)				
6	323–1583	1 *#+^	Wedge (Used In P12)				

* – Parts Included In 338–3199 Interconnect Wiring Harness
 # – Parts Included In 338–3201 Interconnect Wiring Harness
 + – Parts Included In 338–3202 Interconnect Wiring Harness
 ^ – Parts Included In 338–3525 Interconnect Wiring Harness

Control Housing
 (DFAA, DFAB, DFAC, DFBC, DFBD, DFBE, DFBF, DFCB, DFCC, DFEB, DFEC, DFED, DFFA, DFFB,
 – HC4/HC5 Generator)

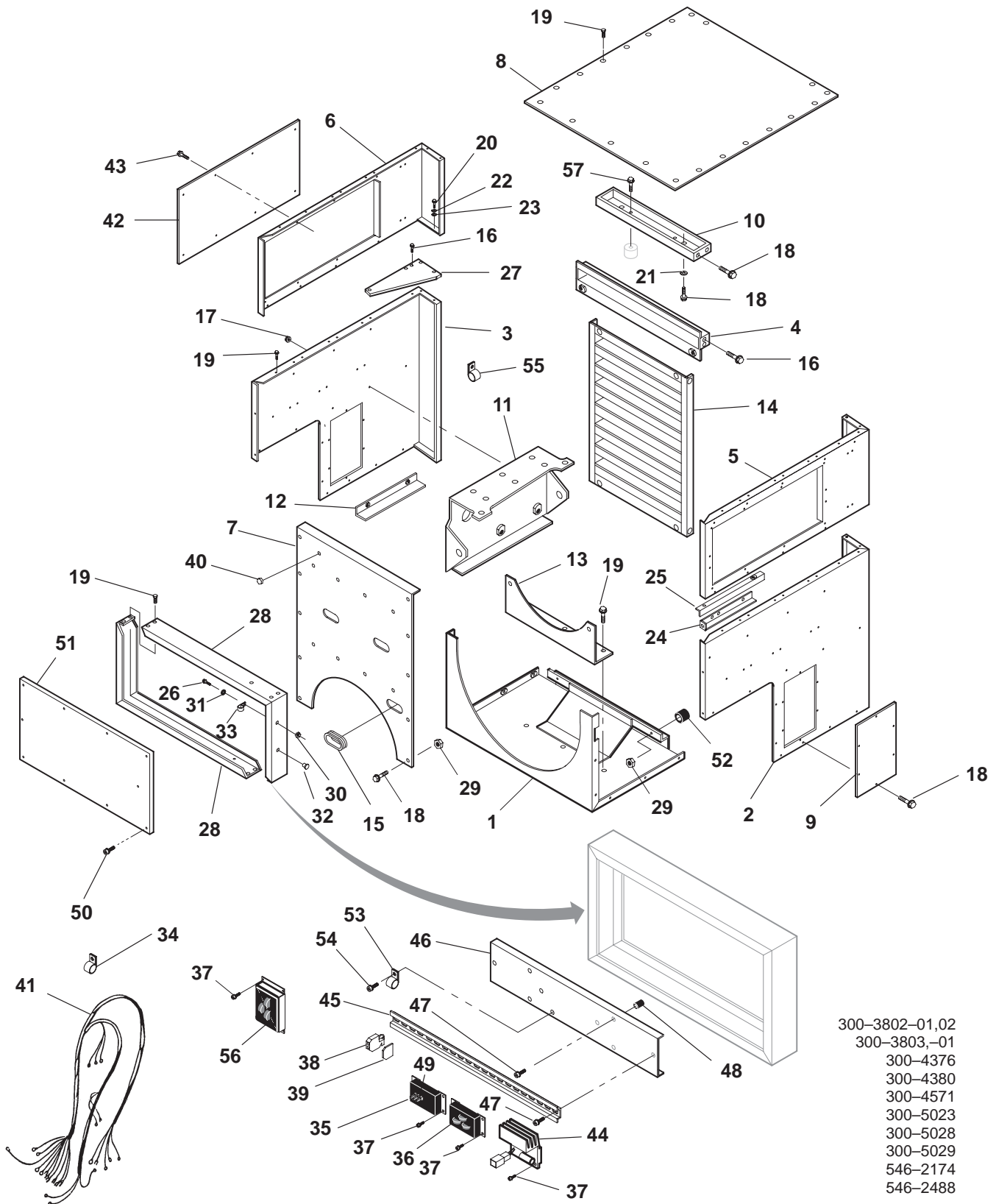


300-3653-01
 300-3654-01
 300-4376

Control Housing
(DFAA, DFAB, DFAC, DFBC, DFBD, DFBE, DFBF, DFCB, DFCC, DFEB, DFEC, DFED, DFFA, DFFB
– HC4/HC5 Generator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Control – Bottom	27	518–0633	1	Clip, J
	319–2771–01	1	HC4 Generator	28	526–0399–16	1	Washer, Flat (5/16")
	319–2771–02	1	HC5 Generator	29	517–0131	2	Plug, Hole
2	821–5004–02	6	Screw, Locking Head (3/8–16 x 3/4")	30	332–2879–05	2	Rail, Terminal
3	319–2784–01	1	Panel, Housing – Control (Right Side)	31	332–3126–01	1	Plate, End – Terminal
4	508–1090	4	Grommet	32	332–2878	2	Bracket, End – Terminal
5			Panel, Housing – Control (Rear)	33	402–0510	4	Isolator, Vibration
	319–2218	1	HC4 Generator	34	300–4306	1	Board, PC – Voltage Regulator
	319–2217	1	HC5 Generator	35	300–4307	1	Board, PC – Governor
6	821–5003–01	4	Screw, Locking Head (5/16–18 x 1/2")	36			Board, PC – PT/CT
7	301–9512	1	Cover, Housing – Control (Top)		300–4308–01	1	120 Volt
8			Screw, Locking Head (1/4–20 x 1/2")		300–4308–02	1	240 Volt
	821–5002–03	69	HC4 Generator		300–4308–03	1	346 Volt
	821–5002–03	68	HC5 Generator	37	815–0839	4	Screw, Pan Head – Cross Recessed W/ET (#10–32 x 3/8")
9	319–2784–02	1	Panel, Housing – Control (Left Side)	38	319–2247	1	Mount, Rail
10	856–0006	2	Washer, Lock – EIT (1/4")	39	425–1799	1	Clamp, Cable
11	301–9510	2	Support, Box – Control	40	402–0508	4	Isolator, Vibration
12	319–2776	1	Panel, Housing – Control (Front)	41	338–3199	1	Harness, Wiring – Interconnect – Single Set (See Separate Page For Components)
13	319–2768	1	Grill, Generator	42	508–0305–02	1	Edging – Bulk (Order by the Foot – 2 Feet Required) (Four 4" Pieces Used)
14			Nut, Hex (1/4–20)	43	821–5000–05	20	Screw, SEMS (#10–32 x 1/2")
	870–0550–05	10	HC4 Generator	44			Cover Assembly, Control Housing
	870–0550–05	8	HC5 Generator		301–9513–02	1	With Control Box or Entrance Box
15	332–2634	2	Clamp, J		301–9513–02	2	Without Control Box or Entrance Box
16	301–9629	2	Cover, Housing – Control (Side)	45			Screw, Hex Head SEMS (1–1/4–20 x 1/2")
17			Bracket, Control		821–5002–03	8	With Control Box or Entrance Box
	319–0743	2	HC4 Generator		821–5002–03	16	Without Control Box or Entrance Box
	319–0745	2	HC5 Generator	46			Bus, Power Transformer (A39) 0–300V
18	800–2111	6	Screw, Cap – Hex Head (M12 x 1–3/4" x 25)		300–4309–01	1	301–480V
19	850–2012	6	Washer, Lock (M12)		300–4309–02	1	600V
20	800–2114	1	Screw, Cap – Hex Head (M12 x 1–3/4" x 40) (HC4 Generator Only)	47	332–0942	1	Tie, Cable (Use as Required)
21	319–0748	2	Panel, Housing – Control	48	321–0307–05	3	Fuse, 10 Amp
22			Bracket, Panel	49	821–5002–03	10	Screw, Hex Head SEMS (1 1/4–20 x 1/2")
	319–1345	1	HC4 Generator	50	319–2349	1	Cover, Control Box
	319–1346	1	HC5 Generator				
23	821–5003–03	7	Screw, Locking Head (5/16–18 x 3/4")				
24	870–0257	7	Nut, Locking (5/16–18)				
25	319–2476	2	Wrapper, Box – Control				
26	332–2634	2	Clamp, J				

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

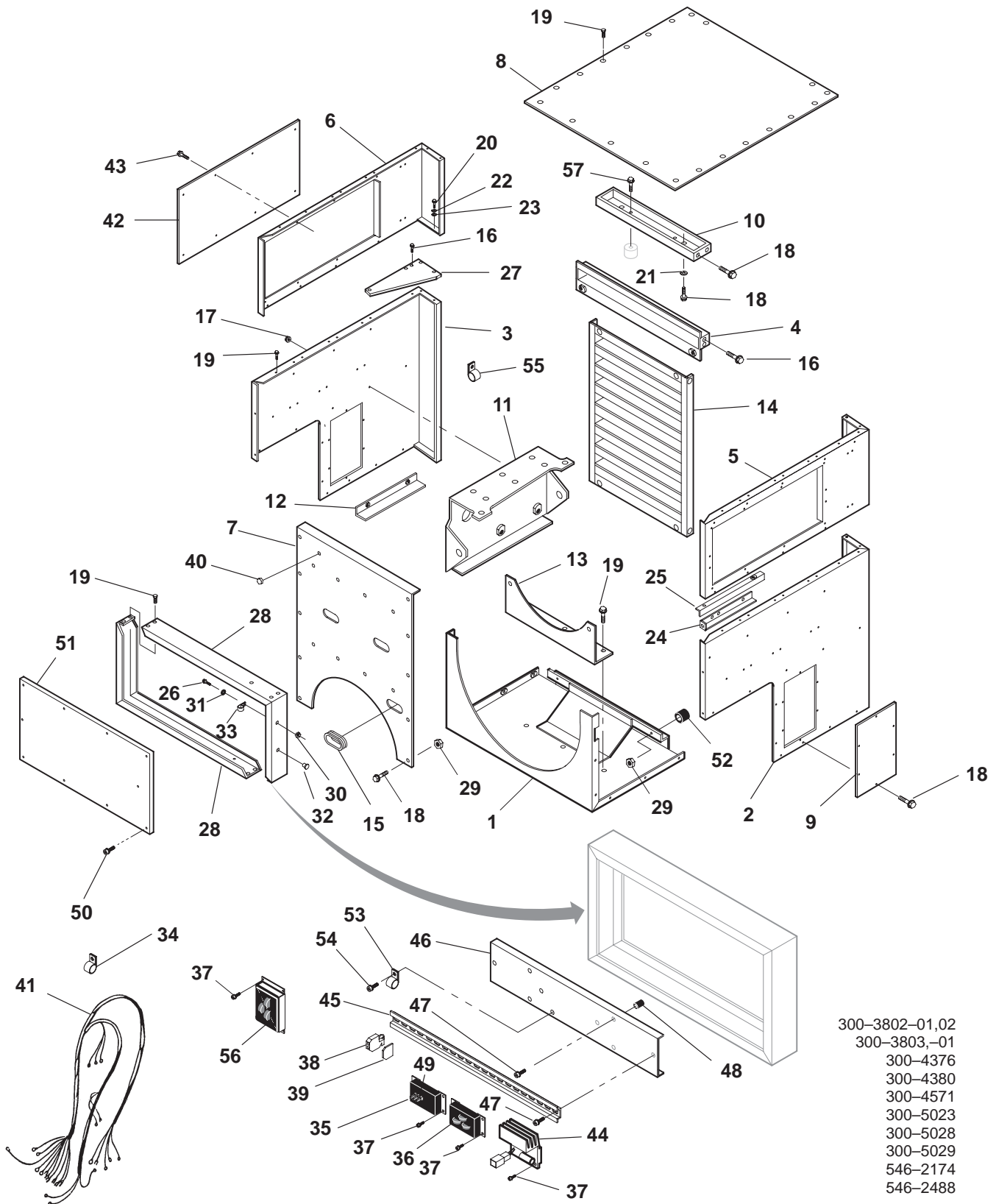


Control Housing
(DFGB, DFGC, DFHC, DFJA, DFJB, DFJC, DFJD, DFLB, DFLC, DFLD,
DFMB – HC6/HC7 Generators)
(DFFB, DFGA, DFHA, DFHB, DFHC – HC6 Generator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Panel, Control – Bottom	8	319-1093	1	Panel, Housing – Control – Top
	319-2771-03	1	Model HC6 Generator All Models Except DFHA, DFHB, DFHC	9	319-0881	2	Cover, Housing – Lower – Side
	319-2771-03	1	DFHA, DFHB, DFHC	10			Support, Box – Control
	319-3270-03	1	Spec A		319-0879	1	All Models Except DFHA, DFHB, DFHC
			Spec B, C				DFHA, DFHB, DFHC
	319-2771-04		Model HC7 Generator All Models Except DFHA, DFHB, DFHC		319-0879	2	Spec A
	319-3270-04	1	DFHC Spec C		319-3258	2	Spec B, C
2			Panel, Housing – Control – RH	11			Bracket, Saddle
	319-2781-01	1	All Models Except DFHA, DFHB, DFHC		319-1096	2	Model HC6 Generator All Models Except DFHA, DFHB, DFHC
	319-2781-01	1	DFHA, DFHB, DFHC		319-1096	2	Spec A
	319-3283-01	1	Spec A		319-3267	2	Spec B, C
			Spec B, C				Model HC7 Generators All Models Except DFHA, DFHB, DFHC
3			Panel, Housing – Control – LH		319-1097	2	DFHC Spec C
	319-2781-02	1	All Models Except DFHA, DFHB, DFHC	12	319-3268	2	Angle, Housing – Model HC6 Generators
	319-2781-02	1	DFHA, DFHB, DFHC		319-0883	2	All Models Except DFHA, DFHB, DFHC
	319-3283-02	1	Spec A				DFHA, DFHB, DFHC
			Spec B, C				Spec A
4	319-2778	1	Panel, Housing – Control – Front		319-0883	2	Spec B, C
5			Panel, Housing – Control – RH	13	319-3260	2	Bracket, Panel
	319-2779-01	1	All Models Except DFHA, DFHB, DFHC		319-1091	1	Model HC6 Generators
			DFHA, DFHB, DFHC		319-1092	1	Model HC7 Generators
	319-2779-01	1	Spec A	14	319-2767	1	Grille
	319-3281-01	1	Spec B, C	15			Grommet
6			Panel, Housing – Control – LH		508-1090	3	All Models Except DFJB With 1905/3300 Voltage (HC7 Generator)
	319-2779-02	1	All Models Except DFHA, DFHB, DFHC		508-1057	1	DFJB With 1905/3300 Voltage (HC7 Generator)
			DFHA, DFHB, DFHC	16			Screw, Self-Locking – Hex Washer Head (Model HC6 Generators)
	319-2779-02	1	Spec A		821-5004-02	12	All Models Except DFHA, DFHB, DFHC (3/8-16 x 3/4")
	319-3281-02	1	Spec B, C				DFHA, DFHB, DFHC
7			Panel, Housing – Control – Rear		821-5004-02	12	Spec A (3/8-16 x 3/4")
	319-2243	1	Model HC6 Generator All Models Except DFHA, DFHB, DFHC		821-6004-01	12	Spec B, C (M10 x 20mm)
			DFHA, DFHB, DFHC	17	870-0550-09	6	Nut, Lock (3/8-16) (Model HC7 Generators)
	319-2243	1	Spec A				
	319-3276	1	Spec B, C				
			Model HC7 Generators All Models Except DFJB With 1905/3300 Voltage and DFHA, DFHB, DFHC				
	319-2242	1	DFJB With 1905/3300 Voltage				
	319-1088	1	DFJB With 1905/3300 Voltage				
	319-3275	1	DFHC Spec C				

Continued...

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

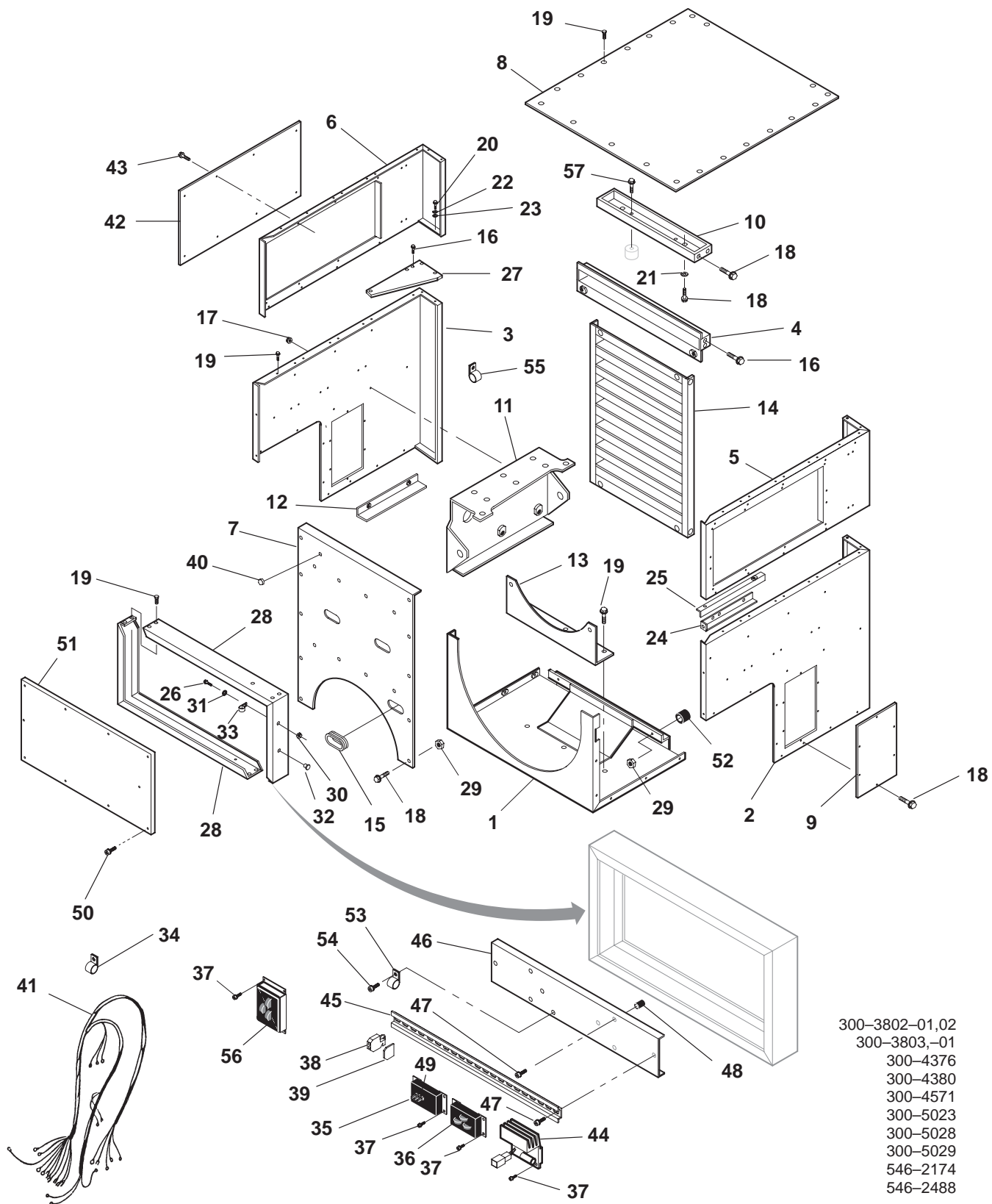


300-3802-01,02
300-3803,-01
300-4376
300-4380
300-4571
300-5023
300-5028
300-5029
546-2174
546-2488

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...				24			Angle, Support (Not Used On DFHA, DFHB, DFHC)
				319-1090	1		Prior To December 1996 Production
18			Screw, Self-Locking – Hex Washer Head	319-3263	1		Begin December 1996 Production
	821-5002-03	30	Model HC6 Generators All Models Except DFHA, DFHB, DFHC (1/4-20 x 1/2")	25			Angle, Support (Not Used On DFHA, DFHB, DFHC)
	821-5002-03	30	DFHA, DFHB, DFHC Spec A (1/4-20 x 1/2")	319-1118	1		Prior To December 1996 Production
	821-6002-03	30	Spec B, C (M6 x 16mm)	319-3269	1		Begin December 1996 Production
	821-5002-03	26	Model HC7 Generators (1/4-20 x 1/2")	26			Screw, Self-Locking – Hex Washer Head (5/16-18 x 3/4")
19			Screw, Self-Locking – Hex Washer Head	821-5003-03	11		Model HC6 Generators
	821-5003-01	68	All Models Except DFJB With 1905/3300 Voltage (HC7 Generator) and DFHA, DFHB, DFHC (5/16-18 x 1/2")	821-5003-03	10		Model HC7 Generators
	821-5003-01	58	DFJB With 1905/3300 Voltage (HC7 Generator) (5/16-18 x 1/2")	821-5003-03	8		All Except DFJB With 1905/3300 Voltage
	821-5003-01	65	DFHA, DFHB, DFHC Spec A (5/16-18 x 1/2")	27	319-1203-01	2	Gusset, Housing – Control
	821-6003-02	72	Spec B (M8 x 20mm)	28	319-2244	2	Wrapper, Control Box
	821-6003-02	75	Spec C (M8 x 20mm)		319-3277	2	Prior To December 1996 Production
20			Screw, Cap – Hex Head (M10 x 25mm)				Begin December 1996 Production
	800-2086	15	Model HC6 Generators All Models Except DFHA, DFHB, DFHC	29	870-0550-05	10	Nut, Locking
	800-2086	14	DFHA, DFHB, DFHC		870-2054	10	Prior To December 1996 Production (1/4-20)
	800-2086	11	Model HC7 Generators				Begin December 1996 Production (M6)
21			Washer, Lock – EIT (1/4")	30	870-0550-07	2	Nut, Locking
	856-0006	2	All Models Except DFJB With 1905/3300 Voltage (HC7 Generator)		870-2055	2	Prior To December 1996 Production (5/16-18)
	856-0006	1	DFJB With 1905/3300 Voltage (HC7 Generator)	31	526-1115	2	Begin December 1996 Production (M8)
22			Washer, Lock – Spring (M10)	32	517-0131	2	Washer, Flat (5/16")
	850-2010	15	Model HC6 Generator All Models Except DFHA, DFHB, DFHC		517-0131	3	Plug, Hole
	850-2010	14	DFHA, DFHB, DFHC	Continued...			
	850-2010	11	Model HC7 Generator				Prior To December 1996 Production
23			Washer, Flat (3/8")				Begin December 1996 Production
	526-0141	10	Model HC6 Generators				
	526-0141	6	Model HC7 Generators				

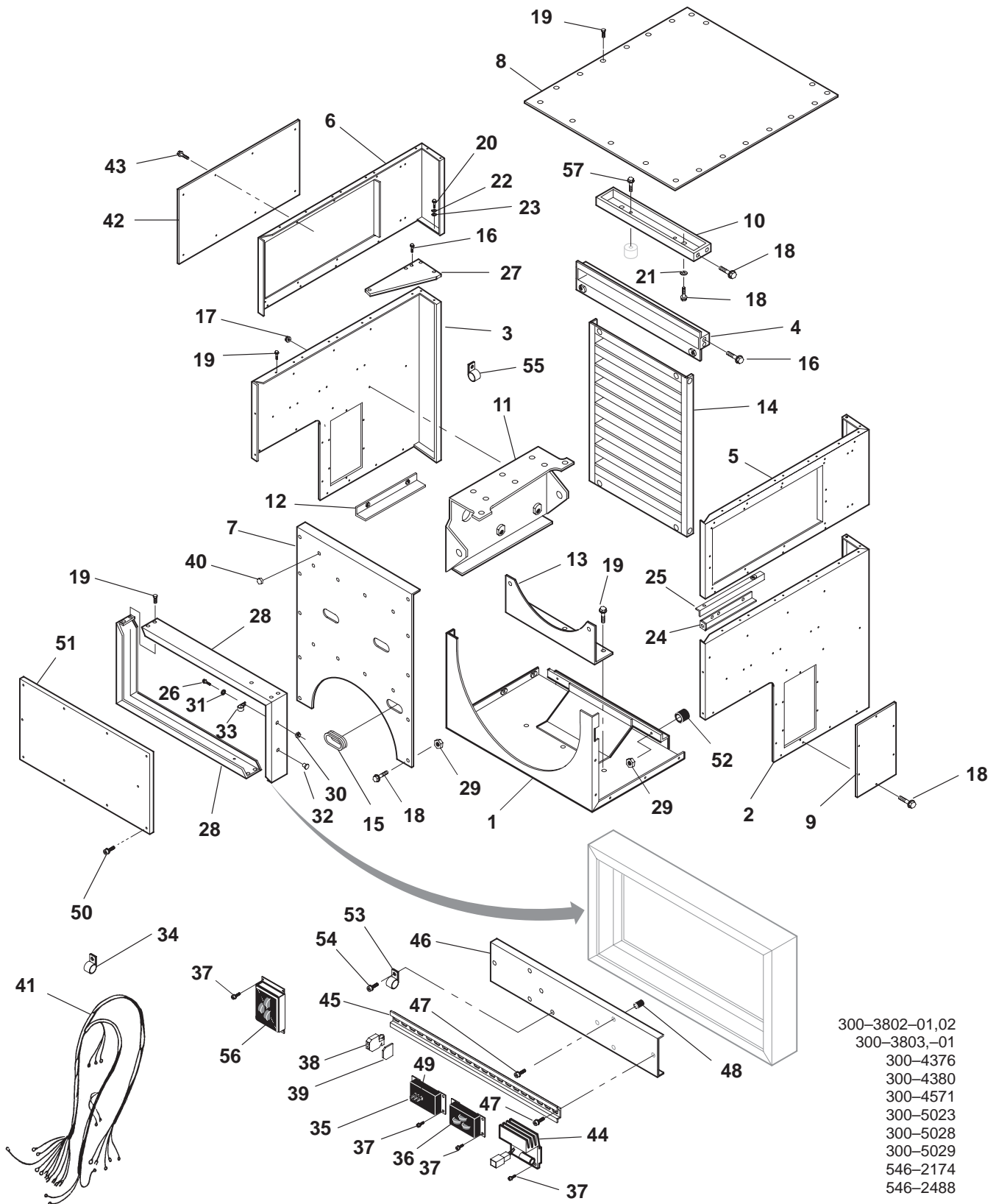
Control Housing
(DFGB, DFGB, DFHC, DFJA, DFJB, DFJC, DFJD, DFLB, DFLC, DFLD,
DFMB – HC6/HC7 Generator)
(DFFB, DFGA, DFHA, DFHB, DFHC – HC6 Generator)



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
				39	332-2878	1	Bracket, End – Terminal
				40	517-0135	1	Plug
33	332-2634	4	Clamp, Retainer	41			Harness, Wiring –
			Prior To December 1996				Interconnect (See Separate
			Production (Mounted On				Page For Components)
			Top And Side Of Control		338-3201	1	Single Unit
			Box Wrapper)		338-3202	1	Paralleling Units
			Begin December 1996		319-1095	1	Cover, Control Housing
			Production	42			(Quantity Used As
	332-2634	2	Mounted On Top And				Required)
			Side Of Control Box	43			Screw, Self-Locking – Hex
			Wrapper On The Side				Washer Head
			Towards The Control				Prior To November 1996
			Box Cover				Production (1/4-20 x
	518-0548-42	2	Mounted On Top And				1/2")
			Side Of Control Box		821-5002-03	10	With One Control
			Wrapper On The Side				Housing Cover
			Towards The Rear		821-5002-03	20	With Two Control
			Housing Control				Housing Covers
			Panel				Begin November 1996
34	518-0548-24	1	Clamp, Retainer – Wiring				Production (M6 x
			Harness				20mm)
35			Board, Printed Circuit –		821-6002-03	10	With One Control
			Governor				Housing Cover
	300-4307	1	All Models Except DFHA,		821-6002-03	20	With Two Control
			DFHB, DFHC				Housing Covers
	300-4725	1	DFHA, DFHB, DFHC				
36			Board, Printed Circuit –	44	300-4306	1	Board, Printed Circuit –
			PT/ CT				Voltage Regulator
	300-4308-01	1	120 Volt (Used On All 12	45	332-2879-06	1	Rail, Terminal
			Lead Reconnectable	46	319-2246	1	Mount, Rail
			Standard And Broad	47	815-0839	8	Screw, Pan Head – Cross
			Range Generators,				Recessed W/ET (#10-32 x
			Medium Voltage 2400,				3/8")
			3300 and 4160 Volt	48	402-0510	4	Isolator, Vibration
			Generators, Low	49	321-0307-05	3	Fuse – 10 Amp
			Voltage HC7 Frame	50			Screw, Self-Locking – Hex
			Generators)				Washer Head
	300-4308-02	1	240 Volt (Used On All		821-5003-01	12	Prior To November 1996
			Series Delta				Production (5/16-18 x
			Generators, All 480 Volt				1/2")
			And Less 6 Lead		821-6003-02	12	Begin November 1996
			Generators)				Production (M8 x
	300-4308-03	1	346 Volt (Used On All				20mm)
			600 Volt 6 And 12 Lead	51	319-2245	1	Cover, Control Box
			Generators)	52			Isolator, Vibration
37			Screw, Self-Locking – Hex		402-0610	4	Prior To December 1996
			Washer Head				Production
	821-5000-05	20	Prior To December 1996		402-0729	4	Begin December 1996
			Production (#10-32 x				Production
			1/2")				
	821-6001-03	20	Begin December 1996				
			Production (M5 x				
			16mm)				
				Continued...			

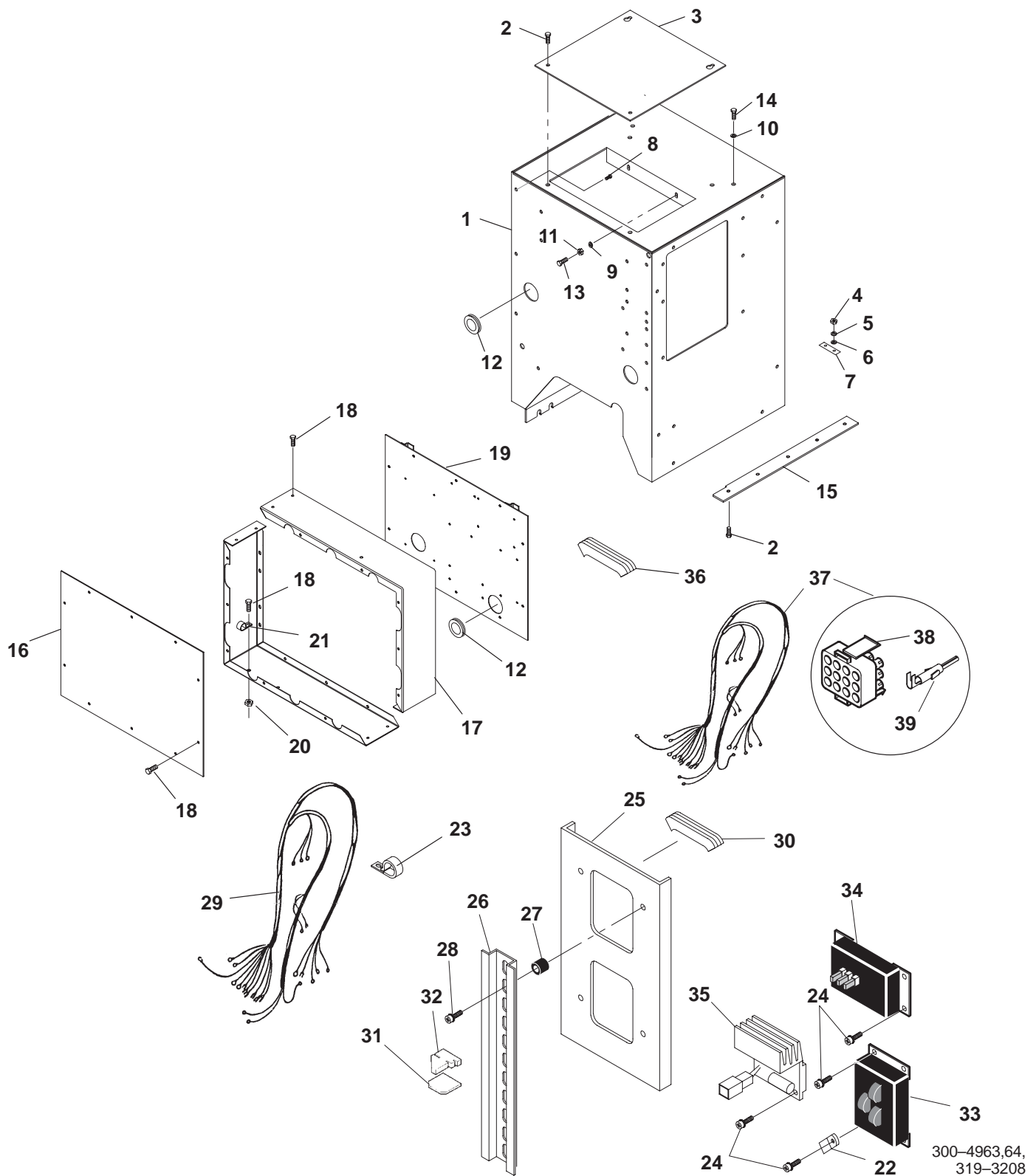
Control Housing
(DFGB, DFGB, DFHC, DFJA, DFJB, DFJC, DFJD, DFLB, DFLC, DFLD,
DFMB – HC6/HC7 Generator)
(DFFB, DFGA, DFHA, DFHB, DFHC – HC6 Generator)



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...							
53	518-0548-42	1	Clamp, Retainer	57			Screw, Self-Locking – Hex
54	821-0014	1	Screw, Self-Locking – Hex Washer Head (5/16-18 x 1/2")				Washer Head (5/16-18 x 1/2")
55	518-0633	1	Clamp		821-5003-01	4	Prior To December 1996 Production
56			Bus, Power Transformer (A39)		821-0014	4	Begin December 1996 Production
	300-4309-01	1	0-300 Volts				
	300-4309-02	1	301-480 Volts				
	300-4309-03	1	600 Volts				

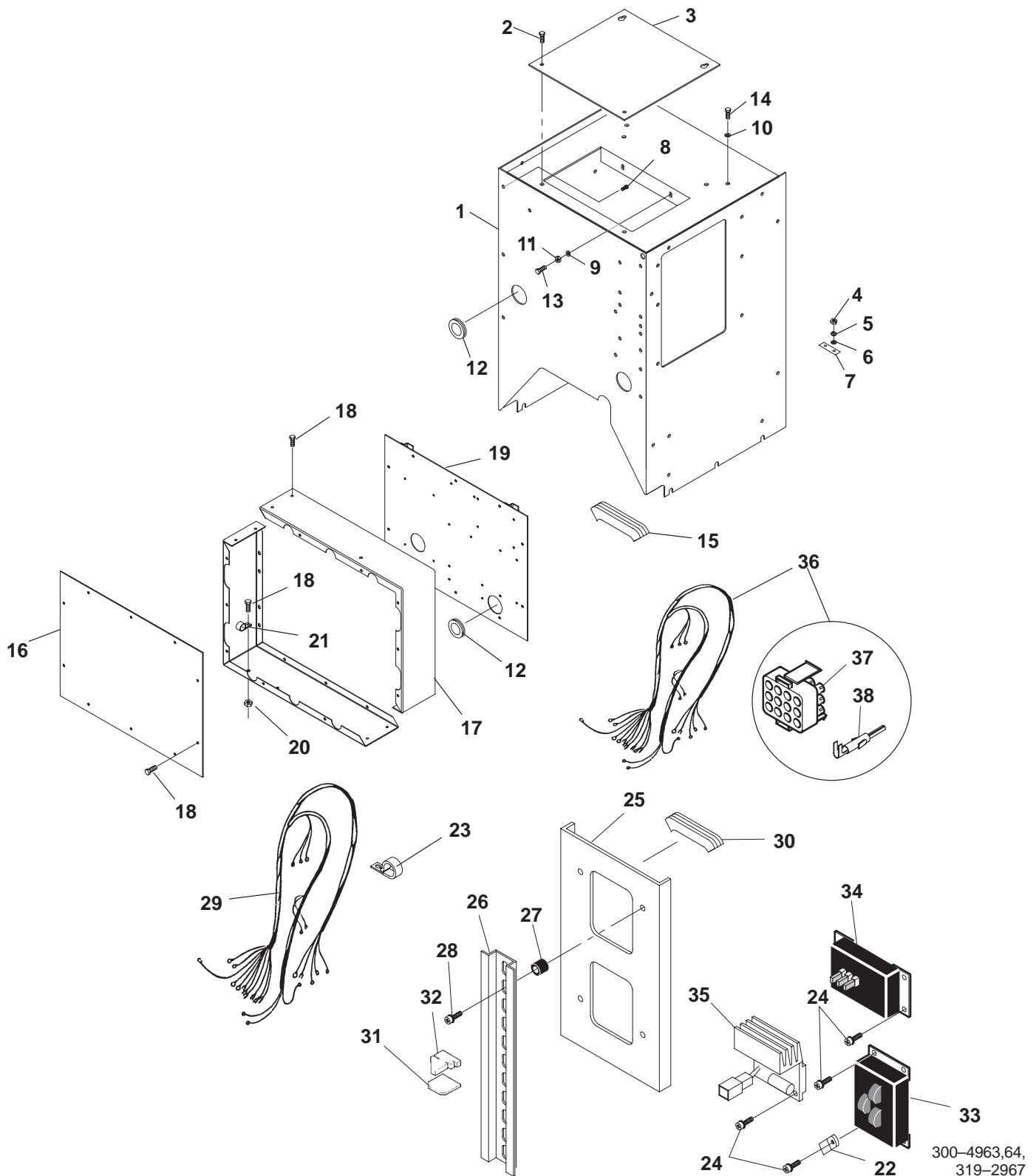
Control Housing (DGBB, DGBC, DGCA, DGCB, DGCC, DGDA – UC22/UCD22 Generator)



Control Housing
(DGBB, DGBB, DGCA, DGCB, DGCC, DGDA – UC22/UCD22 Generator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3208	1	Housing, Control	26	332-2879-05	2	Rail, Terminal
2	821-6002-03	9	Screw, SEMS (M6 x 1 x 16)	27	402-0510	4	Isolator, Vibration
3	319-2996	1	Cover, Housing – Control	28	815-0839	4	Screw, Pan Head – Cross Recessed – W/ET (10-32 x 3/8")
4	860-2009	8	Nut, HMS (M10 x 1-1/2")	29	338-3525	1	Harness, Wiring – Interconnect – Single Set (See Separate Page For Components)
5	850-2010	8	Washer, Lock (M10)	30	508-0305-02	–	Edging – Bulk (Order by the Foot – 2 Feet Required) (Four 4" Pieces Used)
6	526-2120	8	Washer, Flat (M10)	31	332-2878	2	Bracket, End – Terminal
7	332-2987	4	Link, Terminal	32	332-3126-01	1	Plate, End – Terminal
8	821-6002-03	6	Screw, SEMS (M6 x 16)	33			Board, PC – PT/CT
9	856-0008	2	Washer, Lock – ET (5/16")		300-4308-01	1	120 Volt
10	526-0013	2	Washer, Flat (5/16")		300-4308-02	1	240 Volt
11	870-2055	2	Nut, Whizlock (M8)		300-4308-03	1	346 Volt
12	508-1119	4	Grommet	34	300-4307-01	1	Board, PC – Governor
13	821-6003-02	2	Screw, SEMS (M8 x 1.25 x 20)	35	300-4306-01	1	Board, PC – Voltage Regulator
14	821-5003-01	4	Screw, SEMS (5/16-18 x 1/2")	36	508-0305-02	–	Edging – Bulk (Order by the Foot – 1 Foot Required)
15	319-3207	1	Bracket, Housing – Control	37	338-3561	1	Harness, Wiring – AC (Includes Plug and Socket) (P9 to CT21,22,23,5,6,7,8)
16	319-2220	1	Cover, Box – Control	38	323-1644-03	1	Plug – 12 Place (P9)
17	319-3278	2	Wrapper, Box – Control	39	323-1648	10	Socket, Contact
18	821-6002-03	24	Screw, SEMS (M6 x 16)				
19	319-3148	1	Panel, Assembly – PCC Box				
20	870-2055	2	Nut, Hex – Flange (M8 x 1.25)				
21	332-2634	2	Clamp				
22	425-1799	1	Clamp				
23	518-0633	1	Clamp				
24	821-6001-03	16	Screw, SEMS (M5 x 0.8 x 16)				
25	319-2247	1	Mount, Rail – Control Box				

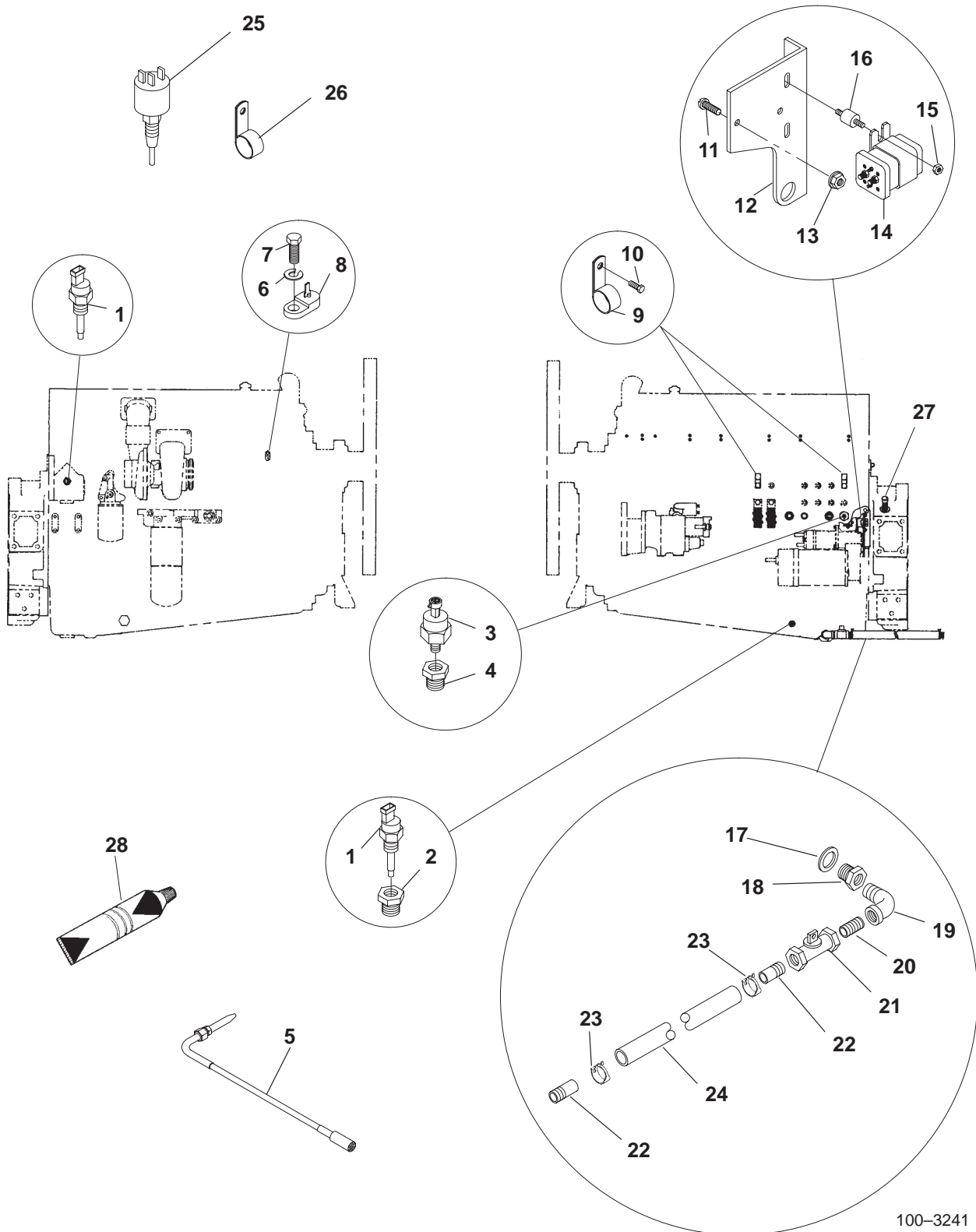
Control Housing
(DGCA, DGCB, DGCC, DGDA, DGDB, DGEA,
DGFA, DGFB, DGFC – UC27/UCD27 Generator)



Control Housing
(DGCA, DGCB, DGCC, DGDA, DGDB, DGEA,
DGFA, DGFB, DGFC – UC27/UCD27 Generator)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-2967	1	Housing, Control	24	821-6001-03	16	Screw, SEMS (M5 x 0.8 x 16)
2	821-6002-03	4	Screw, SEMS (M6 x 1 x 16)	25	319-2247	1	Mount, Rail – Control Box
3	319-2996	1	Cover, Housing – Control	26	332-2879-05	2	Rail, Terminal
4	860-2009	8	Nut, HMS (M10 x 1-1/2")	27	402-0510	4	Isolator, Vibration
5	850-2010	8	Washer, Lock (M10)	28	815-0839	4	Screw, Pan Head – Cross Recessed – W/ET (10-32 x 3/8")
6	526-2120	8	Washer, Flat (M10)				
7	332-2987	4	Link, Terminal				
8	821-6002-03	6	Screw, SEMS (M6 x 16)	29	338-3525	1	Harness, Wiring – Interconnect – Single Set (See Separate Page For Components)
9	856-0008	2	Washer, Lock – ET (5/16")				
10	526-0013	2	Washer, Flat (5/16")				
11	870-2055	2	Nut, Whizlock (M8)	30	508-0305-02	–	Edging – Bulk (Order by the Foot – 2 Feet Required) (Four 4" Pieces Used)
12	508-1119	4	Grommet				
13	821-6003-02	2	Screw, SEMS (M8 x 1.25 x 20)	31	332-2878	2	Bracket, End – Terminal
14	821-5003-01	4	Screw, SEMS (5/16-18 x 1/2")	32	332-3126-01	1	Plate, End – Terminal
15	508-0305-02	–	Edging – Bulk (Order by the Foot – 1 Foot Required)	33			Board, PC – PT/CT
16	319-2220	1	Cover, Box – Control		300-4308-01	1	120 Volt
17	319-3278	2	Wrapper, Box – Control		300-4308-02	1	240 Volt
18	821-5002-03	24	Screw, SEMS (1/4-20 x 1/2")		300-4308-03	1	346 Volt
19	319-3148	1	Panel, Assembly – PCC Box	34	300-4307-01	1	Board, PC – Governor
20	870-2055	2	Nut, Hex – Flange (M8 x 1.25)	35	300-4306-01	1	Board, PC – Voltage Regulator
21	332-2634	2	Clamp	36	338-3561	1	Harness, Wiring – AC (Includes Plug and Socket) (P9 to CT21,22,23,5,6,7,8)
22	425-1799	1	Clamp	37	323-1644-03	1	Plug – 12 Place (P9)
23	518-0633	1	Clamp	38	323-1648	10	Socket, Contact

Miscellaneous Engine Parts (DFAA, DFAB, DFAC) LTA10 Engine

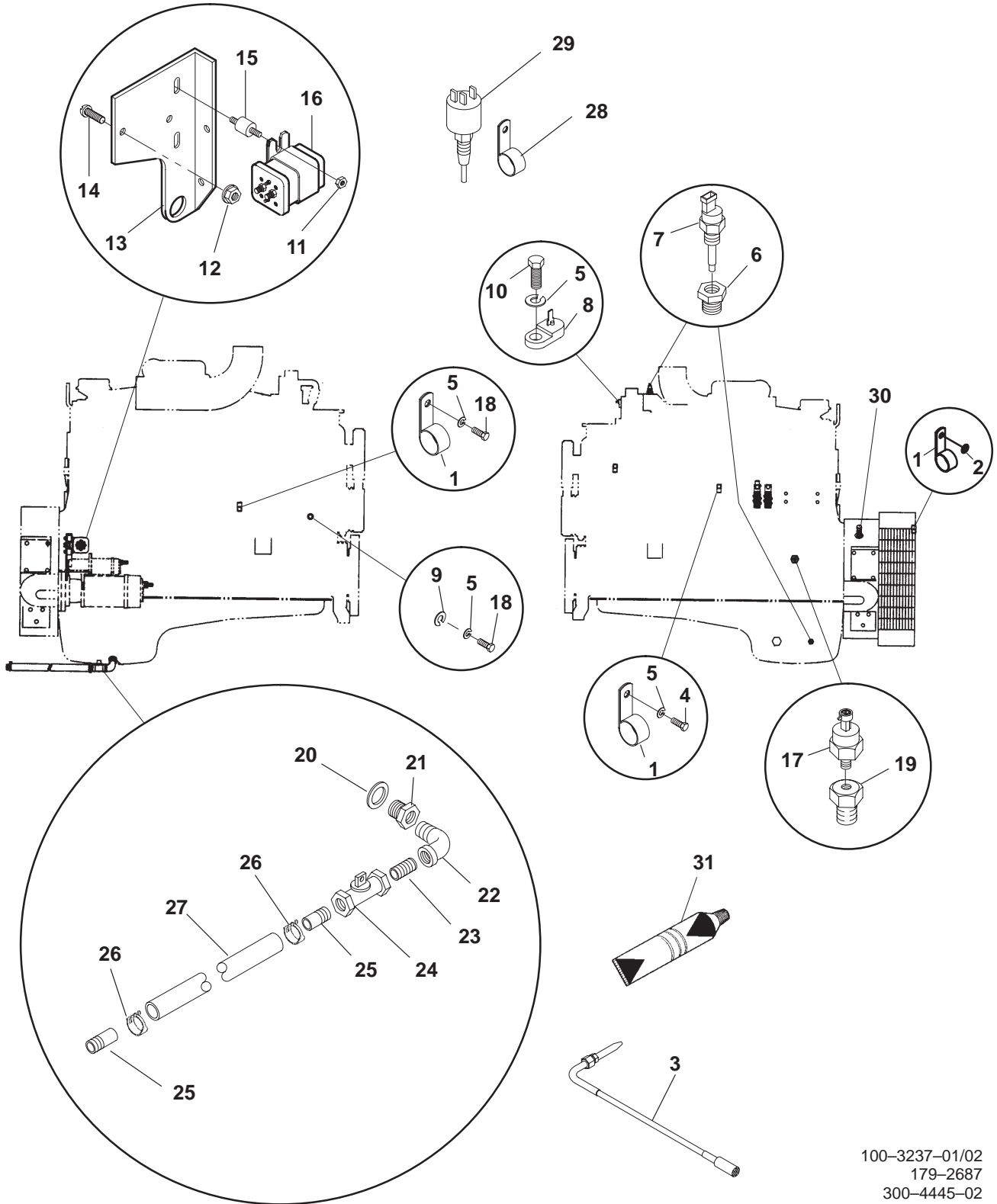


100-3241
179-1360
300-4445-01

**Miscellaneous Engine Parts
(DFAA, DFAB, DFAC)
LTA10 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Temperature	14	307-2621-02	1	Solenoid, Pilot – Starter
2	505-0019	1	Bushing, Reducer (1/2" x 3/8")	15	870-0212	4	Nut, Lock (1/4-20)
3	193-0444	1	Sender, Pressure – Oil	16	402-0610	2	Isolator, Vibration
4	505-0007	1	Bushing, Reducer (1/4" x 1/8")	17	508-0292	1	Washer, Sealing
5	193-0446-01	1	Sender, Exhaust Gas Temperature (12" Long)	18	102-1335	1	Adapter
6	850-2010	1	Washer, Lock (M10)	19	505-0050	1	Elbow, Street – 90 deg. (1/2")
7	800-2107	1	Screw, Cap – Hex Head (M10 x 1-1/2" x 150)	20	505-0100	1	Nipple, Close (1/2" x 1-1/8")
8	309-0269	1	Switch, Temperature – Low Engine	21	504-0011	1	Valve, Shutoff (1/2")
9	332-2634	2	Clamp, J	22	505-0185	2	Nipple, Half (1/2" x 1-1/2")
10	800-2060	2	Screw, Cap – Hex Head (M10 x 1-1/2" x 20)	23	503-0197	2	Clamp, Hose
11	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	24	503-0098	1	Hose, Drain – Bulk (3/4" ID) (Order by the Foot – 3 Feet Required)
12	319-2236	1	Bracket, Solenoid – Pilot	25	193-0322	1	Sender, Low Coolant
13	870-0183	2	Nut, Hex – W/ET (#6-32)	26	518-0548-08	4	Clip
				27	151-0411	1	Pickup, Magnetic
				28	518-0601	1	Sealant, Thread

**Miscellaneous Engine Parts
(DFBC, DFBD, DFBE, DFBF, DFCB, DFCC)
NT855, NTA855 Engine**

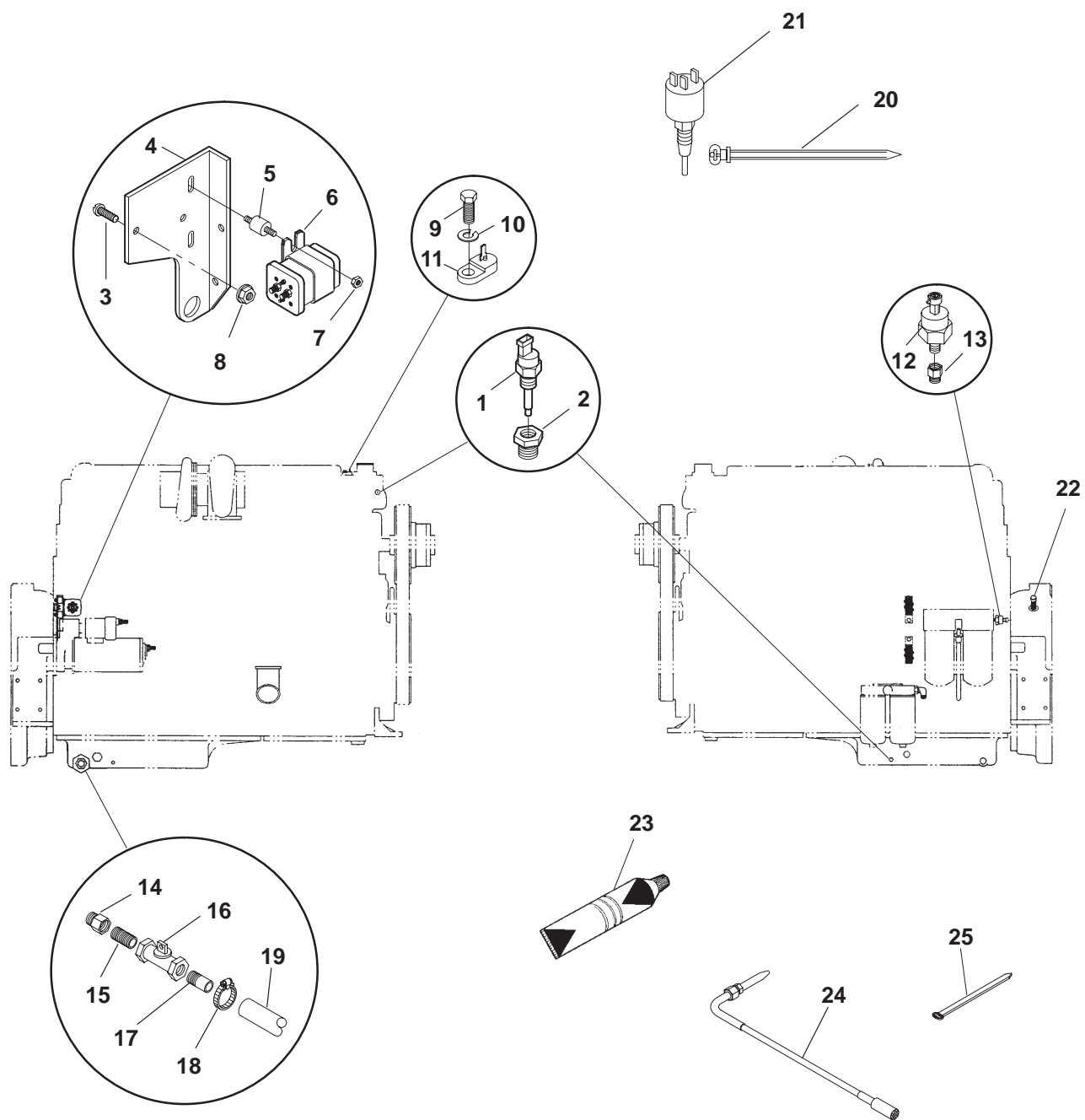


100-3237-01/02
179-2687
300-4445-02

**Miscellaneous Engine Parts
(DFBC, DFBD, DFBE, DFBF, DFCE, DFCC)
NT855, NTA855 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2634	4	Clamp, J	15	402-0610	2	Isolator, Vibration
2	526-0018	1	Washer, Flat (1/4")	16	307-2621-02	1	Solenoid, Pilot – Starter
3	193-0446-01	1	Sender, Exhaust Gas Temperature (12" Long)	17	193-0444	1	Sender, Pressure – Oil
4	801-0048	1	Screw, Cap – Hex Head (3/8-24 x 3/4")	18	800-0048	3	Screw, Cap – Hex Head (3/8-16 x 3/4")
5	850-0050	5	Washer, Lock (3/8")	19	505-1503	1	Adapter, Pipe
6			Bushing, Reducer	20	508-0292	1	Washer, Sealing
	505-0019	1	DFBC, DFBD, DFBE, DFBF (1/2" x 3/8")	21	102-1335	1	Adapter
	505-0131	1	DFCB, DFCC (3/4" x 3/8")	22	505-0050	1	Elbow, Street – 90 Degree (1/2")
7	193-0432	2	Sender, Temperature	23	505-0100	1	Nipple, Close (1/2" x 1-1/8")
8	309-0269	1	Switch, Temperature – Low Engine	24	504-0011	1	Valve, Shutoff (1/2")
9	856-0010	1	Washer, EIT Lock (3/8")	25	505-0185	2	Nipple, Half (1/2" x 1-1/2")
10	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	26	503-0197	2	Clamp, Hose
11	870-0212	4	Nut, Lock (1/4-20)	27	503-0098	1	Hose, Drain – Bulk (3/4" ID) (Order by the Foot – 3 Feet Required)
12	870-0183	2	Nut, Lock – W/ET (#6-32)	28	518-0548-15	1	Clip
13	319-2236	1	Bracket, Solenoid – Pilot	29	193-0322	1	Sender, Low Coolant
14	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	30	151-0411	1	Pickup, Magnetic
				31	518-0601	1	Sealant, Thread

Miscellaneous Engine Parts (DFEB, DFEC, DFED, DFFA, DFFB) KTA19, KTTA19 Engine

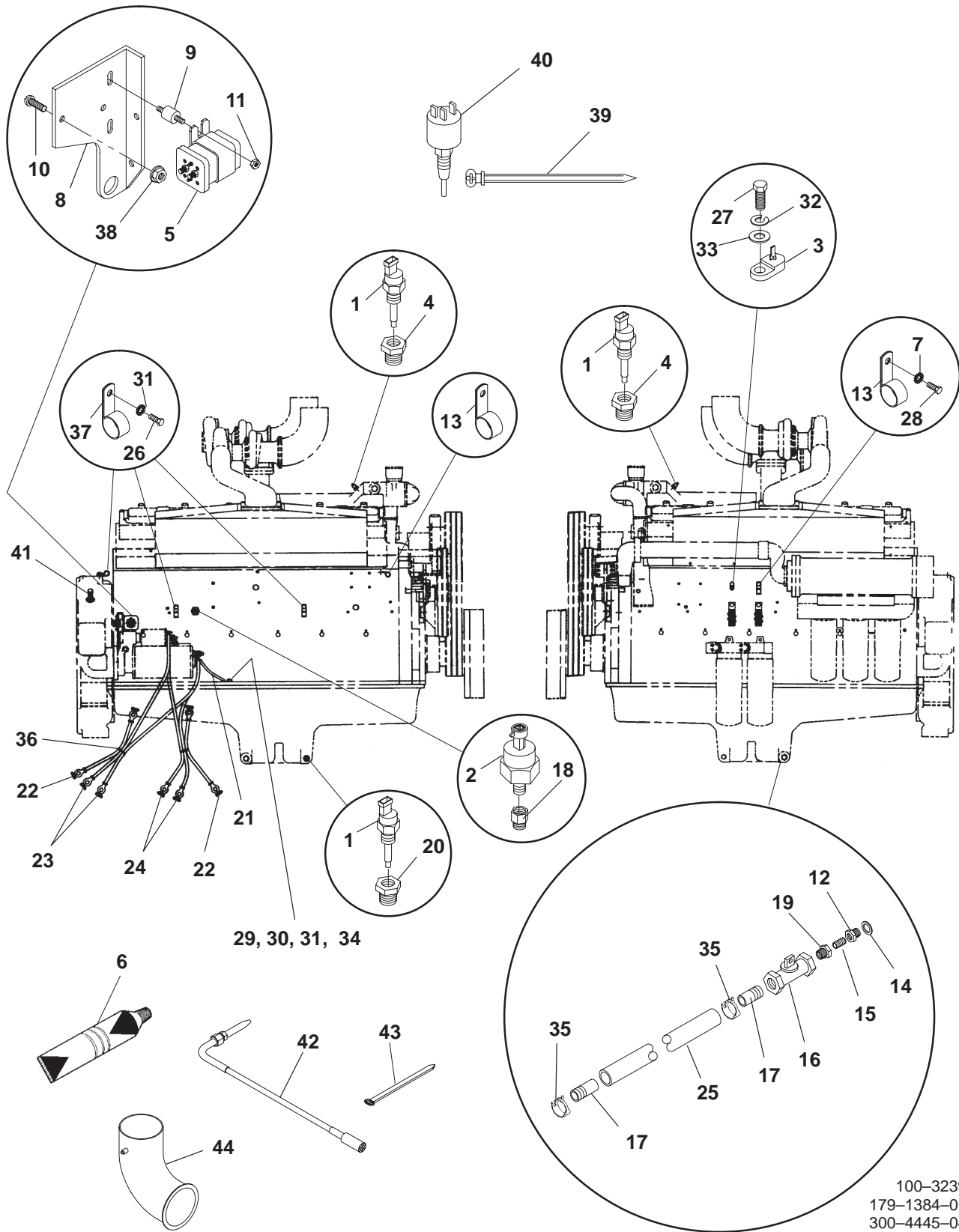


100-3236
179-2679-01
300-4445-03

**Miscellaneous Engine Parts
(DFEB, DFEC, DFED, DFFA, DFFB)
KTA19, KTTA19 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	2	Sender, Temperature	14	505-1433	1	Adapter, Pipe
2	505-0019	2	Bushing, Reducer (1/2" x 3/8")	15	505-0102	1	Nipple, Pipe (3/4" x 1-3/8")
3	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	16	504-0171	1	Valve, Shutoff
4	319-2236	1	Bracket, Solenoid – Pilot	17	505-0324	1	Nipple, Half (3/4" x 2")
5	402-0610	2	Isolator, Vibration	18	503-0189	1	Clamp, Hose
6	307-2621-02	1	Solenoid, Pilot – Starter	19	503-1731	1	Hose, Drain – Bulk (1" ID) (Order by the Foot – 2 Feet Required)
7	870-0212	4	Nut, Lock (1/4-20)				
8	870-0183	2	Nut, Hex w/ET (#6-32)	20	332-1389	1	Tie, Cable (Use as Required)
9	800-0062	1	Screw, Cap – Hex Head (3/8-16 x 4")	21	193-0322	1	Sender, Low Coolant
10	850-0050	1	Washer, Lock (3/8")	22	151-0411	1	Pickup, Magnetic
11	309-0269	1	Switch, Temperature Low Engine	23	518-0601	1	Sealant, Thread
12	193-0444	1	Sender, Oil Pressure	24	193-0446	1	Sender, Exhaust Gas Temperature (22-1/2" Long)
13	505-0007	1	Reducer, Bushing	25	332-1445	1	Tie, Cable (Use as Required)

Miscellaneous Engine Parts (DFGA, DFGB, DFGC) VTA28 Engine

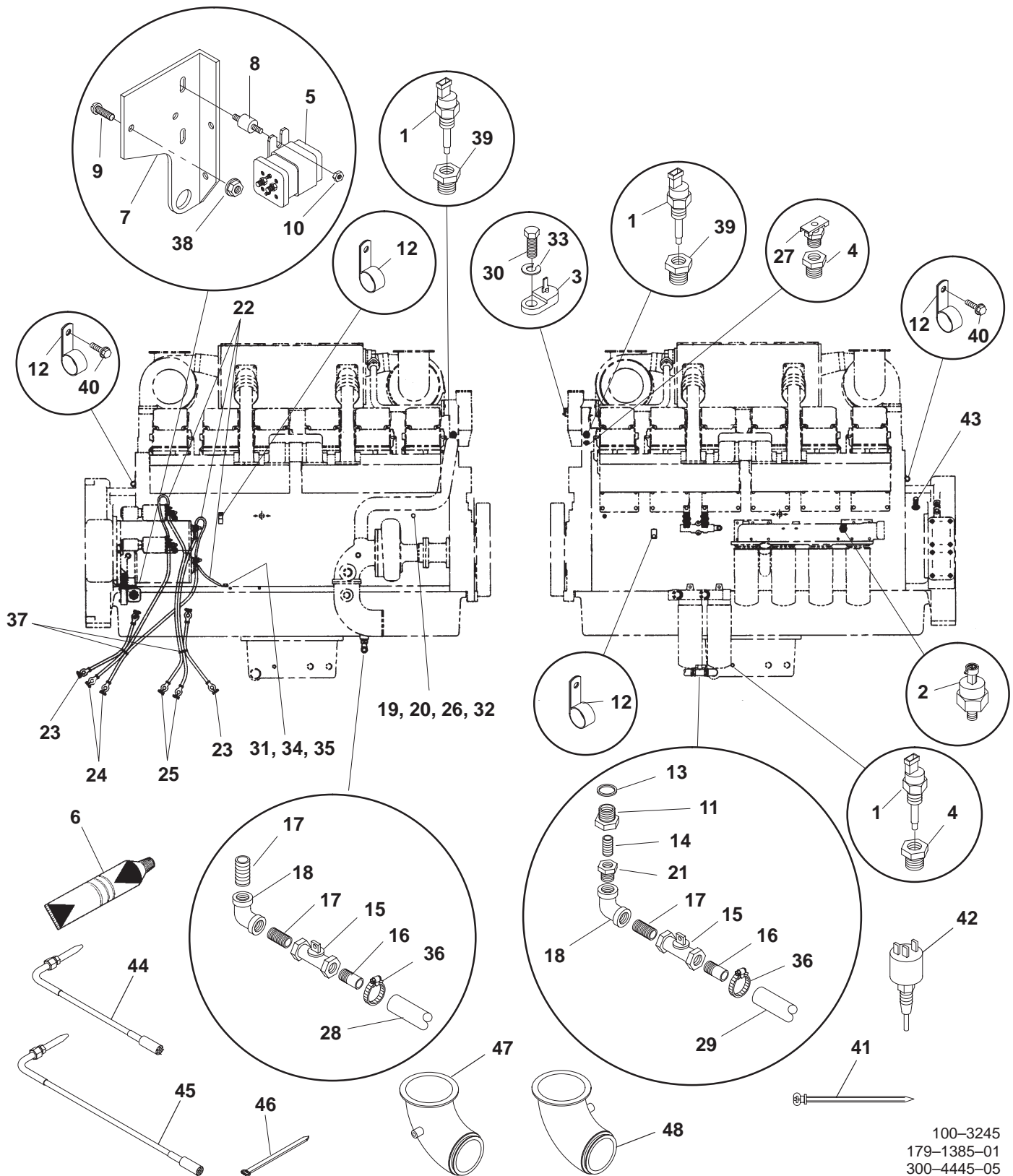


100-3239
179-1384-01
300-4445-04

**Miscellaneous Engine Parts
(DFGA, DFGB, DFGC)
VTA28 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Temperature (S2)	26	800-0090	3	Screw, Cap – Hex Head (1/2-13 x 1")
2	193-0444	1	Sender, Pressure – Oil (S1)	27	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
3	309-0269	1	Switch, Temperature – Low Engine (S4)	28	821-0029	1	Screw, Locking Head (3/8" x 3/4")
4	505-0019	2	Bushing, Reducer (1/2" x 3/8")	29	800-0093	1	Screw, Cap – Hex Head (1/2-13 x 1-3/4")
5	307-2621-02	1	Solenoid, Pilot – Starter	30	850-0060	1	Washer, Lock (1/2")
6	518-0601	1	Sealant, Thread	31	856-0013	4	Washer, Lock – EIT (1/2")
7	856-0010	3	Washer, Lock – EIT (3/8")	32	850-0050	1	Washer, Lock (3/8")
8	319-2236	1	Bracket, Solenoid – Pilot	33	526-0174	1	Washer, Flat (3/8")
9	402-0610	2	Isolator, Vibration	34	862-0016	1	Nut, Hex (1/2-13)
10	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	35	503-0189	2	Clamp, Hose
11	870-0212	4	Nut, Lock (1/4-20)	36	332-0941	1	Tie, Cable (Use as Required)
12	102-1335	1	Plug, Drain – Oil	37	332-2921	3	Clamp, J
13	332-2634	2	Clamp, J	38	870-0183	2	Nut, Hex – W/ET (#6-32)
14	508-0292	1	Ring, Sealing	39	332-1389	1	Tie, Cable, Self-Locking (Use as Required)
15	505-0100	1	Nipple, Close (1/2" x 1-1/8")	40	193-0322	1	Sender, Low Coolant
16	504-0171	1	Valve, Shutoff	41	151-0411	1	Pickup, Magnetic
17	505-0324	1	Nipple, Half (3/4" x 2")	42	193-0446	2	Sender, Exhaust Gas Temperature (22-1/2" Long)
18	505-1503	1	Adapter, Pipe (1/8")	43	332-1445	1	Tie, Cable (Use as Required)
19	505-0021	1	Bushing, Reducer (3/4" x 1/2")	44	155-2846	1	Elbow, Exhaust Outlet
20	505-0131	1	Bushing, Reducer (3/4" x 3/8")				
21	416-0680	1	Cable, Starter				
22	416-0446	2	Cable, Jumper				
23	416-0639	2	Cable, Battery – Positive				
24	416-0964	2	Cable, Battery – Negative				
25	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot, 3 Feet Required)				

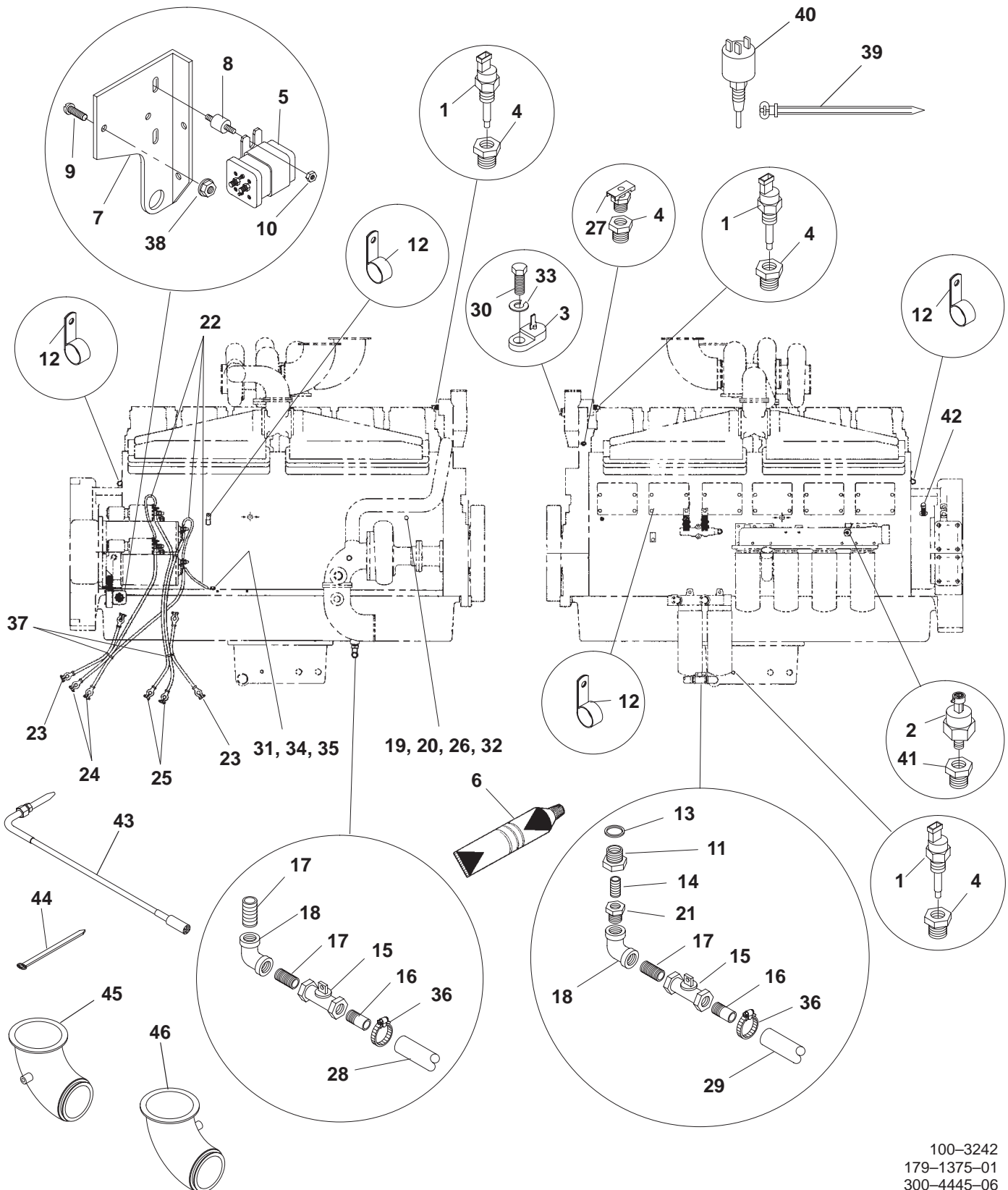
Miscellaneous Engine Parts (DFJA, DFJB) KTA38 Engine



**Miscellaneous Engine Parts
(DFJA, DFJB)
KTA38 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Temperature (S2)	29	503-1731	1	Hose, Drain (1" ID) – Bulk
2	193-0444	1	Sender, Pressure – Oil (S1)				(Order by the Foot – 3 Feet
3	309-0269	1	Switch, Temperature – Low				Required)
			Engine (S4)	30	800-0061	1	Screw, Cap – Hex Head
4	505-0019	2	Bushing, Reducer (1/2" x 3/8")				(3/8-16 x 3-3/4")
5	307-2621-02	1	Solenoid, Pilot – Starter	31	800-0090	1	Screw, Cap – Hex Head
6	518-0601	1	Sealant, Thread				(1/2-13 x 1")
7	319-2236	1	Bracket, Solenoid – Pilot	32	800-0059	4	Screw, Cap – Hex Head
8	402-0610	2	Isolator, Vibration				(3/8-16 x 3-1/4")
9	812-0067	2	Screw, Machine – Round Head	33	850-0050	1	Washer, Lock (3/8")
			(#6-32 x 7/8")	34	850-0060	1	Washer, Lock (1/2")
10	870-0212	4	Nut, Lock (1/4-20)	35	856-0013	1	Washer, EIT (1/2")
11	102-1335	1	Plug, Drain – Oil	36	503-0189	2	Clamp, Hose
12	332-2634	3	Clamp, J	37	332-0941	1	Tie, Cable (Use as Required)
13	508-0292	1	Washer, Sealing	38	870-0183	2	Nut, Hex – W/ET (#6-32)
14	505-0100	1	Nipple, Close (1/2" x 1-1/8")	39	505-0131	2	Bushing, Reducer (3/4" x 3/8")
15	504-0171	2	Valve, Shutoff	40	821-0033	2	Screw, Locking Head
16	505-0324	2	Nipple, Half (3/4" x 2")	41	332-1389	1	Tie, Cable (Use as Required)
17	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")	42	193-0322	1	Sender, Low Coolant
18	505-0132	2	Elbow, 90 Degree (3/4")	43	151-0411	1	Pickup, Magnetic
19	505-0071	1	Nipple, Pipe (1/4" x 2")	44	193-0446-01	1	Sender, Exhaust Gas
20	505-0027	1	Coupling (1/4 NPT)				Temperature (12" Long)
21	505-0021	1	Bushing, Reducer (3/4" x 1/2")	45	193-0446-03	1	Sender, Exhaust Gas
22	416-0680	3	Cable, Starter				Temperature (50" Long)
23	416-0446	2	Cable, Jumper	46	332-1445	1	Tie, Cable (Use as Required)
24	416-0639	2	Cable, Battery – Positive	47	155-2531-01	1	Elbow, Exhaust Outlet
25	416-0964	2	Cable, Battery – Negative	48	155-2531-04	1	Elbow, Exhaust Outlet
26	130-3660-02	4	Spacer (1-3/4" Long)				
27	504-0028	1	Cock, Drain (3/8")				
28	503-1731	1	Hose, Drain (1" ID) – Bulk				
			(Order by the Foot – 2 Feet				
			Required)				

Miscellaneous Engine Parts (DFJC, DFJD) KTA38 Engine

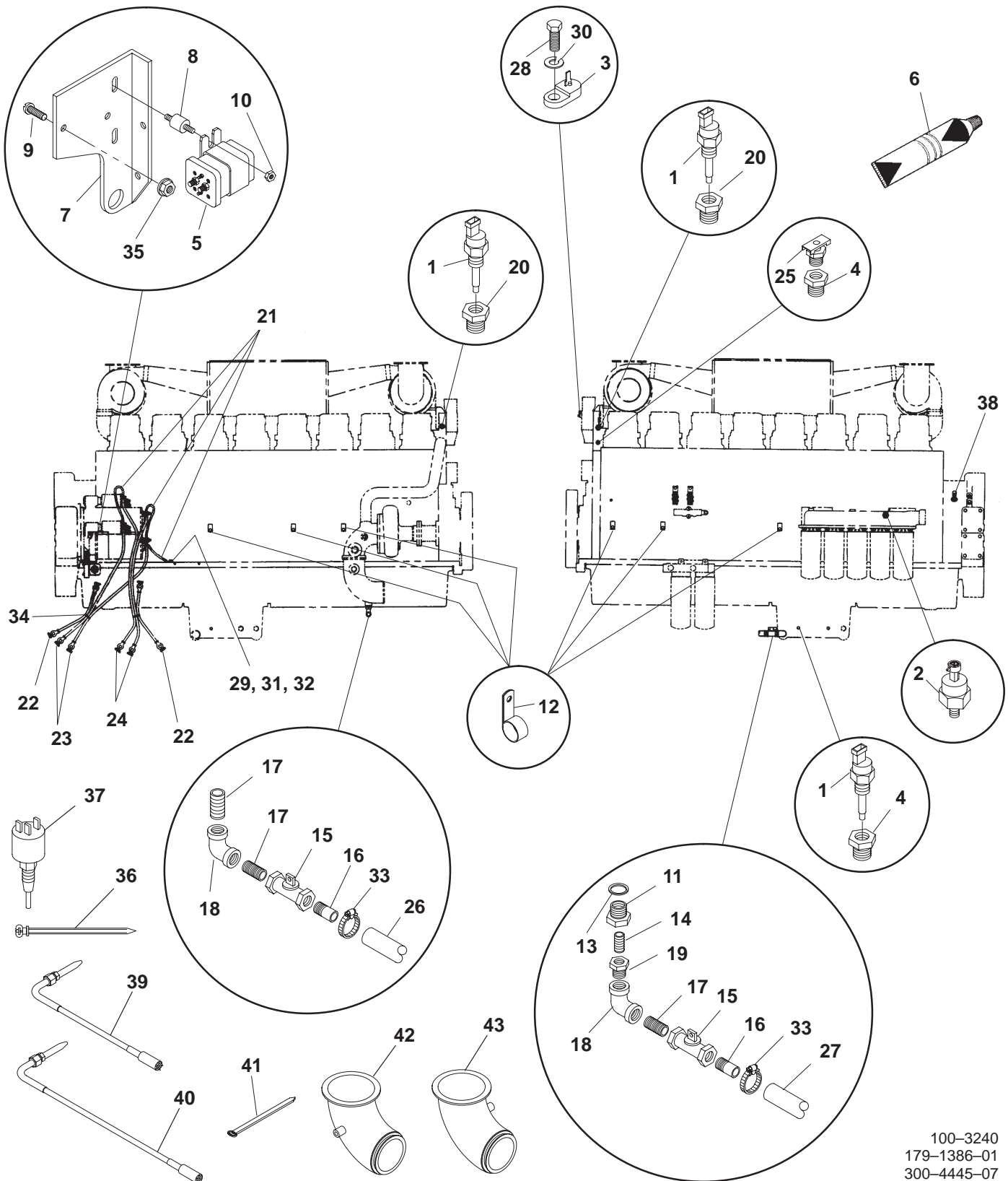


100-3242
179-1375-01
300-4445-06

**Miscellaneous Engine Parts
(DFJC, DFJD)
KTA38 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Temperature (S2)	27	504-0028	1	Cock, Drain (3/8")
2	193-0444	1	Sender, Pressure – Oil (S1)	28	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 2 Feet Required)
3	309-0269	1	Switch, Temperature – Low Engine (S4)	29	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 3 Feet Required)
4	505-0019	4	Bushing, Reducer (1/2" x 3/8")	30	800-0061	1	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
5	307-2621-02	1	Solenoid, Pilot – Starter	31	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")
6	518-0601	1	Sealant, Thread	32	800-0059	4	Screw, Cap – Hex Head (3/8-16 x 3-1/4")
7	319-2236	1	Bracket, Solenoid – Pilot	33	850-0050	1	Washer, Lock (3/8")
8	402-0610	2	Isolator, Vibration	34	850-0060	1	Washer, Lock (1/2")
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	35	856-0013	1	Washer, EIT (1/2")
10	870-0212	4	Nut, Lock (1/4-20)	36	503-0189	2	Clamp, Hose
11	102-1335	1	Plug, Drain – Oil	37	332-0941	1	Tie, Cable (Use as Required)
12	332-2634	3	Clamp, J	38	870-0183	2	Nut, Hex – W/ET (#6-32)
13	508-0292	1	Washer, Sealing	39	332-1389	1	Tie, Cable (Use as Required)
14	505-0100	1	Nipple, Close (1/2" x 1-1/8")	40	193-0322	1	Sender, Low Coolant
15	504-0171	2	Valve, Shutoff	41	505-0007	1	Bushing, Reducer (1/4" x 1/8")
16	505-0324	2	Nipple, Half (3/4" x 2")	42	151-0411	1	Pickup, Magnetic
17	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")	43	193-0446-02	2	Sender, Exhaust Gas Temperature (30" Long)
18	505-0132	2	Elbow, 90 deg. (3/4")	44	332-1445	1	Tie, Cable (Use as Required)
19	505-0071	1	Nipple, Pipe (1/4" x 2")	45	155-2531-01	1	Elbow, Exhaust Outlet
20	505-0027	1	Coupling (1/4 NPT)	46	155-2531-04	1	Elbow, Exhaust Outlet
21	505-0021	1	Bushing, Reducer (3/4" x 1/2")				
22	416-0680	3	Cable, Starter				
23	416-0446	2	Cable, Jumper				
24	416-0639	2	Cable, Battery – Positive				
25	416-0964	2	Cable, Battery – Negative				
26	130-3660-02	4	Spacer (1-3/4" Long)				

Miscellaneous Engine Parts (DFLA, DFLB) KTA50 Engine

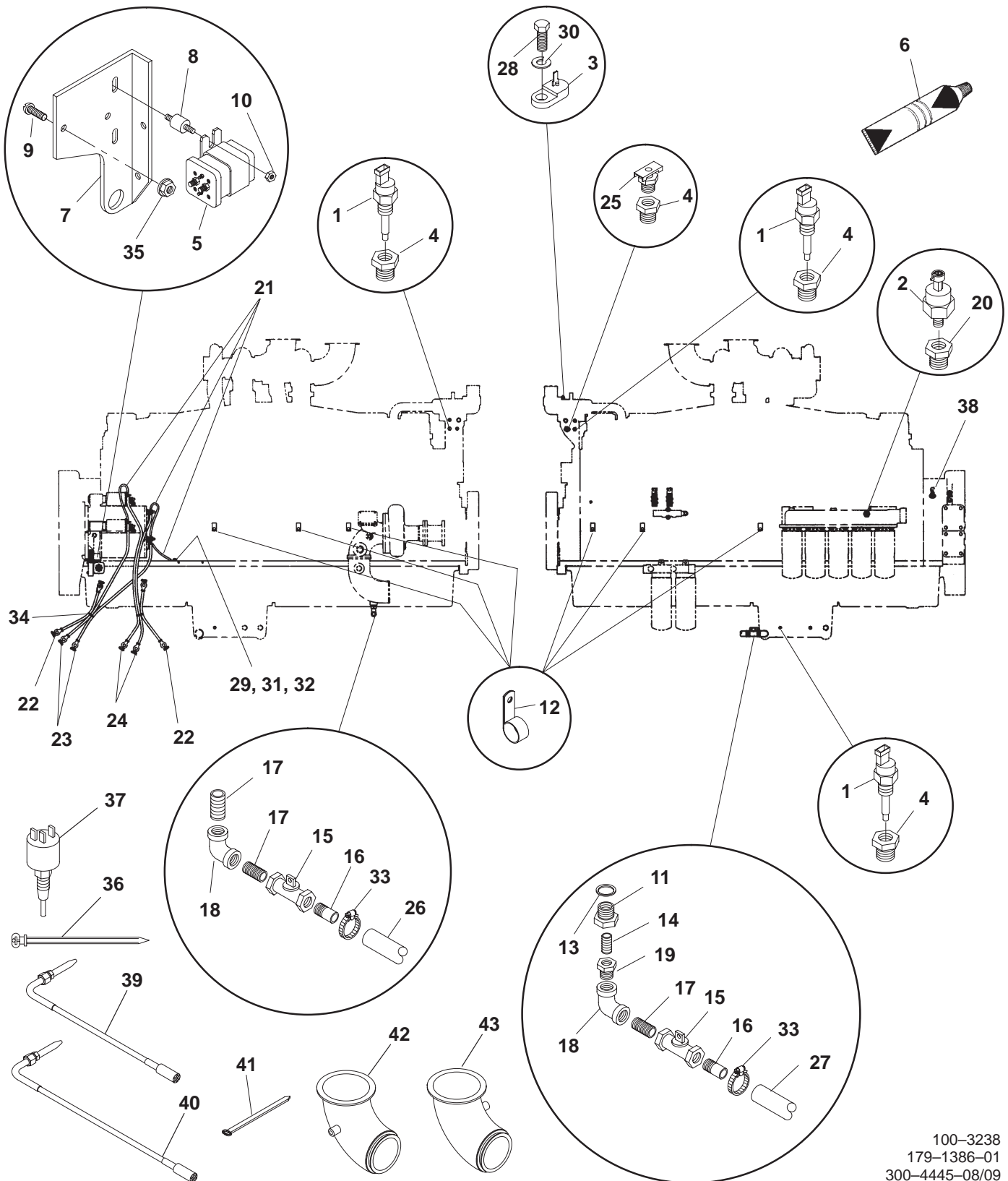


100-3240
179-1386-01
300-4445-07

**Miscellaneous Engine Parts
(DFLA, DFLB)
KTA50 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Temperature (S2)	26	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 2 Feet Required)
2	193-0444	1	Sender, Pressure – Oil (S1)				
3	309-0269	1	Switch, Temperature – Low Engine (S4)	27	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 3 Feet Required)
4	505-0019	2	Bushing, Reducer (1/2 x 3/8")				
5	307-2621-02	1	Solenoid, Pilot – Starter	28	800-0061	1	Screw, Cap – Hex Head (3/8-16 x 3-3/4")
6	518-0601	1	Sealant, Thread	29	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")
7	319-2236	1	Bracket, Solenoid – Pilot				
8	402-0610	2	Isolator, Vibration	30	850-0050	1	Washer, Lock (3/8")
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	31	850-0060	1	Washer, Lock (1/2")
10	870-0212	4	Nut, Lock (1/4-20)	32	856-0013	1	Washer, Lock – EIT (1/2")
11	102-1335	1	Plug, Drain – Oil	33	503-0189	2	Clamp, Hose
12	332-2634	6	Clamp, J	34	332-0941	4	Tie, Cable
13	508-0292	1	Washer, Sealing	35	870-0183	2	Nut, Hex – W/ET (#6-32)
14	505-0100	1	Nipple, Close (1/2 "x 1-1/8")	36	332-3008	1	Tie, Cable (Use as Required)
15	504-0171	2	Valve, Shutoff	37	193-0322	1	Sender, Low Coolant
16	505-0324	2	Nipple, Half (3/4" x 2")	38	151-0411	1	Pickup, Magnetic
17	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")	39	193-0446-01	1	Sender, Exhaust Gas Temperature (12" Long)
18	505-0132	2	Elbow, 90 Degree (3/4")				
19	505-0021	1	Bushing, Reducer (3/4" x 1/2")	40	193-0446-02	1	Sender, Exhaust Gas Temperature (30" Long)
20	505-0131	2	Bushing, Reducer (3/4" x 3/8")				
21	416-0680	3	Cable, Starter	41	332-1445	1	Tie, Cable (Use as Required)
22	416-0446	2	Cable, Jumper	42	155-2531-02	1	Elbow, Exhaust Outlet
23	416-0639	2	Cable, Battery – Positive	43	155-2531-05	1	Elbow, Exhaust Outlet
24	416-0964	2	Cable, Battery – Negative				
25	504-0028	1	Cock, Drain				

**Miscellaneous Engine Parts
(DFLC, DFLD, DFMB)
KTA50, KTTA50 Engine**

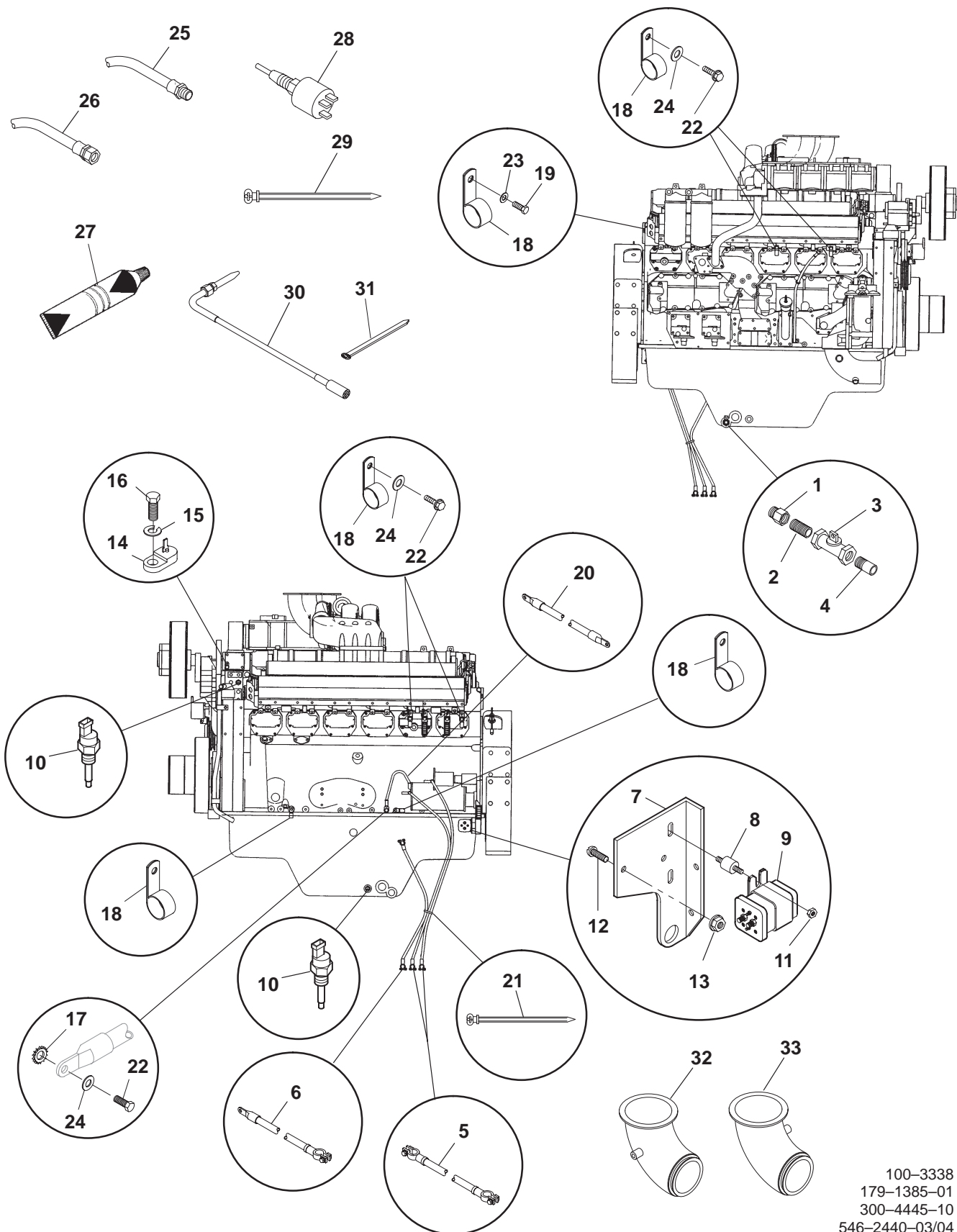


100-3238
179-1386-01
300-4445-08/09

**Miscellaneous Engine Parts
(DFLC, DFLD, DFMB)
KTA50, KTTA50 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0432	3	Sender, Temperature (S2)	26	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 2 Feet Required)
2	193-0444	1	Sender, Pressure – Oil (S1)	27	503-1731	1	Hose, Drain (1" ID) – Bulk (Order by the Foot – 3 Feet Required)
3	309-0269	1	Switch, Temperature – Low Engine (S4)	28	800-0052	1	Screw, Cap – Hex Head (3/8-16 x 1-1/2")
4	505-0019	4	Bushing, Reducer (1/2" x 3/8")	29	800-0090	1	Screw, Cap – Hex Head (1/2-13 x 1")
5	307-2621-02	1	Solenoid, Pilot – Starter	30	850-0050	1	Washer, Lock (3/8")
6	518-0601	1	Sealant, Thread	31	850-0060	1	Washer, Lock (1/2")
7	319-2236	1	Bracket, Solenoid – Pilot	32	856-0013	1	Washer, Lock – EIT (1/2")
8	402-0610	2	Isolator, Vibration	33	503-0189	2	Clamp, Hose
9	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	34	332-0941	1	Tie, Cable (Use as Required)
10	870-0212	4	Nut, Lock (1/4-20)	35	870-0183	2	Nut, Hex – W/ET (#6-32)
11	102-1335	1	Plug, Drain – Oil	36	332-3008	1	Tie, Cable (Use as Required)
12	332-2634	6	Clamp, J	37	193-0322	1	Sender, Low Coolant
13	508-0292	1	Washer, Sealing	38	151-0411	1	Pickup, Magnetic
14	505-0100	1	Nipple, Close (1/2" x 1-1/8")	39	193-0446-02	1	Sender, Exhaust Gas Temperature (30" Long)
15	504-0171	2	Valve, Shutoff	40	193-0446-03	1	Sender, Exhaust Gas Temperature (50" Long)
16	505-0324	2	Nipple, Half (3/4" x 2")	41	332-1445	1	Tie, Cable (Use as Required)
17	505-0102	3	Nipple, Pipe (3/4" x 1-3/8")	42	155-2531-03	1	Elbow, Exhaust Outlet (DFLC, DFLD)
18	505-0132	2	Elbow, 90 Degree (3/4")	43	155-2531-06	1	Elbow, Exhaust Outlet (DFLC, DFLD)
19	505-0021	1	Bushing, Reducer (3/4" x 1/2")				
20	505-0007	2	Bushing, Reducer (3/4" x 3/8")				
21	416-0680	3	Cable, Starter				
22	416-0446	2	Cable, Jumper				
23	416-0639	2	Cable, Battery – Positive				
24	416-0964	2	Cable, Battery – Negative				
25	504-0028	1	Cock, Drain				

External Engine Parts (DFHA, DFHB, DFHC) QST30 Engine

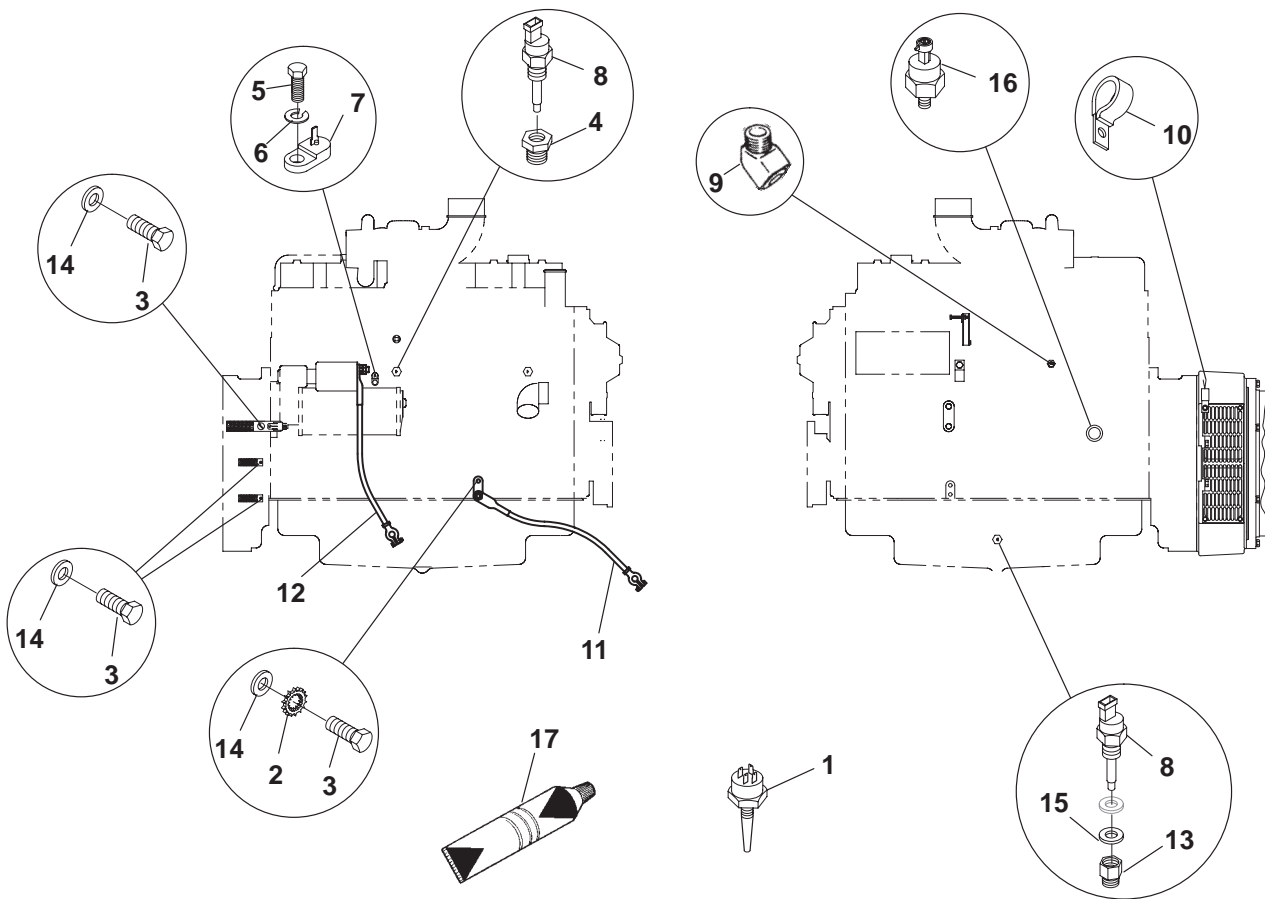


100-3338
179-1385-01
300-4445-10
546-2440-03/04

**Miscellaneous Engine Parts
(DFHA, DFHB, DFHC)
QST30 Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	505-1508	1	Adapter, Pipe (M27 to 3/4")	19	800-2110	2	Screw, Cap – Hex Head (M12 x 20mm)
2	505-0102	1	Nipple, Close (3/4" x 1-3/8")	20	416-0680	1	Cable, Starter
3	504-0171	1	Valve, Shutoff	21	332-0941	1	Tie, Cable (Use As Required)
4	505-0324	1	Nipple, Half (3/4" x 2")	22	800-2085	7	Screw, Cap – Hex Head (M10 x 20mm)
5	416-0639	2	Cable, Battery – Positive	23	526-2140	2	Washer, Flat (M12)
6	416-0446	1	Cable, Jumper – Negative	24	526-2120	7	Washer, Flat (M10)
7	319-2236	1	Bracket, Pilot Solenoid	25	501-0522	1	Line, Flex Fuel (Fuel In)
8	402-0610	2	Isolator, Vibration	26	501-0520	1	Line, Flex Fuel (Fuel Out)
9	307-2621-02	1	Solenoid, Pilot (24 Volt) (K4)	27	518-0601	1	Sealant, Thread
10	193-0465	2	Sender, Oil Temperature (E4)	28	193-0322	1	Sender, Low Coolant Level (S7)
11	870-0212	4	Nut, Locking – Flange (1/4-20)	29	332-1389	1	Tie, Cable (Use as Required)
12	812-0067	2	Screw, Machine – Round Head (#6-32 x 7/8")	30	193-0446	2	Sender, Exhaust Gas Temperature (12" Long)
13	870-0183	2	Nut, Locking – Flange W/ET (#6-32)	31	332-1445	1	Tie, Cable (Use as Required)
14	309-0269	1	Switch – Low Engine Temperature (S4)	32	155-2531-01	1	Elbow, Exhaust Outlet
15	850-2010	1	Washer, Lock – Spring (M10)	33	155-2531-04	1	Elbow, Exhaust Outlet
16	800-2088	1	Screw, Cap – Hex Head (M10 x 35mm)	Note: Oil Pressure Sender is Supplied by the Engine Manufacturer			
17	856-0010	1	Washer, Lock – W/ET (M10)				
18	332-2634	8	Clamp, J				

Miscellaneous Engine Parts (DGEA, DGFA, DGFB, DGFC) 6C Engine

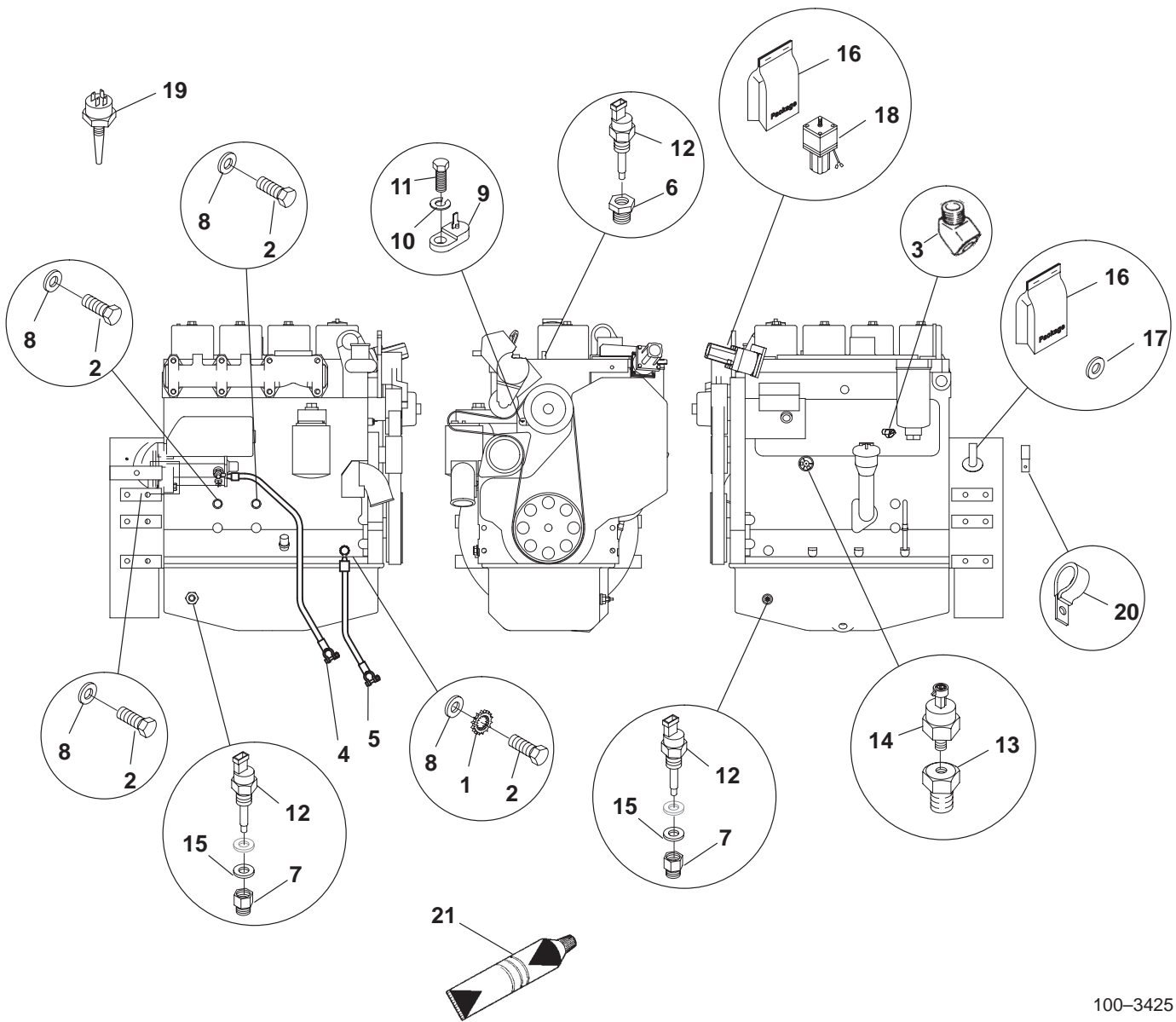


100-3427

**Miscellaneous Engine Parts
(DGEA, DGFA, DGFB, DGFC)
6C Engine**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	193-0467	1	Sender, Low Coolant	8	193-0432	2	Sender, Temperature
2	856-0013	1	Washer, Lock – EIT (1/2")	9	502-0199	1	Elbow, Male – 45 Degrees
3	800-2111	4	Screw, Cap – Hex Head (M12 x 1-3/4" x 25)	10	332-3196	1	Clamp, "J"
4	505-0019	1	Bushing, Reducer (1/2" x 3/8")	11	416-1000	1	Cable, Battery – Negative
5	800-2058	1	Screw, Cap – Hex Head (M8 x 1-1/4" x 25)	12	416-0619	1	Cable, Battery – Positive
6	850-2008	1	Washer, Lock – Spring (M8)	13	102-1448-02	1	Adapter, Drain – Oil
7	309-0269	1	Switch, Temperature – Low Engine	14	526-2140	4	Washer, Flat (M12)
				15	102-1356	1	Gasket, Drain – Oil
				16	193-0444	1	Sender, Pressure – Oil
				17	518-0601	1	Sealant, Thread

Miscellaneous Engine Parts **(DGBB, DGBC, DGCA, DGCB, DGCC, DGDA, DGDB)** **4B/6B Engine**

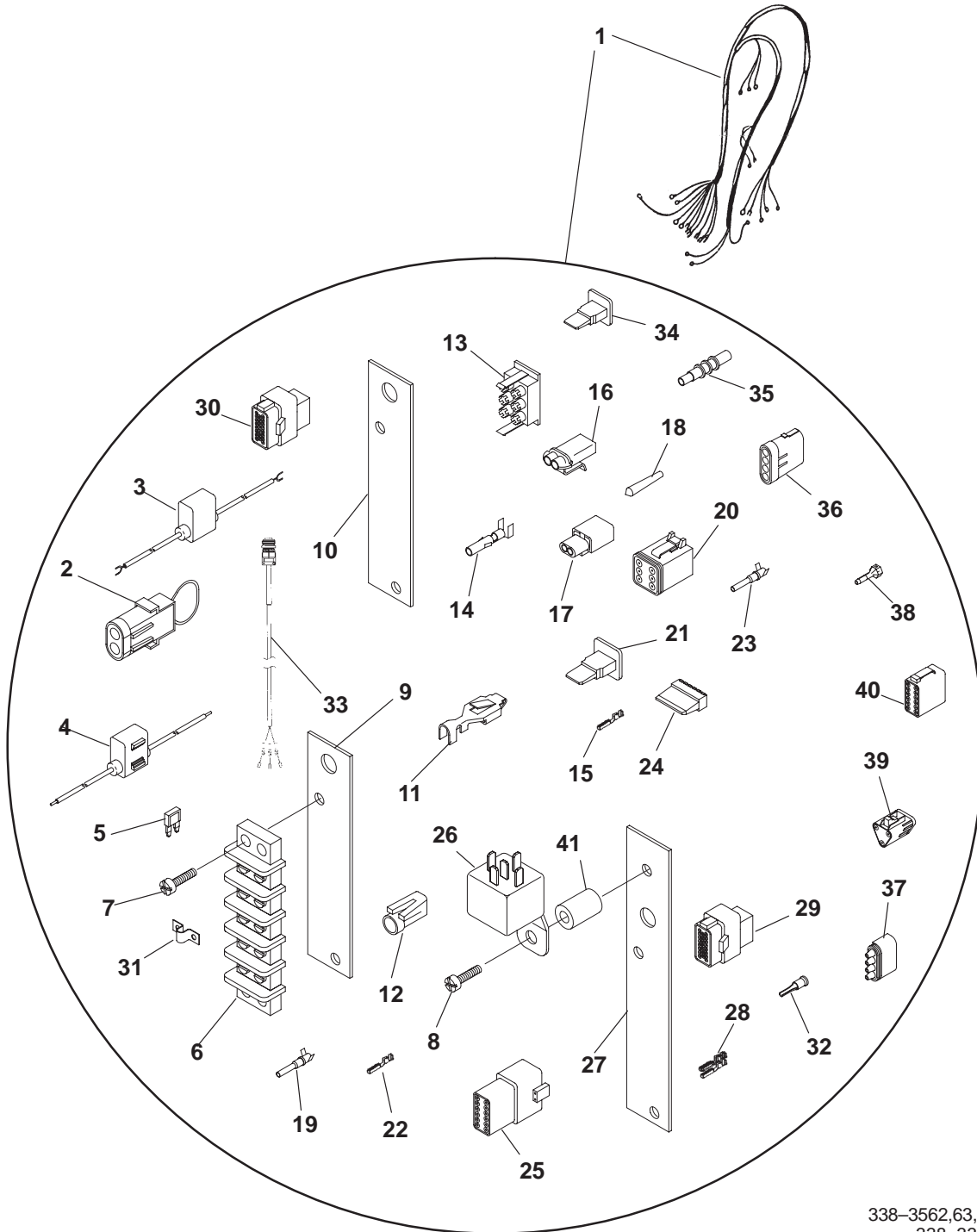


100-3425

Miscellaneous Engine Parts
(DGBB, DGBC, DGCA, DGCB, DGCC, DGDA, DGDB)
4B/6B Engine

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")	16	150-2578	11	Package, Governor – Mounting
2	800-2111	4	Screw, Cap – Hex Head (M12 x 1-3/4" x 25)				(Includes Actuator Mounting Bracket, M10 Bracket
3	502-0199	1	Elbow, Male – 45 Degrees				Screws, M10 Lock Washers,
4	416-1000	1	Cable, Battery – Positive				Actuator Shaft Clevis, Jam
5	416-0619	1	Cable, Battery – Negative				Nut Clevis, Male and Female
6	505-0019	1	Bushing, Reducer (1/2" x 3/8")				Rod End Bearings, 10-32
7	102-1448-02	1	Adapter, Drain – Oil				Screws, 10-32 Nuts, Actuator
8	526-2140	4	Washer, Flat (M12)				to Bracket Mounting Screws,
9	309-0269	1	Switch, Temperature – Low Engine				1/4" Lock Washers, 1/4-28
10	850-2008	1	Washer, Lock (M8)				Hex Nuts, Magnetic Pickup,
11	800-2058	1	Screw, Cap – Hex Head (M8 x 1-1/4" x 25)				Wire Lugs, and #10 Lock Washers)
12	193-0432	2	Sender, Temperature	17	526-0027	1	Washer, Flat (13/16")
13	505-1503	1	Adapter, Pipe	18	150-2331	1	Actuator, Linear
14	193-0444	1	Sender, Pressure – Oil	19	193-0467	1	Sender, Low Coolant
15	102-1356	1	Gasket, Drain – Oil	20	332-3196	1	Clamp, "J"
				21	518-0601	1	Sealant, Thread

Wiring Harness Engine



338-3562,63,64
338-3377

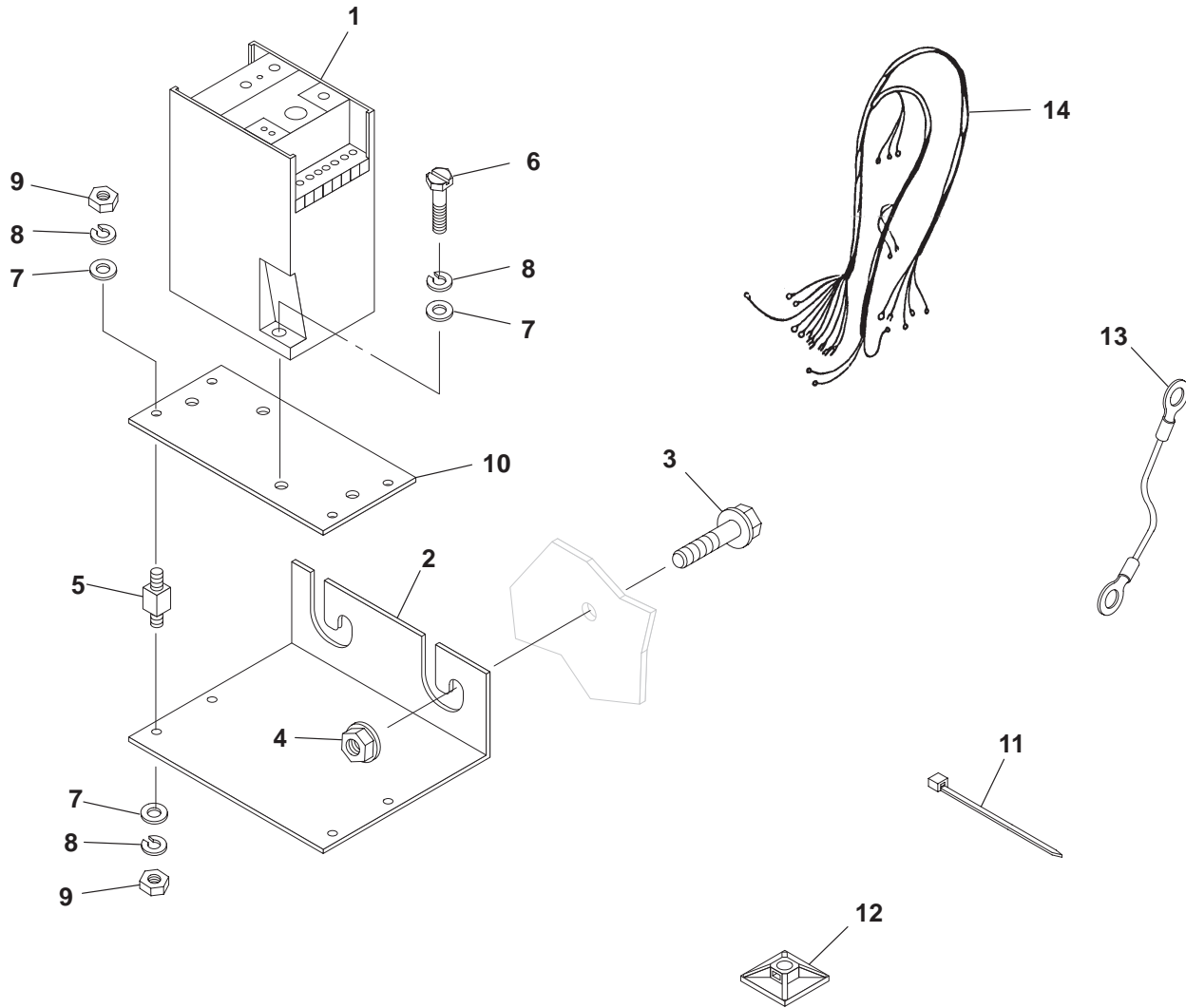
Wiring Harness Engine

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Harness, Wiring – Engine	16			Connector, Socket
	338–3562	1	* 4B Engine		323–1540	2	All Except KTA50, KTTA50, VTA28 (E2,E4)
	338–3563	1	* 6B Engine				
	338–3564	1	* 6C Engine		323–1540	3	KTA50, KTTA50, VTA28 (E2,E3,E4)
	338–2604	1	# NT855 and NTA855 Engine				
	338–2605	1	# KTA19 and KTTA19 Engine – HC4/5 Generator	17			Connector, Socket
					323–1637	1	All Except KTA38, LTA10, VTA28, QST30 (E6)
	338–2606	1	# KTA38 Engine				
	338–2607	1	# KTA50 and KTTA50 Engine		323–1637	2	KTA38, LTA10, VTA28, QST30 (E6) (E7)
	338–2938	1	# LTA10 Engine				
	338–3015	1	# VTA28 Engine – HC4/5 Generator	18	323–1615	AR	** Plug (P4, 5 & 6)
				19	323–1492	AR	** Socket, Female (P7)
	338–3038	1	# KTTA19 Engine – HC6/7 Generator	20	323–1623	1	** Plug (6 Pin) (P7)
				21	323–1624	1	** Wedge, Plug– 6 Pin (P7)
	338–3039	1	# VTA28 Engine – HC6/7 Generator	22	323–1648	AR	** Socket, Terminal
				23	323–1491	AR	** Pin, Terminal
	338–3377	1	# QST30 Engine – HC6 Generator	24	323–1581	1	** Wedge, Receptacle (12 Pin)
				25	323–1580	1	** Housing, Receptacle (J12)
2			Harness, Jumper	26	307–2817–01	1	* Relay
	338–3285	1	All Except KTA38, VTA28 and QST30	27	319–3180	1	* Bracket, Mounting
				28	323–1614–01	AR	** Socket, Contact (P4,P5,P6)
	338–3285	2	KTA38, VTA28 and QST30	29	323–1605–02	2	** Connector, Plug – 23 Pin (P4,P6)
3	321–0339	1	Holder Assembly, Fuse (Includes Fuse) – All Except 6B				
				30	323–1605–03	1	** Connector, Plug – 23 Pin (P5)
4	321–0349	1	Holder, Fuse – 6B	31	332–1043	4	** Jumper
5	321–0307–07	1	** Fuse (20 Amp)	32	332–3496	AR	Pin, Terminal (#10–12) – 4B, 6B, 6C, QST30
6	332–0604	4	** Block, Terminal – 5 Place (B1)				
				33	338–2592–01	1	Cable, Magnetic Pickup – All 24V Systems Except QST30
7	815–0538	6	* Screw, Machine – Round Head – Cross Recessed W/IT (#8–32 x 1/2")				
				34	323–1583	1	Wedge, Plug – 12 Pin (P13) – QST30
8	815–0839	2	* Screw, Pan Head – Cross Recessed W/ET (#10–32 x 3/8")				
				35	323–1760	1	Connector, Hole Plug – QST30
9	319–2006–01	1	** Bracket, Mounting – Terminal (26)	36	323–1759	1	Connector, Shroud – QST30
				37	323–1451	1	Connector (J11) – QST30
10	319–2006–02	1	** Bracket, Mounting – Terminal (GND)	38	323–1503	2	Wedge, Plug (3 Pin) – QST30
11	323–1667	1	** Socket, Terminal (E1)	39	323–1493	1	Plug (3 Pin) (P3) – QST30
12	323–1666	1	Connector, Socket (E1) – All Except QST30	40	323–1582	1	Plug (12 Pin) (P13) – QST30
				41	402–0510	1	Isolator, Vibration
13	323–1643–01	1	** Housing, Plug – 6 Circuit				
14	323–1444	AR	** Socket, Terminal (E6)				
15	332–3096–01	AR	** Terminal, Socket (E2,E4)				

* = 12V System

= 24V System

Ground Fault Alarm Relay



300-4582-01/02

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-2843	1	Relay, Ground Fault Alarm	10	319-0030	1	Plate, Transducer
2	301-6987	1	Bracket, Watts Transducer	11	332-1445	1	Tie, Wire (Use as Required)
3	821-0017	2	Screw, Hex Locking Washer Head (5/16-18 x 3/4")	12	332-2420	2	Mount, Cable Tie
4	870-0257	2	Nut, Self-Locking (5/16-18)	13	226-4406-06	2	Lead (#1 Wire, 1/2" Ring to 3/8" Ring - 24" Long) (From Generator Neutral to Generator Grounding Bolt)
5	402-0354	4	Mount, Shock (#8-32)	14			Harness, Wiring - Relay (GFA to TB1, Gen Neutral, GND)
6	812-0081	2	Screw, Round Head Steel Machine (#8-32 x 5/8")		338-3232	1	HC4/HC5 Generator
7	526-0003	10	Washer, Flat (#8)		338-3233	1	HC6/HC7 Generator
8	856-0002	10	Washer, Lock - EIT (#8)				
9	860-0008	8	Nut, Hex Steel Machine (#8-32)				

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