

Parts Manual

Generator Set

DNAC (Spec A–C)

DNAD (Spec A–C)

DNAE (Spec A–C)

DNAF (Spec A–E)

Introduction

This parts catalog applies to the standard generator sets listed below. Parts are arranged in groups of related items and each illustrated part is defined by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select parts that apply to your set. Right and left sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

Model Identification	Watts	Volts	Hertz	Wire	Phase	Battery Voltage
6.0DNAC/*	6000	Reconnectible	50	4/12	1/3	12V
7.5DNAC/*	7500	Reconnectible	60	4/12	1/3	12V
9.0DNAD/*	9000	Reconnectible	50	4/12	1/3	12V
11.5DNAD/*	11500	Reconnectible	60	4/12	1/3	12V
12.5DNAE/*	12500	Reconnectible	50	4/12	1/3	12V
16.0DNAE/*	16000	Reconnectible	60	4/12	1/3	12V
16.7DNAF	16700	Reconnectible	50	4/12	1/3	12V
20.0DNAF/*	20000	Reconnectible	60	4/12	1/3	12V

* – The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A, to B, to C, etc.) with major manufacturing changes

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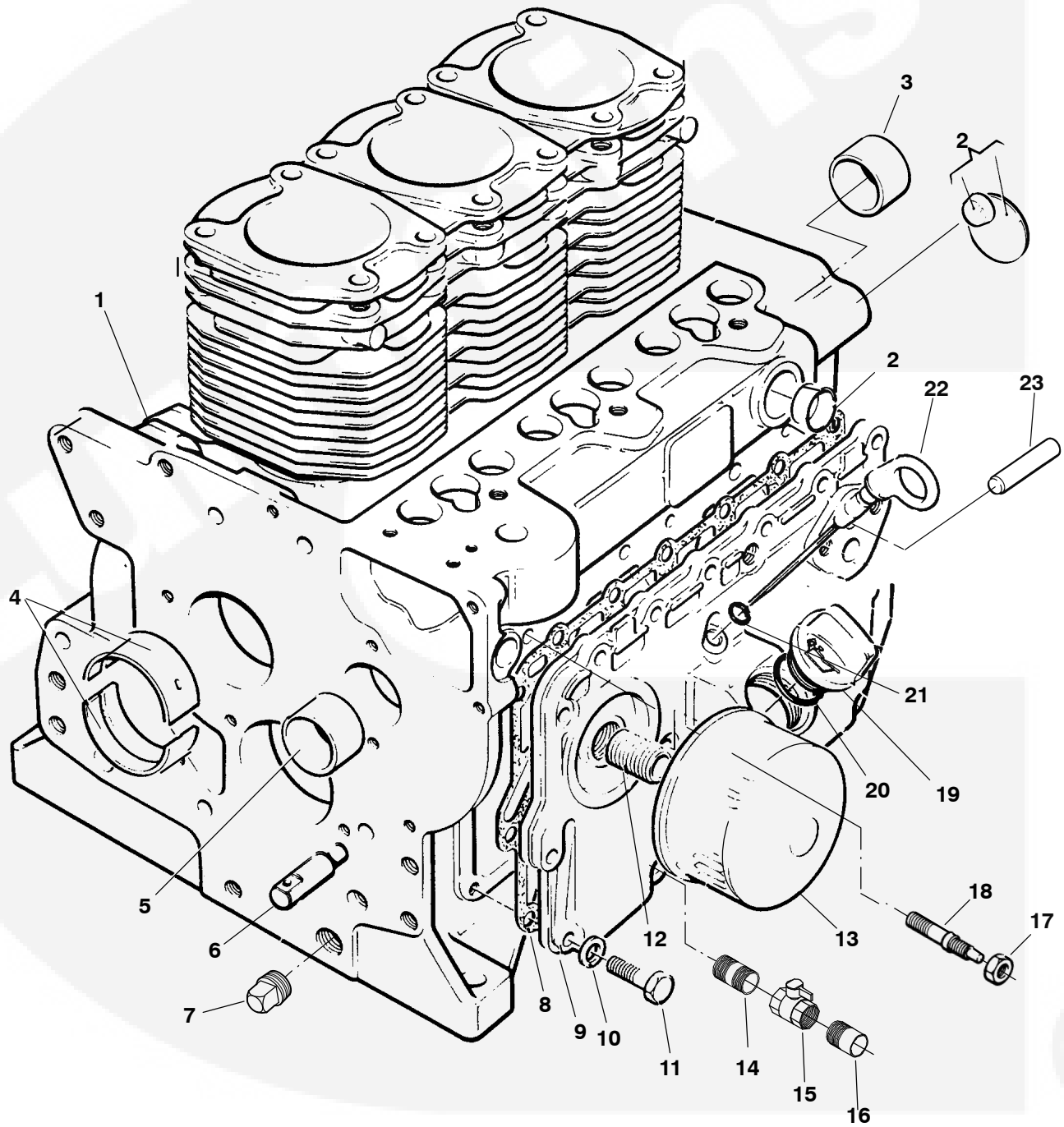
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Cylinder Block

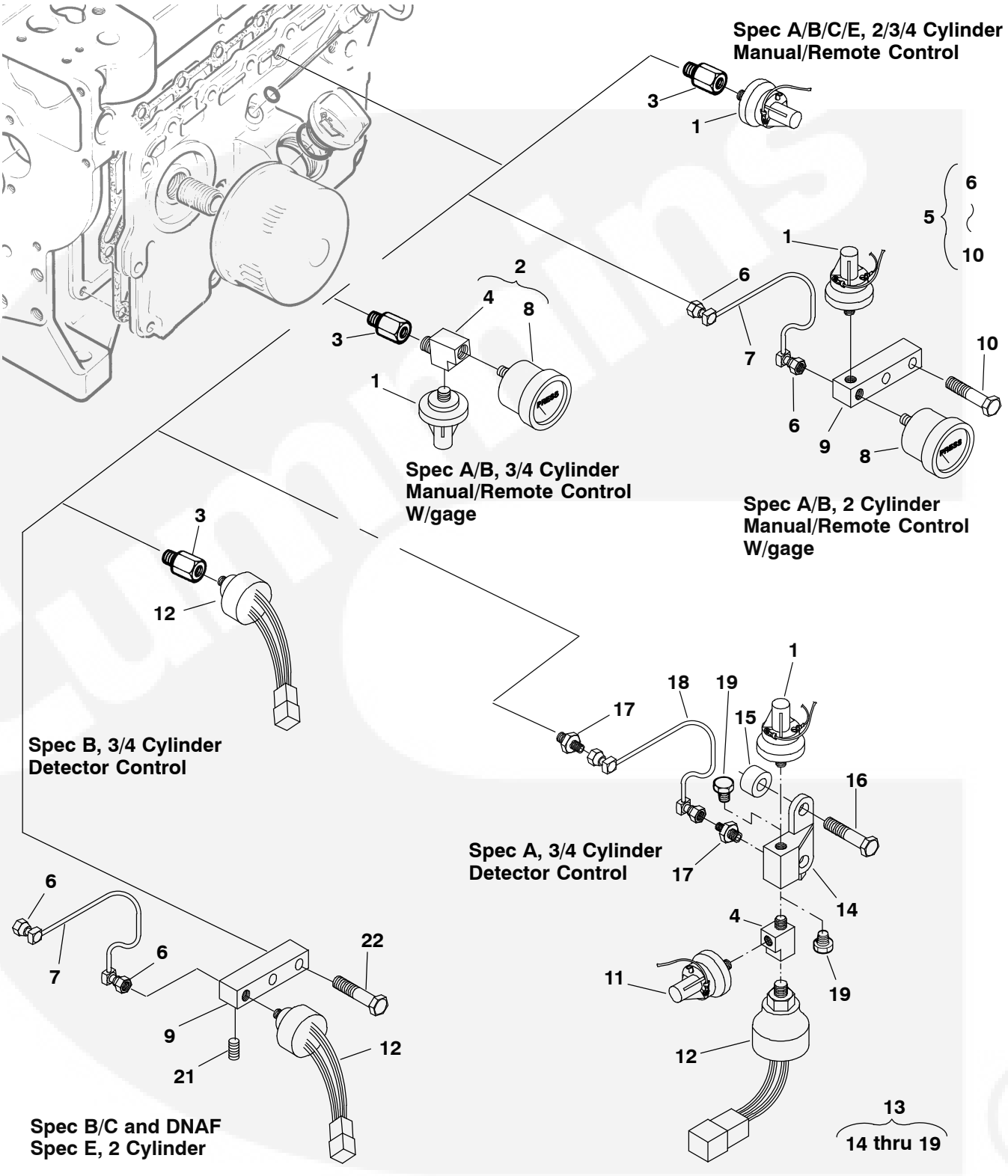


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Engine, Replacement	8			Gasket, Side Cover
			DNAC	186-6010	1		DNAC
			Uncertified	186-6405	1		DNAD
100-3398-03	1		W/Mechanical	186-6012	1		DNAE, DNAF
			Governor	9			Cover, Side (Includes Bearing)
100-3398-04	1		W/Electronic Governor	186-6401	1		DNAC
			EPA Certified	186-6402	1		DNAD
100-3508-03	1		W/Mechanical	186-6403	1		DNAE
			Governor	186-6725	1		DNAF
100-3508-04	1		W/Electronic Governor	10			Washer (M6)
			DNAD	186-6015	11		DNAC
			Uncertified	186-6015	15		DNAD
100-3399-03	1		W/Mechanical	186-6015	19		DNAE, DNAF
			Governor	11			Bolt, (M6 x 1 x 25mm)
100-3399-04	1		W/Electronic Governor	186-6014	9		DNAC
			EPA Certified	186-6014	12		DNAD
100-3509-03	1		W/Mechanical	186-6014	15		DNAE, DNAF
			Governor	12	186-6021	1	Adapter, Oil Filter (DNAC, DNAD, DNAE)
100-3509-04	1		W/Electronic Governor	13	186-6025	1	Filter, Oil
			DNAE	186-6025	1		DNAC, DNAD, DNAE
			EPA Certified	186-6492	1		DNAF
100-3510-03	1		W/Mechanical	14	186-6614	1	Nipple, Pipe (1/2" x 1-3/4")
			Governor	15	186-6613	1	Valve, Ball (1/2")
100-3510-04	1		W/Electronic Governor	16	186-6629	1	Nipple (1/2")
			DNAF	17			Nut (M6 x 1)
			EPA Certified	186-6209	2		DNAC
100-3820-03	1		W/Mechanical	186-6209	3		DNAD
			Governor	186-6209	4		DNAE, DNAF
100-3820-04	1		W/Electronic Governor	18			Stud
1			Block Assy, Cylinder (Includes Parts Marked *)	186-6250	2		DNAC
	186-6000	1	DNAC	186-6250	3		DNAD
	186-6400	1	DNAD	186-6250	4		DNAE, DNAF
	186-6001	1	DNAE	19	186-6023	1	Cap, Oil Fill
	186-6722	1	DNAF	20	186-6024	1	O'Ring
2	186-6002	1	*Kit, Expansion Plug	21	186-6029	1	O'Ring
3	186-6281	1	Bearing	22			Dipstick, Oil (Includes O'Ring)
4			*Bearing, Gear End Main	186-6026	1		DNAC
	186-6003	1	Standard	186-6410	1		DNAE, DNAF
	186-6004	1	0.25mm Undersize	23	186-6503	1	Bearing, Fuel Lift Pump Push Rod
	186-6005	1	0.50mm Undersize				
5	186-6006	1	*Bearing, Gear End Camshaft				
6	186-6008	2	*Support, Governor Pivot				
7	186-6007	1	*Plug, 3/8"				

* – Parts Included in Cylinder Block Assy.

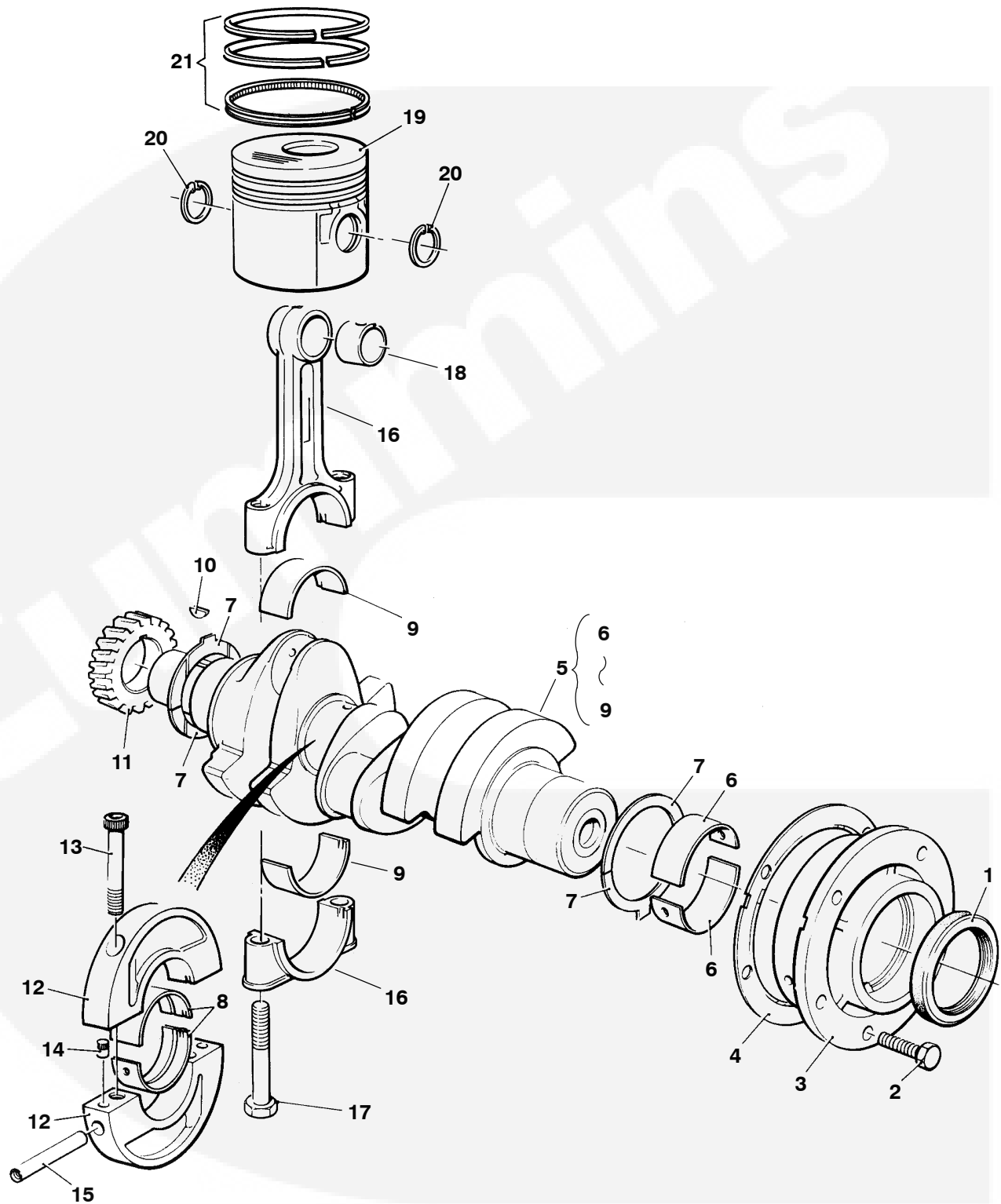
Oil Pressure System



Oil Pressure System

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6580	1	Switch, Oil Pressure Shutoff (5psi)	13			Block, Oil Distribution (Includes Parts Marked °)
2	193-0474	1	Kit, Oil Pressure Gauge (Includes Street Tee and Gauge)(DNAD, DNAE, DNAF)	186-6803	1		Spec A-B(Used With Detector Control)
3	186-6253	1	Adapter, Oil Pressure Switch	186-7073	1		Spec C(Used With Detector Control)
4	186-6297	1	Tee, 1/8 NPT Street	14	186-6806	1	°Block, Oil Distribution
5	193-0478	1	Kit, Oil Pressure Gauge (DNAC) (Includes Parts Marked +)	15	186-6808	2	°Spacer
6	186-7028	2	+ Elbow (1/8 NPT)(DNAC)	16	186-6526	2	°Screw, Hex Head Cap
7	186-7039	1	+ Tube, Copper (DNAC)	17	186-6801	2	°Union
8	186-6986	1	+ Gauge, Oil Pressure	18	186-6807	1	°Hose
9	186-7037	1	+ Block, Oil Distribution (DNAC)	19	186-6022	2	°Plug
10	186-7045	2	+ Screw, Hex Head Cap (DNAC) (M10 x 1.5 x 55mm)	20	186-7200	1	Elbow, 45°
11	186-6968	1	Switch, Oil Pressure Warning (9 psi) (Used With Detector Control)	21	505-0057	1	Plug, 1/8 NPT (M10 x 1.5 x 45mm)
12			Sender, Oil Pressure	22	800-2090	1	Screw, Hex Head Cap (M10 x 1.5 x 45mm)
	193-0448	1	Spec B (Used With Dectector Control)	+ - Parts Included in Oil Pressure Gauge Kit. ° - Parts Included in Oil Distribution Block Assy.			
	193-0444	1	Spec C				
	193-0444	1	Spec E DNAF Only				

Crankshaft



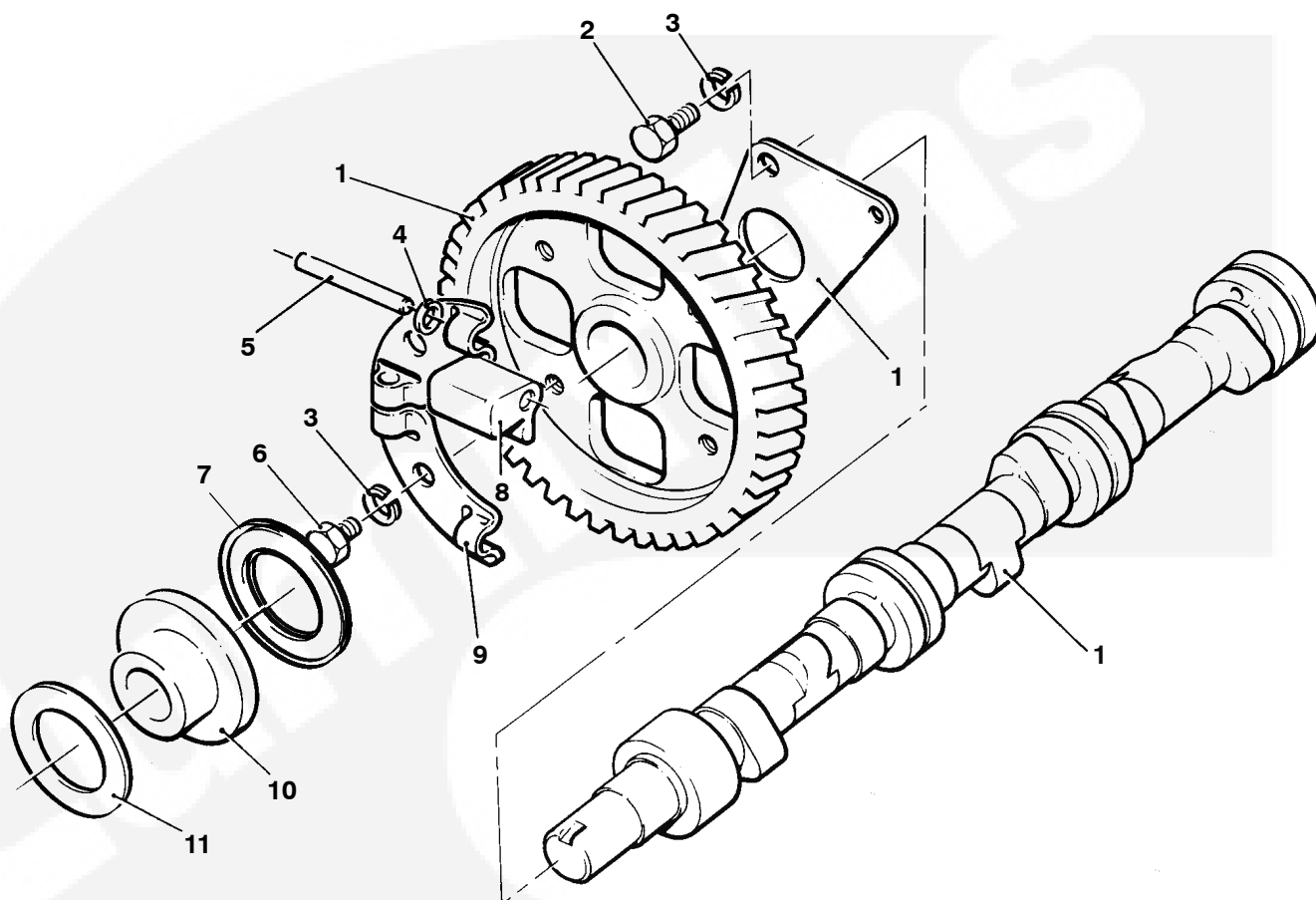
Crankshaft

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6063	1	Seal, Oil	14			Dowel
2	186-6064	5	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	186-6049	2		DNAC
3	186-6058	1	Housing, Main Bearing	186-6049	4		DNAD
4			Shim	186-6049	6		DNAE, DNAF
	186-6065	AR	.38mm	15			Tube, Locating
	186-6066	AR	.50mm	186-6057	1		DNAC
5			Crankshaft Assy (Includes Parts Marked *)	186-6057	2		DNAD
	186-6046	1	DNAC	186-6057	3		DNAE, DNAF
	186-6420	1	DNAD	16			Rod Assy, Connecting (Includes Rod, Bolt and Small Bearing)
	186-6047		DNAE	186-6078	2		DNAC
	186-6721	1	DNAF	186-6078	3		DNAD
6			*Bearing Set, Flywheel End Main	186-6078	4		DNAE
	186-6060	1	Standard	184-0097	4		DNAF
	186-6061	1	0.25 mm Undersize	17			Bolt, Connecting Rod
	186-6062	1	0.50 mm Undersize	186-6079	4		DNAC
7	186-6056	1	*Washer Set, Thrust	186-6079	6		DNAD
8			*Bearing, Center	186-6079	8		DNAE, DNAF
			DNAC	18			Bearing, Small
	186-6051	1	Standard	186-6080	2		DNAC
	186-6052	1	.25mm	186-6080	3		DNAD
	186-6053	1	.50mm	186-6080	4		DNAE, DNAF
			DNAD	19			+ Piston Assy (Includes Pin, Piston, Circlip and Ring Set)
	186-6051	2	Standard				Standard
	186-6052	2	.25mm	186-6687	2		DNAC
	186-6053	2	.50mm	186-6687	3		DNAD
			DNAE, DNAF	186-6687	4		DNAE
	186-6051	3	Standard	186-6717	4		DNAF
	186-6052	3	.25mm				.50mm Oversize
	186-6053	3	.50mm	186-6689	2		DNAC
9			*Bearing, Large	186-6689	3		DNAD
			Standard	186-6689	4		DNAE
	186-6081	2	DNAC	186-6719	4		DNAF
	186-6081	3	DNAD				1.00mm Oversize
	186-6081	4	DNAE, DNAF	186-7026	2		DNAC
			.25mm Undersize	186-7026	3		DNAD
	186-6082	2	DNAC	186-7026	4		DNAE
	186-6082	3	DNAD	186-7027	4		DNAF
	186-6082	4	DNAE, DNAF	20			Circlip
			.50mm Undersize	186-6072	4		DNAC
	186-6083	2	DNAC	186-6072	6		DNAD
	186-6083	3	DNAD	186-6072	8		DNAE, DNAF
	186-6083	4	DNAE, DNAF	21			Ring Set, Piston
10	186-6055	1	Key				Standard
11	186-6054	1	Pinion, Crankshaft	186-6073	2		DNAC
	186-6054	1	DNAC, DNAD, DNAE	186-6073	3		DNAD
	186-6761	1	DNAF	186-6073	4		DNAE, DNAF
12			Housing, Center Bearing (Includes Cap Screw and Dowel)				.50mm Oversize
	186-6048	1	DNAC	186-6075	2		DNAC
	186-6048	2	DNAD	186-6075	3		DNAD
	186-6048	3	DNAE, DNAF	186-6075	4		DNAE, DNAF
13			Screw, Cap (M8 x 50mm)				1.00mm Oversize
	186-6050	2	DNAC	186-6077	2		DNAC
	186-6050	4	DNAD	186-6077	3		DNAD
	186-6050	6	DNAE, DNAF	186-6077	4		DNAE, DNAF

* – Parts Included in Crankshaft Assy.

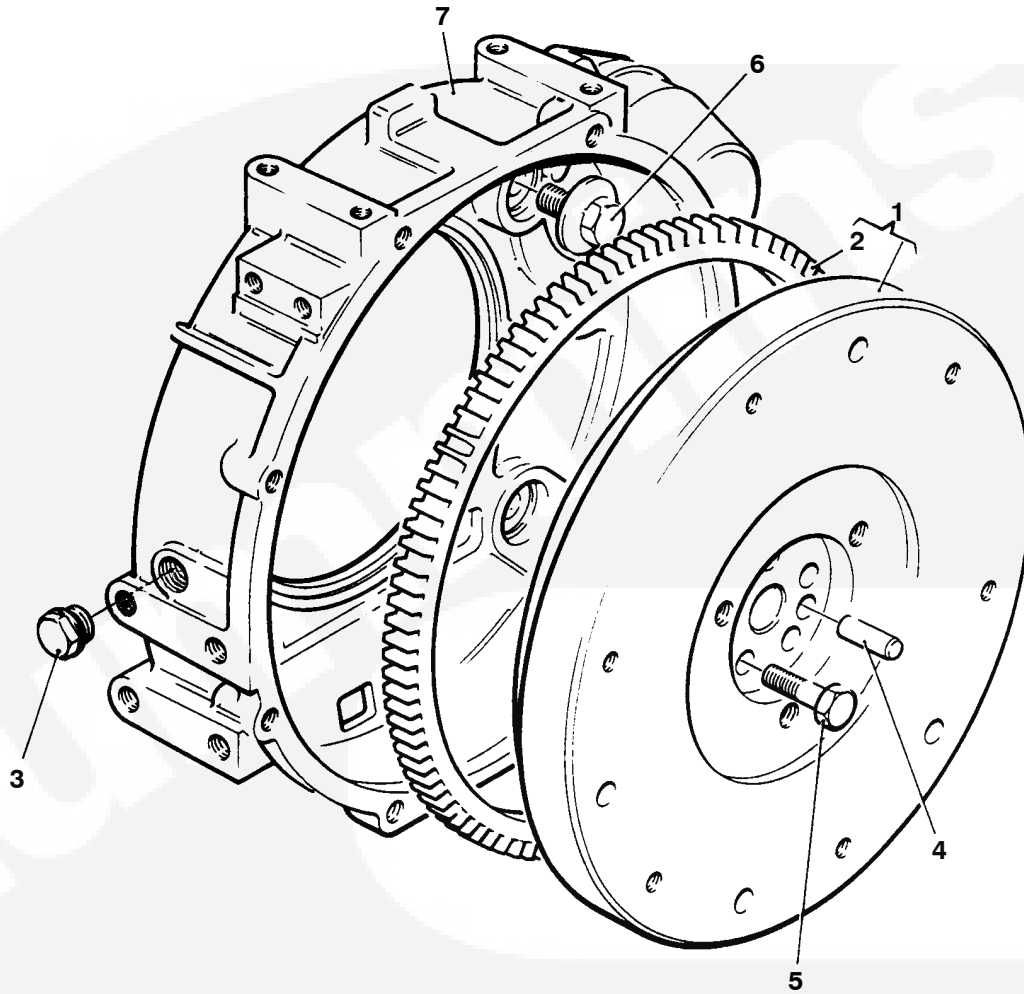
+ – Piston Pin Not For Sale Separately.

Camshaft

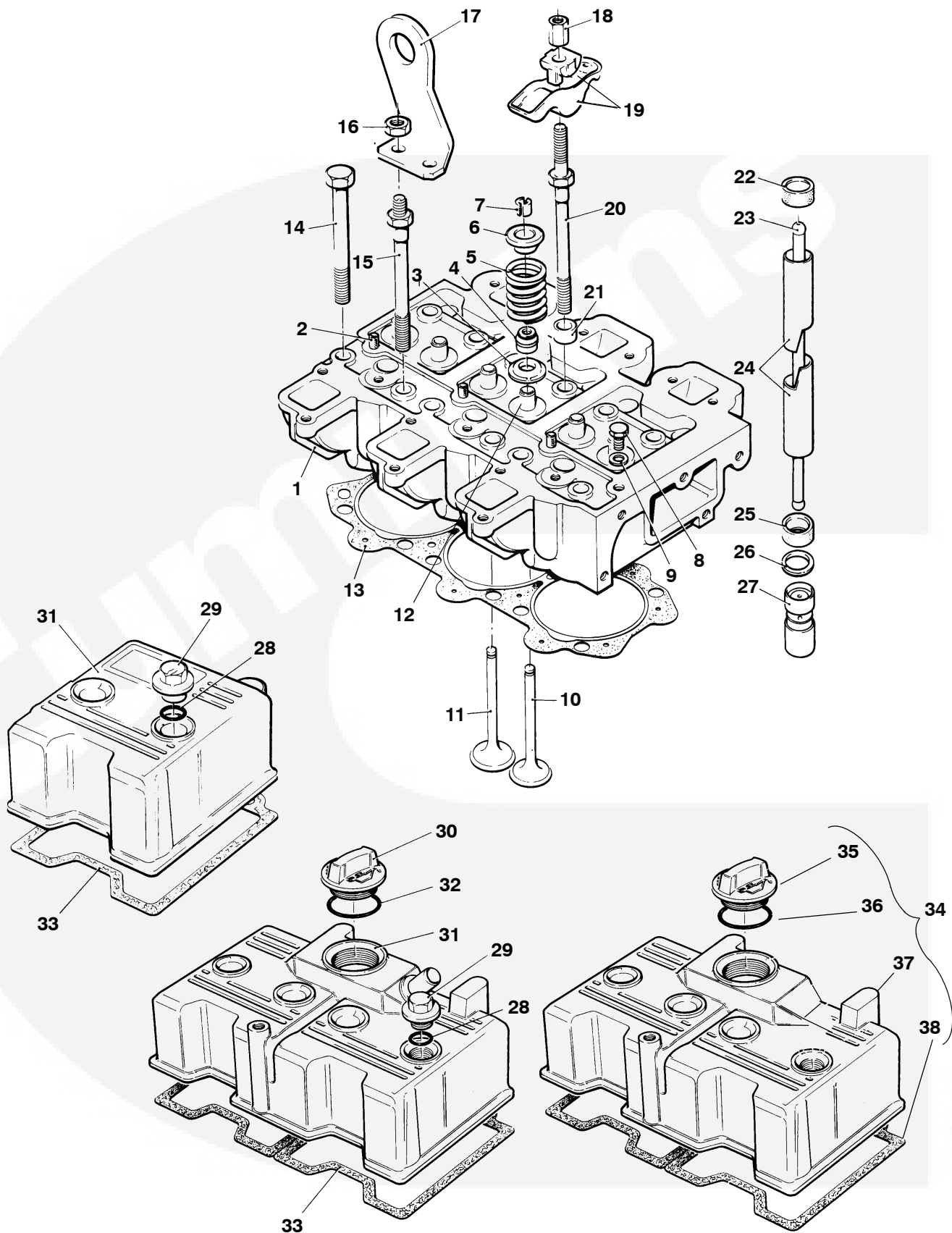


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Camshaft Assy (Includes Gearwheel & Thrust Plate)	5	186-6040	2	Pin
	186-6035	1	DNAC	6	186-6037	4	Screw, Set (M6 x 12mm)
	186-6416	1	DNAD	7	186-6268	1	Washer, Thrust
	186-6036	1	DNAE	8			Weight, Governor
	186-6715	1	DNAF		186-6693	4	DNAC, DNAD
2	186-6254	2	Screw, Oil Jet (M6)		186-6039	4	DNAE, DNAF
3	186-6038	6	Washer, Spring (M6)	9	186-6041	4	Plate, Retaining
4	186-6143	4	Shim	10	186-6044	1	Sleeve, Thrust
				11	186-6045	1	Washer, Thrust

Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6467	1	Flywheel (Includes Ring Gear)	5			Screw, Hex Head Cap
	186-6468	1	DNAC, DNAD, DNAE				(M10 x 35mm)
			DNAF	186-6462	5		DNAC, DNAD, DNAE
2	186-6460	1	Gear, Ring				(M10 x 35mm)
3	186-6463	1	Plug, Banking	186-6755	6		DNAF (M12 x 40mm)
4			Dowel	6	186-6198	4	Screw, Self-Lock Set
	186-6461	1	DNAC, DNAD, DNAE				(M12 x 25mm)
	186-6149	1	DNAF	7	186-6466	1	Housing, Flywheel

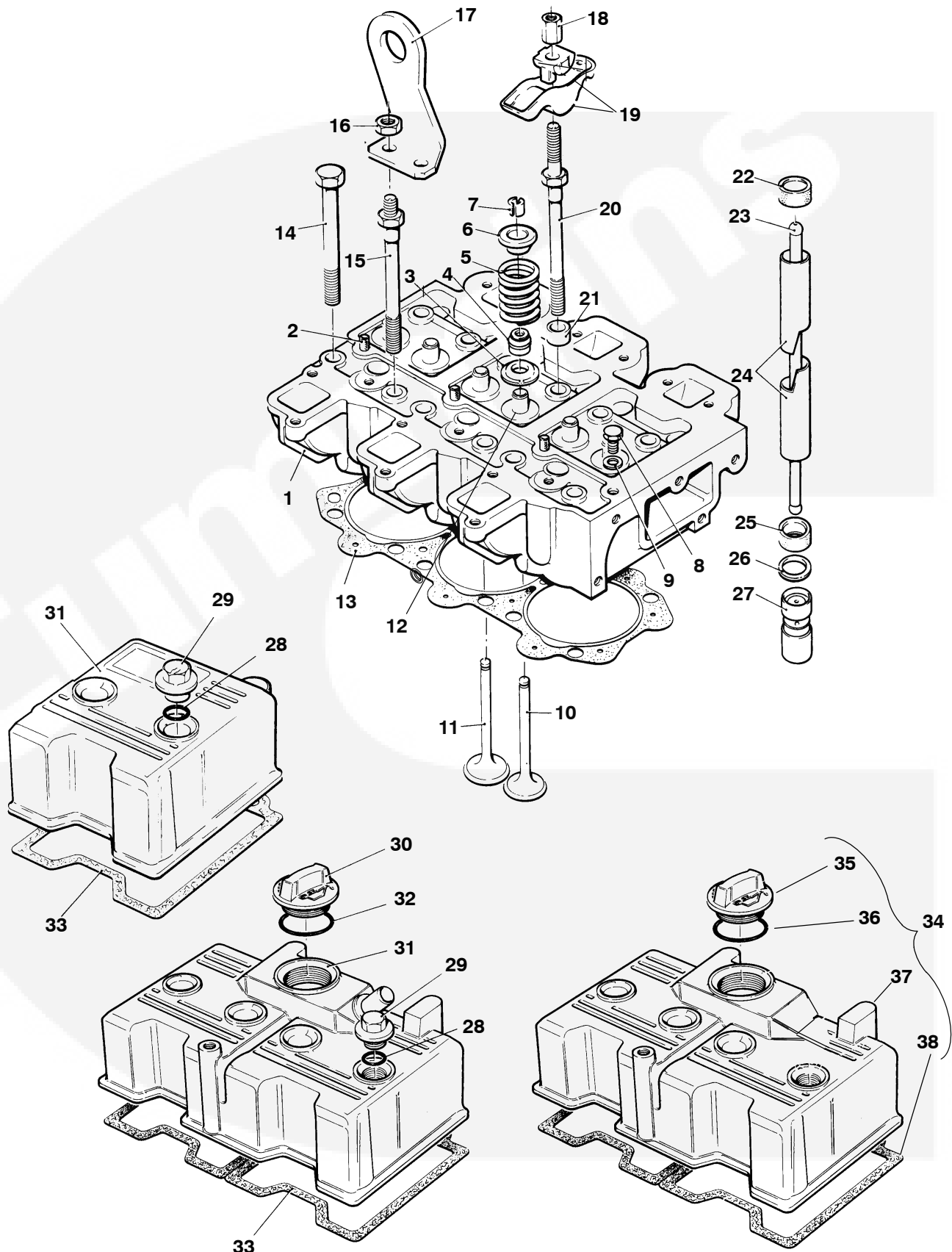


Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Head Assy, Cylinder (Includes Parts Marked *)	17			Eye, Lifting
	186-6084	1	DNAC		186-6437	1	DNAC, DNAD
	186-6435	1	DNAD		186-6437	2	DNAE, DNAF
	186-6085	1	DNAE	18			Nut (M8)
	186-6716	1	DNAF		186-6095	4	DNAC
2			*Tube, Breather		186-6095	6	DNAD
	186-6255	2	DNAC		186-6095	8	DNAE, DNAF
	186-6255	3	DNAD	19			Lever, Rocker (Includes Pivot)
	186-6255	4	DNAE, DNAF		186-6258	4	DNAC
3			*Plate, Valve Spring		186-6094	6	DNAD
	186-6088	4	DNAC		186-6094	8	DNAE
	186-6088	6	DNAD	20			Bolt (M10)
	186-6088	8	DNAE, DNAF		186-6104	4	DNAC
4			*Seal, Valve Stem		186-6104	6	DNAD
	186-6257	4	DNAC		186-6104	8	DNAE
	186-6257	6	DNAD		186-6752	8	DNAF
	186-6257	8	DNAE, DNAF	21			Spacer
5			*Spring, Valve		186-6107	4	DNAC
	186-6089	4	DNAC		186-6107	6	DNAD
	186-6089	6	DNAD		186-6107	8	DNAE
	186-6089	8	DNAE, DNAF		186-6756	8	DNAF
6			*Carrier, Valve Spring	22			Rubber, Head Sealing Tube
	186-6090	4	DNAC		186-6102	4	DNAC
	186-6090	6	DNAD		186-6102	6	DNAD
	186-6090	8	DNAE, DNAF		186-6102	8	DNAE, DNAF
7			*Cotter, Valve	23			Rod, Push
	186-6091	8	DNAC		186-6098	4	DNAC
	186-6091	12	DNAD		186-6098	6	DNAD
	186-6091	16	DNAE, DNAF		186-6098	8	DNAE, DNAF
8	186-6096	1	*Screw, Set (M8)	24			Tube, Push Rod Sealing
9	186-6097	1	*Washer (M8)		186-6099	4	DNAC
10			*Valve, Exhaust		186-6099	6	DNAD
	186-6087	2	DNAC		186-6099	8	DNAE, DNAF
	186-6087	3	DNAD	25			Rubber, Sealing Tube
	186-6087	4	DNAE, DNAF		186-6100	4	DNAC
11			*Valve, Inlet		186-6100	6	DNAD
	186-6086	2	DNAC		186-6100	8	DNAE, DNAF
	186-6086	3	DNAD	26			Washer
	186-6086	4	DNAE		186-6101	4	DNAC
	186-6758	4	DNAF		186-6101	6	DNAD
12			*Guide, Valve		186-6101	8	DNAE, DNAF
	186-6092	4	DNAC	27			Tappet, Hydraulic
	186-6092	6	DNAD		186-6103	4	DNAC
	186-6092	8	DNAE, DNAF		186-6103	6	DNAD
13			Gasket, Cylinder Head		186-6103	8	DNAE, DNAF
	186-6109	1	DNAC	28			O'Ring
	186-6436	1	DNAD		186-6028	4	DNAC
	186-6112	1	DNAE, DNAF		186-6028	6	DNAD
14			Bolt (M10)		186-6028	8	DNAE, DNAF
	186-6105	2	DNAC	29			Nut
	186-6105	4	DNAD, DNAE		186-6118	4	DNAC
	186-6753	4	DNAF		186-6118	6	DNAD
15			Bolt (M10)		186-6118	8	DNAE, DNAF
	186-6106	2	DNAC, DNAD				
	186-6106	4	DNAE				
	186-6754	4	DNAF				
16			Nut, Hex (M8 x 1.25)				
	186-6020	2	DNAC, DNAD				
	186-6020	4	DNAE, DNAF				

* – Parts Included in Cylinder Head Assy.

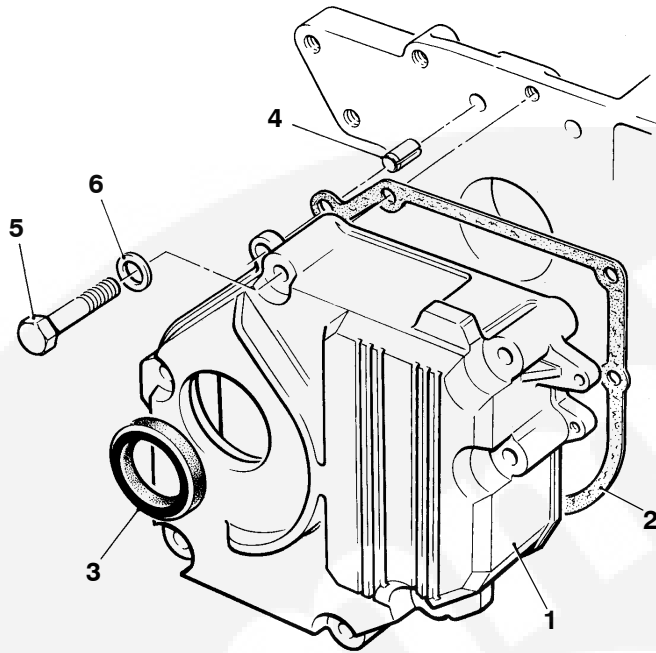
Cylinder Head



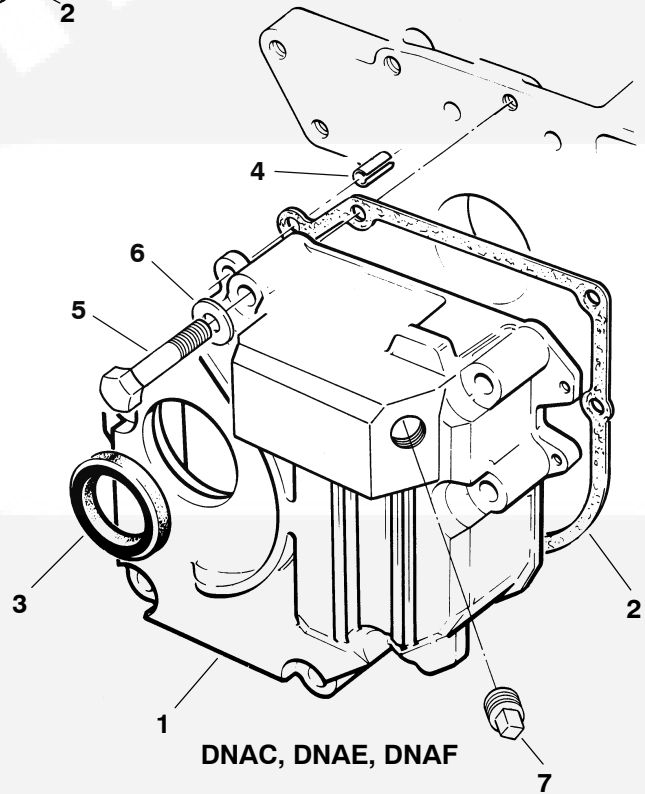
Cylinder Head

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
30	186-6023	1	Cap, Oil Fill (DNAF)	34	123-2126	1	Kit, High Oil Fill (Includes Parts Marked +)
31			Cover, Cylinder Head	35	186-6023	1	+ Cap, Oil Fill
	186-6116	2	DNAC	36	186-6024	1	+ O'Ring
	186-6116	3	DNAD	37	186-6902	1	+ Cover, Cylinder Head
	186-6116	4	DNAE	38	186-6117	2	+ Gasket, Cover
			DNAF				
	186-6116	2	Single Cover				
	186-6792	1	Double Cover				
32	186-6024	1	O'Ring, Oil Fill Cap (DNAF)				+ – Parts Included in High Oil Fill Kit.
33			Gasket, Head Cover				
	186-6117	2	DNAC				
	186-6117	3	DNAD				
	186-6117	4	DNAE, DNAF				

Gear End Cover



DNAD

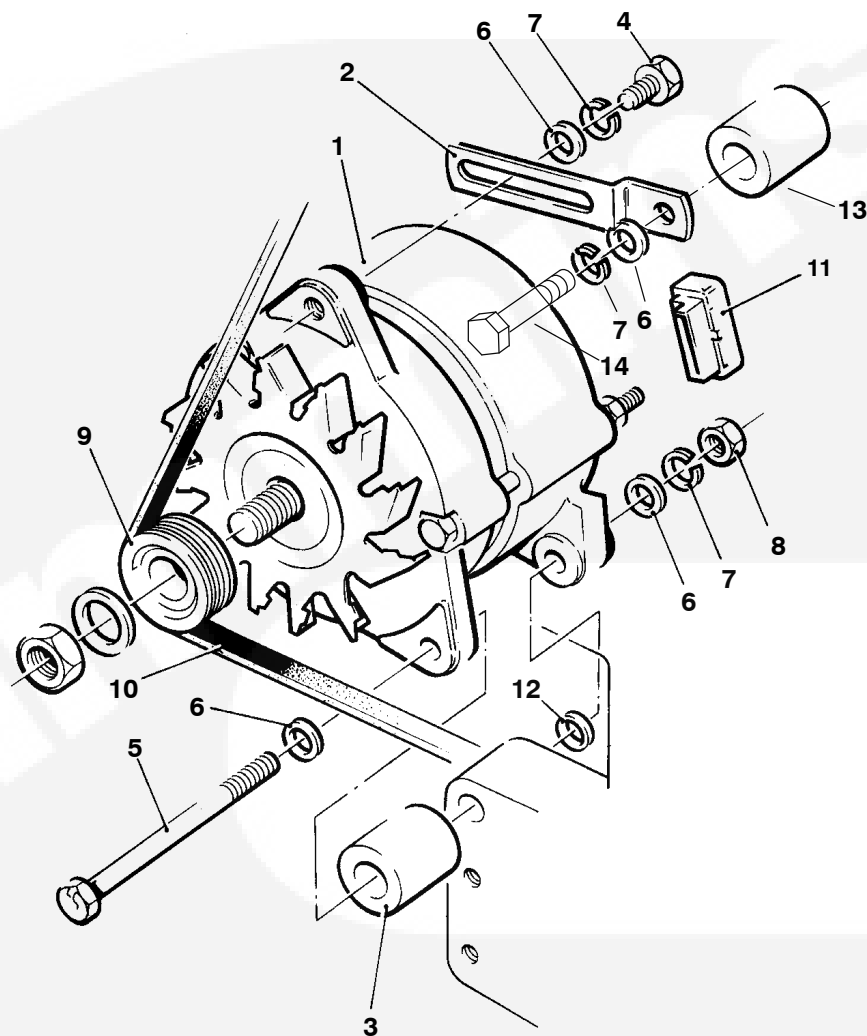


DNAC, DNAE, DNAF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6438	1	Cover, Gear End DNAD
	186-6146	1	DNAC, DNAE, DNAF
2	186-6147	1	Gasket, Cover
3	186-6148	1	Seal, Rear Crank Oil
4	186-6149	2	Dowel

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	186-6150	7	Screw, Hex Head Cap (M6 x 1 x 50mm)
6	186-6015	7	Washer (M6)
7	186-6007	1	Plug, Square Head (3/8 BSP) (DNAC, DNAE, DNAF)

Alternator (Spec A)

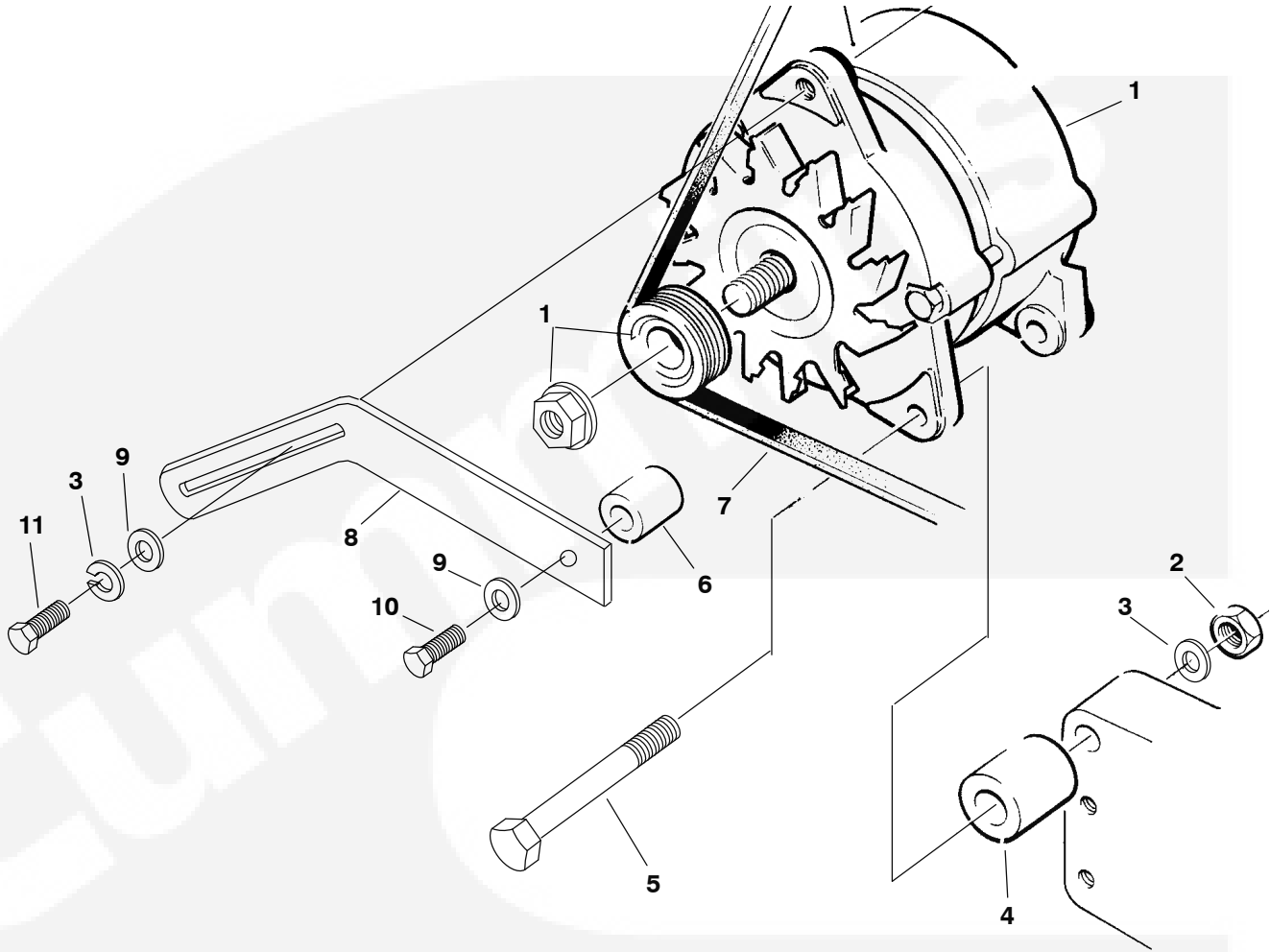


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6469	1	Alternator (12V, 45A) (Includes Nut and Washer for Mounting Pulley)	8	186-6274	1	Nut, Hex (M8 x 1.25)
2	186-6470	1	Bracket, Adjusting	9	186-6476	1	Pulley
3	186-6471	1	Spacer	10	186-6477	1	Belt
4	186-6472	1	Screw, Hex Head Cap (M8 x 20mm)		186-6811	1	DNAC, DNAD, DNAE DNAF
5	186-6840	1	Bolt (M8 x 130mm)	11	186-6478	1	Plug, Connector
6	186-6412	4	Washer (M8)	12	186-6479	1	Spacer
7	186-6019	3	Washer, Spring (M8)	13	186-6480	1	Spacer
				14	186-6481	1	Screw, Hex Head Cap (M8 x 50mm)

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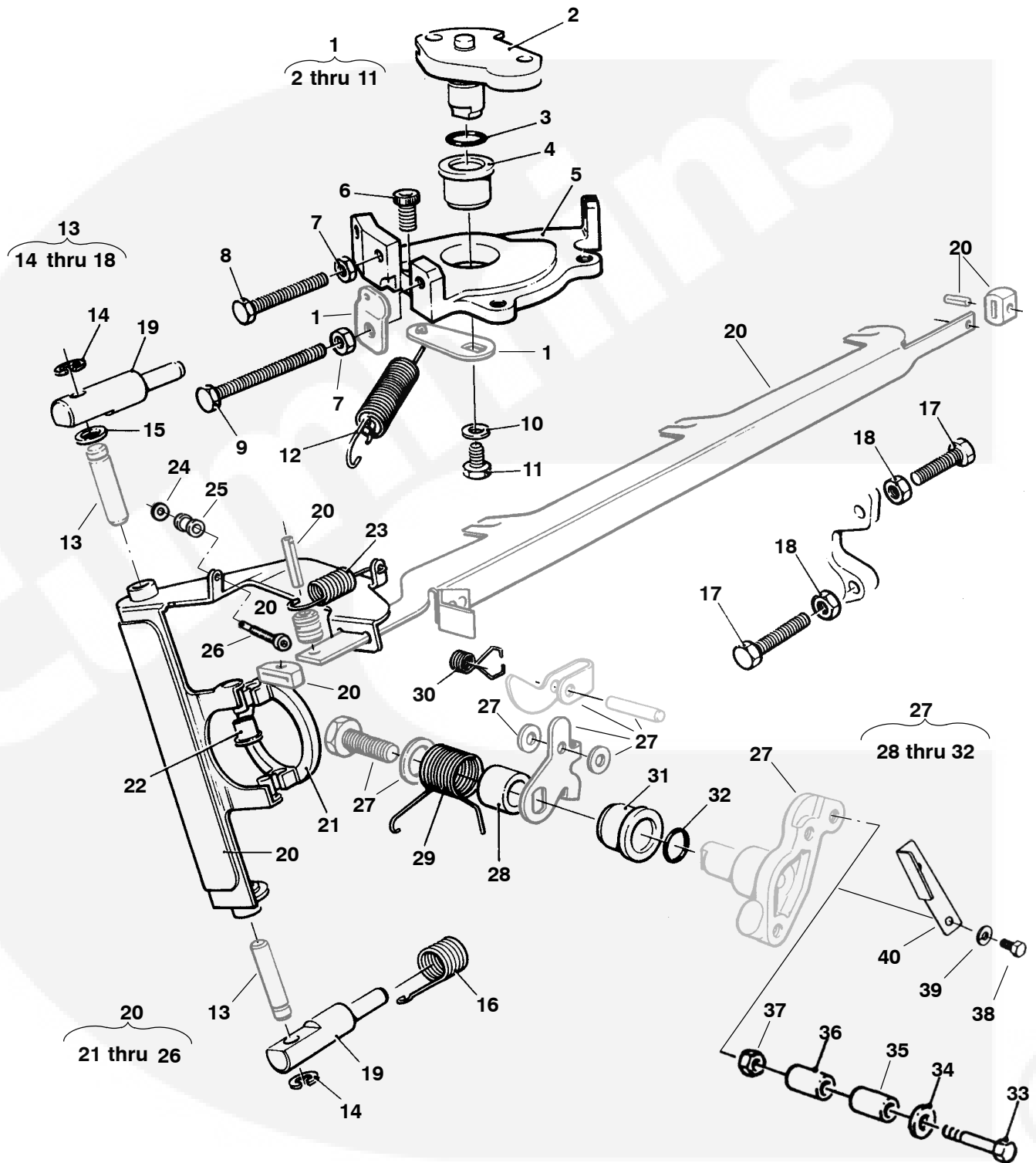


Alternator (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7209	1	Alternator (Includes Nut and Pulley)	8	186-7212	1	Bracket, Adjusting
2	186-6274	1	Nut, Hex (M8 x 1.25)	9	186-6412	1	Washer (M8)
3	186-6529	3	Washer, Spring (M8)	10	186-7202	1	Bolt
4	186-7210	1	Pivot, Front Spacer		186-7203	1	M8 x 1.25 x 35mm
5	186-7201	1	Bolt (M8 x 100mm)		186-7203	1	M8 x 1.25 x 30mm
6	186-7211	1	Spacer	11	186-6681	1	Screw, Hex Head Cap (M8 x 25mm)
7	186-6811	1	Belt				

Mechanical Governor



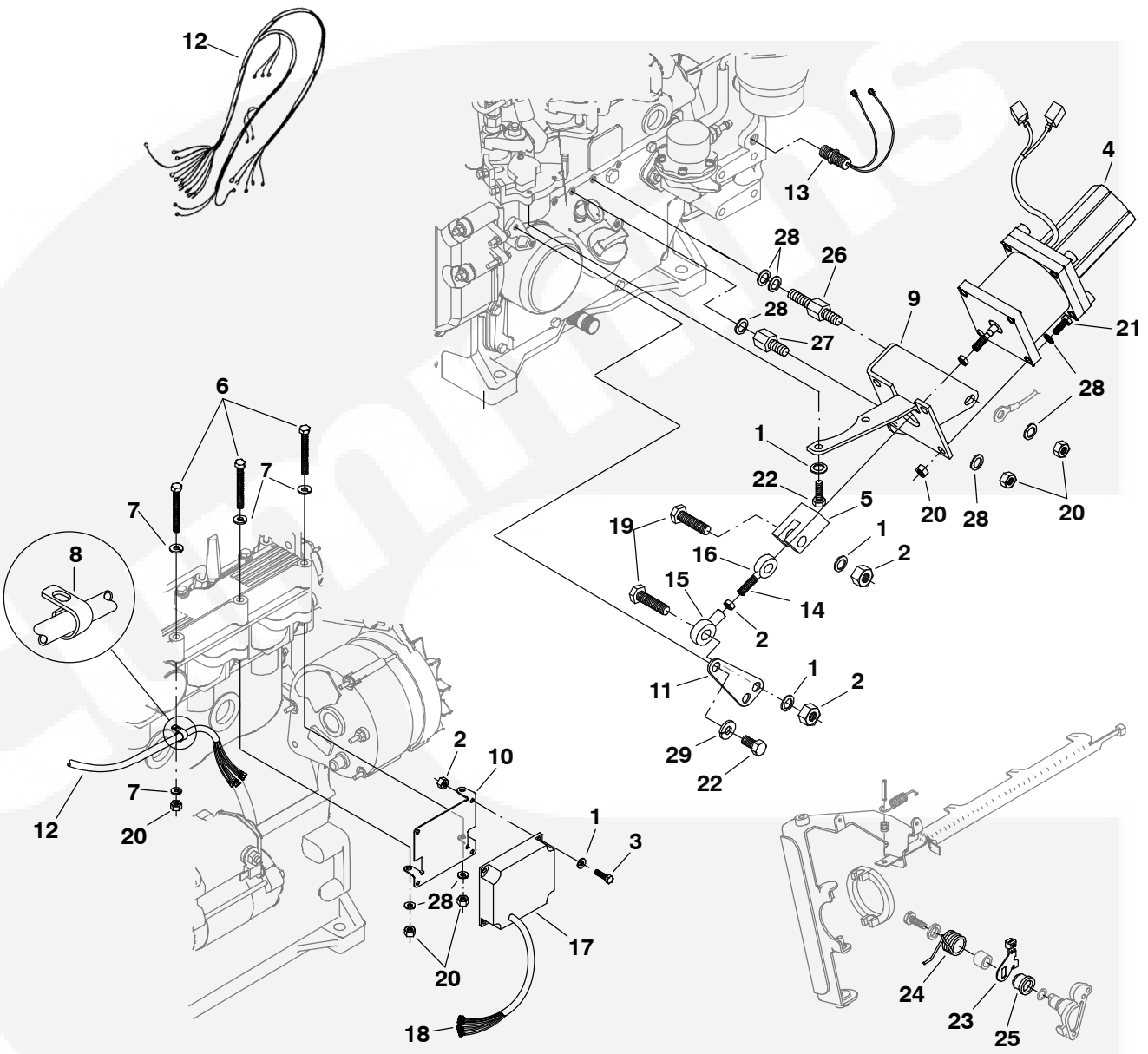
Mechanical Governor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6429	1	Control, Governor Speed (Includes Parts Marked *)	23	186-6121	1	#Spring, Governor Lever
2	186-6431	1	*Quadrant, Speed Control	24	186-6143	1	#Washer, Shim (DNAC, DNAE, DNAF)
3	186-6129	1	*O'Ring	25	186-6261	1	#Retainer, Spring (DNAC, DNAE, DNAF)
4	186-6124	1	*Bearing	26	186-6260	1	#Screw, Droop Adjust (DNAC, DNAE, DNAF)
5	186-6430	1	*Baseplate	27	186-6132	1	Lever Assy, Fuel Pump (Includes Parts Marked +)
6	186-6125	1	*Screw, Cap (M6 x 12 mm)	28	186-6433	1	+ Pivot
7	186-6128	2	*Nut, Hex (M5)	29	186-6137	1	+Spring, Stop/Run Lever
8	186-6127	1	*Screw, Speed Setting Set (M5 x 35mm)	30	186-6136	1	+Spring, Trip Lever
9	186-6126	1	*Screw, Speed Setting Set (M5 x 50mm)	31	186-6124	1	+Bearing
10	186-6131	1	*Washer (M5)	32	186-6129	1	+O'Ring
11	186-6130	1	*Screw, Set (M6)	33	186-6919	1	Screw (M5)(DNAC)
12			Spring, Governor	34	186-6131	1	Washer (M5)(DNAC)
	186-6730	1	DNAC, DNAD	35	186-6920	1	Roller (DNAC)
	186-6489	1	DNAE, DNAF	36	186-6921	1	Spacer (DNAC)
13	186-6140	1	Pin Assy, Pivot (Includes Parts Marked °)	37	186-6798	1	Nut (M5)(DNAC)
14	186-6141	2	°Retainer, Pivot Pin	38	186-6232	2	Screw, Hex Head Cap (M5 x 0.8 x 10mm) (DNAD, DNAE, DNAF)
15	186-6143	AR	°Shim, Governor Lever	39	186-6296	2	Washer, Spring (M5)(DNAD, DNAE, DNAF)
16	186-6142	1	°Clip, Pivot Pin	40	186-6603	1	Lever, Stop (DNAD, DNAE, DNAF)
17	186-6145	2	°Screw, Hex Head Cap (M5)				
18	186-6128	2	°Nut, Lock (M5)				
19	186-6008	2	Support, Pivot				
20			Lever Assy, Governor (Includes Parts Marked #) (Includes Collar, Bearing and Spring				
	186-6424	1	DNAC				
	186-6425	1	DNAD				
	186-6120	1	DNAE, DNAF				
21			#Collar, Thrust				
	186-6427	1	DNAD				
	186-6805	1	DNAC, DNAE, DNAF				
22	186-6259	2	#Bearing (Not Sold Separately for DNAC, DNAE, DNAF)				

- * – Parts Included in Governor Speed Control Assy.
 ° – Parts Included in Pivot Pin Assy.
 # – Parts Included in Governor Lever Assy.
 + – Parts Included in Fuel Pump Lever Assy.

NOTE: Phantom Parts on Previous Page are available Only in Assemblies.

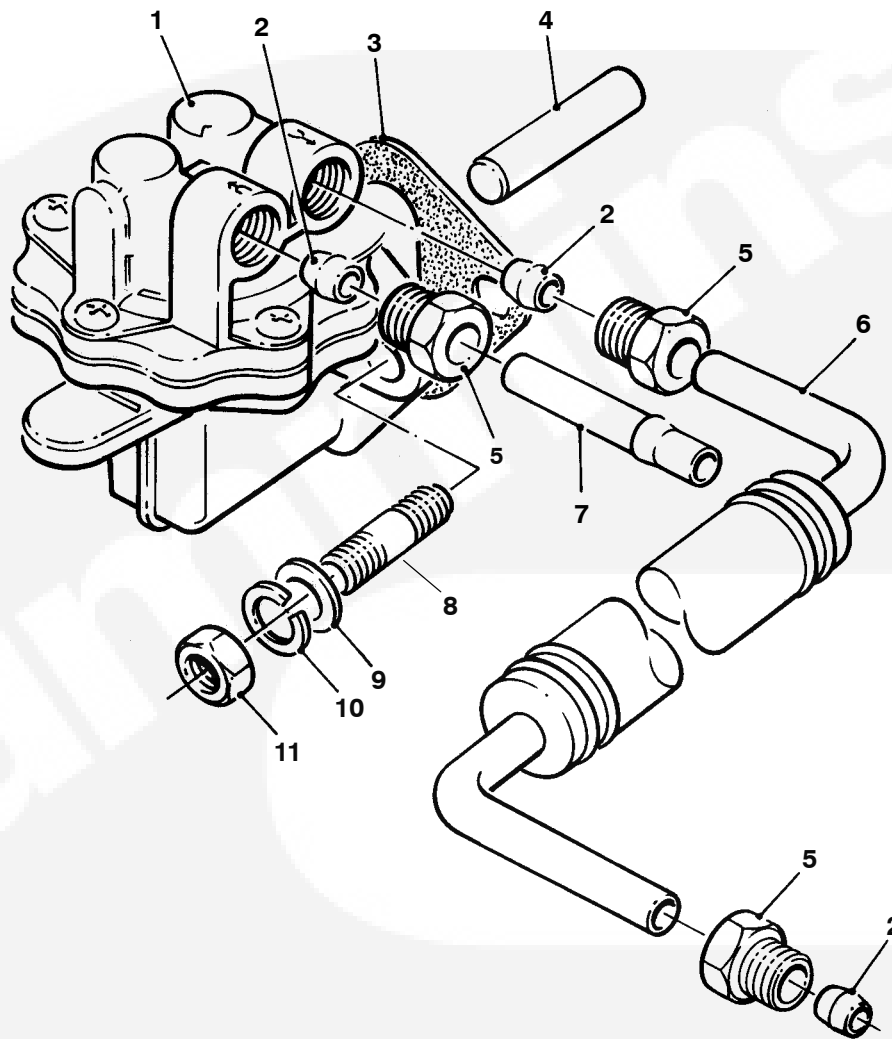
Electronic Governor



Electronic Governor

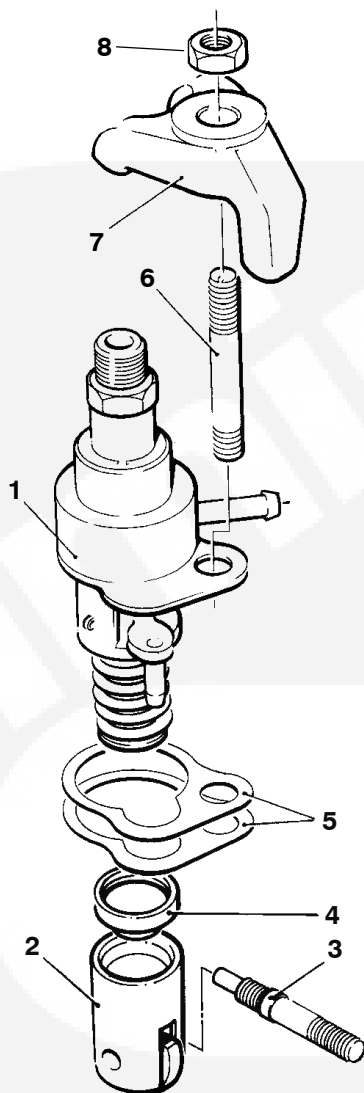
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6458	6	Washer, Spring (3/16")	13	186-6647	1	Pick-Up, Magnetic
2	186-6474	9	Nut, Hex (#10-32)	14	186-6925	1	Link, Connecting (1.5") (DNAC)
3	186-6486	4	Screw, Hex Machine Spec A/B(#10-32 x 1/2")	15	186-6649	2/1	End, Female Rod (3/16") (Use Qty 2 for DNAC, Use Qty 1 for DNAD, DNAE, DNAF)
4	186-6497	1	Actuator, Electronic Governor (Includes 1/4" unf Nut)	16	186-6648	1	End, Male Rod (3/16") (DNAD, DNAE, DNAF)
5			Clevis	17	186-6650	1	Controller, Electronic Governor (Spec A/B See Controls for Spec C/E)
	186-6923	1	DNAC (10-32)	18	186-6651	6	Terminal, Female Disconnect
	186-6499	1	DNAD, DNAE, DNAF (1/4UNF)	19	186-6682	2	Screw, Fillister Head Machine (#10-32 x 3/4)
6			Screw, Hex Head Cap (M6 x 1 x 35mm)(M6 x 1 x 90)	20	186-6209	10	Nut, Hex (M6 x 1)
	186-6590	4	DNAD	21	186-6034	4	Screw, Hex Head Cap (M6 1 x 20mm)
	186-6590	5	DNAE, DNAF	22	186-6232	4	Screw, Hex Head Cap (M5 x 0.8 x 10mm)
7			Washer, Flat (M6)	23	186-6692	1	Lever
	186-6015	4	DNAC	24	186-6763	1	Spring, Stop Control
	186-6015	6	DNAD	25	186-6764	1	Bushing, Stop/Run
	186-6015	8	DNAE	26	186-6234	1	Stud
8			Clip	27	186-6231	1	Stud, Adapter
	186-6598	1	DNAD	28	186-6597	9	Washer, Lock (M6)
	186-6598	2	DNAE, DNAF	29	186-6296	4	Washer, Spring (M5)
9			Bracket, Solenoid	30	186-6828	1	Screw, Hex Head Cap (M8 x 1.25 x 15mm)
	186-6924	1	DNAC				
	186-6643	1	DNAD, DNAE, DNAF				
10	186-6644	1	Bracket, Governor Controller (Spec A/B)				
11	186-6645	1	Lever, Governor Solenoid				
12			Harness, Electronic Governor				
	186-6646	1	Spec A				
	186-7065	1	Begin Spec B				

Fuel Lift Pump



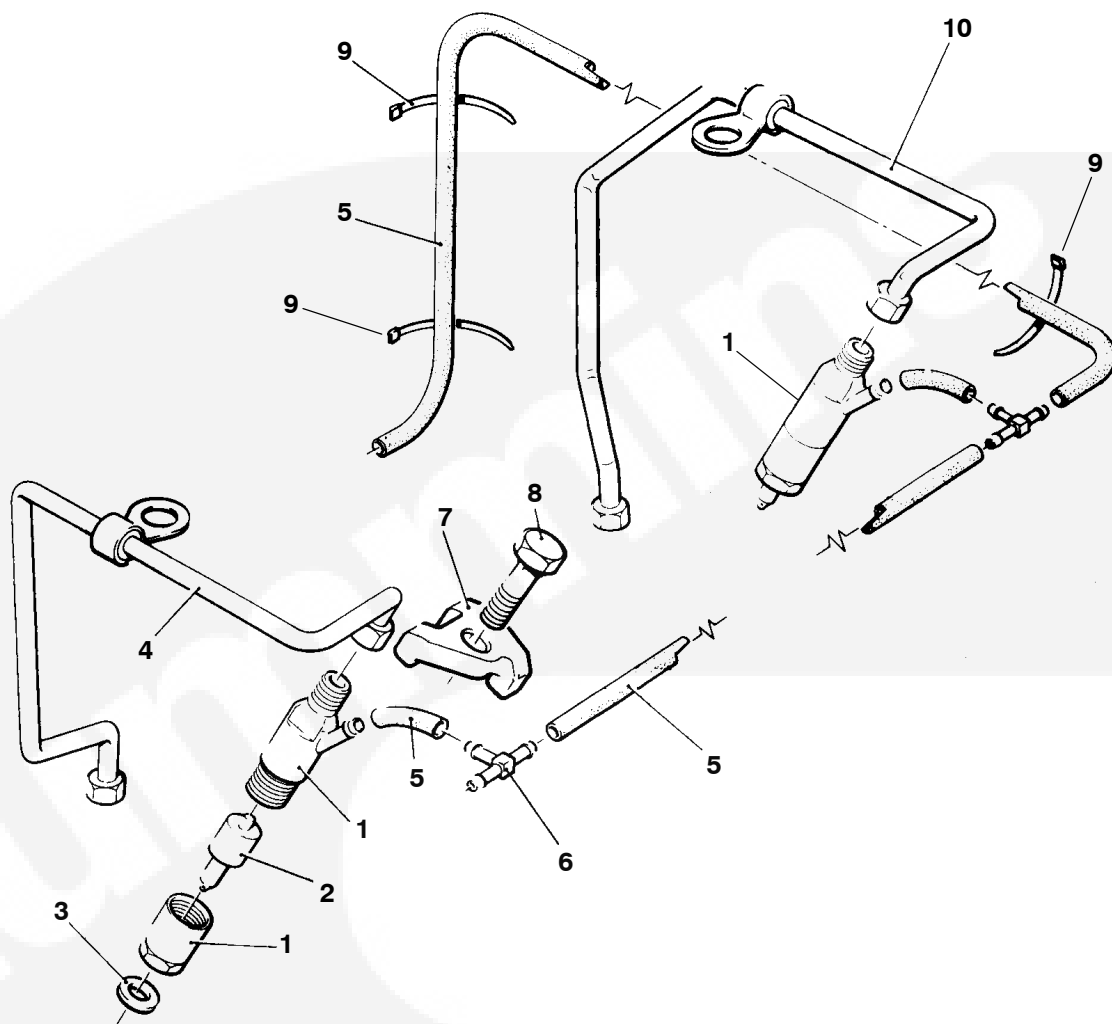
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6439	1	Pump, Fuel Lift	9	186-6412	2	Washer (M8)
2	186-6446	3	Ferrule, Fuel Pipe	10			Washer, Spring (M8)
3	186-6017	1	Gasket		186-6529	2	DNAC, DNAD, DNAE
4	186-6440	1	Rod, Push		186-6019	2	DNAF
5	186-6447	2	Nut, Tube	11			Nut, Hex (M8 x 1.25)
6	186-6530	1	Pipe, Flexible Fuel		186-6274	2	Standard (DNAC, DNAD, DNAE)
7	186-6531	1	Stem		186-6760	2	Extended (DNAF)
8	186-6796	2	Stud (M8 x 35mm)				

Fuel Pump



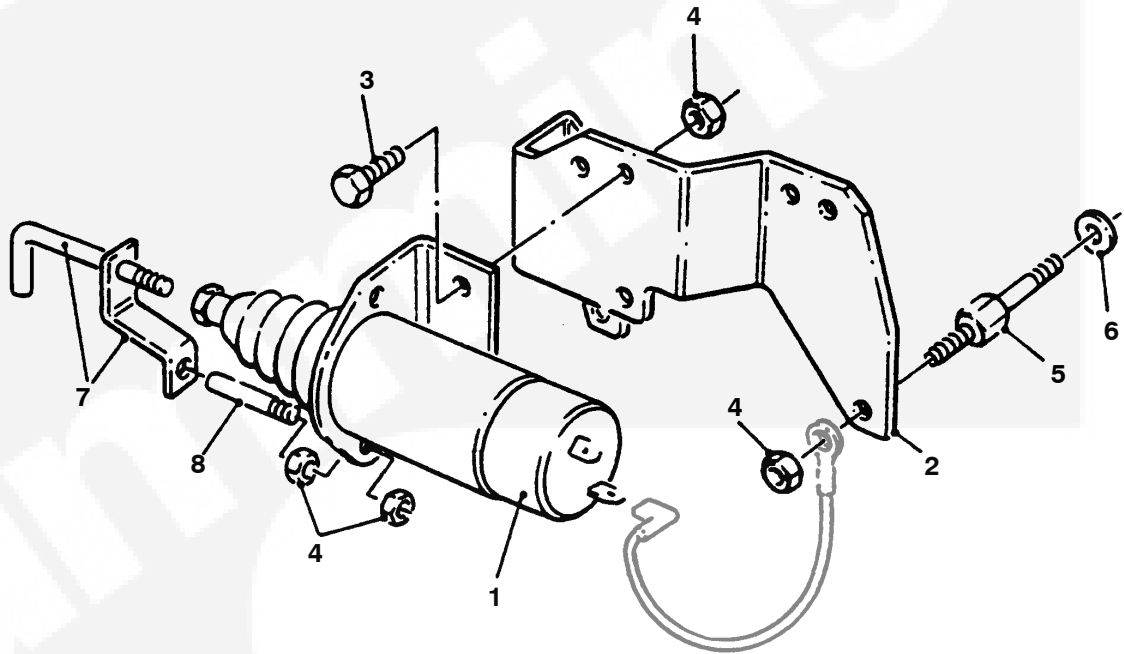
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump, Fuel	5	186-6157	AR	Shim Set, Fuel Pump - Contains One each of the Following:
	186-6450	2	DNAC		186-6156-01	1	.075mm
	186-6450	3	DNAD		186-6156-02	1	.125mm
	186-6450	4	DNAE		186-6156-03	1	.250mm
	186-6784	4	DNAF				
2			Tappet	6			Stud
	186-6152	2	DNAC		186-6153	2	DNAC
	186-6152	3	DNAD		186-6153	3	DNAD
	186-6152	4	DNAE, DNAF		186-6153	4	DNAE, DNAF
3			Stud, Fuel Pump Tappet	7			Clamp
	186-6250	2	DNAC		186-6158	2	DNAC
	186-6250	3	DNAD		186-6158	3	DNAD
	186-6250	4	DNAE, DNAF		186-6158	4	DNAE, DNAF
4			Cup, Thrust	8			Nut, Fuel Pump Clamp
	186-6290	2	DNAC		186-6154	2	DNAC
	186-6290	3	DNAD		186-6154	3	DNAD
	186-6290	4	DNAE, DNAF		186-6154	4	DNAE, DNAF

Fuel Injector



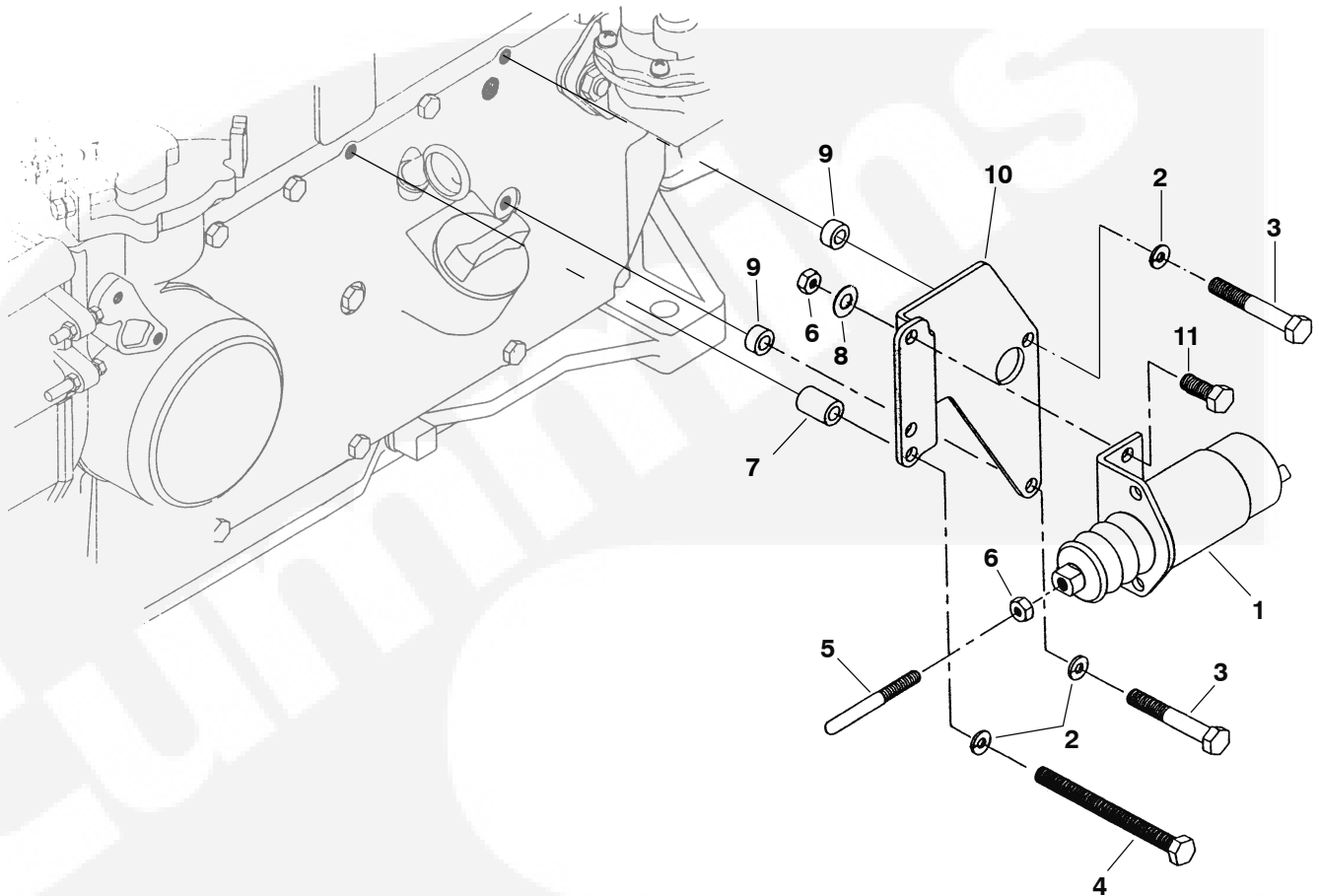
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6168	2	Injector, Fuel (Includes Nozzle)	6	186-6177	2	Tee, Pipe Connector
	186-6168	3	DNAC		186-6177	3	DNAC
	186-6168	4	DNAD		186-6177	4	DNAD
2	186-6168	4	DNAE, DNAF		186-6177	4	DNAE, DNAF
	186-6169	2	Nozzle	7	186-6172	2	Clamp, Injector
	186-6169	3	DNAC		186-6172	3	DNAC
	186-6169	4	DNAD		186-6172	4	DNAD
3	186-6169	4	DNAE, DNAF		186-6172	4	DNAE, DNAF
	186-6173	2	Washer, Copper	8	186-6174	2	Bolt, Injector Clamp (M8)
	186-6173	3	DNAC		186-6174	3	DNAC
	186-6173	4	DNAD		186-6174	4	DNAD
4	186-6173	4	DNAE, DNAF		186-6174	4	DNAE, DNAF
	186-6171	1	Pipe, Fuel	9	186-6167	3	Tie, Cable
	186-6171	2	DNAC	10	186-6170	1	Pipe, Fuel
	186-6171	3	DNAD				
	186-6171	3	DNAE, DNAF				
5	186-6166	1	Hose, Bulk (16 Meter) (Cut to Length)				
	186-6166	1	1-1/4"				
	186-6166	1	3-5/8"				
	186-6166	1	16"				

Fuel Control Solenoid DNAC



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6572	1	Solenoid (12V)	5	186-6234	1	Stud
2	186-6916	1	Bracket	6	186-6240	1	Washer (M6)
3	186-6577	2	Screw, Hex Head Cap (M6 x 1 x 14mm)	7	186-6917	1	Rod/Bracket Assy
4	186-6235	4	Nut, Hex (M6 x 1mm)	8	186-6918	1	Rod, Locating

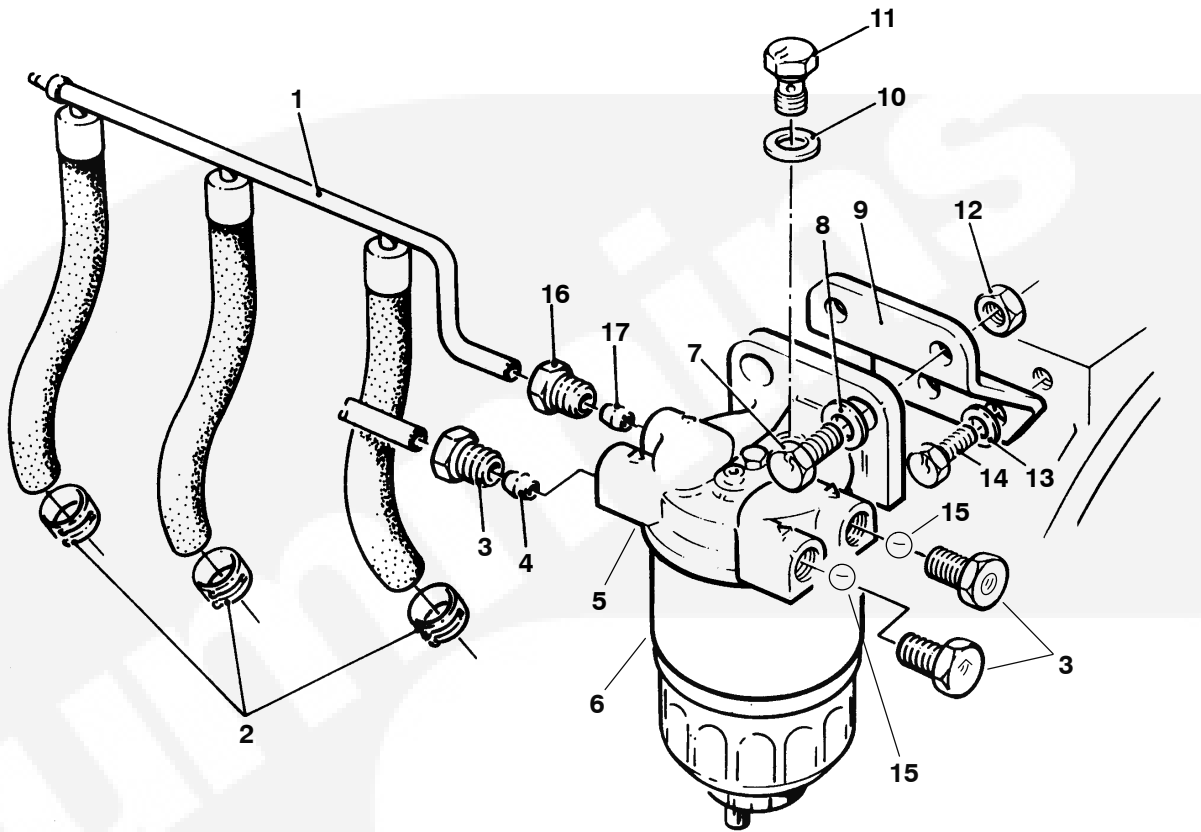
Fuel Control Solenoid DNAD, DNAE, DNAF



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6572	1	Solenoid
2	186-6295	3	Washer, Spring (1/4")
3	186-6667	2	Screw, Hex Head Cap (M6 x 1.2 x 40mm)
4	186-6592	1	Screw, Hex Head Cap (M6 x 1 x 65mm)
5	186-6604	1	Rod

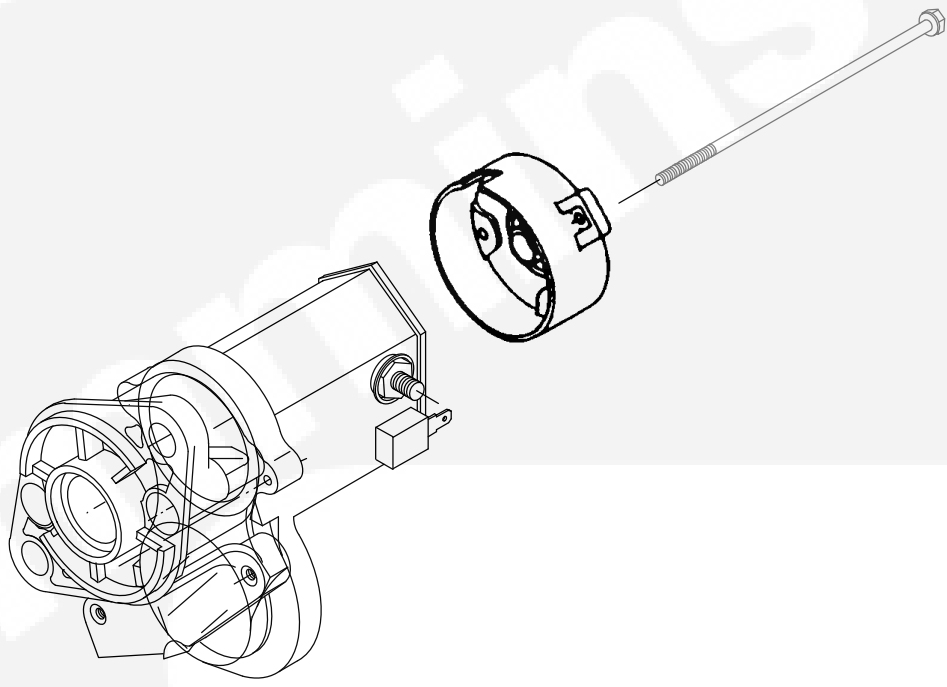
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-6235	3	Nut, Hex (M6 x 1mm)
7	186-6606	1	Spacer
8	186-6238	2	Washer (M6)
9	186-6605	2	Spacer
10	186-6607	1	Bracket, Solenoid
11	186-6577	2	Screw, Hex Head Cap (M6 x 1 x 14mm)

Water Separator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6521	1	Pipe, Fuel DNAC	8	186-6527	2	Washer, Spring (M10)
	186-6522	1	DNAD	9	186-6525	1	Bracket, Mounting DNAC, DNAD, DNAE
	186-6698	1	DNAE, DNAF		186-6757	1	DNAF
2	186-6161	2	Band, Hose DNAC	10	186-6594	1	Washer, Copper
	186-6161	3	DNAD	11	186-6797	1	Plug
	186-6161	4	DNAE, DNAF	12	186-6528	2	Nut (M10)
3	186-6447	3	Nut, Tube	13	186-6529	2	Washer, Spring (M8)
4	186-6446	1	Ferrule, Tube	14	186-6472	2	Screw, Hex Head Cap (M8 x 20mm)
5	186-6523	1	Filter, Fuel (Includes Element)	15	186-6795	2	Ball, Sealing
6	186-6524	1	Element, Fuel Filter	16	186-6442	1	Nut, Tube DNAE/DNAF
7	186-6526	2	Screw, Hex Head Cap (M10 x 30mm)	17	186-6443	1	Ferrule, Tube DNAE/DNAF

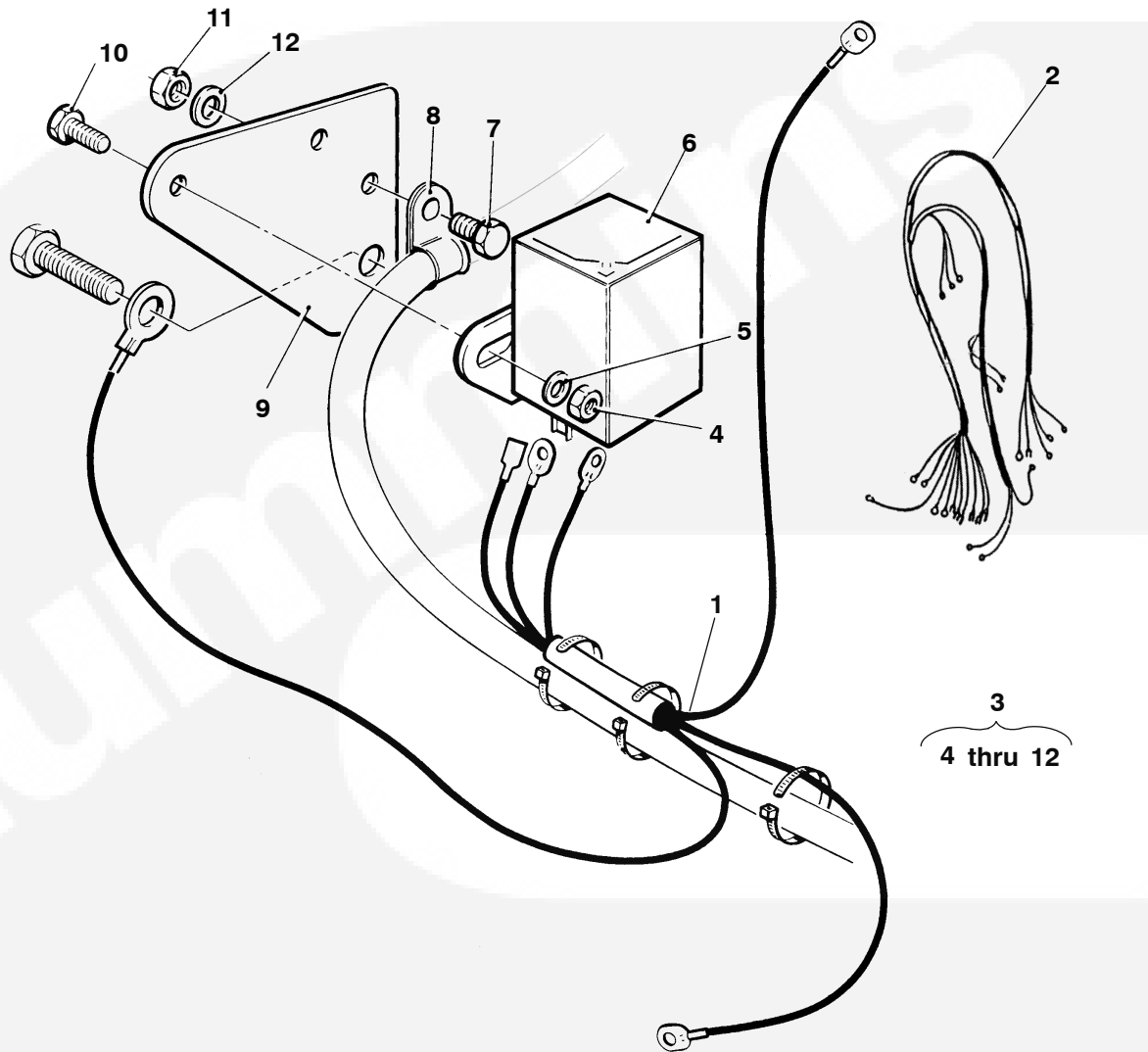
Starter



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	191-2213	1	Starter (1.4kW)				



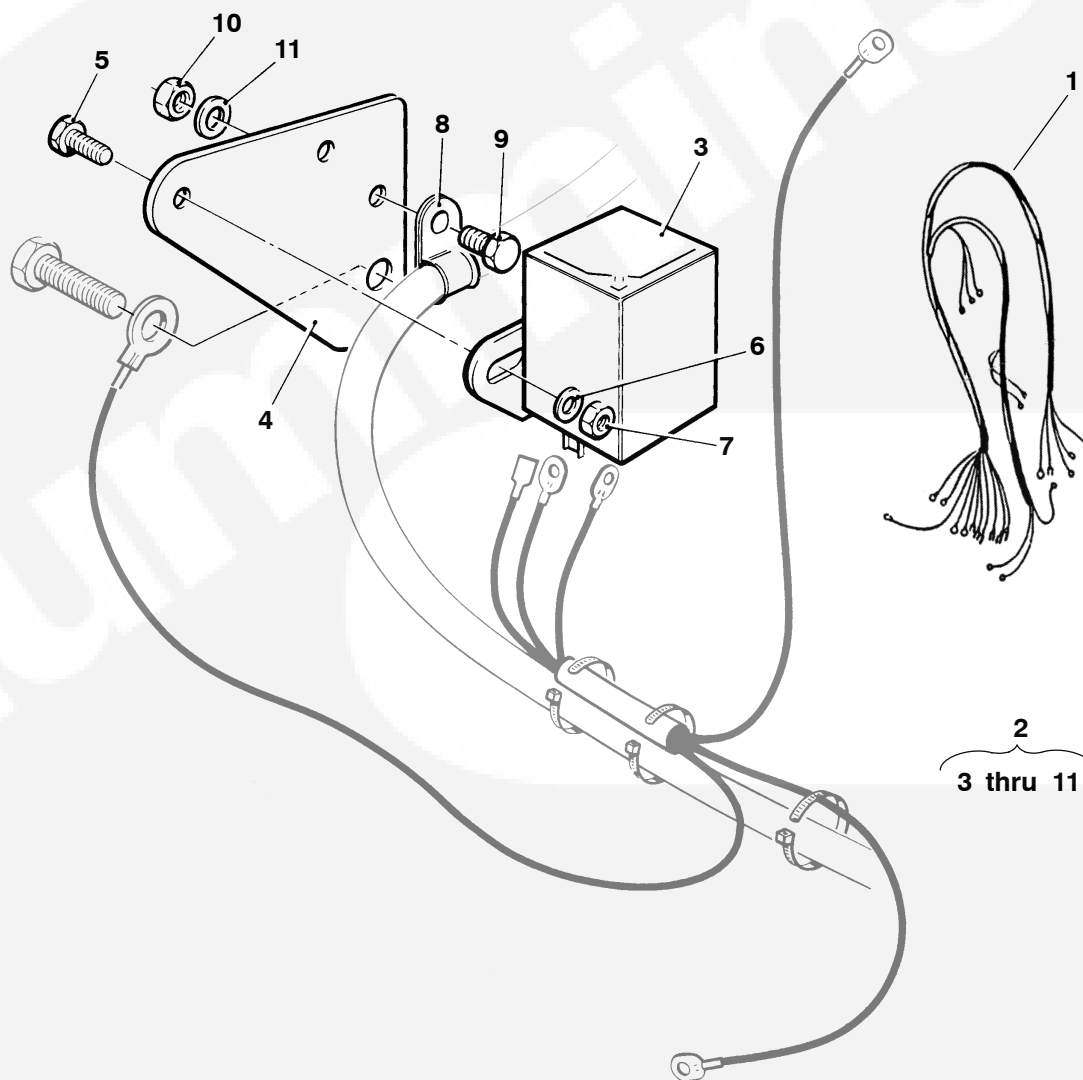
Manual Preheat



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4959	1	+ Kit, Manual Preheat Control (Spec A)	7	186-6575	1	*Screw, Hex Head Cap (M6 x 12mm)
1	186-6373	1	Harness (Reaches From Relay to Starter and Glow Plugs)	8	186-6802	1	*Clip
2	186-6380	1	Harness (Reaches From Switch to Terminal Board and Circuit Breaker)	9	186-6810	1	*Bracket, Mounting
3	186-6804	1	Kit, Glow Plug Relay (Includes Parts Marked *)	10	186-6799	2	*Screw, Set (M5 x 12mm)
4	186-6798	2	*Nut (M5)	11	186-6235	1	*Nut, Hex (M6 x 1mm)
5	186-6131	2	*Washer (M5)	12	186-6240	1	*Washer (M6)
6	186-6809	1	*Relay				

+ - Includes all Parts on This Page and Switch and Seal Listed and Marked (+) on Manual/Remote Control Page.
 * - Replaced by glow plug relay spec C/E.

Glow Plug Relay Detector Control (Type III) (DNAF)

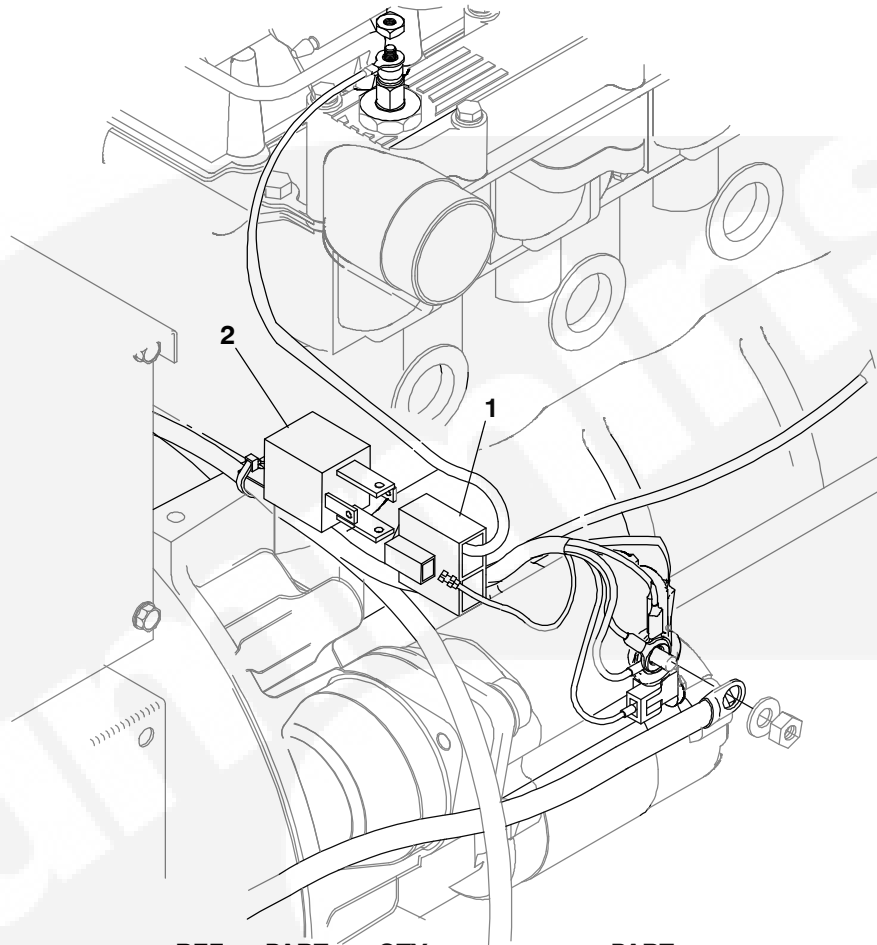


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6373	1	Harness, Wiring
2	186-6804	1	Kit, Glow Plug Relay (Includes Parts Marked *)
3	186-6809	1	*Relay
4	186-6810	1	*Bracket, Mounting
5	186-6799	2	*Screw, Set (M5 x 12mm)
6	186-6131	2	*Washer (M5)
7	186-6798	2	*Nut (M5)
8	186-6802	1	*Clip

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
9	186-6575	1	*Screw, Hex Head Cap * (M6 x 12mm)
10	186-6235	1	*Nut, Hex (M6 x 1mm)
11	186-6240	1	*Washer (M6)

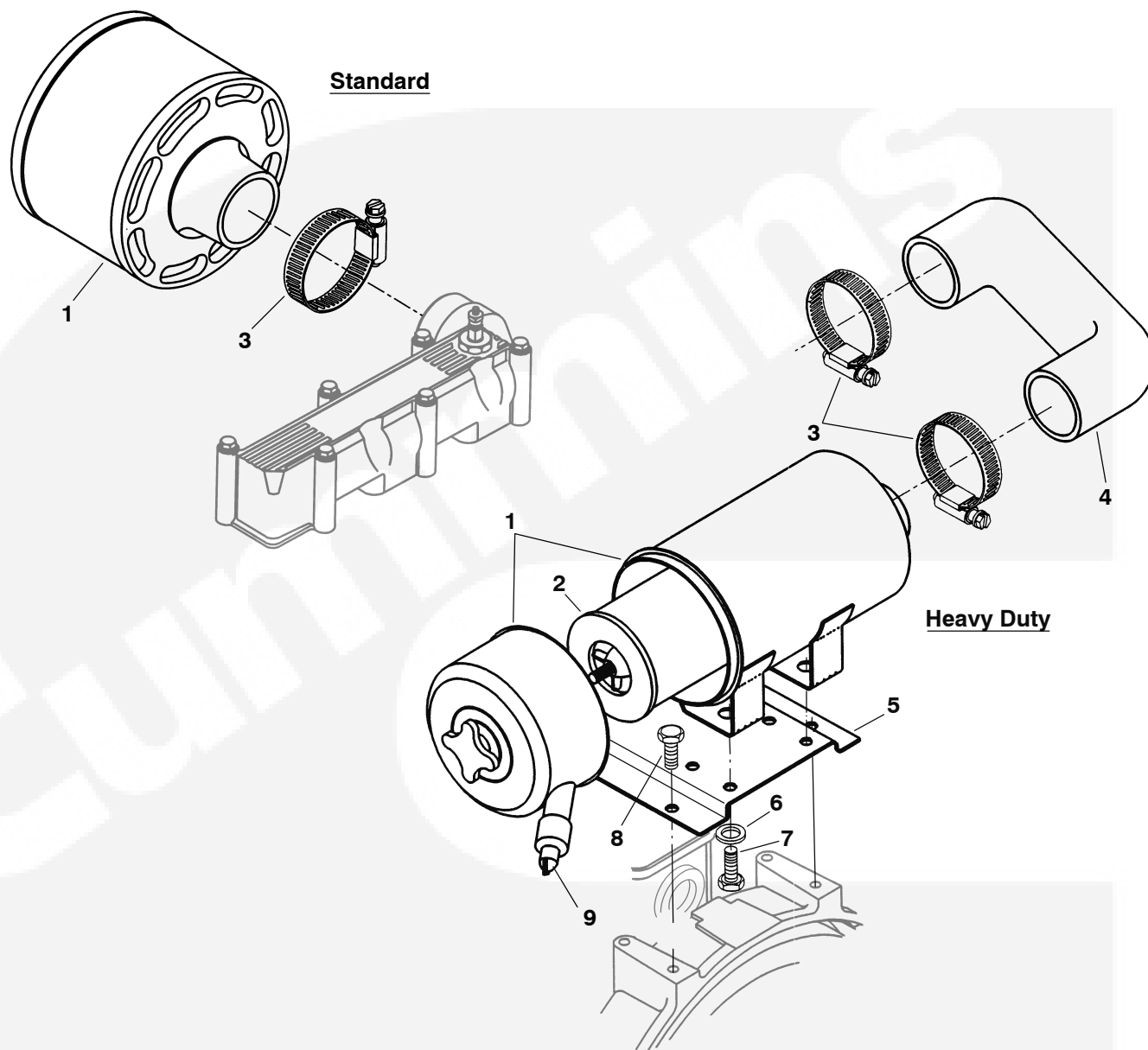
* - Parts Included in Glow Plug Relay Kit.
+ - Replaced by Glow Plug Relay Spec C/E.

Glow Plug Relay **(Begin C and DNAF Spec E)**



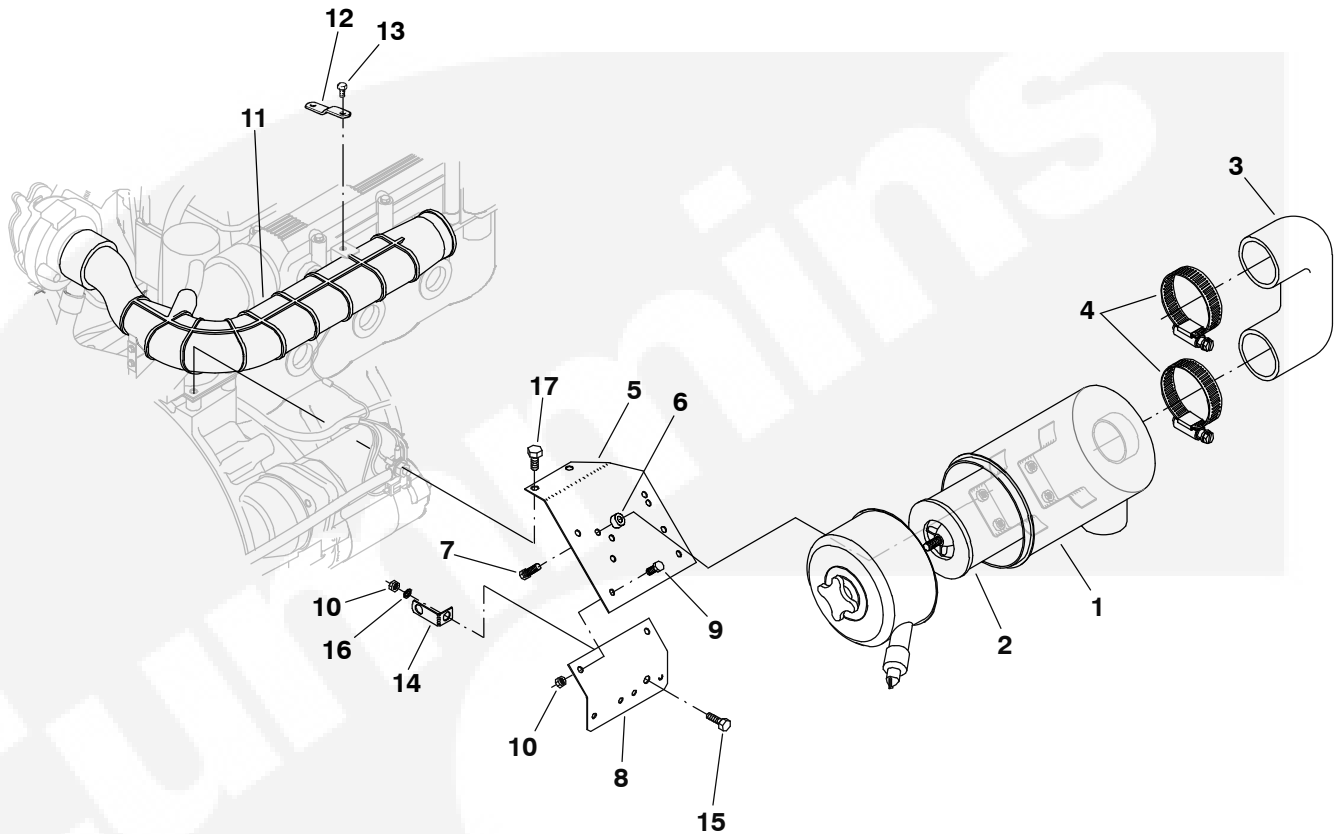
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0334	1	Harness, Glow, Plug Relay
2	184-0335	1	Relay, Glow Plug (70 Amp)

Air Cleaner (DNAC, DNAD, DNAE)



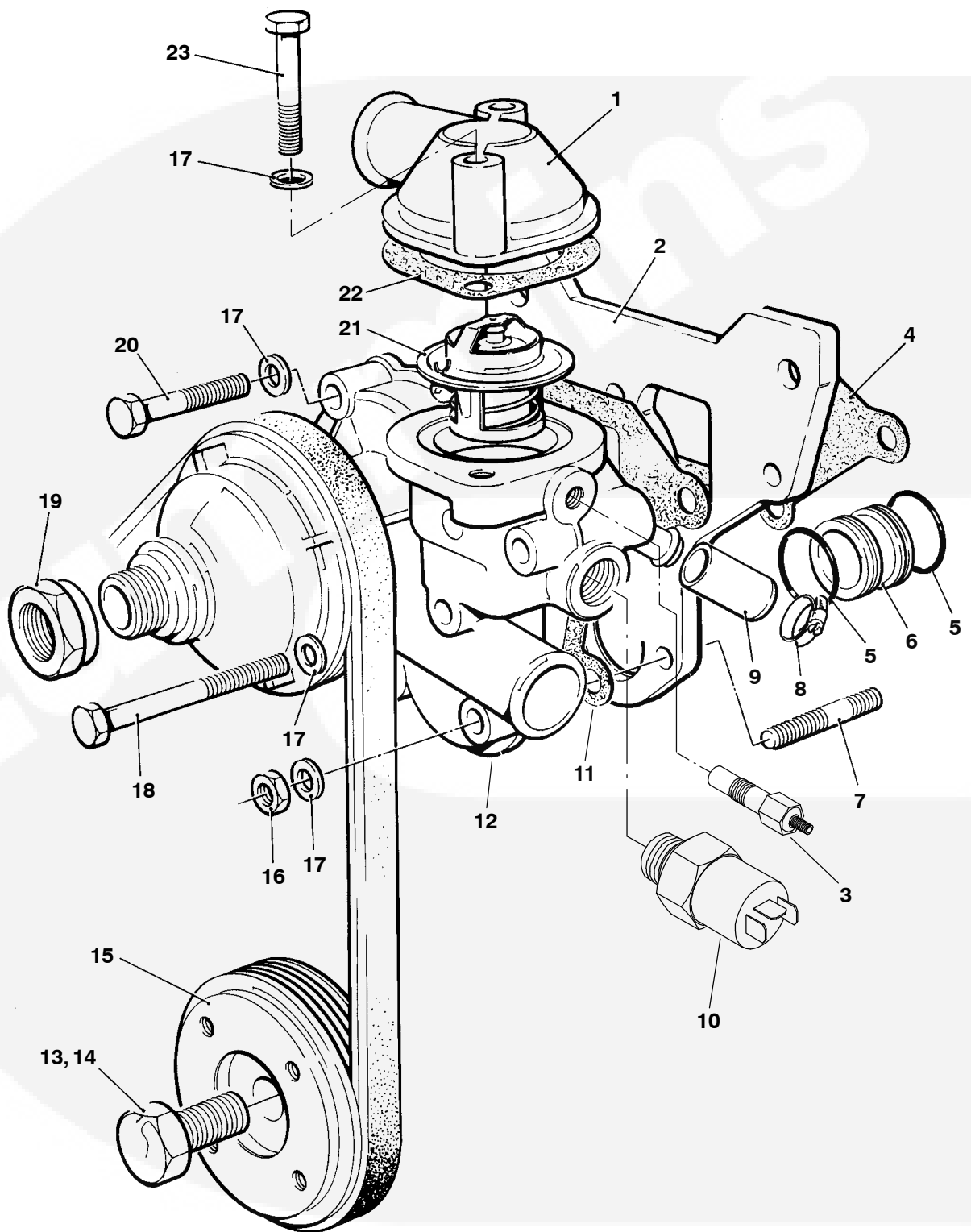
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6593	1	Cleaner, Air Standard (Disposable)	4	186-6270	1	Hose
	186-6686	1	Heavy Duty Assy (Includes Element)	5	186-6817	1	Bracket
2	186-6685	1	Element, Heavy Duty Air Cleaner (Not available for Standard Air Cleaner)	6	186-6529	4	Washer, Spring (M8)
3			Clamp, Hose	7	186-6680	4	Screw, Hex Head Cap (M8 x 16mm)
	186-6661	1	Standard Air Cleaner	8	186-6670	4	Screw, Hex Head Cap (M8 x 40 x 1.25mm)
	186-6661	2	Heavy Duty Air Cleaner	9	186-6641	4	Spacer

Air Cleaner (DNAF)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	186-6690	1	Kit, Air Cleaner	10	186-6274	2	Nut, Hex (M8 x 1.25)
1	186-6686	1	Cleaner Assy, Air (Includes Element)	11	186-6699	1	Pipe, Air Inlet
2	186-6685	1	Element, Air Cleaner	12	186-6700	1	Bracket, Steady
3	186-6270	1	Hose	13	186-6704	1	Screw, Taptight (M8)
4	186-6661	2	Clip, Hose	14	186-6703	1	Brace
5	186-6701	1	Bracket	15	186-6680	1	Screw, Hex Head Cap (M8 x 16mm)
6	186-6712	4	Spacer	16	186-6529	1	Washer, Spring (M8)
7	186-6681	4	Screw, Hex Head Cap (M8 x 25mm)	17	186-6670	2	Screw, Hex Head Cap (M8 x 1.25 x 40mm)
8	186-6702	1	Bracket, Relay				
9	186-6679	2	Screw, Hex Head Cap (M8 x 14mm)				

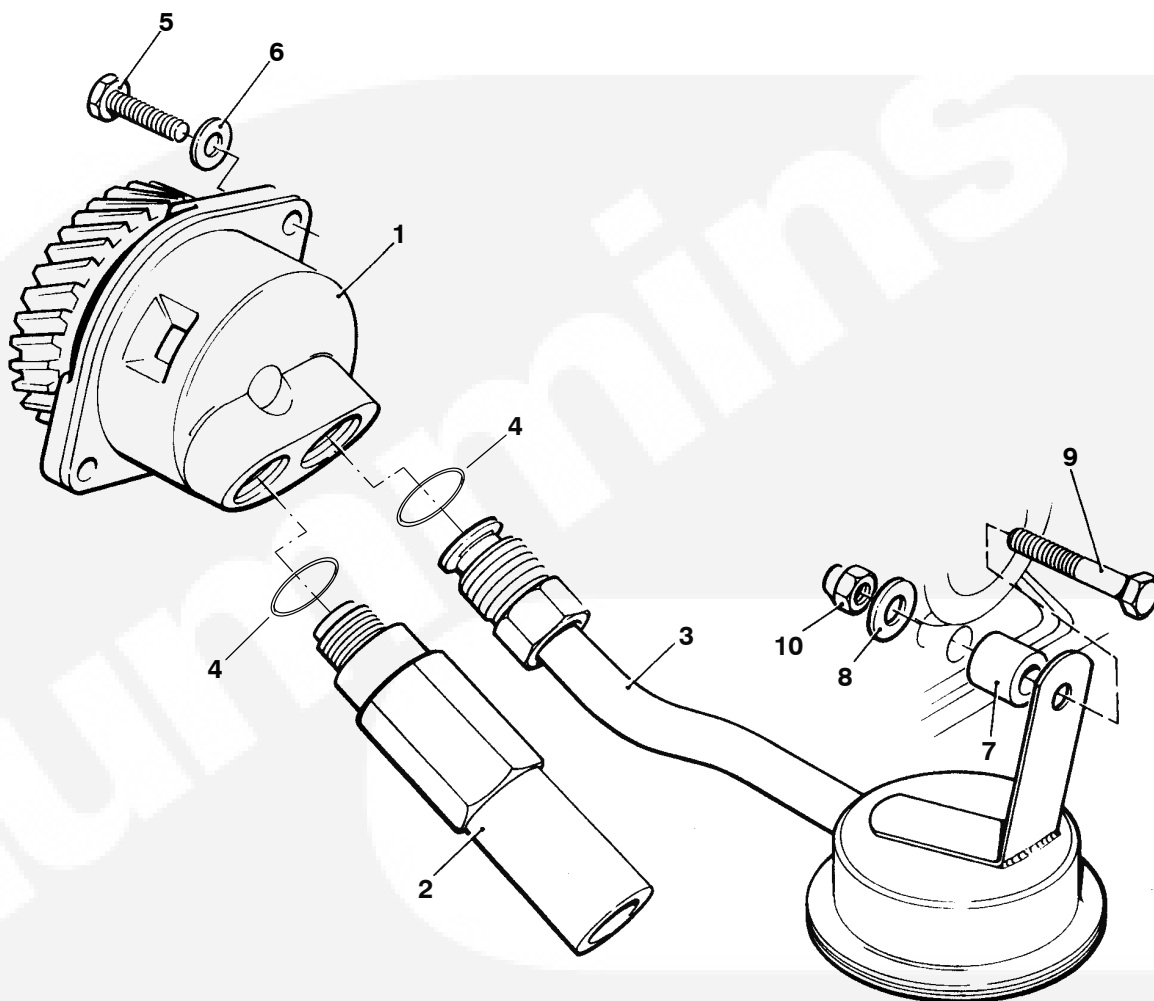
Water Pump



Water Pump

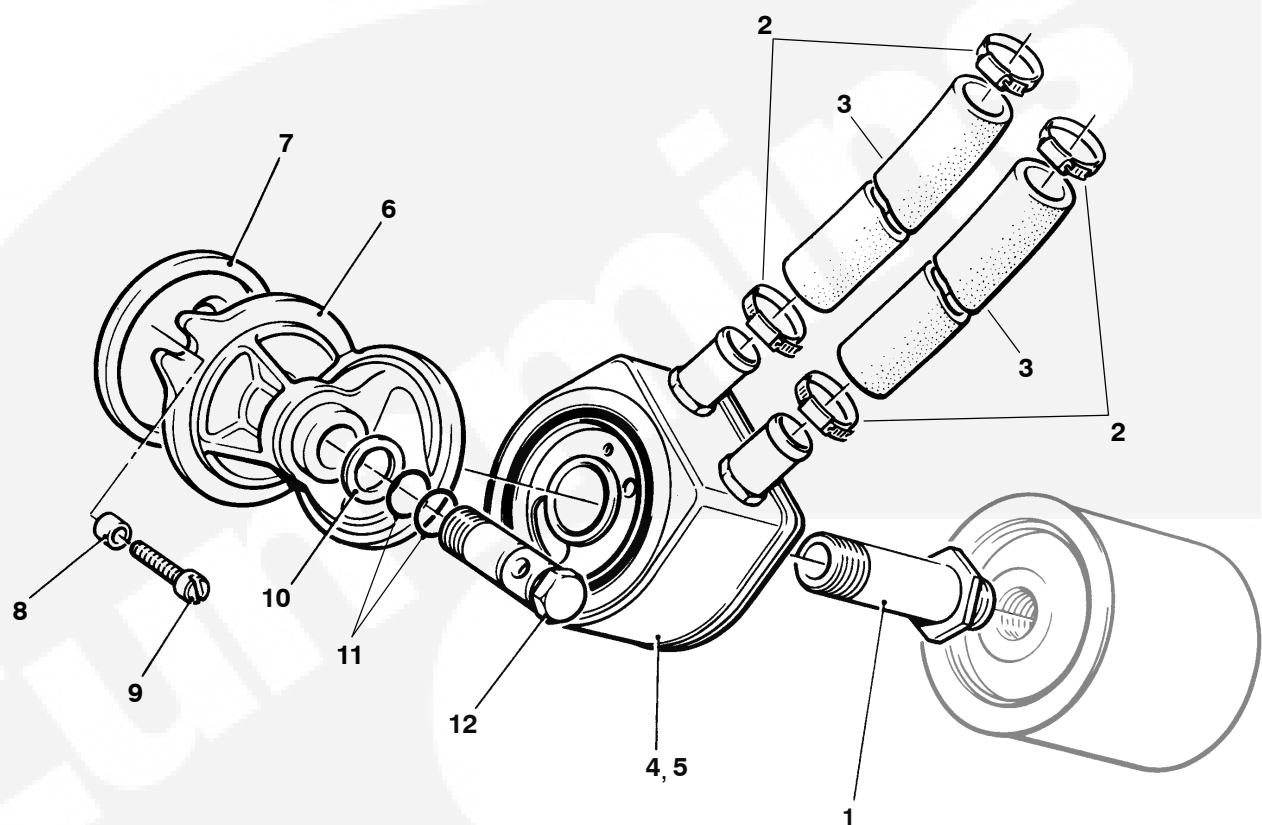
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6189	1	Outlet, Thermostat	13	186-6196	1	Bolt, Crankshaft Pulley
2	186-6181	1	Plate, Mounting	14	186-7003	1	Bolt, Crankshaft Pulley
3	186-6615	1	Sender, Temperature (Used With Detector Control)	15			Pulley, Crankshaft
4	186-6182	1	Gasket		186-6547	1	DNAC, DNAD, DNAE
5	186-6184	2	O'Ring		186-6548	1	DNAF
6	186-6183	1	Sleeve	16	186-6020	2	Nut, Hex (M8 x 1.25)
7	186-6188	2	Stud (M8 x 45mm)	17	186-6187	9	Washer (M8)
8	186-6662	1	Clip, Hose	18	186-6185	3	Bolt (M8 x 75mm)
9	186-6283	1	Cap	19	186-6694	1	Nut, Fan
10	186-6482	1	Switch, Water Temperature (Used With all Controls for Spec A, Used with Manual and Remote Controls for Spec B)	20	186-6186	2	Bolt (M8 x 45mm)
11	186-6180	1	Gasket	21	186-6193	1	Thermostat (190°F)
12			Pump, Water (Puller Not Sold Separately)	22	186-6190	1	Gasket
	186-6178	1	DNAC, DNAD, DNAE	23	186-6191	2	Bolt (M8 x 60mm)
	186-6714	1	DNAF				

Oil Pump



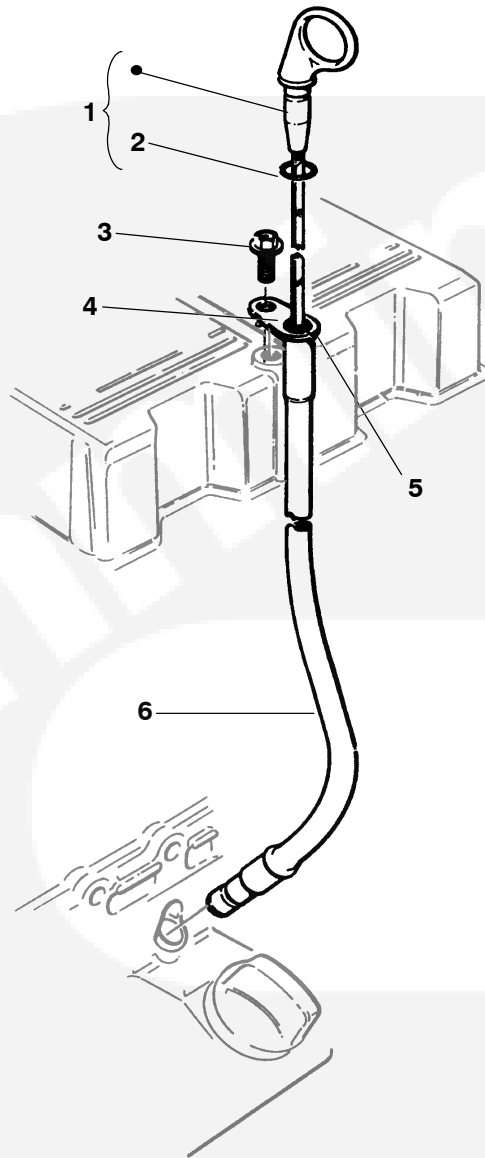
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Pump, Oil	4	186-6791	2	O'Ring, Oil Strainer (DNAF)
	186-6030	1	DNAC, DNAD, DNAE	5	186-6014	2	Screw, Hex Head Cap (M6 x 1 x 25mm)
	186-6720	1	DNAF				
2			Valve, Oil Relief	6	186-6015	2	Washer (M6)
	186-6031	1	DNAC, DNAD, DNAE	7	186-6411	1	Spacer
	186-6789	1	DNAF	8	186-6412	1	Washer (M8)
3			Strainer, Oil	9	186-6413	1	Screw, Hex Head Cap (M6 x 35mm)
	186-6032	1	DNAC, DNAD				
	186-6033	1	DNAE	10	186-6414	1	Nut, Lock (M6)
	186-6790	1	DNAF (Includes O'Ring)				

Oil Cooler
(DNAF)



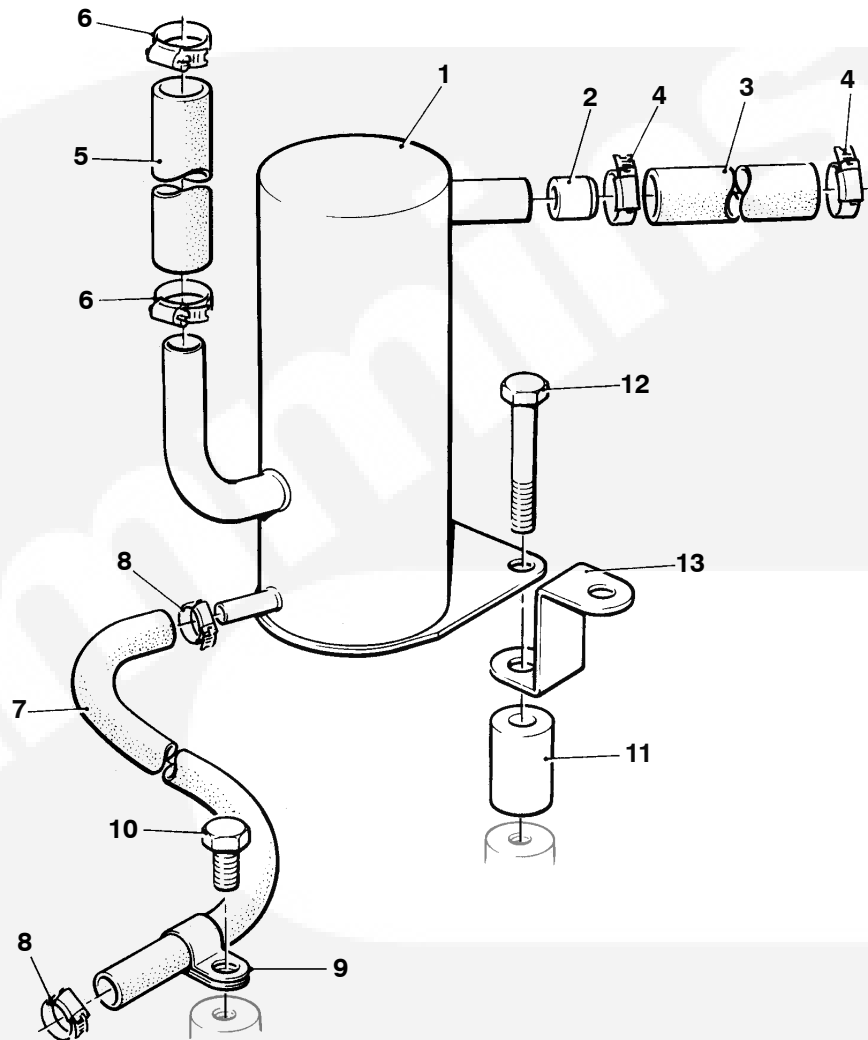
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6783	1	Adapter, Oil Cooler	8	186-6743	1	Spacer
2	186-6737	4	Clip, Hose	9	186-6741	1	Screw, Socket Head Cap (M6 x 30mm)
3	186-6724	2	Hose	10	186-6736	1	Washer, Copper
4	186-6723	1	Cooler, Oil (Includes Gasket)	11	186-6745	2	O'Ring
5	186-6793	1	Gasket, Oil Cooler	12	186-6750	1	Bolt, Banjo
6	186-6751	1	Bracket, Oil Filter				
7	186-6749	1	Ring, Sealing				

Extended Oil Level Indicator



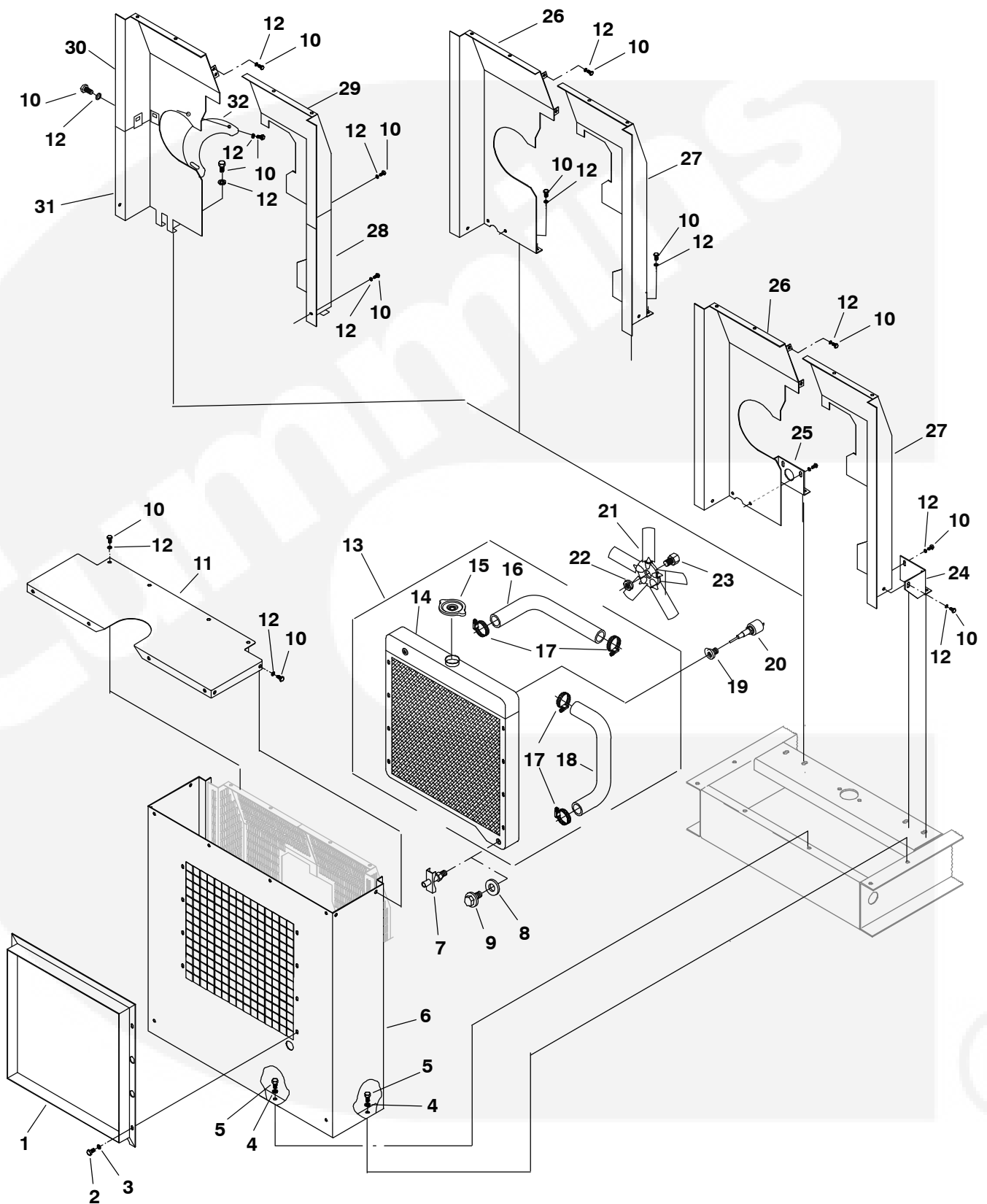
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	123-2127	1	Kit, Extended Oil Level Indicator	3	186-6704	1	Screw
	123-2131	1	DNAC	4	186-6909	1	Bracket
			DNAD, DNAE, DNAF	5	186-6908	1	Grommet
1	186-6907	1	Oil Level Indicator (Includes O'Ring)	6			Tube
2	186-6029	1	O'Ring		186-6905	1	DNAC
					186-6906	1	DNAD, DNAE, DNAF

Crankcase Breather (DNAF)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6778	1	Breather	8	186-6445	2	Clip, Hose
2	186-6779	1	Restrictor	9	186-6744	1	Clip, Cable
3	186-6782	1	Hose, Outlet	10	186-6230	1	Screw (M8 x 8mm)
4	186-6738	2	Clip, Hose	11	186-6787	2	Spacer
5	186-6781	1	Hose, Inlet	12	186-6186	2	Bolt (M8 x 45mm)
6	186-6762	2	Clip, Hose	13	186-6770	1	Bracket, Breather
7	186-6780	1	Hose, Drain				

Radiator (Spec A/B)

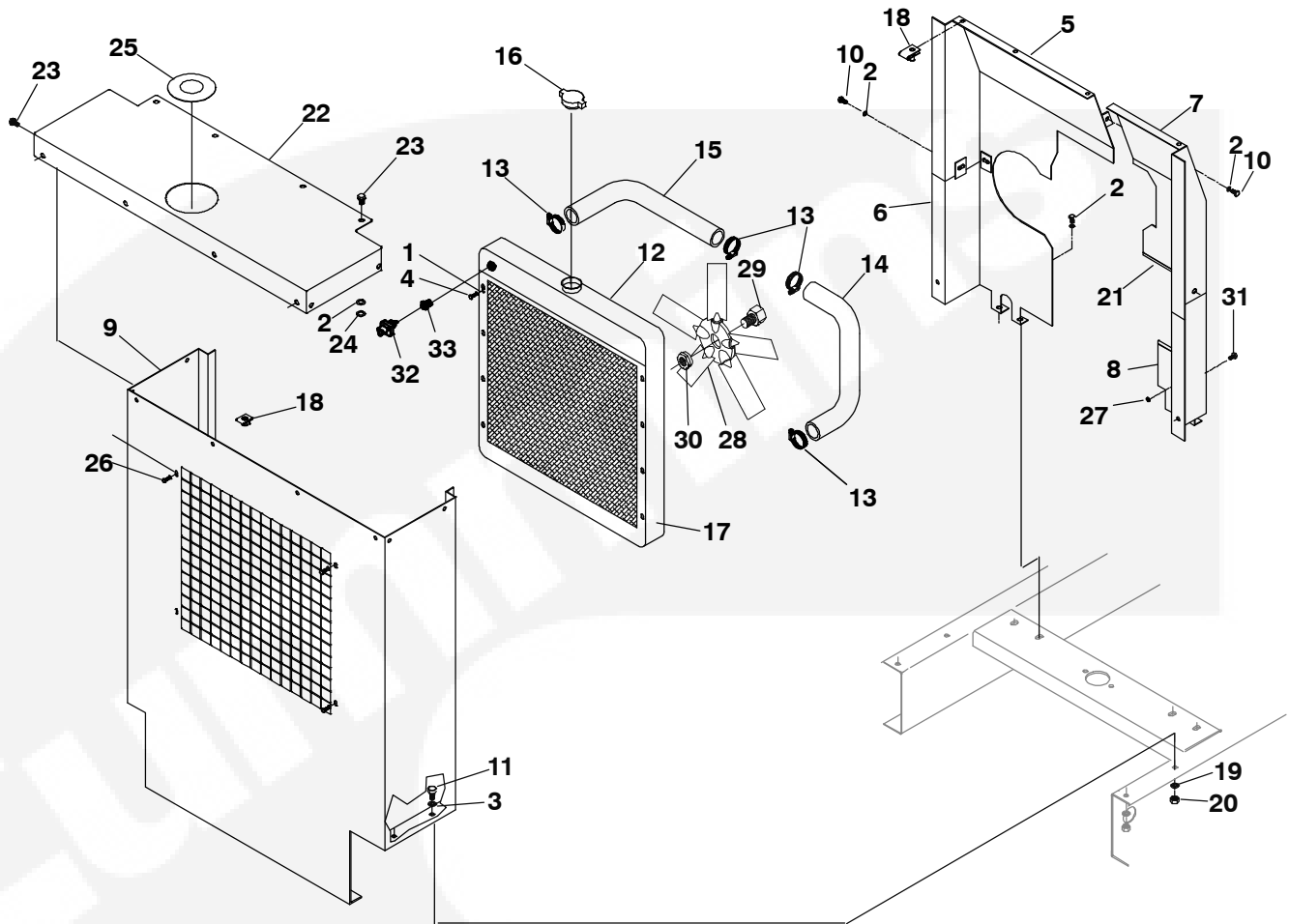


Radiator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	130-4690	1	Kit, Radiator Duct Adapter (Includes Adapter, Screws and Washers)	12			Washer, Flat (M8)
1	186-6346	1	Adapter, Radiator Outlet Duct	186-6975	24		Spec A
2			Screw, Hex Head Cap	186-6975	12		Begin Spec B
			Spec A				Kit, Radiator (Includes Parts Marked *)
			DNAC	186-6926	1		DNAC
821-6002-03	6		W/O Adapter (M6 x 1 x 16mm)	186-6691	1		DNAD, DNAE, DNAF
			W/Adapter	14			*Radiator
821-6002-03	4		M6 x 1 x 16mm	186-6927	1		DNAC
186-6577	4		M6 x 1 x 14mm	186-6708	1		DNAD, DNAE, DNAF
			DNAD, DNAE, DNAF	15	186-6825	1	*Cap, Radiator
821-6002-03	8		W/O Adapter (M6 x 1 x 16mm)	16			*Hose, Top
			W/Adapter	186-6928	1		DNAC
821-6002-03	4		M6 x 1 x 16mm	186-6706	1		DNAD, DNAE, DNAF
186-6577	4		M6 x 1 x 14mm	17	186-6660	4	*Clip, Hose
821-6006-01	8		Begin Spec B	18			*Hose, Bottom
3			Washer, Flat (M6) (Spec A)	186-6930	1		DNAC
			DNAC	186-6707	1		DNAD, DNAE, DNAF
186-6974	6		W/O Adapter	19	505-0018	1	Bushing (1/2 x 1/4 NPT)
186-6974	8		W/Adapter	20	186-7214	1	Switch, Low Coolant (S7)
			DNAD, DNAE, DNAF	21			Fan, Radiator
186-6974	8		W/O Adapter	186-6929	1		DNAC
186-6974	8		W/Adapter	186-6695	1		DNAD, DNAE, DNAF
			DNAD, DNAE, DNAF	22	186-7052	1	Nut, Fan
186-6974	8		W/O Adapter	23	186-6705	1	Spacer, Radiator
186-6974	8		W/Adapter	24	186-6318	1	Bracket, Right Guard (Spec A)
4	186-6976	6	Washer, Flat (M10)	25	186-6319	1	Bracket, Left Guard (Spec A)
5	186-6676	6	Screw, Hex Head Cap (M10 x 1.5 x 20mm)	26	186-6315	1	Guard, Left Fan (Spec A)
6			Cowl, Radiator	27	186-6314	1	Guard, Right Fan (Spec A)
			Spec A	28	186-7196	1	Guard, Bottom Right Fan (Begin Spec B)
186-6375	1		DNAC	29			Guard, Top Right Fan (Begin Spec B)
186-6317	1		DNAD, DNAE, DNAF	186-7103	1		DNAC, DNAD, DNAE
			Begin Spec B	186-7137	1		DNAF
186-7102	1		DNAC	30	186-7195	1	Guard, Top Left Fan (Begin Spec B)
186-6889	1		DNAD, DNAE, DNAF	31	186-7117	1	Guard, Bottom Left Fan (Begin Spec B)
7	186-6824	1	Valve, Drain	32	186-7197	1	Plate, Alternator Adjustment (Begin Spec B)
8	186-6823	1	Gasket, Drain Plug				
9	186-6822	1	Plug, Drain				
10	186-6668	AR	Screw, Hex Head Cap				
11			Cover, Radiator Support (Unhoused Units)				
			Spec A				
186-6316	1		Begin Spec B				
186-7118	1						

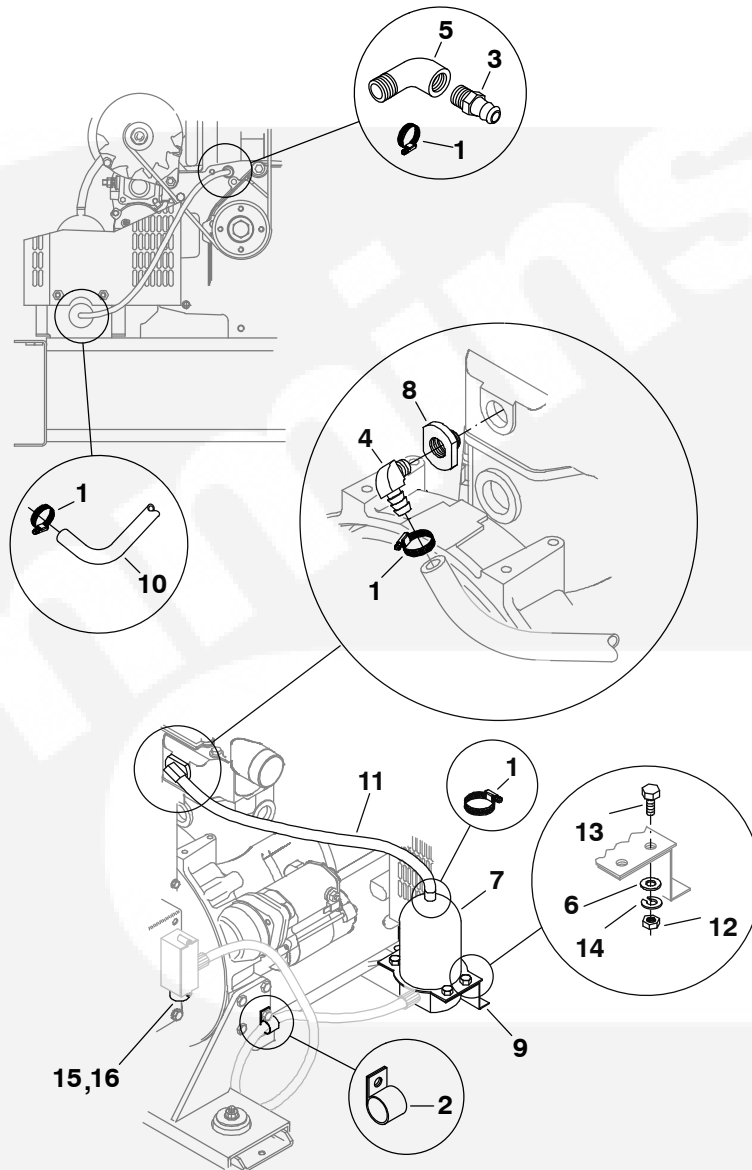
* – Parts Included in Radiator Kit.

Radiator (Begin Spec C and DNAF Spec E)



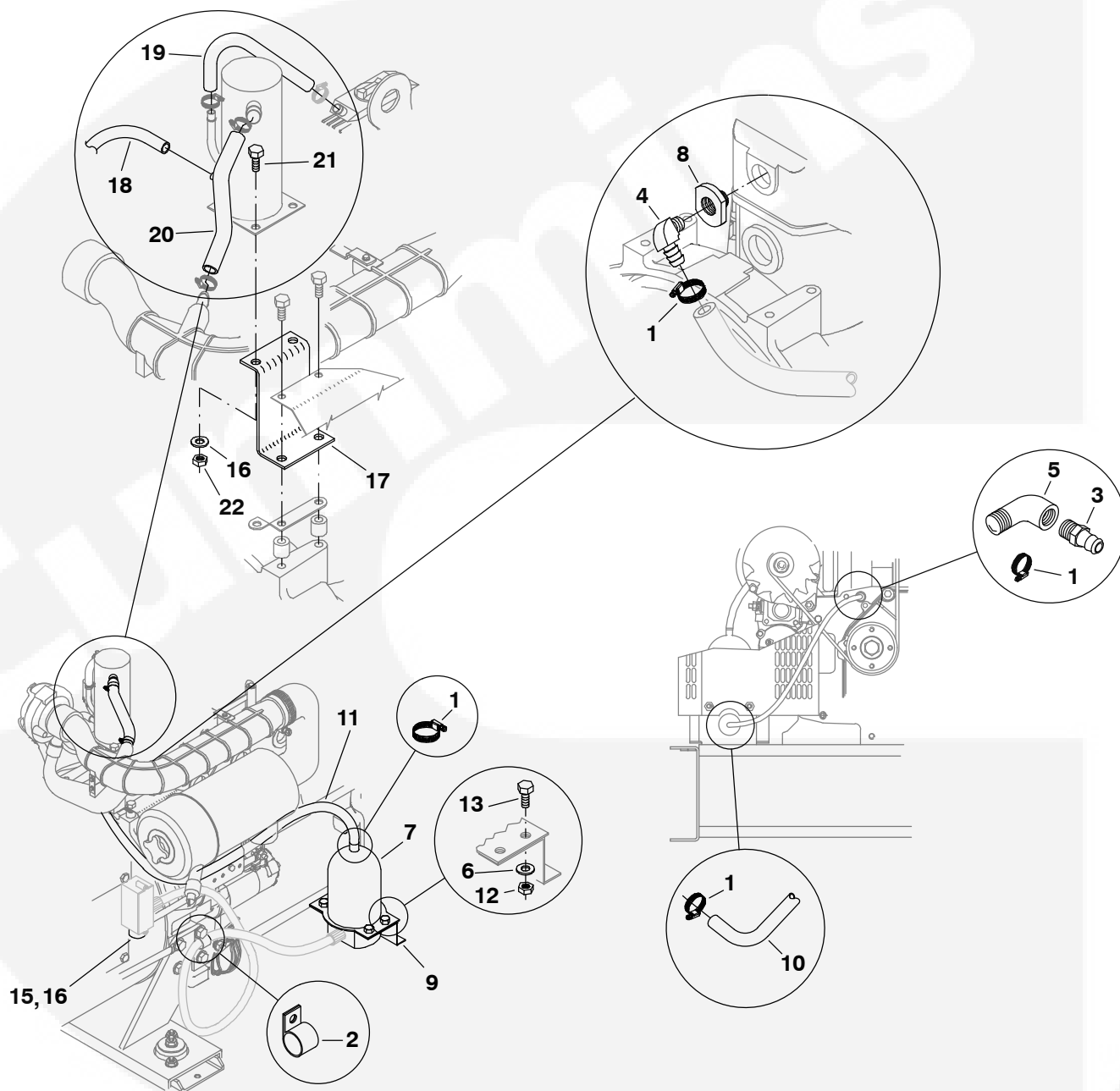
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6187	4	Washer, Flat (5/16")	18	184-0326	23	U-Nut
2	186-6975	24	Washer, Flat (M8)	19	186-6671	4	Washer, Lock (M10)
3	186-6976	4	Washer, Flat (M10)	20	186-6665	4	Nut, Hex (M10 x 1.5)
4	186-6546	12	Screw, Hex Head Cap (M6 x 1.0 x 16mm)	21	184-0315	.5'	Trim, Edge Protection
5	184-0240	1	Guard, Radiator (Top LH)	22	184-0221	1	Panel, End Cap
6	184-0241	1	Guard, Radiator (Bottom LH)	23	186-6064	12	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
7	184-0238	1	Guard, Radiator (Top RH)	24	184-0253	12	Washer, Nylon Flat
	184-0242	1	DNAC, DNAD and DNAE	25	186-6640	1	Plug, Button (4" Dia.)
8	184-0239	1	Guard, Radiator (Bottom RH)	26	821-6007-02	8	Screw, Hex Head Cap (M6 x 1.0 x 16mm) DNAC, DNAD and DNAE
9	184-0221	1	Panel, Radiator HSC		821-6006-01	8	Screw, Hex Head Cap Sems (M6 x 1.0 x 16mm) DNAC DNAF
10	186-6668	12	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	27	526-2060	4	Washer, Flat (#10)
11	186-6676	6	Screw, Hex Head Cap (M10 x 1.5 x 20mm)	28			Fan
12			Radiator		186-6929	1	DNAC
	186-6708	1	DNAC, DNAD and DNAE		186-6695	1	DNAD, DNAE, DNAF
	184-0323	1	DNAF	29	186-6705	1	Spacer, Fan
13	186-6660	4	Clip, Hose	30	186-7052	1	Nut (M24 x 1.5 L-Hand)
14	186-6707	1	Hose, Bottom	31	818-0231-02	4	Rivet, Pop
15	186-6706	1	Hose (Top)	32	193-0558	1	Sensor, Level (Coolant)
16	186-6825	1	Cap, Radiator	33	184-0317	1	Bushing (1/2 x 1/4NPT)
17	184-0341	1	Shroud, Fan				

Coolant Heater DNAC, DNAD, DNAE



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	333-0617-01	1	Kit, Coolant Heater 120V (H036)	8	186-6631	1	Adapter, Cylinder Head
	333-0617-02	1	208/240V (H540)	9	186-6372	1	Bracket, Heater
1	186-6451	4	Clamp, Hose (7/16")	10	186-6632	1	Bend, Hose
2	186-6475	1	Clamp, Tubing (3/4")	11			Hose
3	186-6495	1	Barb, Hose		186-6657	1	DNAC (18")
4	186-6496	1	Barb, 90° Hose		186-6658	1	DNAD (22")
5	186-6941	1	Elbow, Street (3/8")		186-6659	1	DNAE (26")
6	186-6617	4	Washer, Flat Spring (M6)	12	186-6209	4	Nut, Hex (M6 x 1)
7			Heater, Coolant (Includes Thermostat and Element)	13	186-6546	4	Screw, Hex Head Cap (M6 x 1 x 16mm)
	333-0588-01	1	120V	14	186-6591	4	Washer, Flat
	333-0588-02	1	208/240V	15	186-6624	1	Fitting, Conduit (1/2")
	333-0545	1	Thermostat, Coolant Heater	16	186-6911	2	Screw, Self Tapping (#8 x 3/4")
			Element, Coolant Heater				
	333-0546	1	120V				
	333-0547	1	208/240V				

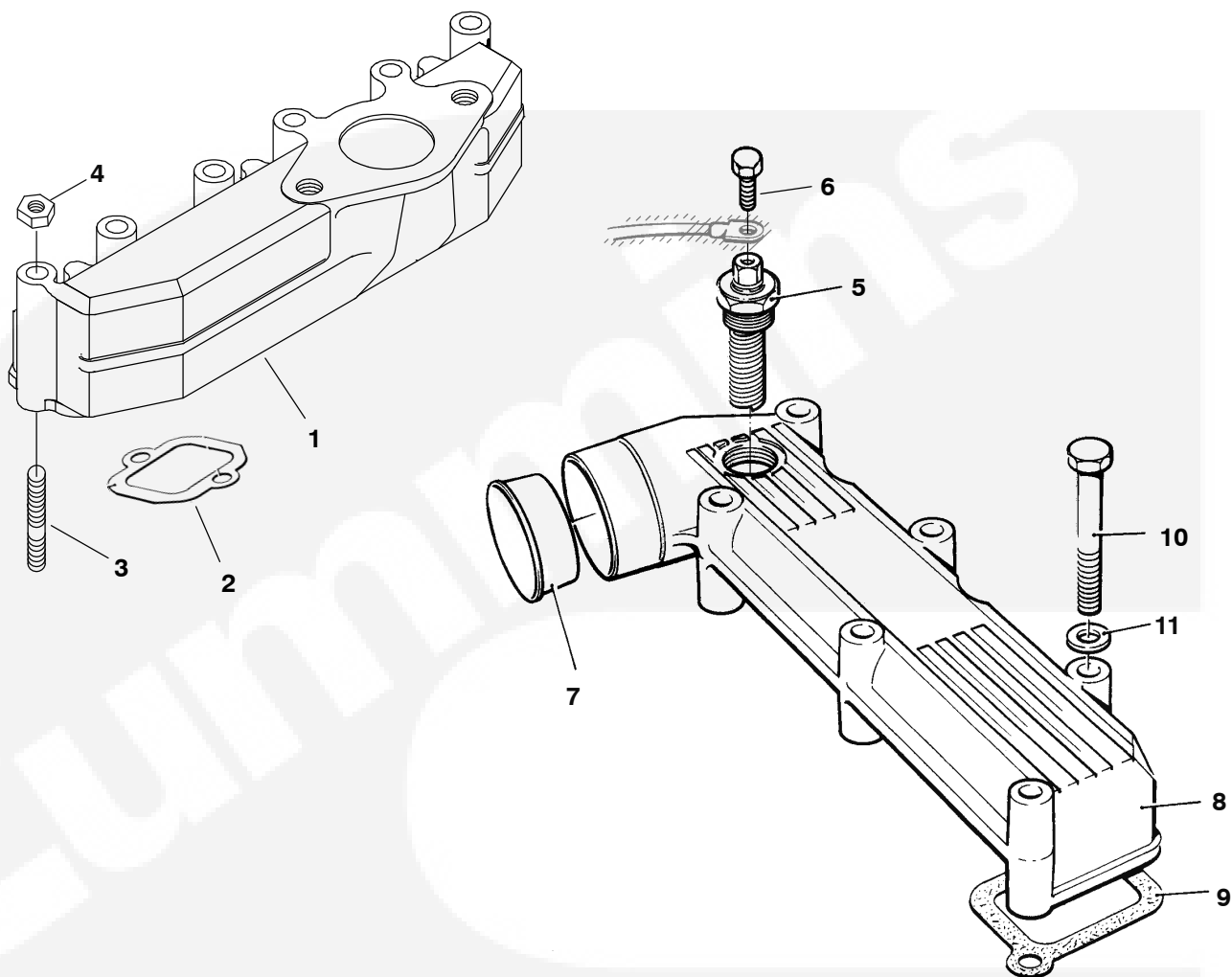
Coolant Heater DNAF



Coolant Heater DNAF

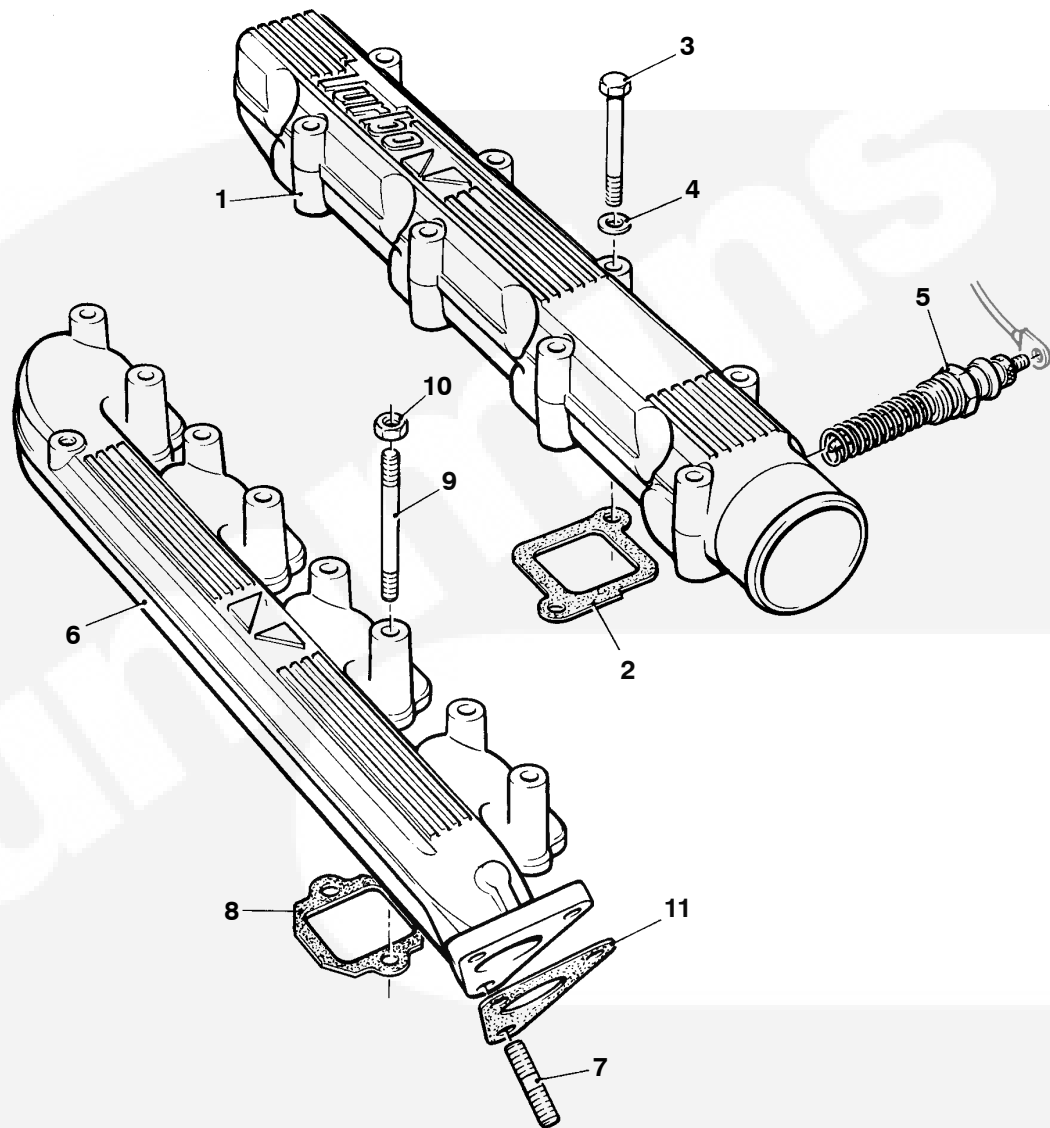
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Coolant Heater	8	186-6631	1	Adapter, Cylinder Head
	333-0620-01	1	120V	9	186-6372	1	Bracket, Heater
	333-0620-02	1	208/240V	10	186-6632	1	Bend, Hose
1	186-6451	4	Clamp, Hose (7/16")	11	186-6654	1	Hose (30")
2	186-6475	1	Clamp, Tubing (3/4")	12	186-6209	4	Nut, Hex (M6 x 1)
3	186-6495	1	Barb, Hose	13	186-6546	4	Screw, Hex Head Cap (M6 x 1 x 16mm)
4	186-6830	1	Elbow, 45° Street	14	186-6624	1	Fitting, Conduit (1/2")
5	186-6941	1	Elbow, Street (3/8")	15	186-6911	2	Screw, Self Tapping (#8 x 3/4")
6	186-6617	4	Washer, Flat Spring (M6)	16	186-6618	2	Washer, Spring (M8)
7			Heater, Coolant (Includes Thermostat and Element)	17	186-6829	1	Bracket, Oil Breather
	333-0588-01	1	120V	18	186-6653	1	Hose (1/4" x 20")
	333-0588-02	1	240V	19	186-6655	1	Hose, Breather
	333-0545	1	Thermostat, Coolant Heater	20	186-6656	1	Hose, Breather
			Element, Coolant Heater	21	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
	333-0546	1	120V	22	186-6274	2	Nut, Hex (M8 x 1.25)
	333-0547	1	208/240				

Manifold (DNAC, DNAD, DNAE)



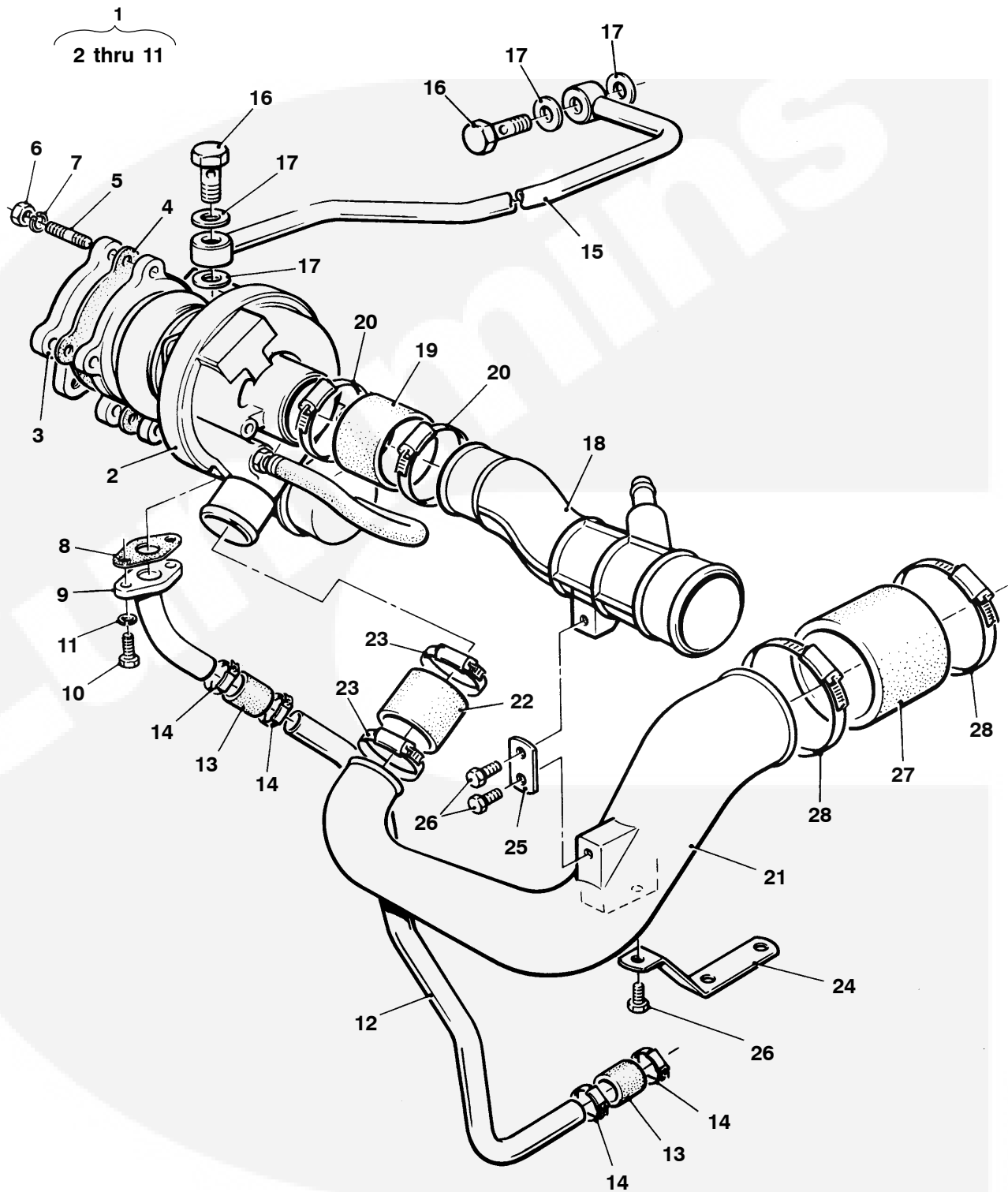
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Manifold, Exhaust (Includes Manifold Gaskets)	7	186-6454	1	Restrictor, Inlet Manifold (Includes Decal)
	186-7001	1	DNAC	8			Manifold, Inlet
	186-6456	1	DNAD		186-6728	1	DNAC
	186-7002	1	DNAE		186-6452	1	DNAD
2			Gasket, Exhaust Manifold		186-6729	1	DNAE
	186-6206	2	DNAC	9			Gasket, Inlet Manifold
	186-6206	3	DNAD		186-6202	4	DNAC
	186-6206	4	DNAE		186-6202	6	DNAD
3			Stud (M6)		186-6202	8	DNAE
	186-6208	4	DNAC	10			Bolt (M6 x 1 x 75mm)
	186-6208	6	DNAD		186-6203	4	DNAC
	186-6208	8	DNAE		186-6203	6	DNAD
4			Nut (M6 x 1)		186-6203	8	DNAE
	186-6209	4	DNAC	11			Washer (M6)
	186-6209	6	DNAD		186-6015	4	DNAC
	186-6209	8	DNAE		186-6015	6	DNAD
5	186-6459	1	Plug, Heater (Includes Screw)		186-6015	8	DNAE
6	186-6841	1	Screw				

Manifold (DNAF)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6774	1	Manifold, Inlet	7	186-6740	1	Stud
2	186-6202	4	Gasket, Inlet Manifold	8	186-6773	4	Gasket, Exhaust Manifold
3	186-6203	8	Bolt (M6 x 1 x 75mm)	9	186-6742	8	Stud
4	186-6015	8	Washer (M6)	10	186-6020	8	Nut, Hex (M8 x 1.25)
5	186-6264	1	Plug, 12V Heater	11	186-6769	1	Gasket, Exhaust Manifold
6	186-6768	1	Manifold, Exhaust				

Turbocharger

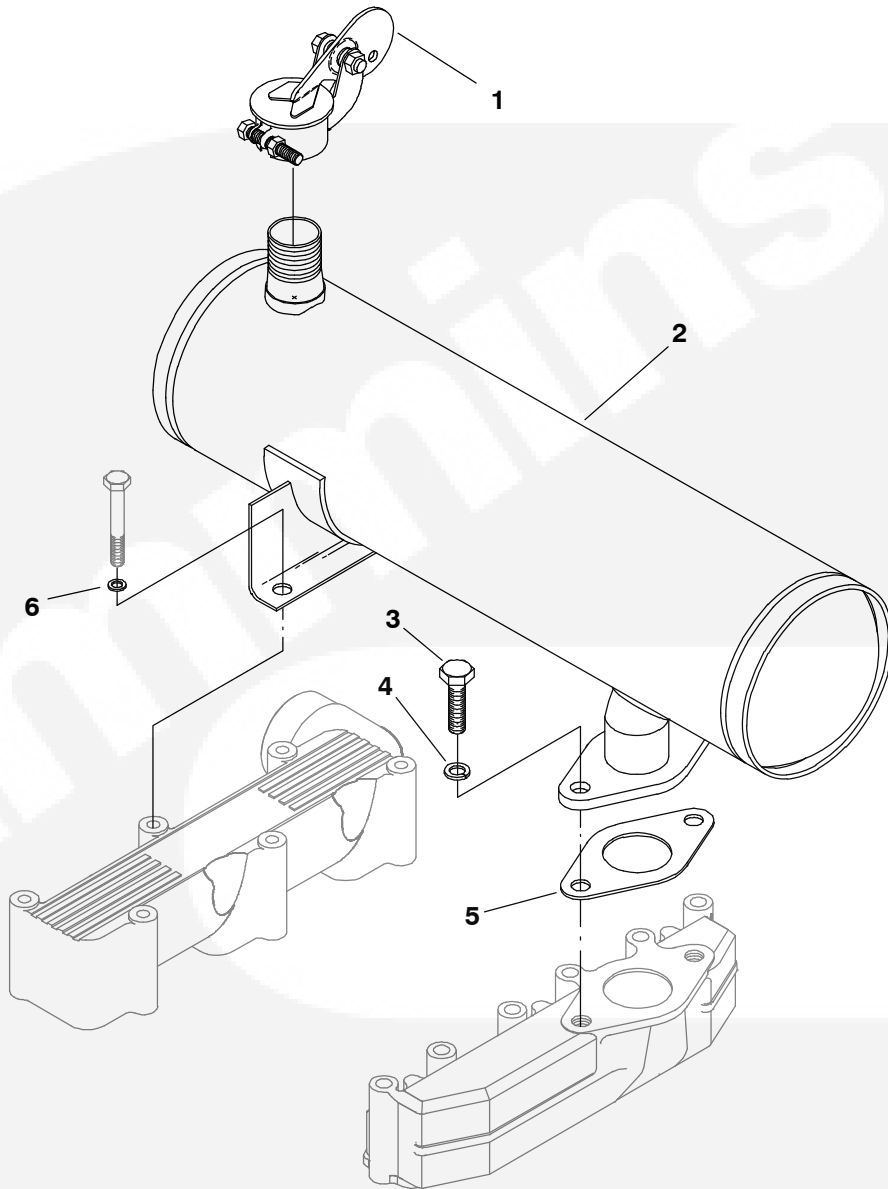


Turbocharger

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6748	1	Turbocharger Assy, (Includes Parts Marked *)	16	186-6786	2	Plug
2	186-6493	1	*Turbocharger	17	186-6739	4	Seal
3	186-6794	1	*Outlet, Side	18	186-6776	1	Pipe, Air Inlet
4	186-6494	1	*Gasket, Flange	19	186-6788	1	Hose
5	186-6740	4	*Stud	20	186-6734	2	Clip, Hose
6	186-6020	4	*Nut, Hex (M8 x 1.25)	21	186-6765	1	Pipe, Air Outlet
7	186-6019	4	*Washer, Spring (M8)	22	186-6777	1	Hose
8	186-6767	1	*Gasket	23	186-6733	2	Clip, Hose
9	186-6766	1	*Pipe, Oil Drain	24	186-6770	1	Bracket, Support
10	186-6037	2	*Screw (M6 x 12mm)	25	186-6775	1	Stay
11	186-6597	2	*Washer, Spring (M6)	26	186-6704	3	Screw, Taptight (M8)
12	186-6785	1	Pipe, Oil Drain	27	186-6746	1	Hose
13	186-6772	2	Hose	28	186-6735	2	Clip, Hose
14	186-6738	4	Clip, Hose				
15	186-6771	1	Pipe, Oil Feed				

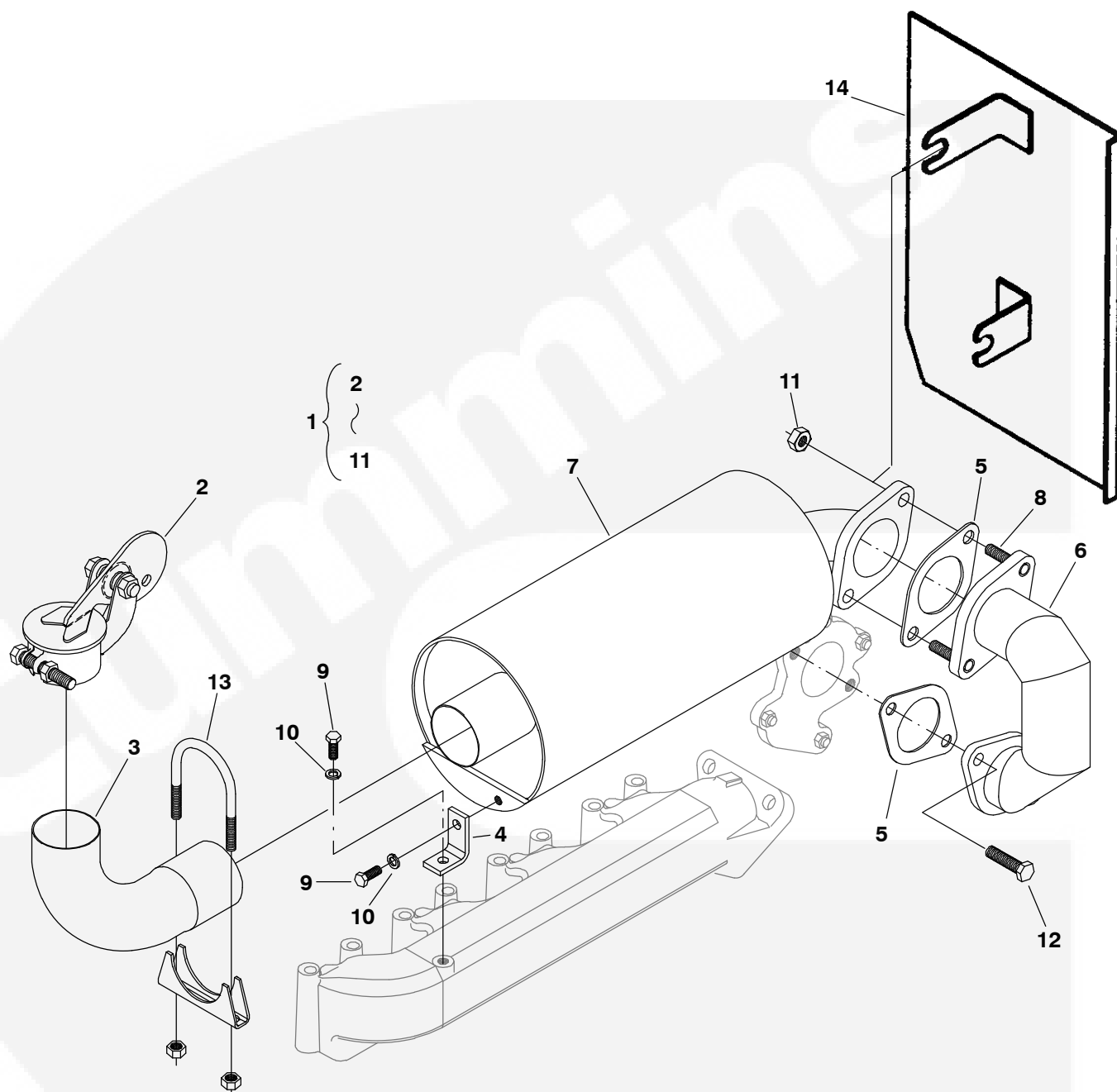
* – Parts Included in Turbocharger Assy.

Muffler (DNAC, DNAD DNAE)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3140	1	Kit, Industrial Muffler (Includes Parts Marked *)	3	186-6676	2	*Screw, Hex Head Cap (M10 x 1.5 x 20mm)
			Cap, Rain	4	186-6619	2	*Washer, Flat (M10)
			Spec A (1-1/2")	5	186-6683	1	*Gasket, Muffler (Fibre)
				6	186-6933	2	*Washer
2	186-6939	1	* Industrial	* - Parts Included in Industrial Muffler Kit.			
	186-6981	1	Critical				
	186-6634	1	Begin Spec B (2")				
			Muffler				
			Spec A				
	186-6612	1	* Industrial				
	186-6982	1	Critical				
	186-6982	1	Begin Spec B (Critical)				
	186-6982	1	DNAC, DNAD				
	186-7063	1	DNAE				

Industrial Muffler (DNAF) (Spec A)

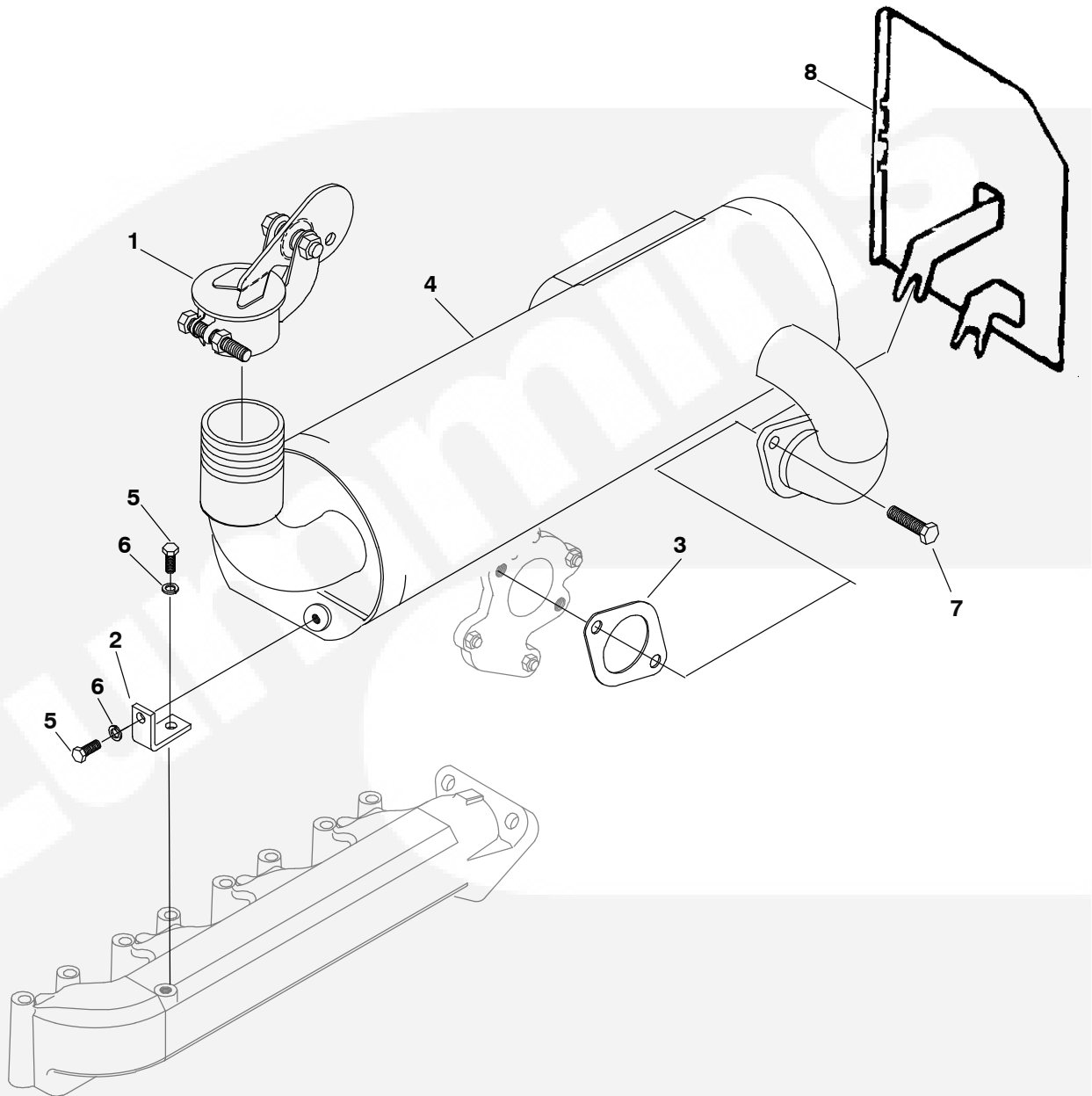


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3141	1	Kit, Industrial Muffler (Includes Parts Marked *)
2	186-6634	1	*Cap, Rain (2")
3	186-6639	1	*Elbow, 90° Exhaust
4	186-6710	1	*Bracket, Support
5	186-6683	2	*Gasket, Manifold Bend
6	186-6709	1	*Bend, Manifold
7	186-6711	1	*Muffler, Industrial
8	186-6673	2	*Stud (M10 x 35mm)
9	186-6680	2	*Screw, Hex Head Cap (M8 x 16mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	186-6412	2	*Washer (M8)
11	186-6684	2	*Nut (M10)
12	186-6570	2	Bolt (M10 x 1.5 x 20mm)
13	186-6914	1	Clamp, Exhaust (Includes Bolt, Bracket and M8 Nut)
14	186-6391	1	Shield, Heat

* - Parts Included in Industrial Muffler Kit.

**Residential Muffler
(DNAF)
(Begin Spec B)**

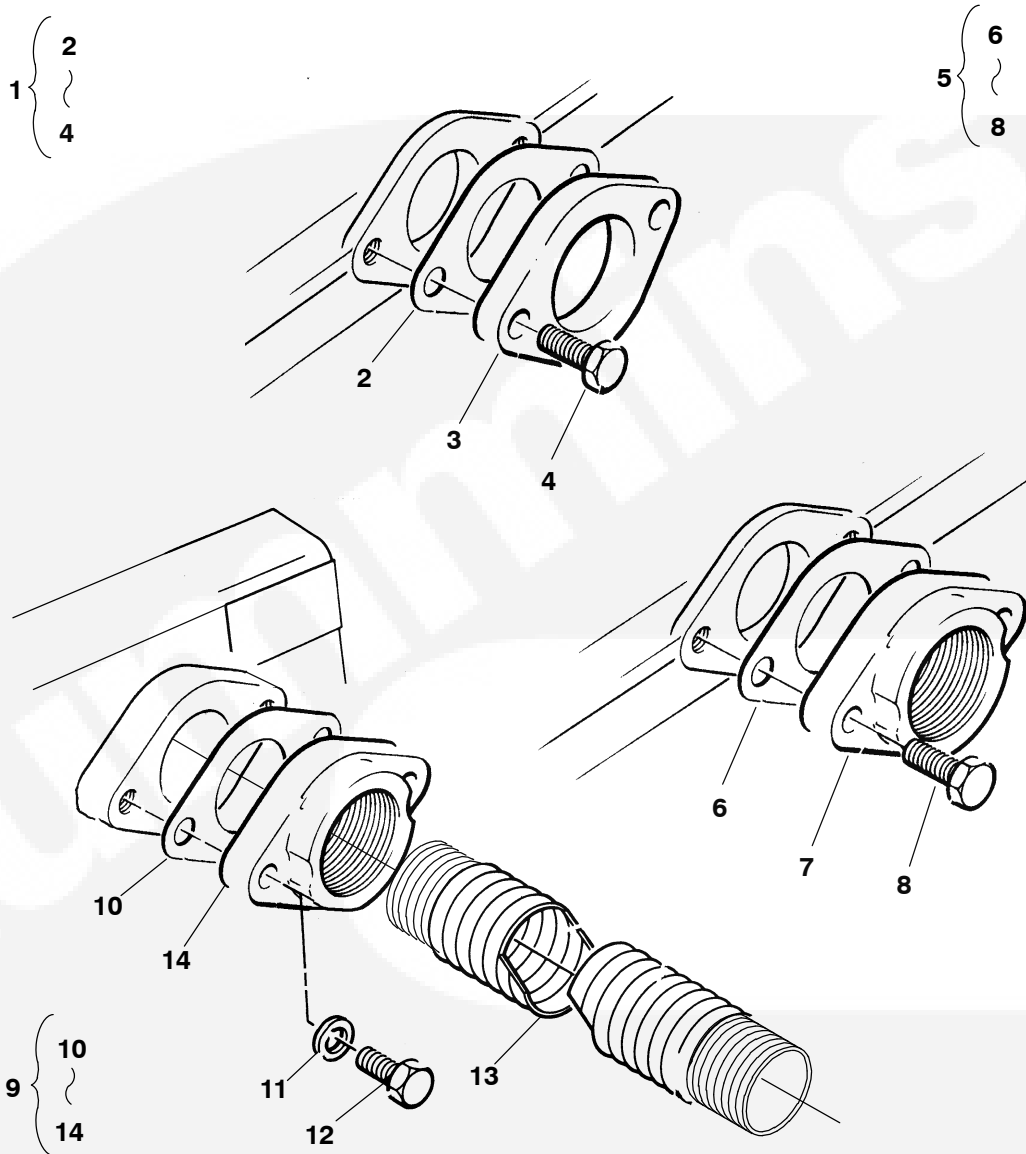


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7062	1	Cap, Rain (2-1/4")
2	*	1	Bracket, Support
3	186-6683	1	Gasket, Manifold Bend
4	186-7064	1	Muffler
5	186-6680	2	Screw, Hex Head Cap (M8 x 16mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-6412	2	Washer (M8)
7	186-6676	2	Bolt (M10 x 1.5 x 20mm)
8	186-7167	1	Shield, Heat

* – Part Number Not Available. Bracket is Part of Muffler.

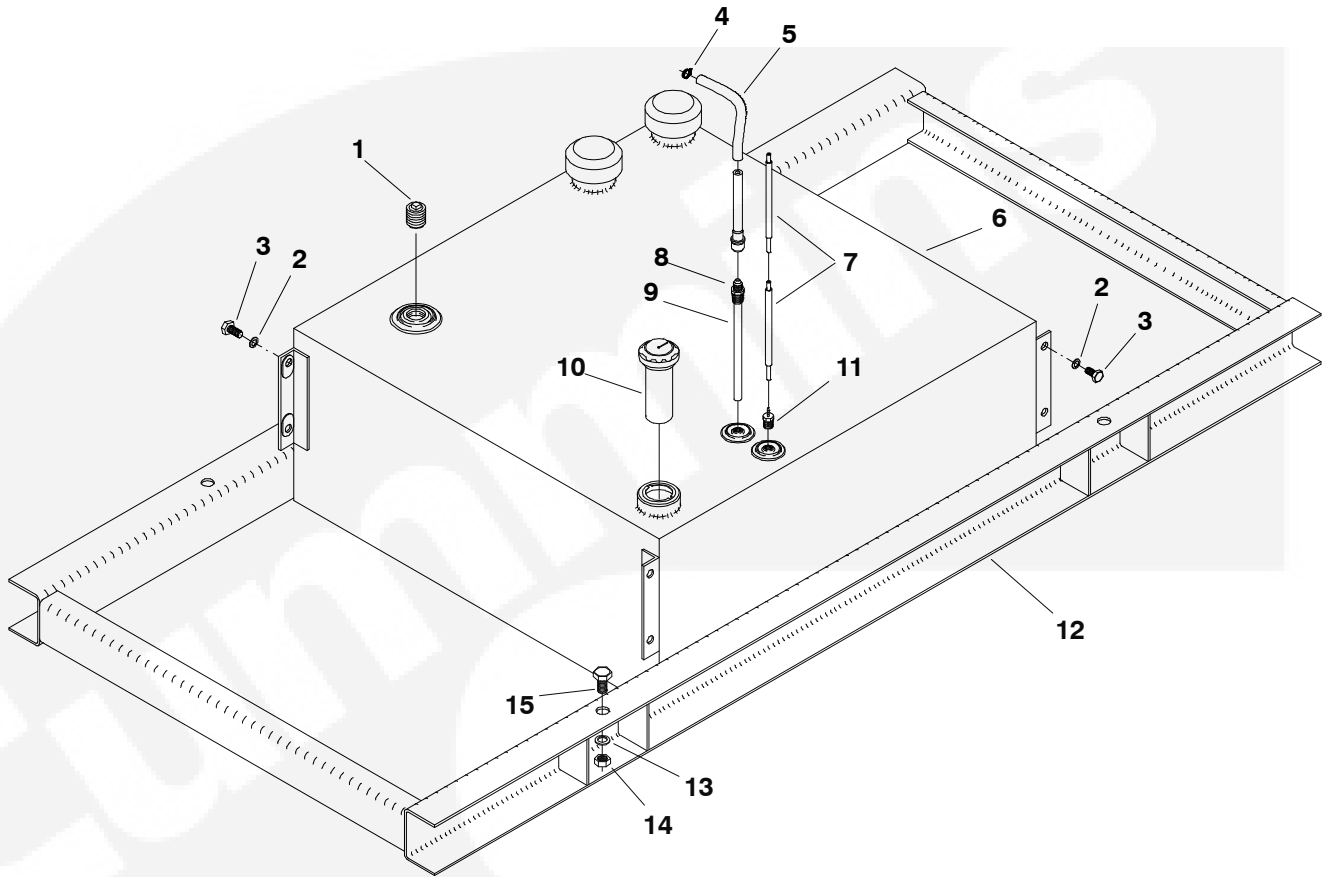
Exhaust Flanges



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	155-3210	1	Kit, Unthreaded Exhaust Flange (Includes Gasket, Flange and Screw)	9	155-3211	1	Kit, Flexible Exhaust Pipe (Includes Parts Marked *)
2	186-6683	1	Gasket	10	186-6683	1	*Gasket
3	186-6845	1	Flange, Exhaust	11	526-0029	2	*Washer, Flat
4	186-6570	2	Screw, Hex Head Cap	12	800-2088	2	*Screw, Hex Head Cap (M10 x 35mm)
5	155-3209	1	Kit, Threaded Exhaust Flange (Includes Gasket, Flange and Screw)	13	155-2355-03	1	*Tube, Exhaust
6	186-6683	1	Gasket	14	186-6843	1	*Flange, Mating
7	186-7036	1	Flange, NPT Exhaust				
8	186-6672	2	Screw, Hex Head Cap (M10 x 1.5 x 30mm)				

* - Parts Included in Flexible Exhaust Pipe Kit.

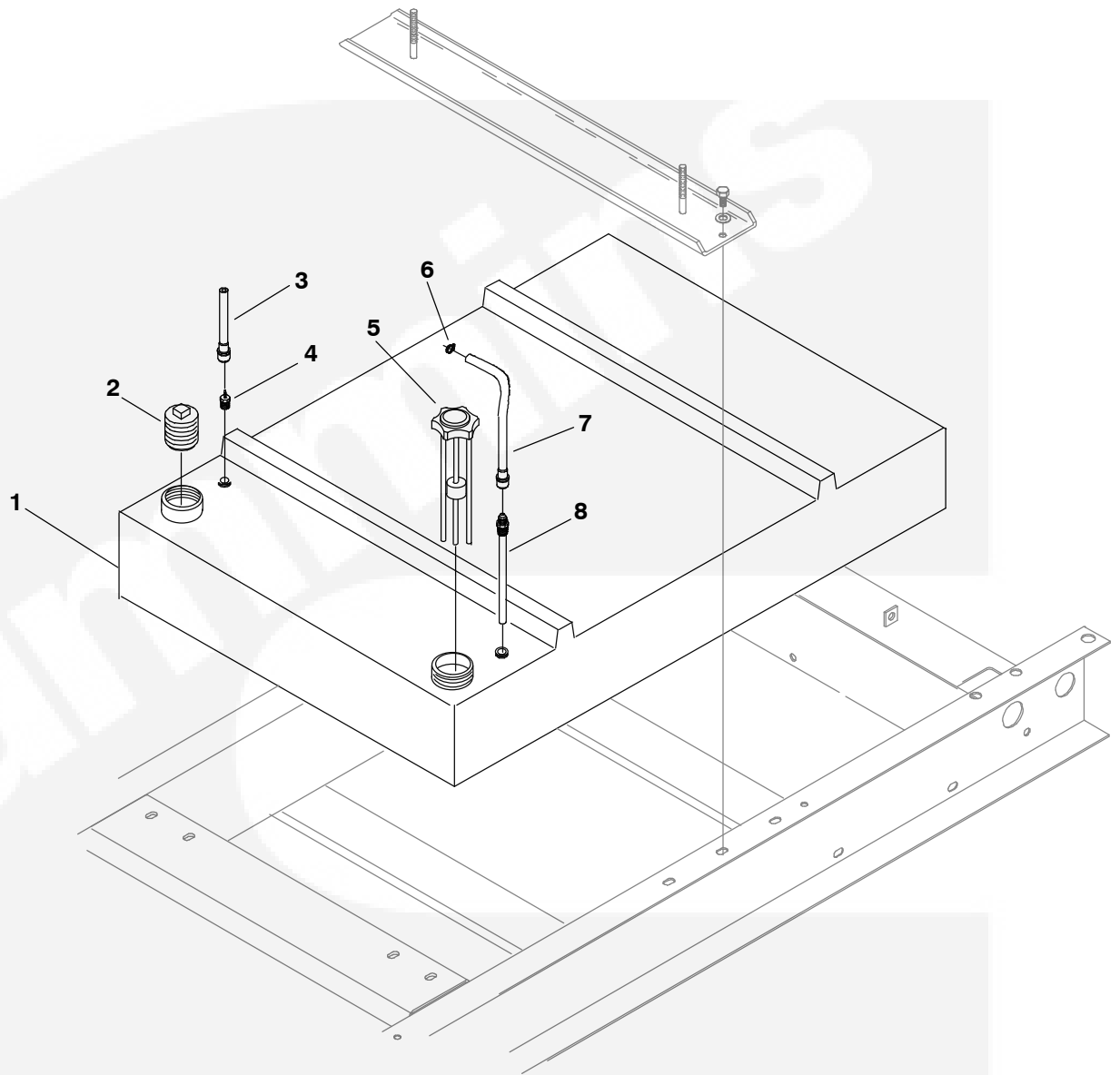
Fuel Tank (Spec A)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	415-0838	1	Kit, Fuel Tank Single Wall (Includes Parts Marked *)	8	186-6453	1	°Adapter, Inlet Hose
	415-0839	1	Dual Wall (Includes Parts Marked °)	9	186-6609	1	*Tube, Pickup Cap, Fuel Gauge
1	186-6636	1	°Plug (1-1/4 NPT) (Dual Wall Tank)	10	186-6608	1	* Single Wall Tank
2	186-6619	8	°Washer, Spring Flat (M10)		186-6642	1	Dual Wall Tank
3	186-6676	8	°Screw, Hex Head Cap (M10 x 1.5 x 20mm)	11	186-6515	1	°*Barb, Hose (1/8" x 1/4" NPT)
4	186-6536	1	°Clamp, Hose	12	186-6313	1	°Spacer, Skid
5	186-6353	1	°Hose, Fuel Inlet	13	186-6620	4	°Washer, Spring (M12)
6			Tank, Fuel	14	186-6600	4	°Nut, Hex (M12 x 1.75)
	186-6321	1	* Single Wall (W/O Vent Caps)	15	186-6759	4	°Screw, Hex Head Cap (M12 x 1.75 x 30mm)
	186-6312	1	° Dual Wall (W/Vent Caps)				
7	186-6166	1	°*Hose, Leak-Off				

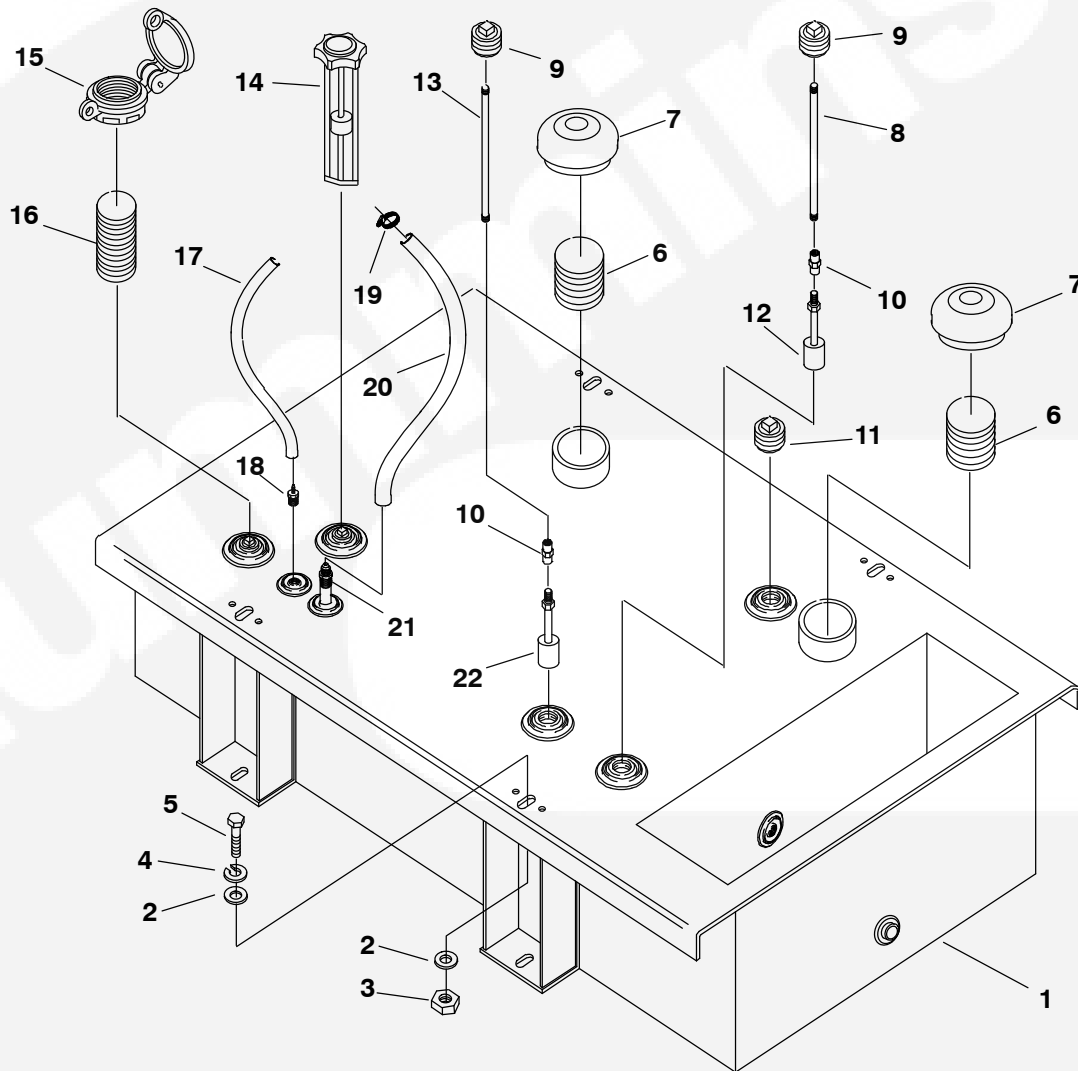
* - Parts Included in Single Wall Fuel Tank Kit.
° - Parts Included in Dual Wall Fuel Tank Kit.

Single Wall Fuel Tank (Begin Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7108	1	Tank, Single Wall Fuel	5	186-7073	1	Cap, Fuel Gauge
2	186-6636	1	Plug (1-1/4 NPT)	6	186-6536	1	Clamp, Hose
3	186-6166	1	Hose, Leak-Off	7	186-6353	1	Hose, Suction
4	186-6515	1	Barb, Hose (1/8" x 1/4" NPT)	8	186-7074	1	Tube, Pickup

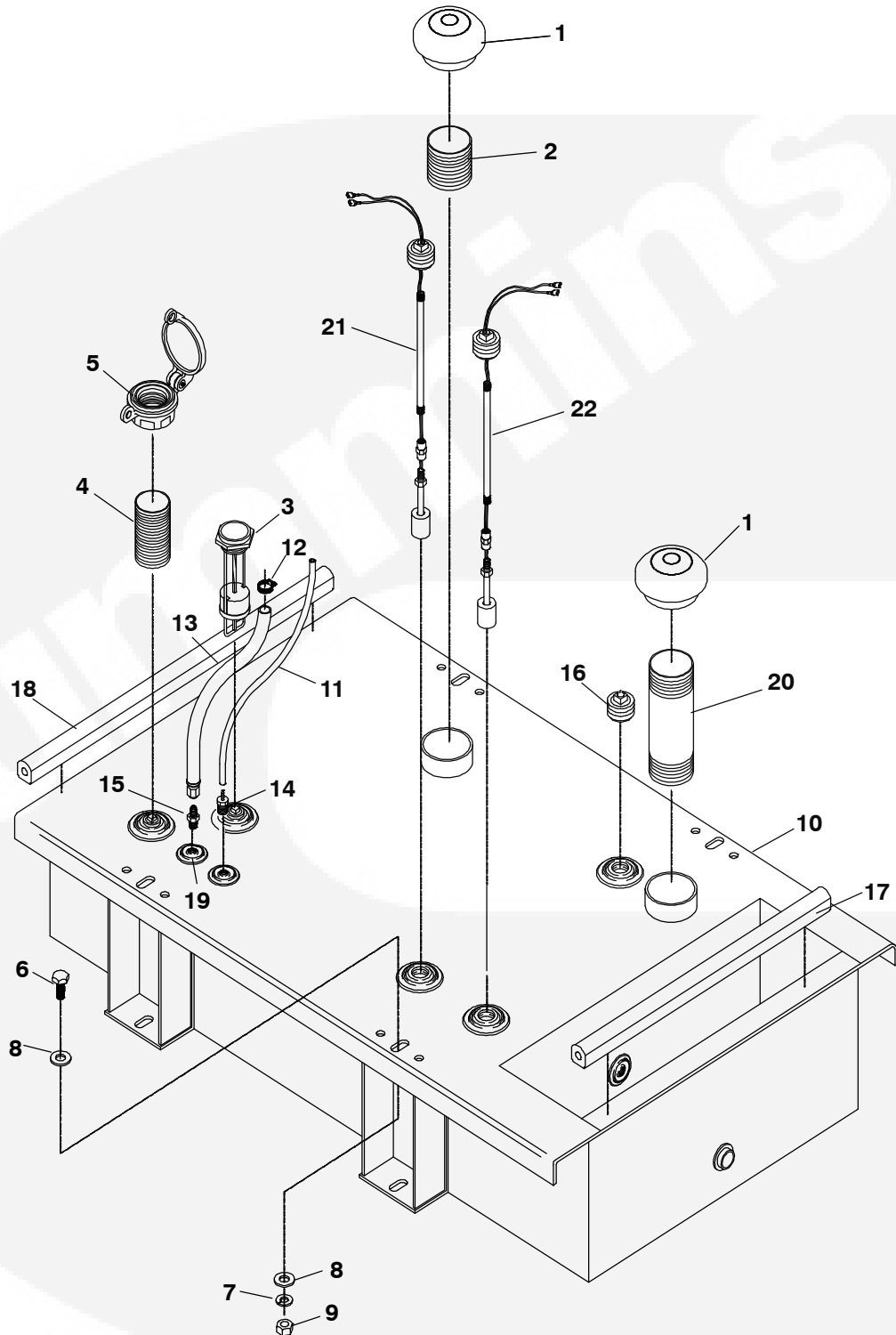
Dual Wall Fuel Tank (Spec B)



Dual Wall Fuel Tank (Spec B)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Tank, Dual Wall Fuel	13			Nipple, Pipe
	186-7174-01	1	23 Gallon (8" Tall)		186-7176	1	23 Gallon Tank
	186-7174-02	1	41 Gallon (12.5" Tall) (DNAB Only)		186-7177	1	41 Gallon Tank (DNAB)
	186-7174-03	1	82 Gallon (24" Tall) (DNAD, DNAE, DNAF)		186-7178	1	82 Gallon Tank (DNAD, DNAE, DNAF Only)
2	186-6978	8	Washer, Flat (M12)	14			Cap, Fuel Gauge
3	186-6600	4	Nut, Hex (M12 x 1.75)		186-7185-01	1	6.73" (w/23 Gallon Tank)
4	186-6620	4	Washer, Spring (M12)		186-7185-02	1	11.23" (w/41 Gallon Tank)
5	800-2114	4	Screw, Hex Head Cap (M12 x 1.75 x 40mm)		186-7185-03	1	22.73" (w/82 Gallon Tank) (DNAD, DNAE, DNAF)
6	186-7183	2	Nipple, Pipe Close (2")	15	186-7182	1	Cap, Flip Top (2")
7	186-7215	2	Cap, Vent (2")	16	186-7184	1	Nipple, Pipe (2" x 4")
8			Nipple, Pipe	17	186-7082	1	Hose, Leakoff
	186-7179	1	23 Gallon Tank	18	186-6515	1	Barb, Hose
	186-7180	1	41 Gallon Tank (DNAB)	19	186-6536	1	Clamp, Hose
	186-7181	1	82 Gallon Tank(DNAD, DNAE, DNAF Only)	20	186-7061	1	Hose, Fuel Inlet
9	505-1050	2	Plug, Modified (1.25 NPT)	21			Tube, Pickup
10	505-0026	2	Coupling (1/8 NPT)		186-7083	1	23 Gallon Tank
11	186-6636	1	Plug, Pipe (1-1/4 NPT)		186-7084	1	41 Gallon Tank
12	308-0916-01	1	Switch, Basin Alarm		186-7085	1	82 Gallon Tank
				22	308-0963-01	1	Switch, Low Fuel Alarm
				23	186-7162-01	2	Seal, Gasket (622mm)

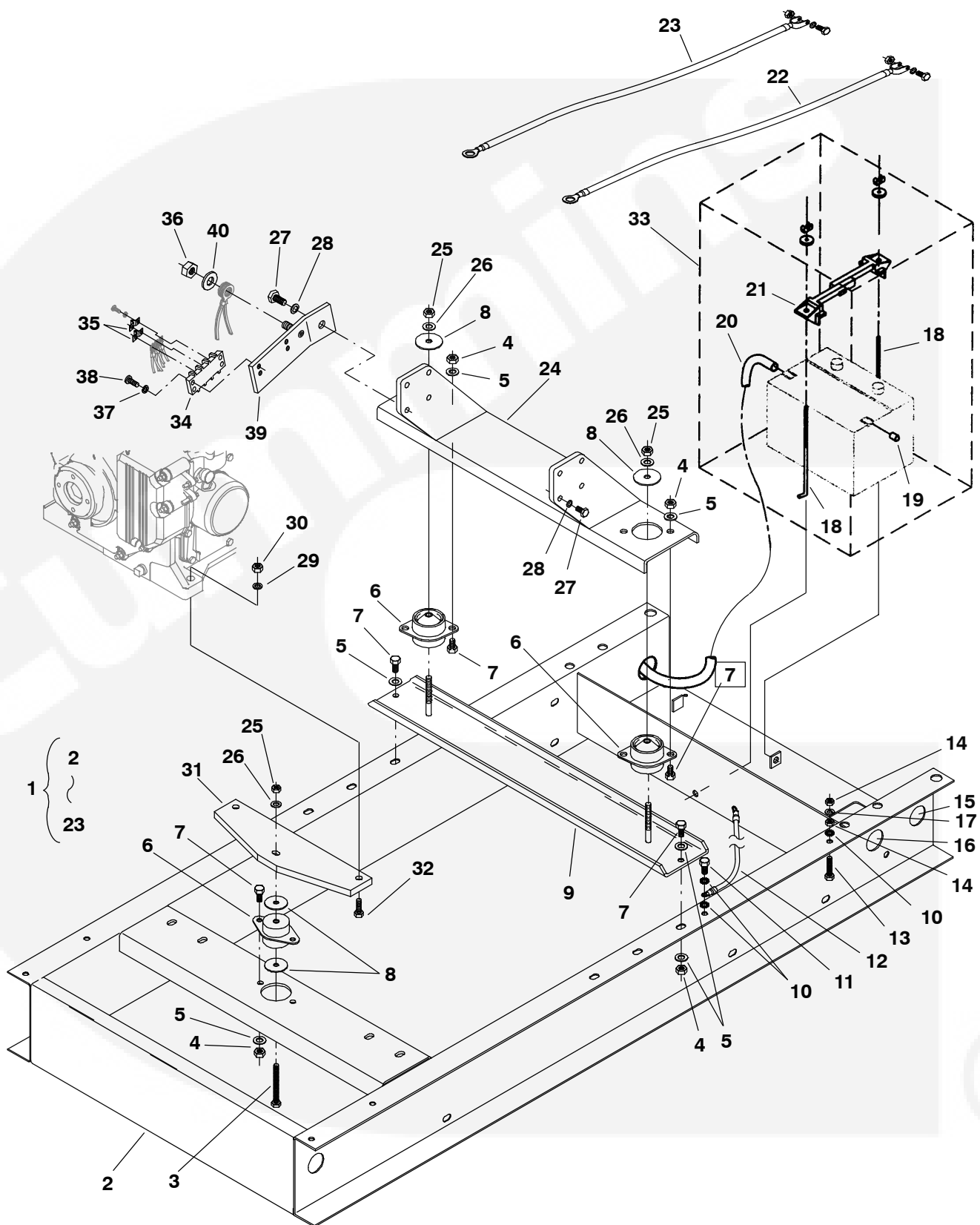
Dual Wall Fuel Tank (Begin Spec C and DNAF Spec E)



Dual Wall Fuel Tank
(Begin Spec C and DNAF Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7215	2	Cap, Vent (2")	12	186-6536	1	Clamp, Hose
2	186-7183	2	Nipple, Pipe Close (2")	13	186-7082	1	Hose, Leakoff
3			Gauge, Fuel	14	186-6515	1	Barb, Hose
	186-7185-01	1	6.73" (w/23 Gallon Tank)	15	186-6453	1	Fuel, Fitting (1/4 NPT)
	186-7185-02	1	11.23" (w/41 Gallon Tank)	16	186-6636	3	Plug, Pipe (1-1/4 NPT)
4	186-7184	1	Nipple, Pipe Close (2")	17	186-7163-06	1	Seal, Sound
5	186-7182	1	Cap, Flip Top (2")	18	186-7163-07	1	Seal, Sound
6	718-1076	4	Screw, Hex Head Cap (M12 x 1.75 x 40mm)	19	184-0317	2	Bushing (1/2 x 1/4"NPT)
7	850-0117	4	Washer, Spring (M12)	20	505-2134	1	Pipe, Nipple (2 x 6"Lg)
8	186-6978	8	Washer, Flat (M12)	21	539-1903	1	Assy (Optional)
9	186-6600	4	Nut, Hex (M12 x 1.75mm)	22	539-1904	1	Assy (Optional)
10			Fuel, Tank				
	186-7174-01	1	23 Gallon Tank				
	186-7174-02	1	41 Gallon Tank				
11	186-7061	1	Hose, Fuel Inlet				

Mounting Base Spec A/B



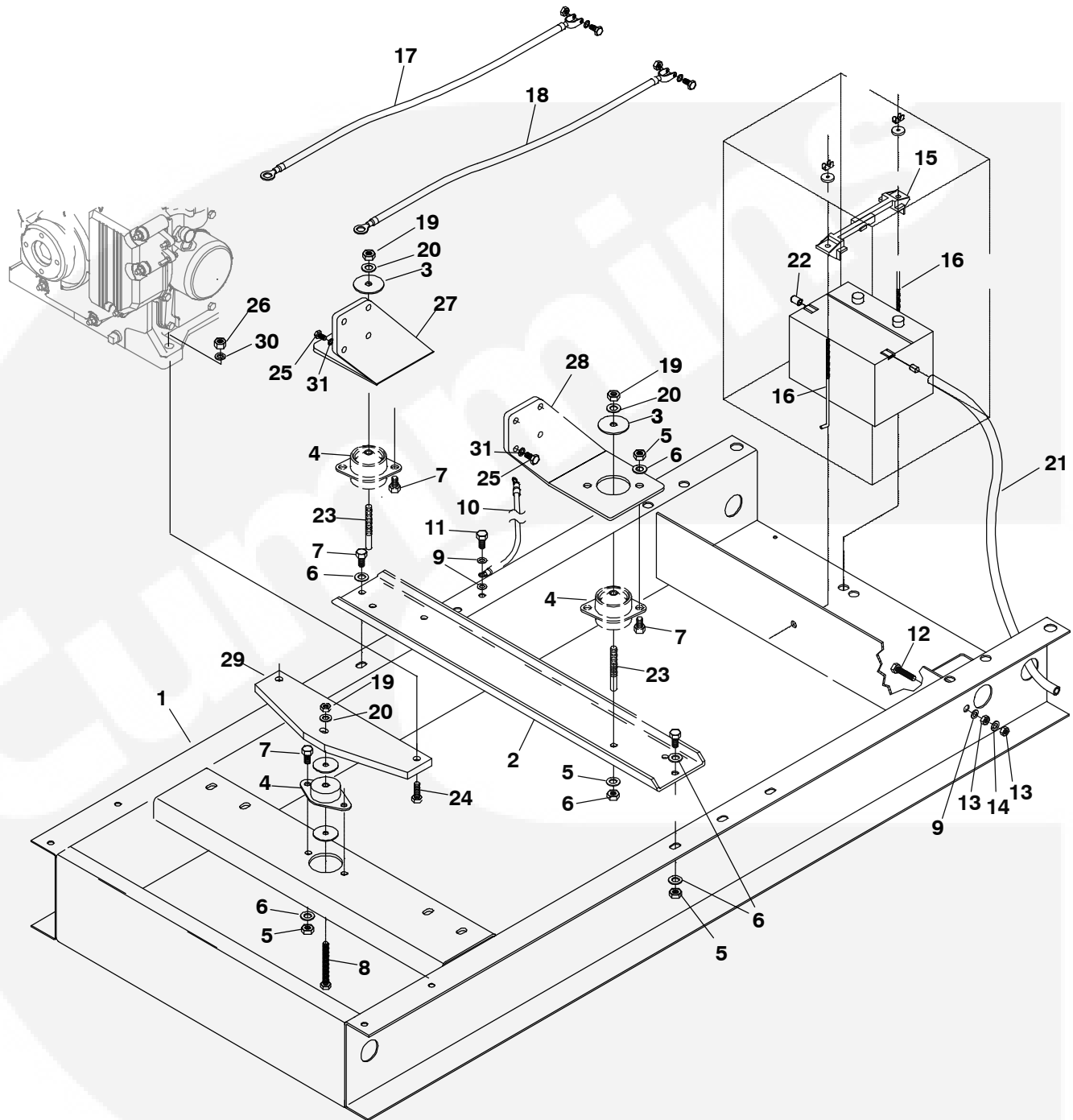
Mounting Base Spec A/B

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Kit, Skid Base (Spec A) (Includes Parts Marked +)	23			+ Cable, Negative Battery
	403-4282	1	DNAC		186-6336	1	DNAC
	403-4148	1	DNAD		186-6337	1	DNAE, DNAF
2			Base, Mounting	24	186-6301	1	Brace, Rear Engine
	168-6300	1	+ Spec A, DNAF	25	186-6449	3	Nut, Hex (7/16")
	186-6898	1	Begin Spec B	26	186-6637	3	Washer, Spring (7/16")
3			Screw, Hex Head Cap	27	186-6672	8	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
	186-7046	1	+ Spec A (M10 x 1.5 x 80mm)	28	186-6976	8	Washer, Spring (5/15")
	186-6638	1	Begin Spec B	29	186-6620	2	Washer, Spring (M12)
			(7/16-14 x 3-1/4")	30	186-6666	2	Nut, Lock (M12 x 1.75)
4	186-6665	8	+ Nut, Hex (M10 x 1.5)	31	186-6306	1	Plate, Front Engine
5	186-6619	10	+ Washer, Spring (M10)	32	186-6674	2	Screw, Hex Head Cap (M12 x 1.75 x 55mm)
6			Mount Engine	33	416-1042	1	Kit, Battery Vent Hose (Includes Parts Marked * and Washers/Nuts)
			+ Spec A	34	332-0611	1	Block, Terminal (Use With Detector Control)
	186-6305	3	DNAC	35	332-1043	2	Jumper, Terminal Block (Use With Detector Control)
	186-6304	3	DNAD	36	186-6020	2	Nut, Hex (M8 x 1.25) (Use With Detector Control)
	186-6303	3	DNAE, DNAF	37	186-6371	2	Washer, Lock (M4) (Use With Detector Control)
			Begin Spec B	38	186-6370	2	Screw, Machine (M4 x 0.7 x 16mm) (Use With Detector Control)
	402-0676-01	3	DNAC, DNAD	39	186-6369	1	Bracket, Mounting (Use With Detector Control)
	402-0676-02	3	DNAE, DNAF	40	186-6618	1	Washer, Spring (M8) (Use With Detector Control)
7	186-6676	8	+ Screw, Hex Head Cap (M10 x 1.5 x 20mm)				
8	186-6379	4	+ Washer, Rebound				
9	186-6307	1	+ Foot, Sliding				
10	186-6623	3	+ Washer, EIT (5/16")				
11	186-6668	1	+ Screw, Hex Head Cap (M8 x 1.25 x 16mm)				
12	186-6340	1	+ Cable, Ground				
13	186-6669	1	+ Screw, Hex Head Cap (M8 x 1.25 x 25mm)				
14	186-6274	2	+ Nut, Hex (M8 x 1.25)				
15	517-0138-08	4	Plug, Hole (Begin Spec B)				
16	517-0138-07	1	Plug, Hole (Begin Spec B)				
17	186-6019	1	+ Washer, Spring (M8)				
18	186-6406	2	+*Bolt, Hold-Down (1/4-20)				
19	186-6854	1	+*Cap				
20	186-6853	1	+*Hose (5/16 ID x 15)				
21	186-6835	1	+*Hold-Down, Battery				
22			Cable, Positive Battery				
			+ Spec A				
	186-6333	1	DNAC				
	186-6334	1	DNAD, DNAE, DNAF				
			Begin Spec B				
	186-7171	1	DNAC				
	186-7172	1	DNAD				
	186-7173	1	DNAE, DNAF				

+ - Parts Included in Skid Base Kit (Spec A)

* - Parts Included in Battery Vent Hose Kit.

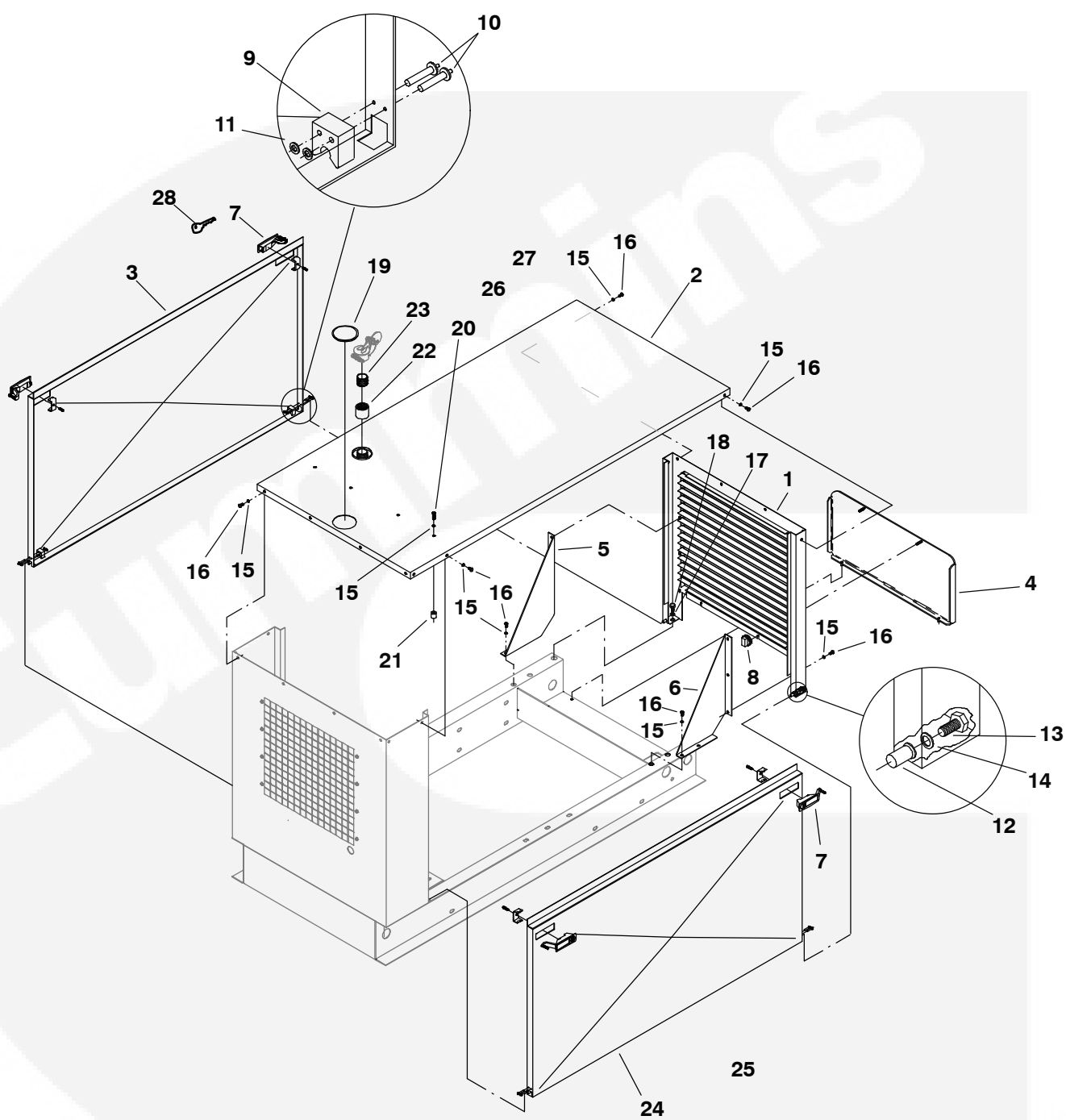
Mounting Base (Begin Spec C and DNAF Spec E)



Mounting Base
(Begin Spec C and DNAF Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0210	1	Base Skid	15	186-6835	1	Hold-Down, Battery
2	184-0218	1	Steel, Cold Rolled Commercial	16	186-6406	2	Bolt, Battery Hold Down
3	186-6379	4	Washer, Rebound	17	186-7171	1	Cable, Positive Battery
4			Isolator, Vibration	18	186-6336	1	Cable, Negative Battery
	402-0676-01	3	DNAC and DNAD	19	862-0035	3	Nut, Hex (1/2-13)
	402-0676-02	3	DNAE AND DNAF	20	850-1060	3	Washer, Lock (1/2")
5	186-6665	8	Nut, Hex (M10 X 1.5MM)	21	186-6853	1	Hose (5/16 ID 15)
6	186-6619	10	Washer, Flat (M10)	22	186-6854	1	Cap
7	186-6676	8	Screw, Hex Head Cap (M10 x 1.5 x 20mm)	23	184-0356	2	Bolt, Carriage (1/2-13 x 3")
8	184-0357	1	Screw, Hex Head Cap (1/2-13 x 3")	24	186-6674	2	Screw, Hex Head Cap (M12 x 1.75 x 55mm)
9	186-6623	3	Washer, Tooth	25	186-6672	8	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
10	186-6340	1	Cable, Ground	26	186-6666	2	Nut, Lock (M12 x 1.75)
11	186-6668	1	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	27	184-0219	1	Mount, Engine (LH Rear)
12	186-6669	1	Screw, Hex Head Cap (M8 x 1.25 x 25mm)	28	184-0220	1	Mount, Engine (RH Rear)
13	186-6274	2	Nut, Hex (M8 x 1.25)	29	186-6306	1	Plate, (Front Engine)
14	186-6019	1	Washer, Lock (M8)	30	186-6620	2	Washer, Flat (M12)
				31	186-6976	16	Washer, Flat (M10)

Housing (F1) (Spec A)



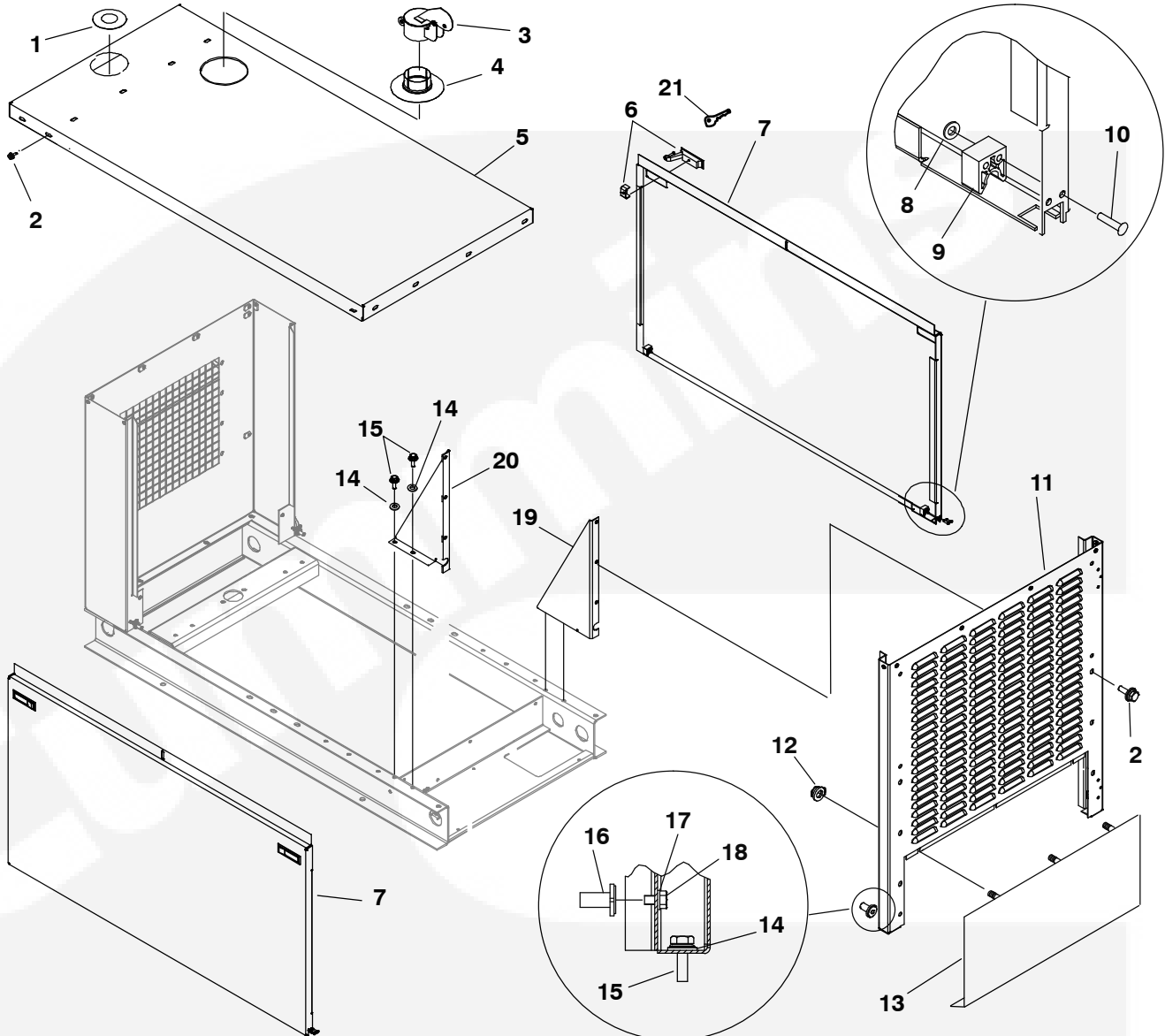
Housing (F1) (Spec A)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Housing (Includes Parts Marked *)	15			Washer, Flat (M8)
	405-5815	1	DNAC (Includes Parts Marked *)	186-6975	24	*	DNAC, DNAD, DNAE
	405-5816	1	DNAD, DNAE (Includes Parts Marked *)	186-6975	28	+	DNAF
	405-5817	1	DNAF (Includes Parts Marked +)	16	186-6668	24	+*Screw, Hex Head Cap (M8 x 1.25 x 16mm)
				17			Washer, Spring Flat (M10)
1	186-6322	1	+*Panel, Rear	186-6976	2	*	DNAC, DNAD, DNAE
2			+*Panel, Top	186-6976	3	+	DNAF
	186-6378	1	* DNAC	18	186-6676	2	+Screw, Hex Head Cap (M10 x 1.5 x 20mm)
	186-6324	1	* DNAD, DNAE	19	186-6640	1	+ Plug, Button (4")
	186-6850	1	+ DNAF	20	186-6670	4	+Screw, Hex Head Cap (M8 x 1.25 x 40mm)
3			+*Door, Housing	21	186-6641	4	+ Spacer
	186-6320	2	* DNAC, DNAD, DNAE	22	186-6616	1	Coupling, Pipe (DNAC, DNAD, DNAE)
	186-6320	1	+ DNAF	23	186-6299	1	Nipple, Close (DNAC, DNAD, DNAE)
4	186-6323	1	+*Cover, Battery	24	186-6851	1	Panel Assy, Service (DNAF)
5	186-6326	1	+*Strut, Right Side Housing	25	186-6392	1	+ Insulation, Door (DNAF)
6	186-6325	1	+*Strut, Left Side Housing	26	186-6393	1	+ Insulation, Top (DNAF)
7	186-6611	4	+*Latch, Lockable Lever	27	186-6394	1	+ Insulation, Top (DNAF)
8	140-2761	2	+*Knob, Air Cleaner	28	406-1003	1	Key
9	405-1872	4	+*Clip, Door				
10	818-0150	8	+*Rivet, Pivot Block				
11	526-0003	8	+*Washer, Rivet				
12	870-0258	4	+*Pin, Door Pivot				
13	186-6664	4	+*Screw, Hex Head Cap (1/4-20 x 1/2")				
14	186-6974	4	+*Washer, Flat Spring (M6)				

* - Parts Included in DNAC/D/E Housing Kits.

+ - Parts Included in DNAF Housing Kit.

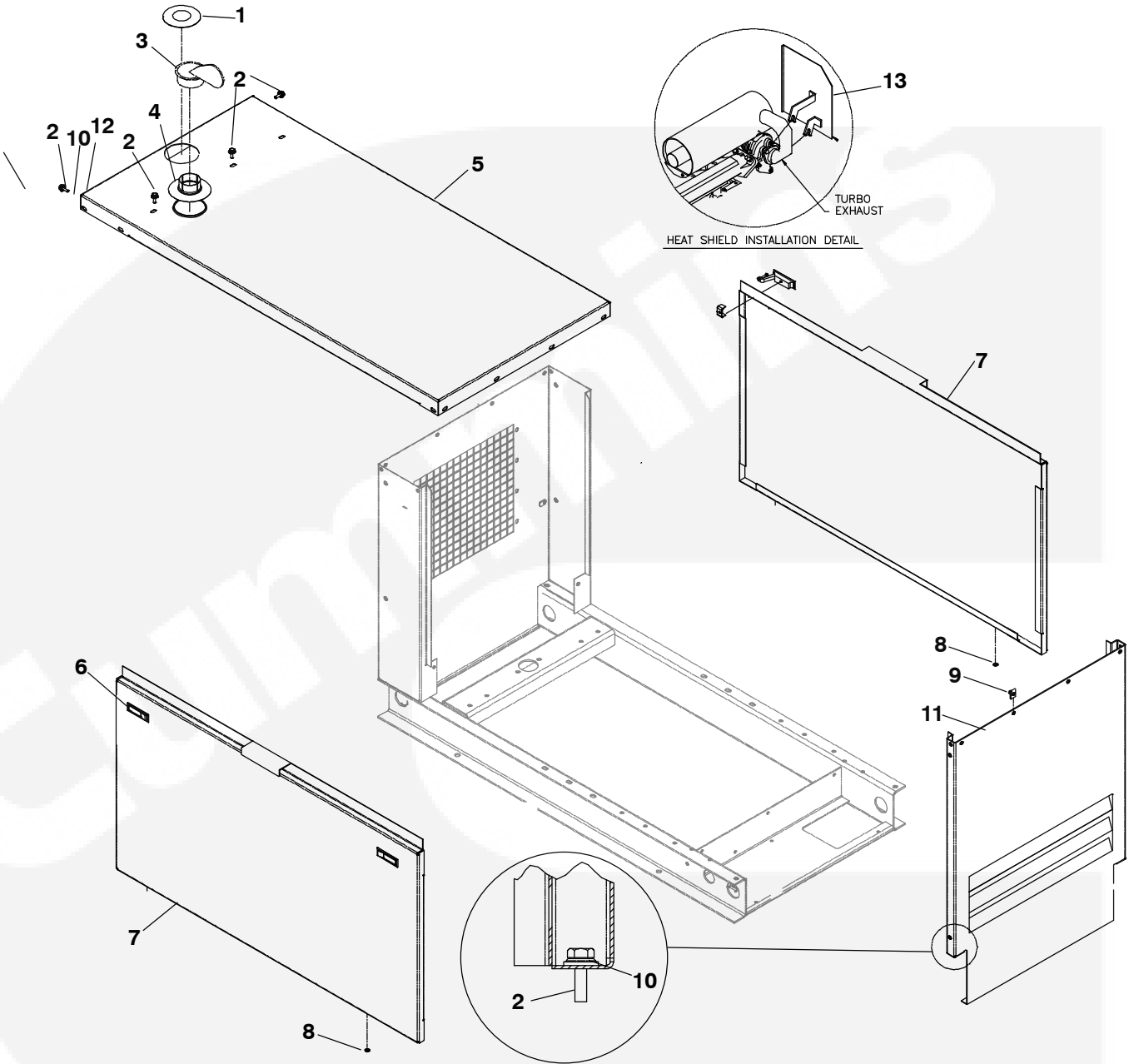
Housing (F183, F184) (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6640	1	Plug, Button (4")
2	821-6007-02	24	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
3			Cap, Rain
	186-6634	1	DNAC, DNAD, DNAE (2" I.D.)
	186-7062	1	DNAF (2-1/4 to 2-7/16" I.D.)
4			Shield, Rain
	186-7147	1	DNAC, DNAD, DNAE (52mm I.D.)
	186-7148	1	DNAF (62mm I.D.)
5			Panel, Top
	186-6892	1	DNAC
	186-6893	1	DNAD, DNAE
	186-6894	1	DNAF
6	186-6611	4	Latch
7	186-6887	2	Panel, Door

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	526-0003	8	Washer, Flat (#8)
9	405-1872	4	Clip, Door
10	818-0150	8	Rivet, Drive (5/32)
11	186-6899	1	Panel, Rear
12	140-2761	3	Knob
13	186-6896	1	Cover, Battery
14	186-6975	6	Washer (M8)
15	186-6064	6	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
16	870-0258	4	Rivet, Pivot Block
17	186-6974	4	Washer, Flat (M6)
18	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
19	186-6881	1	Strut, Housing (Left)
20	186-7109	1	Strut, Housing (Right)
21	406-1003	1	Key

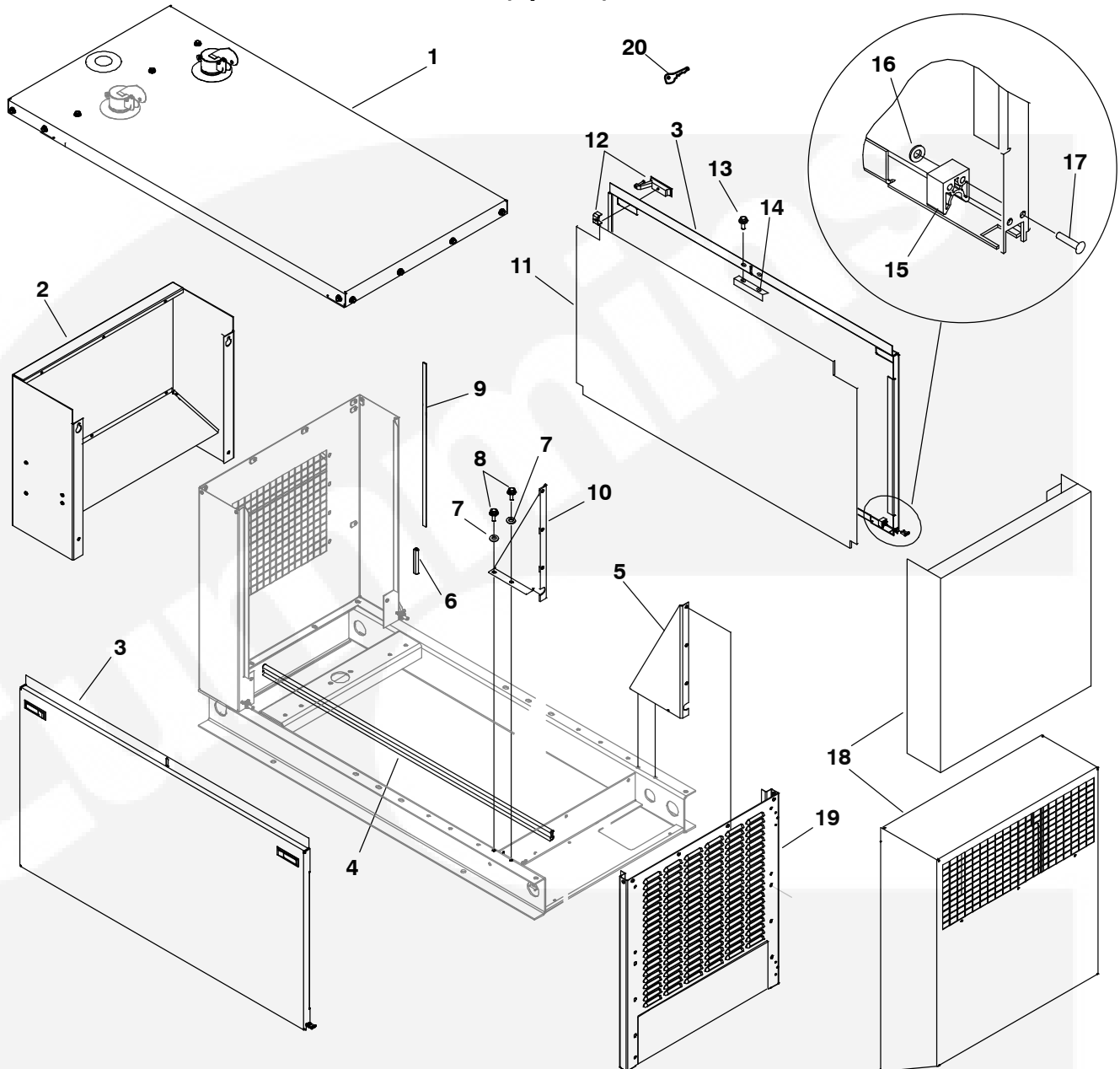
Housing (F183, F184) **(Begin Spec C and DNAF Spec E)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6640	1	Plug, Button (4")
2	821-6007-02	24	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
3	186-7062	1	Cap, Rain (2-14 to 2-7/16" I.D.)
4	186-7148	1	Shield, Rain (62mm I.D.)
5	184-0223	1	Panel, Top DNAC
	184-0224	1	DNAD, DNAE
	184-0225	1	DNAF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-6611	4	Latch
7	184-0217	2	Panel, Door
8	184-0314	4	Washer, Rubber (3/8")
9	184-0326	4	Nut, U (M8 x 1.25mm)
10	186-8975	2	Washer, Flat
11	184-0211	1	Panel, Rear
12	184-0325	28	Washer, Flat Nylon (M8)
13	186-6391	1	Heat, Shield (DNAF)

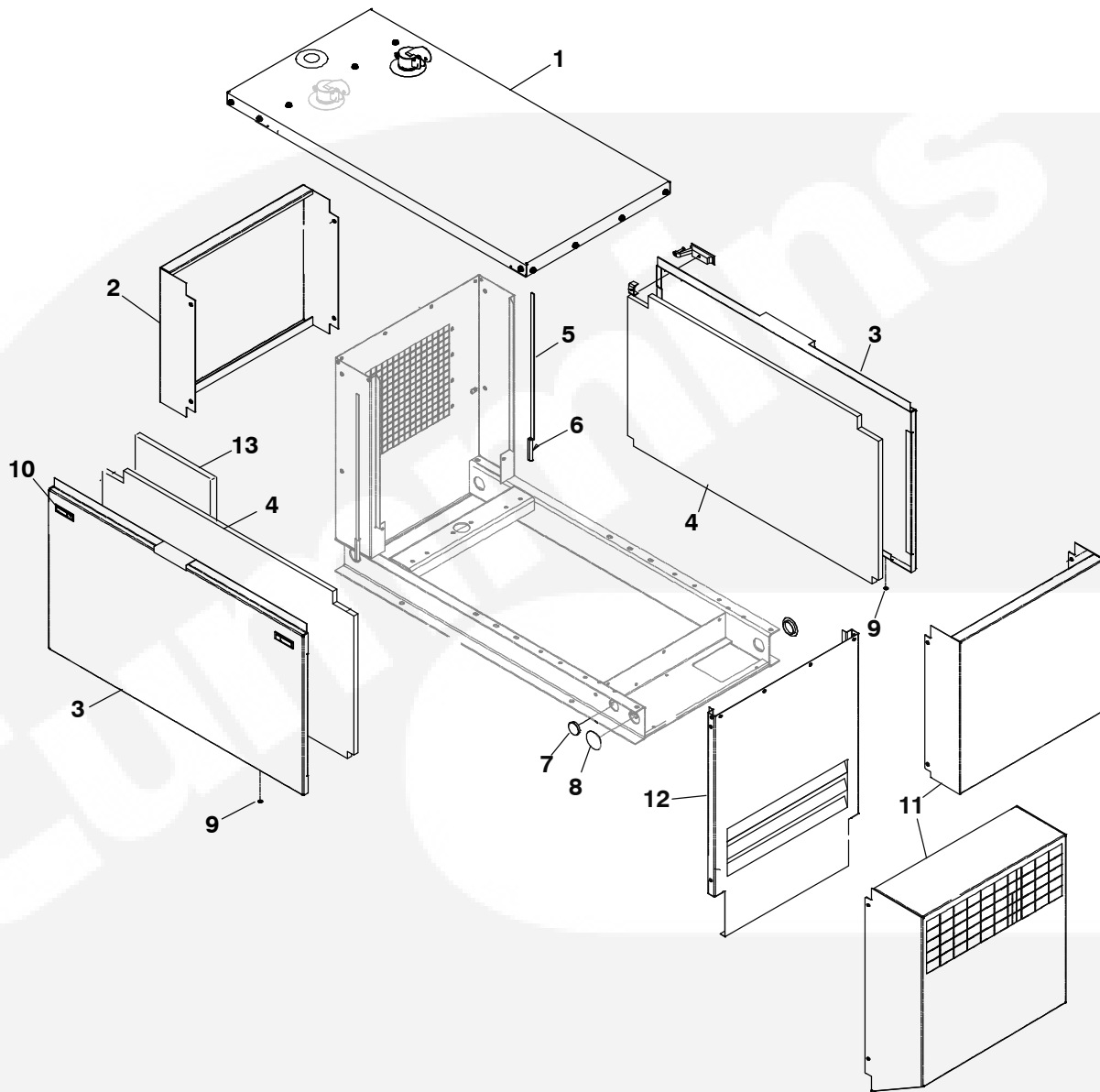
Housing (F172, F173) (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Panel, Top (See Separate Page for Components)
2	-	1	Duct, Front (F173) (See Separate Page for Components)
3	186-6887	2	Panel, Door
4	186-7164	2	Seal, Sound (1270mm)
5	186-6881	1	Strut, Housing (Left)
6	186-7163-05	2	Seal, Sound (90mm)
7	186-6975	4	Washer (M8)
8	186-6064	4	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
9	186-7162-08	2	Gasket (704mm)
10	186-7109	1	Strut, Housing (Right)

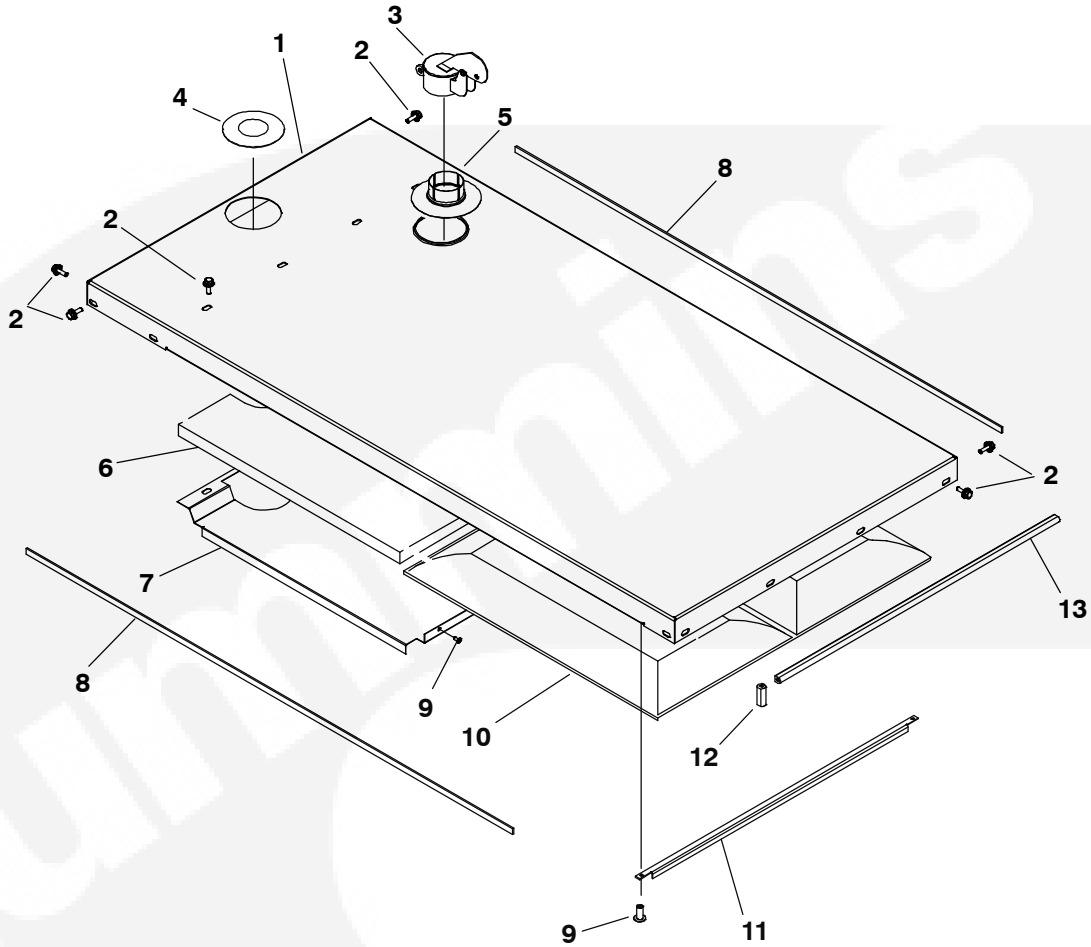
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	186-7154	2	Insulation, Door
12	186-6611	4	Latch
13	818-0231-02	4	Rivet, Pop
14	186-6888	2	Support, Insulation
15	405-1872	4	Clip, Door
16	526-0003	8	Washer, Flat (#8)
17	818-0150	8	Rivet, Drive (5/32)
18	-	1	Duct, Rear (F173) (See Separate Page for Components)
19	-	1	Panel, Rear (See Separate Page for Components)
20	406-1003	1	Key

Housing (F172, F173)
(Begin Spec C and DNAF Spec E)



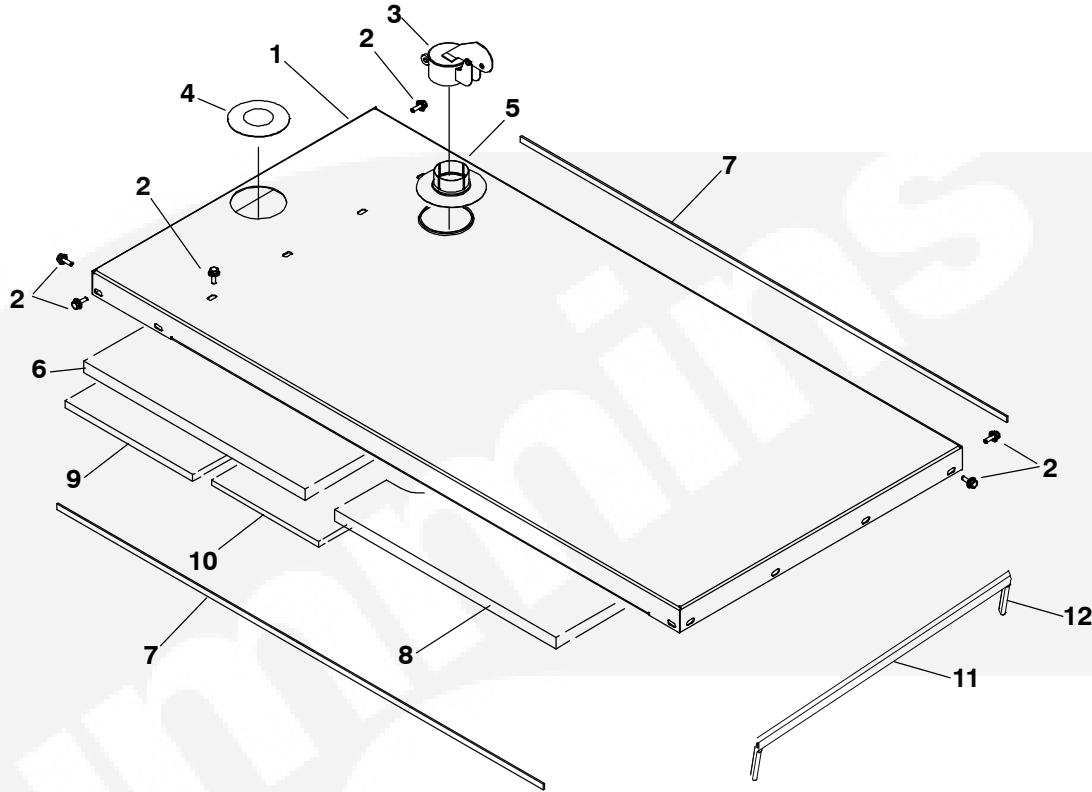
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	-	1	Panel, Top (See Separate Page for Components)	8	517-0138-08	4	Plug, Hole
2	-	1	Duct, Front (F173) (See Separate Page for Components)	9	184-0314	4	Washer, Rubber (3/8" I.D.)
3	184-0217	2	Panel, Door	10	186-6611	4	Latch
4	184-0248	2	Insulation, Door Panel	11	-	1	Duct, Rear (F173) (See Separate Page for Components)
5	186-7162	1	Seal, Sound (4.6')	12	-	1	Panel, Rear (See Separate Page for Components)
6	186-7163	2	Seal, Sound (.6')	13	186-6033	1	Insulation, Door Panel DNAF
7	517-0138-07	1	Plug, Hole				

Housing - Top Panel (F172, F173) (Spec B)



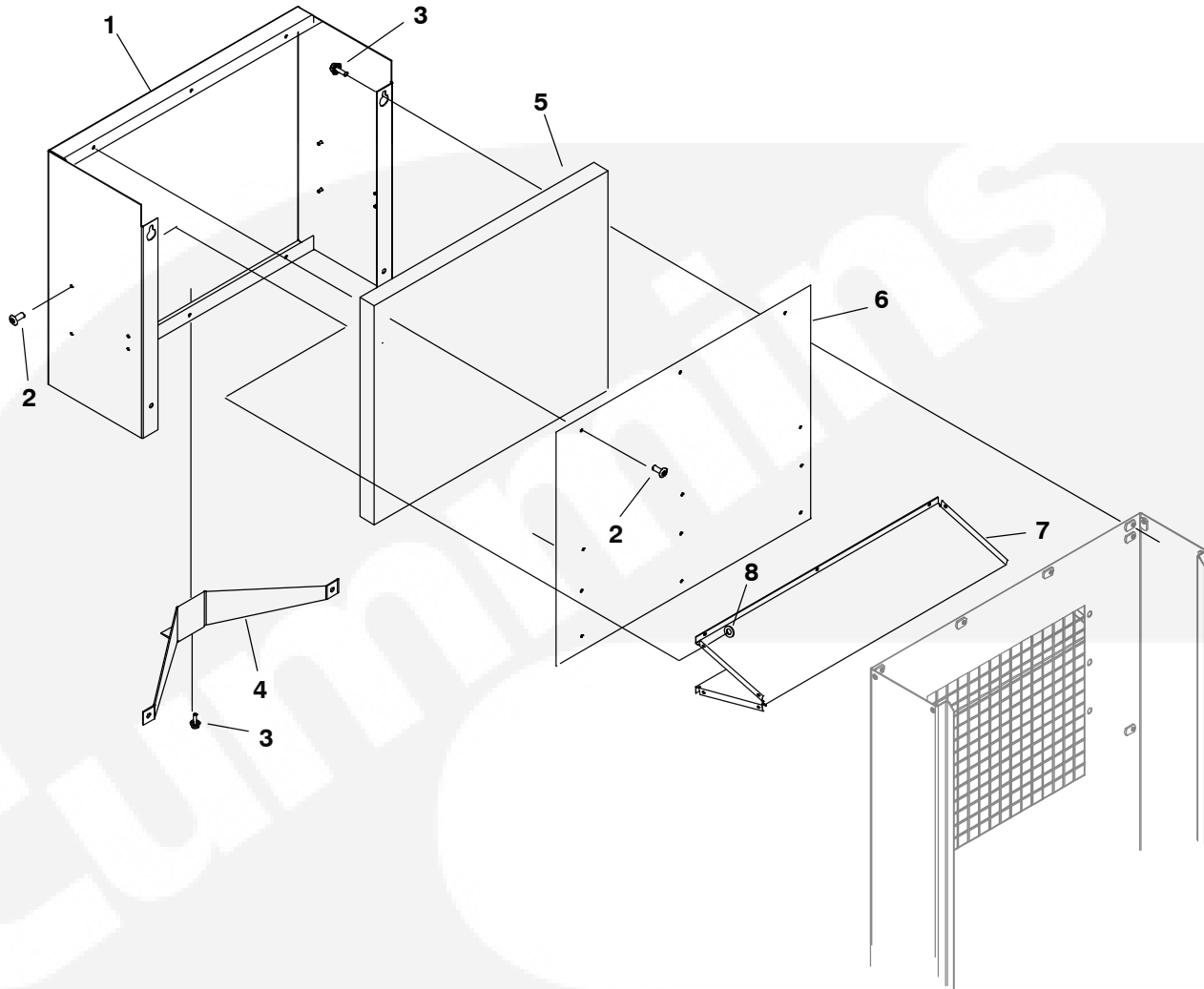
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6892	1	Panel, Top DNAC	6	186-7155	1	Insulation, Front Top
	186-6893	1	DNAD, DNAE	7	186-7151	1	Support, Insulation
	186-6894	1	DNAF	8	186-7162-02	2	Gasket (1231mm)
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)	9			Rivet, Pop
3	186-6634	1	Cap, Rain		818-0231-02	10	Type I, II Control (Mnl/Rmt)
	186-6634	1	DNAC, DNAD, DNAE (2" I.D.)		818-0231-02	4	Type III Control (Detector)
	186-7062	1	DNAF (2-1/4 to 2-7/16" I.D.)	10	186-7156	1	Insulation (Used With Manual/Remote Controls Only - Type I, II)
4	186-6640	1	Button, Plug (4")	11	186-7152	3	Support, Insulation (Used With Manual/Remote Controls Only - Type I, Type II)
5	186-7147	1	Shield, Rain	12	186-7163-02	1	Seal, Sound (38mm) (F173)
	186-7147	1	DNAC, DNAD, DNAE (52mm I.D.)	13	186-7163-04	1	Seal, Sound (707mm) (F173)
	186-7148	1	DNAF (62mm I.D.)				

Housing - Top Panel (F172, F173)
(Begin Spec C and DNAF Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0223	1	Panel, Top DNAC	7	186-7162	1	Gasket (8.0')
	184-0224	1	DNAD, DNAE	8	184-0249	1	Insulation, Rear Top
	184-0225	1	DNAF	9	186-6393	1	Insulation, Panel (18" x 20") DNAF
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)	10	186-6394	1	Insulation, Panel (9" x 20") DNAF
3	186-7062	1	Cap, Rain(2-1/4 to 2-7/16" I.D.)	11	186-7163	2.3'	Seal, Sound DNAD, DNAE and DNAF
4	186-6640	1	Button, Plug (4")	12	186-7163	.6'	Seal, Sound DNAD, DNAE and DNAF
5	186-7148	1	Shield, Rain (62mm I.D.)				
6	184-0250	1	Insulation, Front Top				

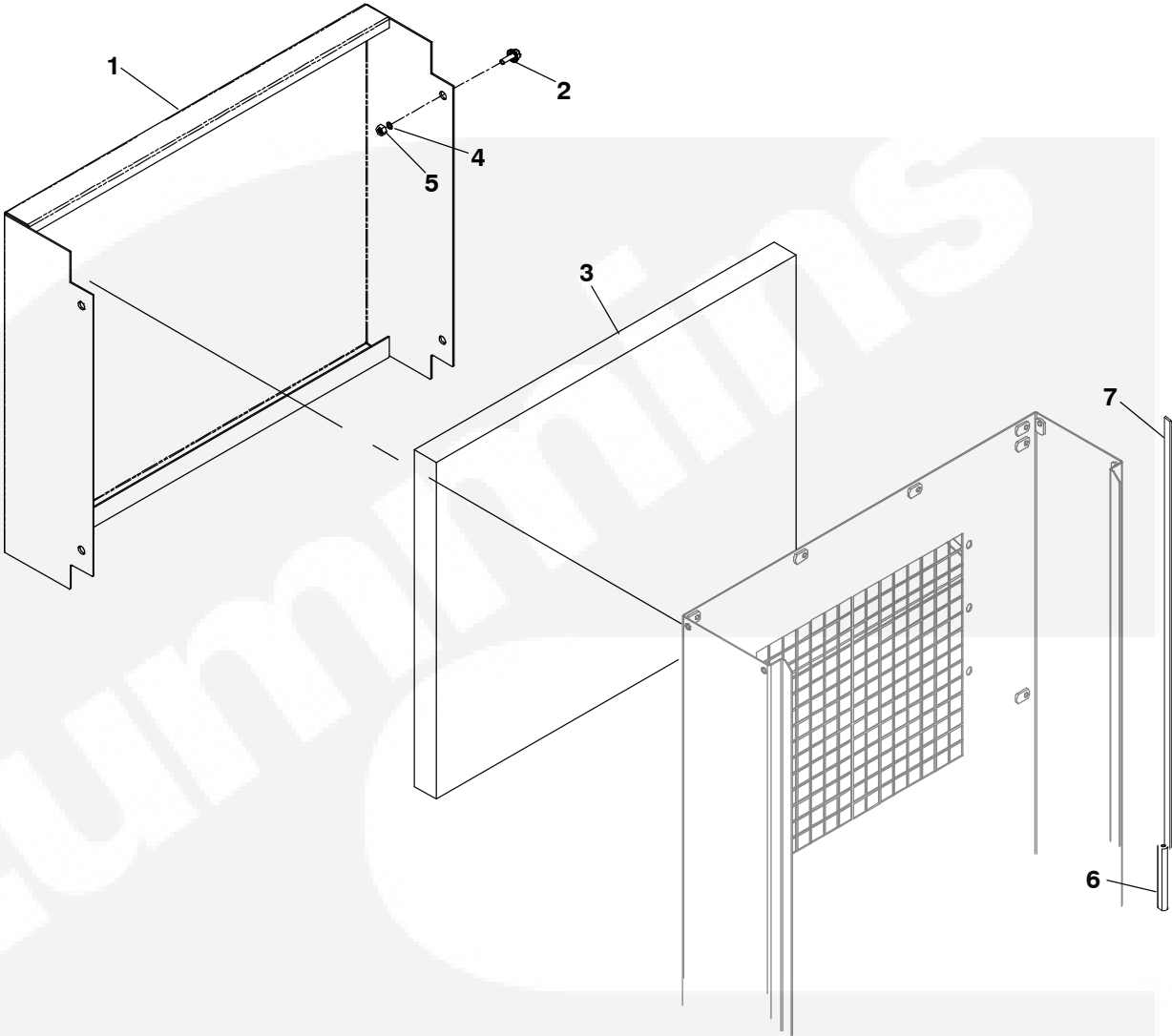
Housing - Front Duct (F173) (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7100	1	Duct, Front DNAC, DNAD
	186-7158	1	DNAE, DNAF
2	818-0231-01	6	Rivet, Pop DNAC, DNAD
	818-0231-01	20	DNAE, DNAF
3	821-6007-02	5	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
4	186-7119-02	1	Strut, Duct DNAC, DNAD
	186-7119-04	1	DNAE, DNAF

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
5	186-7122	1	Insulation, Duct
6	186-7149	1	Support, Insulation (Front)
7	186-7153	1	Baffle, Front Duct (DNAE, DNAF)
8	186-7054	14	Washer, Plain (#10) (DNAE, DNAF)

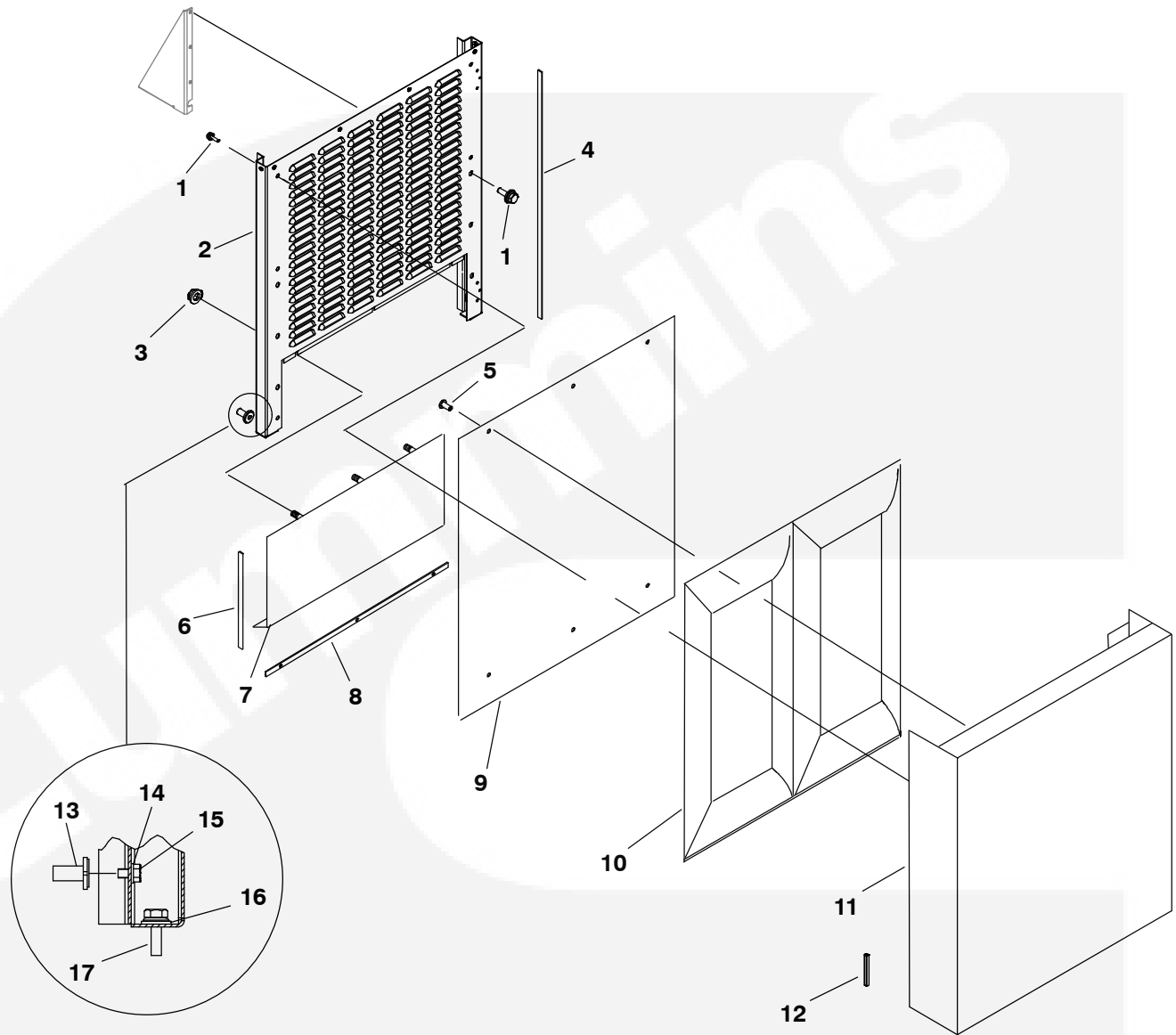
Housing - Front Duct (F173)
(Begin Spec C and DNAF Spec E)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Duct, Front
	184-0215	1	DNAC, DNAD
	184-0213	1	DNAE, DNAF
2	821-6007-02	18	Screw, Hex Head Sems (M8 x 1.25 x 20mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
3	184-0247	1	Insulation, Front Duct
4	526-2026	18	Washer, Nylon Flat (M8)
5	186-6975	2	Washer, Flat (M8)
6	186-7163	.6'	Seal, Sound
7	186-7162	4.6'	Gasket

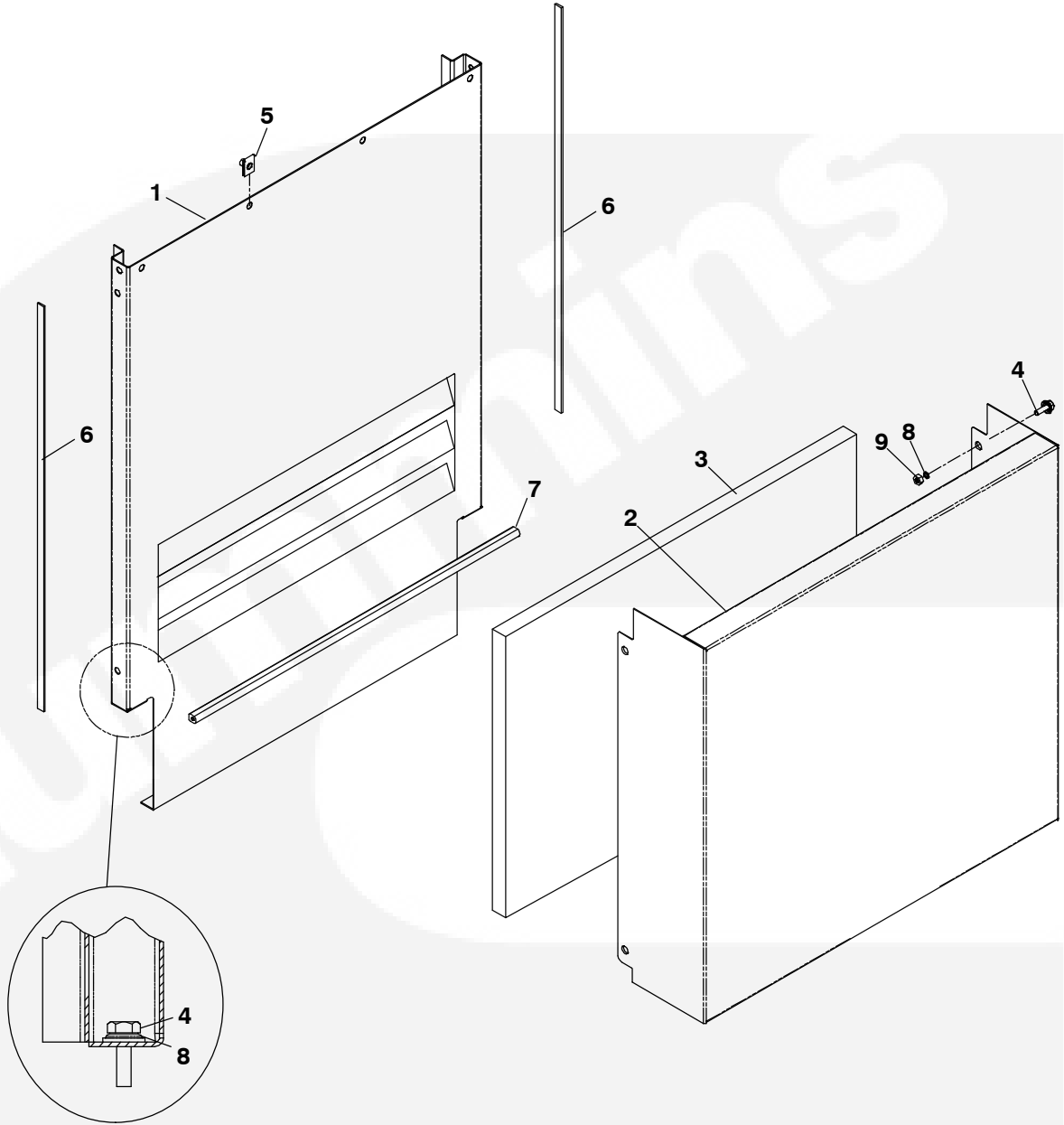
Housing - Rear Panel (F172) (F173 DNAC, DNAD) (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Screw, Hex Head Sems (M8 x 1.25 x 20mm)
	821-6007-02	6	F172 Housing
	821-6007-02	8	F173 Housing
2	186-6899	1	Panel, Rear
3	140-2761	3	Knob, Air Cleaner
4	186-7162-01	2	Gasket (622mm)
5	818-0231-01	6	Rivet, Pop (F173)
6	186-7162-03	2	Gasket (660mm)
7			Cover, Battery F172
	186-6896	1	DNAC, DNAD
	186-7116	1	DNAE, DNAF
	186-6896	1	F173 DNAC, DNAD

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
8	186-7162-06	2	Gasket (606mm)
9	186-7150	1	Support, Rear Insulation (F173)
10	186-7156	1	Insulation, Rear Duct (F173)
11	186-7101	1	Duct, Rear (F173)
12	186-7163-03	2	Seal, Sound (125mm)
13	870-0258	4	Rivet, Pivot Block
14	186-6974	4	Washer, Flat (M6)
15	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
16	186-6975	2	Washer, Flat (M8)
17	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)

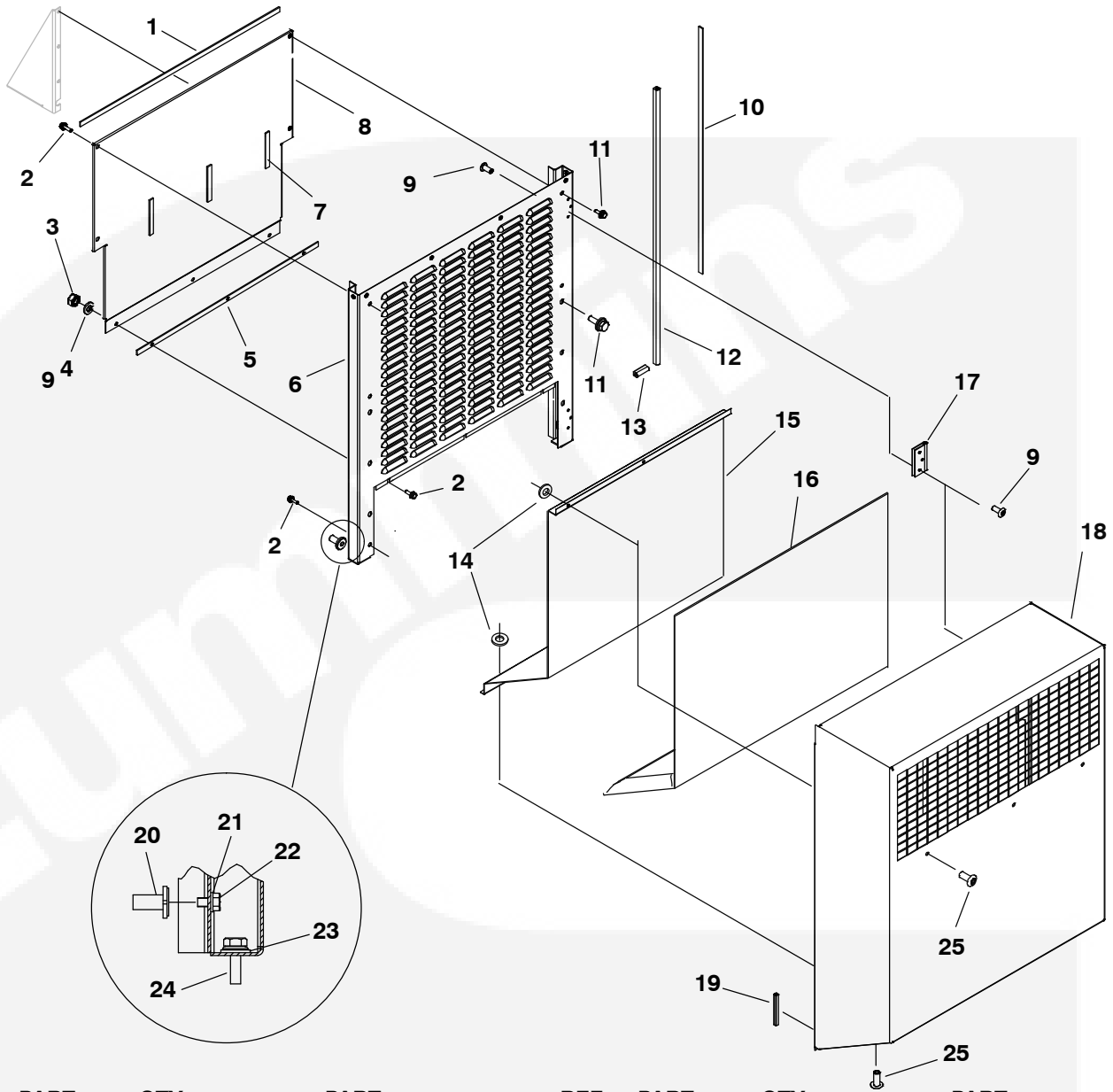
**Housing - Rear Panel (F172) (F173 DNAC, DNAD)
(Begin Spec C)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0211	1	Panel, Rear
2	184-0212	1	Duct, Rear
3	184-0256	1	Insulation, Rear Duct
4	821-6007-02	4	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
5	184-0326	1	Nut-U (M8 x 1.25mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	186-7162	1	Gasket (5')
7	186-7163	1	Gasket (2.3')
8	184-0325	18	Washer, Nylon Flat (M8)
9	186-6975	2	Washer, Flat (M8)

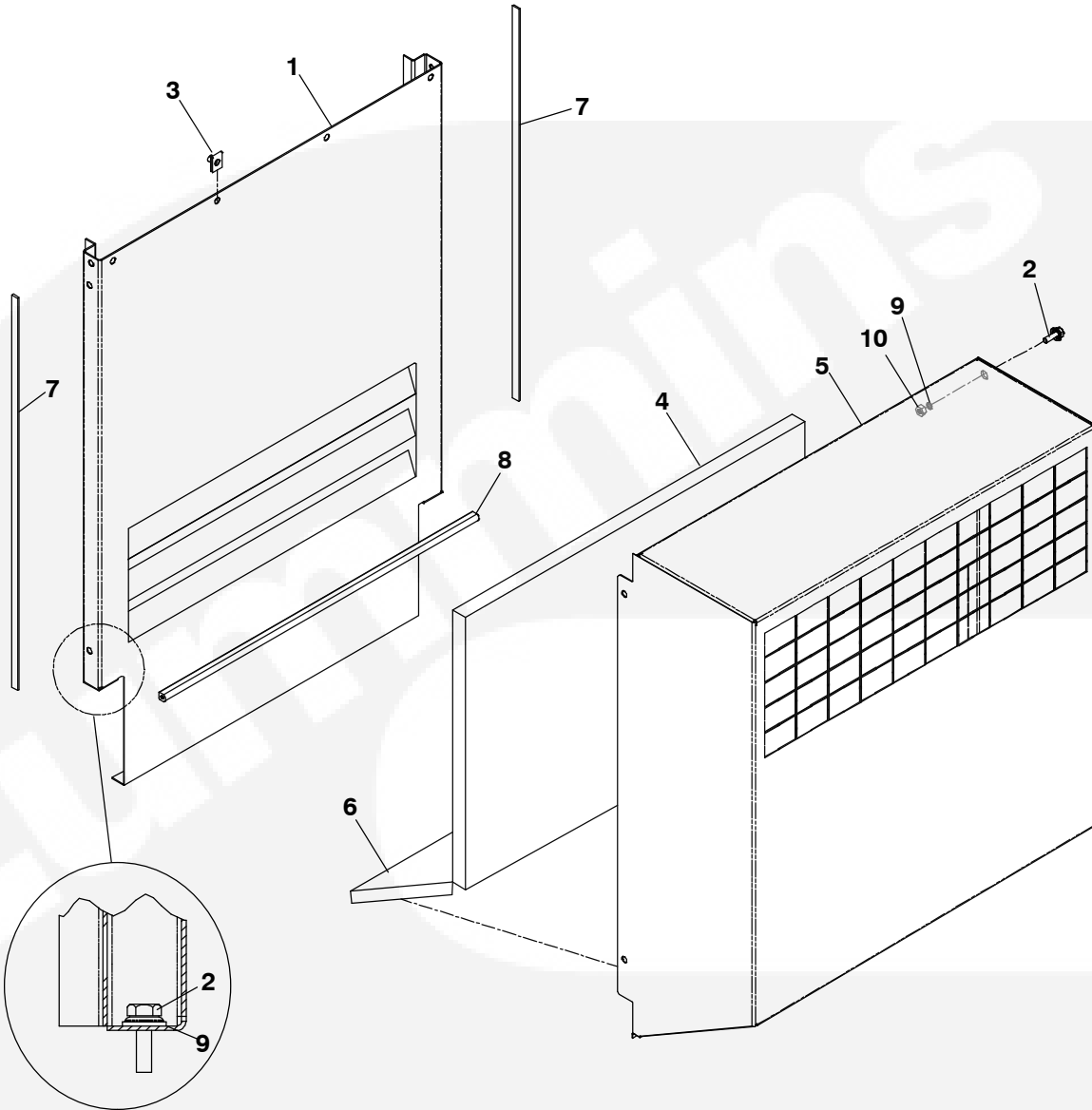
Housing - Rear Panel (F173 DNAE, DNAF) (Spec B)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-7162-07	1	Gasket (660mm)
2	186-6546	6	Screw, Hex Head Cap (M6 x 1 x 30mm)
3	186-6235	3	Nut, Hex (M6 x 1)
4	186-6597	3	Washer, Split Lock (M6)
5	186-7162-06	1	Gasket (606mm)
6	186-6899	1	Panel, Rear
7	186-7162-04	3	Gasket (101mm)
8	186-7159	1	Panel, Rear
9	818-0231-02	16	Rivet, Pop
10	186-7162-01	2	Gasket (622mm)
11	821-6007-02	8	Screw, Hex Head Sems (M8 x 1.25 x 20mm)
12	186-7163-01	1	Seal, Sound (788mm)
13	186-7163-02	1	Seal, Sound (38mm)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14	186-7054	6	Washer, Plain (M10)
15	186-7112	1	Support, Insulation
16	186-7111	1	Insulation, Rear Duct
17	406-0831	2	Hinge
18	186-7115	1	Duct, Rear
19	186-7163-03	2	Seal, Sound (125mm)
20	870-0258	4	Rivet, Pivot Block
21	186-6974	4	Washer, Flat (M6)
22	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2")
23	186-6975	2	Washer, Flat (M8)
24	186-6064	2	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
25	818-0231-01	6	Rivet, Pop (F173)

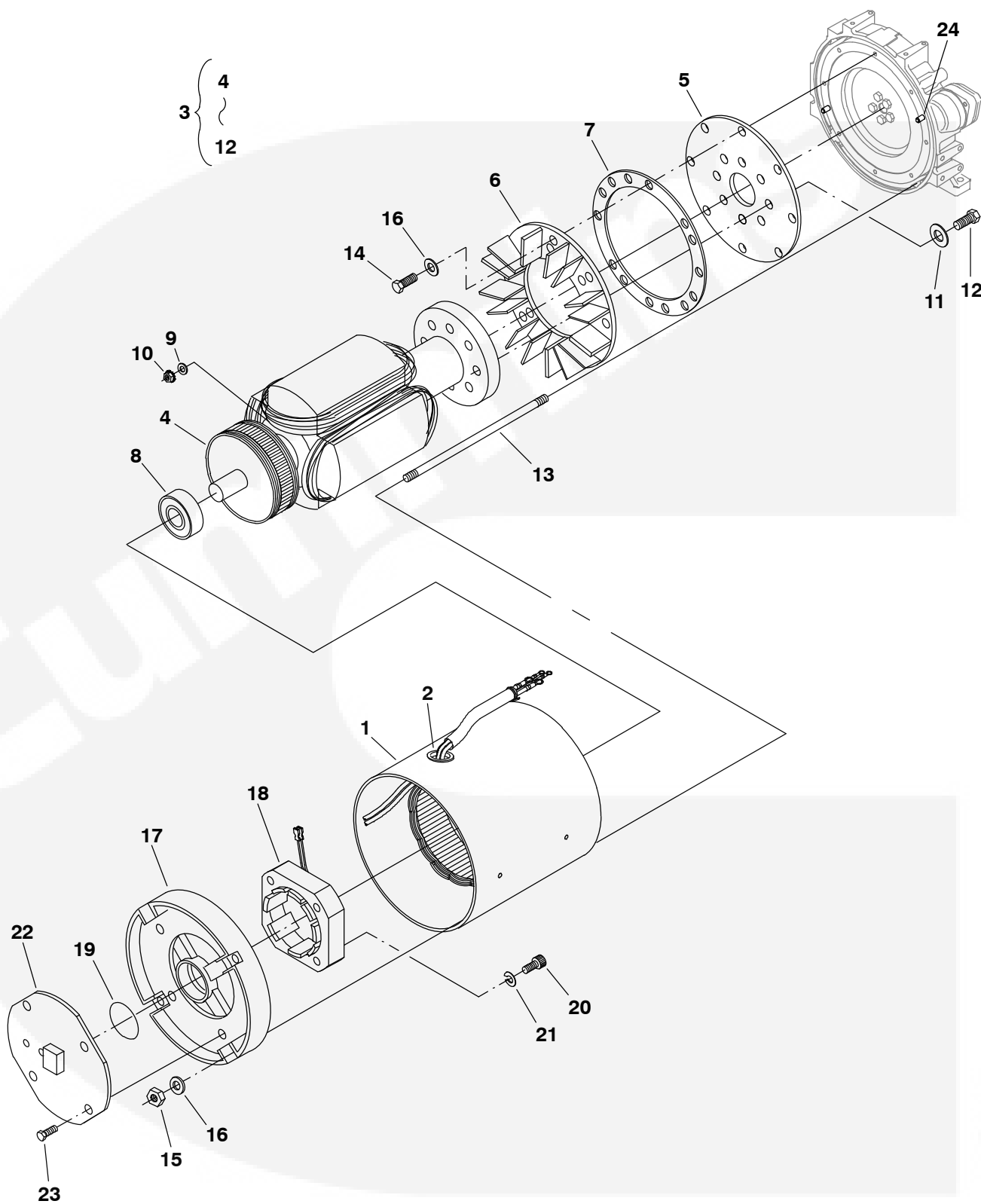
**Housing - Rear Panel (F173 DNAE, DNAF)
(Begin Spec C and DNAF Spec E)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0211	1	Panel, Rear
2	821-6007-02	8	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
3	184-0326	8	Nut, U (M8 x 1.25)
4	184-0251	1	Insulation, Rear Duct
5	184-0214	1	Duct, Rear

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
6	184-0266	1	Insulation, Rear Duct
7	186-7162	1	Gasket (5.0')
8	186-7163	1	Gasket (2.4')
9	184-0325	18	Washer, Nylon Flat (M8)
10	186-6975	2	Washer, Flat (M8)

Generator



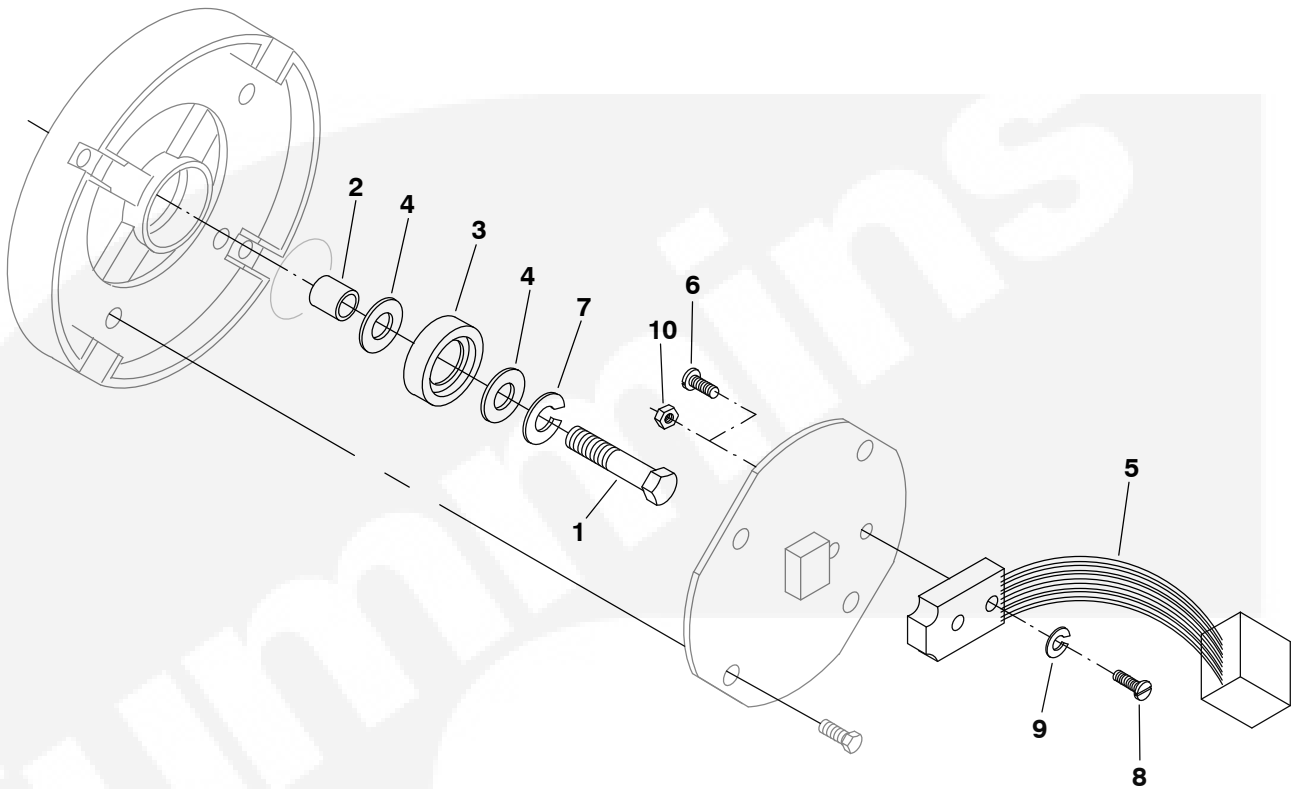
Generator

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Stator (Includes Grommet)	4	201-3515-01	1	*Rotor, Exciter
			Single Phase	5	232-3953-03	1	*Disc, Drive
	220-4524-02	1	DNAC	6	205-0229-02	1	*Fan, Generator
	220-4524-03	1	DNAD	7	232-3727-02	1	*Spacer, Drive Disc
	220-4524-04	1	DNAE	8	510-0173	1	*Bearing, Ball
	220-4524-06	1	DNAF	9	526-0399-11	2	*Washer, Flat (#10)
			Three Phase	10	870-0131-01	2	*Nut, ET Hex (#10)
			Up to 480V	11	526-0399-73	6	*Washer, Flat (M12)
			Standard Stack	12	800-3017-52	6	*Bolt, Hex Head Cap (M12 x 1.75 x 20mm)
	220-4525-02	1	DNAC	13			Stud
	220-4525-03	1	DNAD				Extended Stack
	220-4525-04	1	DNAE		520-1004-03	4	DNAC
	220-4525-06	1	DNAF		520-1004-04	4	DNAD
			Extended Stack		520-1004-06	4	DNAE
	220-4525-03	1	DNAC		520-1004-07	4	DNAF
	220-4525-04	1	DNAD				Standard Stack
	220-4525-06	1	DNAE		520-1004-02	4	DNAC
	220-4525-07	1	DNAF		520-1004-03	4	DNAD
			+ 600V (Standard Stack)		520-1004-04	4	DNAE
	220-4529-02	1	DNAC		520-1004-06	4	DNAF
	220-4529-03	1	DNAD	14	800-3017-38	8	Screw, Hex Head Cap (M10 x 1.5 x 30mm)
	220-4529-04	1	DNAE				Nut, Hex (3/8-16)
	220-4529-06	1	DNAF				Washer, Flat (7/8")
2	508-0183	1	Grommet	15	862-0026-07	4	Endbell
3			Rotor Assy (Includes Parts Marked *)	16	526-0399-42	12	Stator, Exciter
			Single Phase	17	211-0464	1	O'Ring, Seal
	201-3556-02	1	DNAC	18	220-4413-03	1	Screw (1/4-20)
	201-3556-03	1	DNAD	19	509-0143	1	Washer, Lock (1/4")
	201-3556-04	1	DNAE	20	802-0038	1	Cover, Inlet
	201-3556-06	1	DNAF	21	850-0114-05	2	Screw, Lock Head Flange (3/16-24 x .38")
			Three Phase	22	234-0957-02	4	Pin, Dowel
			Standard Stack (B256)	23	821-0001-01	4	
	201-3556-02	1	DNAC	24	186-6498	2	
	201-3556-03	1	DNAD				
	201-3556-04	1	DNAE				
	201-3556-06	1	DNAF				
			Extended Stack (B268)				
	201-3556-03	1	DNAC				
	201-3556-04	1	DNAD				
	201-3556-06	1	DNAE				
	201-3556-07	1	DNAF				

* - Parts Included in Rotor Assy.

+ - Extended Stack Not Available in 600V

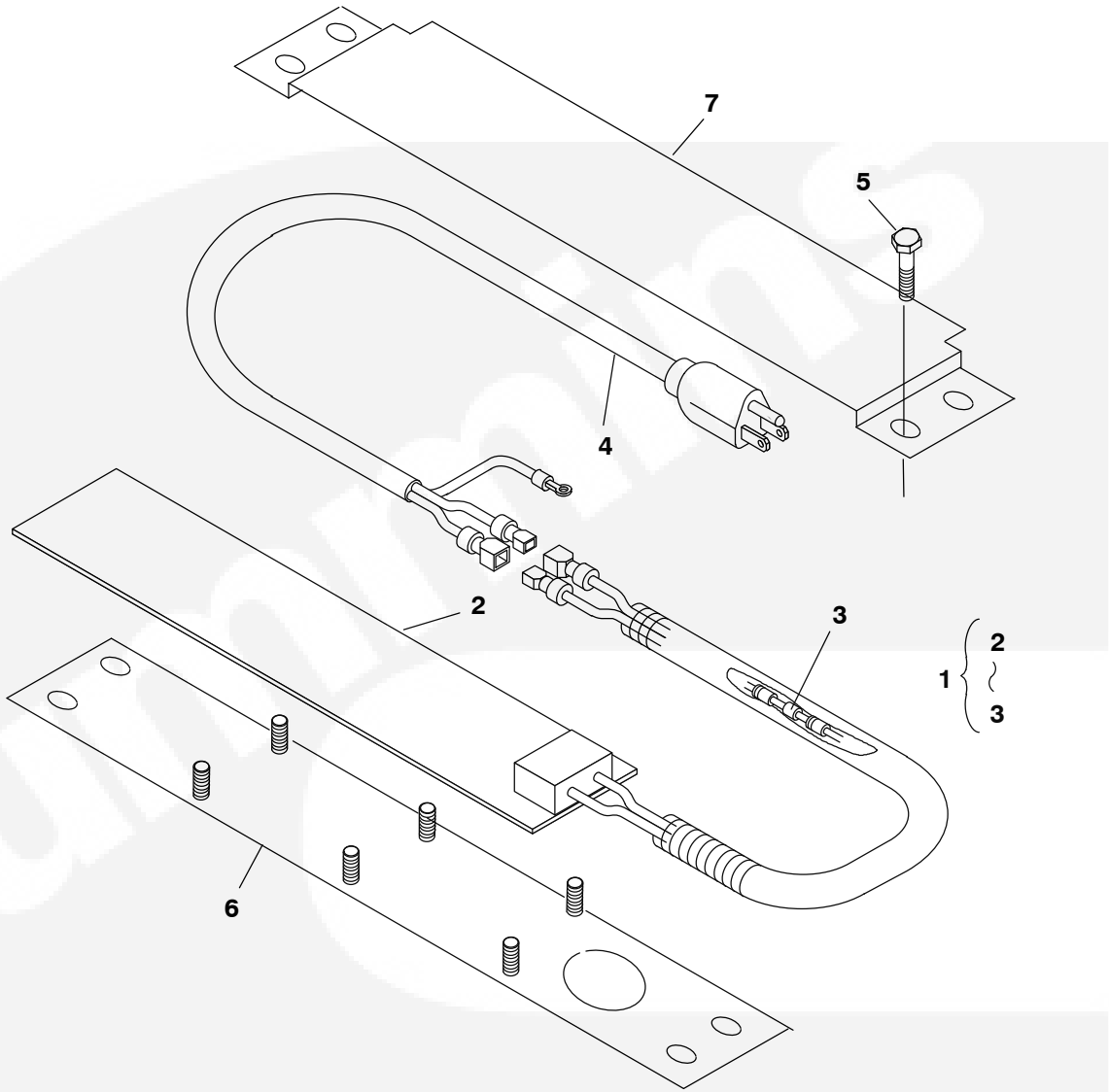
Overspeed



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0515	1	Screw, Hex Head Cap (3/8-16 x 1-3/4)
2	191-2131	1	Spacer
3	166-0767	1	Rotor, Ignition
4	526-0124	2	Washer, Flat (3/8")
5	300-4324	1	PCB Assy, Overspeed
6	815-0849	2	Screw, IT Cross Recessed (#6-32 x 3/4")

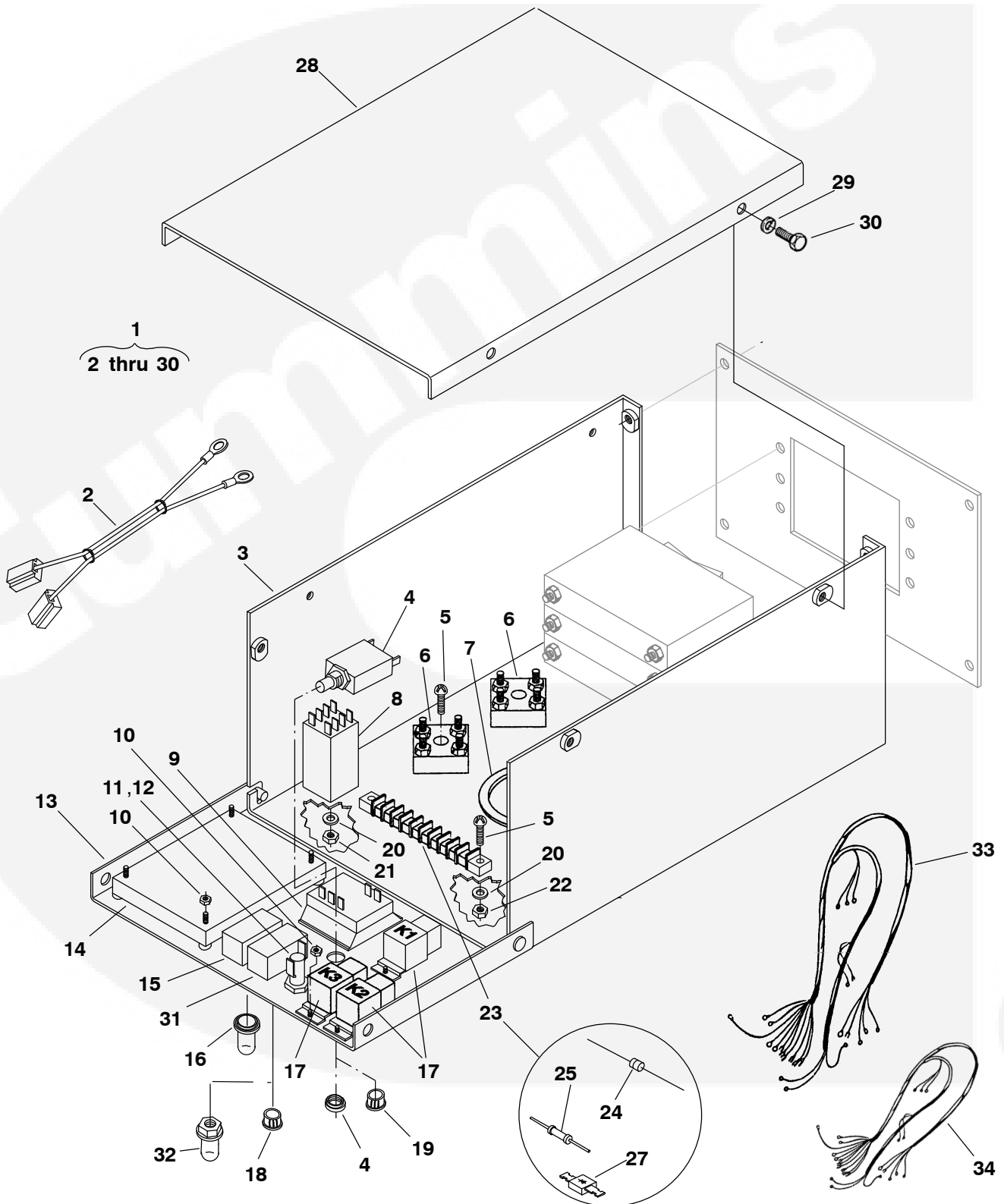
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	850-0050	1	Washer, Lock (3/8")
8	815-0865-13	2	Screw, Pan Head Machine (M4 x .7 x 45mm)
9	850-2004	2	Washer, Lock (M4)
10	860-2005	2	Nut, Hex (M4 x .7)

Generator Heater



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Heater Assy, Generator (Includes Heater and Splice)	4			Cable, Control Heater 120V
	300-5137-01	1	120V		335-0178	1	208/240V
	300-5137-02	1	208/240V	5	815-0578	4	Screw, Hex Washer Head (M6 x 1 x 12.7)
2			Heater, Control (120V)	6	232-3832	1	Plate, Heater Mounting
	333-0550-01	1	120V	7	232-3828	1	Cover, Heater
	333-0550-02	1	208/240V				
3	332-1789	2	Splice, Window (18 Gauge)				

**Control
Manual (Type I)
Remote (Type II)
(Spec A)**



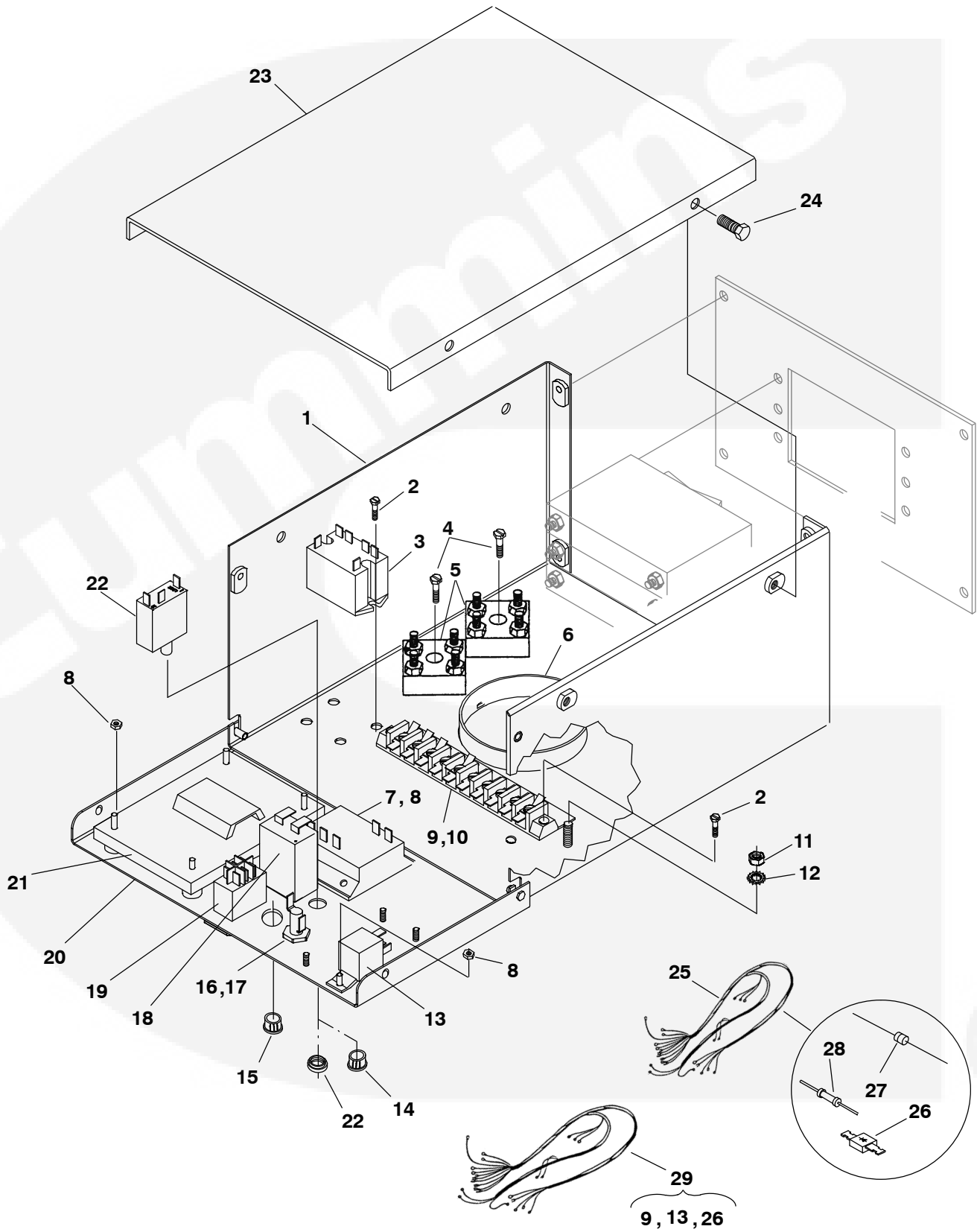
**Control
Manual (Type I)
Remote (Type II)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box Assy, Control (Includes Parts Marked *)	19	186-6357	1	*Plug, Plastic (Manual)
	186-6360	1	Manual	20			*Washer (#6)
	186-6363	1	Remote		186-6663	4	Manual
2	186-6341	1	*Harness, Voltage Sensing		186-6663	5	Remote
3	186-6310	1	*Box, Control	21	186-6832	1	*Nut (6/32) (Remote)
4	320-1139	1	*Breaker, Circuit (DC) (Remote (Includes Mounting Hardware 3/8-32 Thread)	22			*Nut (M4)
					186-6831	4	Manual
					186-6831	8	Remote
5	186-6652	4	*Screw, Fillister Head Machine (M4 x .7 x 16mm)	23	186-6356	1	*Block, DC Terminal
6	332-3249	2	*Block, AC Terminal	24	186-6859	1	*Diode Assy, Zener (3.6V, 5W) (Remote)
7	186-6359	1	*Grommet	25	186-6861	1	*Resistor Assy, Metal Oxide (Remote)
8	186-6833	1	*Relay (Remote)	26	186-6834	1	*Washer (9mm) (Remote)
9	307-2871	1	*Timer, Control Unit (Remote)	27	186-6860	2	*Diode Assy (Manual)
10			*Nut, Lock (M5)	28	186-6349	1	*Cover, Control Box
	186-6912	6	Manual	29	186-6617	10	*Washer, Flat Spring (M6)
	186-6912	7	Remote	30	186-6621	10	*Screw, Hex Head Cap (M6 x 10mm)
11	321-0175	1	*Holder, Fuse				+ Switch, Off/On Toggle
12	321-0253	1	*Fuse	31	186-6388	1	
13	186-6347	1	*Panel, Control	32	186-6298	1	+ Seal, Switch
14	305-0844	1	*Regulator, Voltage	33	186-6331	1	Harness, Engine
15			*Switch, On/Off/Start	34			*Harness, Panel
	186-6354	1	Manual		186-6382	1	Manual
	186-6362	1	Remote		186-6383	1	Remote
16	186-6298	1	*Boot, On/Off/Start Switch				
17			*Relay, Fault				
	307-2817-01	1	Manual				
	307-2817-01	3	Remote				
18	186-6358	1	*Plug, Plastic (Preheat)				

* - Parts Included in Control Box Assy.

+ - Parts Included in Manual Preheat Kit Listed on Preheat Kit Page.

**Control
Manual (Type I)
Remote (Type II)
(Begin Spec B)**

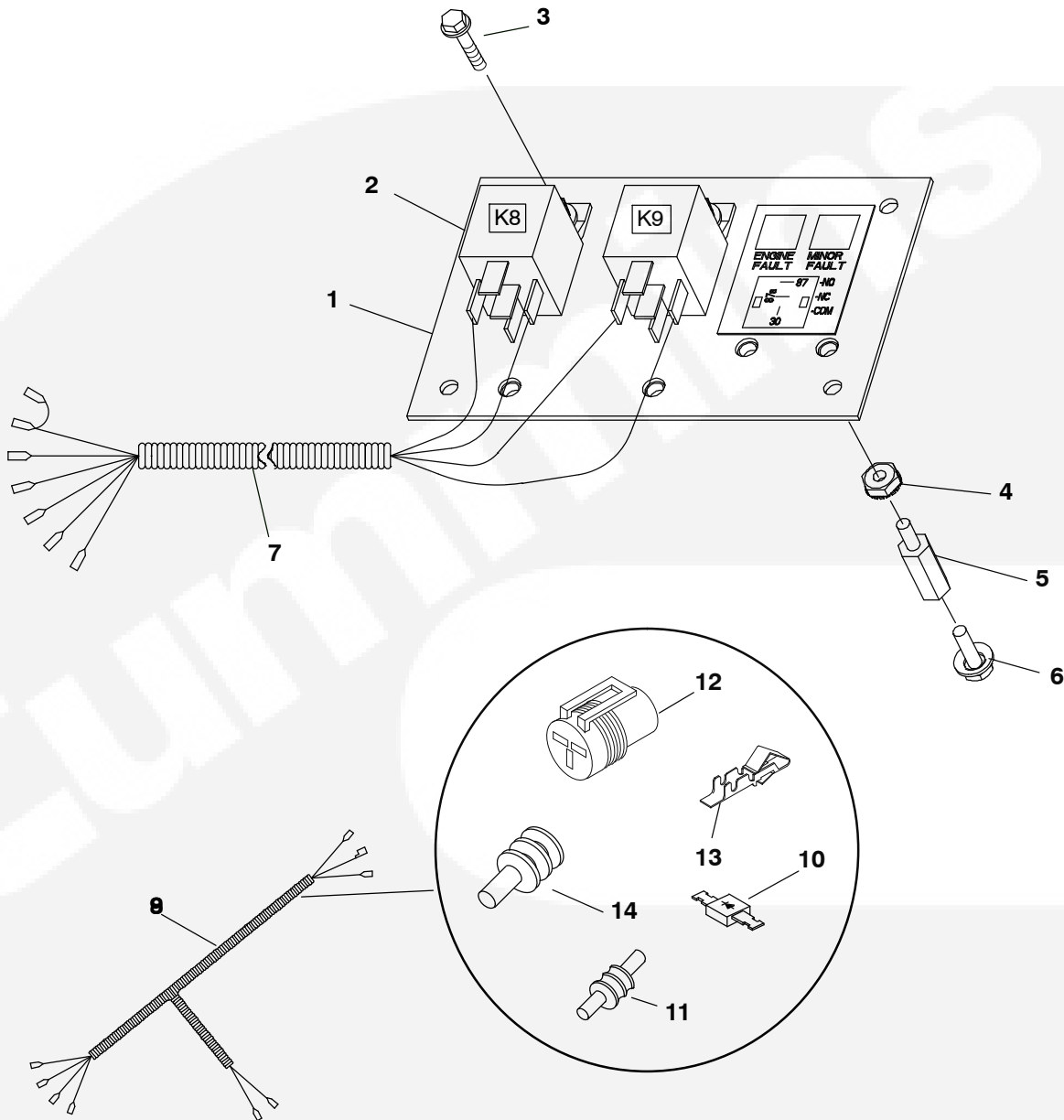


**Control
Manual (Type I)
Remote (Type II)
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3321	1	Box, Control	18	302-2002	1	Meter, Hour (Remote Only)
2			Screw (M4 x .7 x 20mm)	19			Switch, On/Off/Start (S12)
	815-0925-01	2	Manual		308-1086	1	Manual
	815-0925-01	4	Remote		308-1011	1	Remote
3	307-2677-03	1	Relay (Remote)	20	319-3322	1	Panel, Control
4	821-6001-03	2	Screw, Hex Head Sems (M4 x .8 x 16mm)	21	305-0982	1	Regulator, Voltage (VR21)
5	332-3249	2	Block, AC Terminal	22	320-1824-02	1	Breaker, Circuit (DC) (Remote Only) (Includes Mounting Hardware 3/8-32 Thread)
6	508-1127	1	Bushing, Nylon	23	319-3326	1	Cover, Control Box
7	307-2871	1	Timer, Control Unit (Remote)	24	821-6002-03	6	Screw, Hex Head Sems (M6 x 1 x 16mm)
8			Nut, Nylon Lock (M4)	25	338-3735	1	Harness, Engine (Includes Diode, Zener, and Resistor)
	870-2064-01	5	Manual	26	357-0030	1	#Diode (CR2)
	870-2064-01	12	Remote	27	359-0115	1	Zener (3.6V, 5@) (CR1)
9	332-3564	1	#Block, DC Terminal	28	350-0980	1	Resistor (510O, 2W, 5%)
10	332-3573	1	Strip, Marker	29			Harness, Control (Includes Parts Marked #)
11	860-2057	1	Nut, Hex (M6)		338-3738	1	Manual
12	856-0006	1	Washer, EIT Lock (1/4")		338-3732	1	Remote
13			#Relay, Fault (K14)				
	307-2817-01	1	Manual				
	307-2817-01	4	Remote				
14	517-0131	1	Plug, Plastic (Manual Only)				
15	517-0133	1	Plug, Plastic				
16	321-0175	1	Holder, Fuse				
17	321-0353	1	Fuse (20A) (F1)				

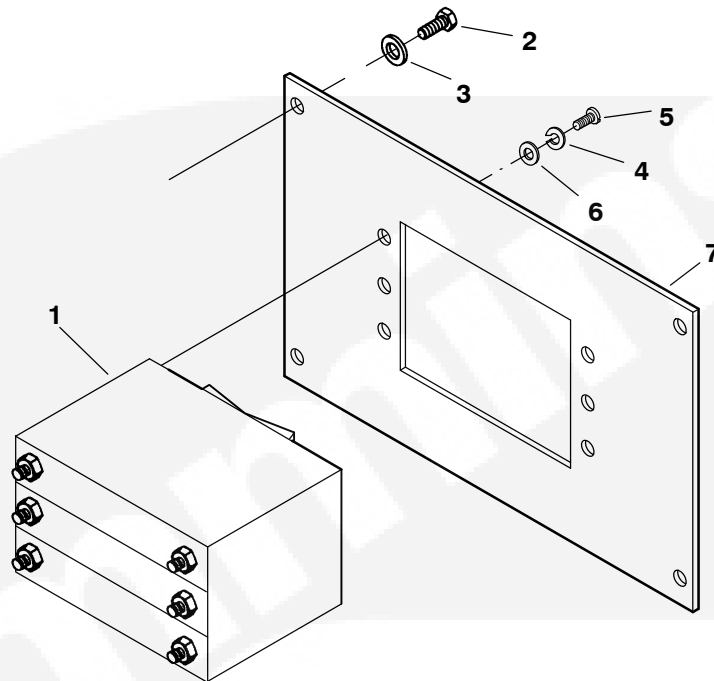
– Parts Included in Control Harness.

Aux Relay Board (Manual/Remote Control) (Begin Spec B)



r5REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3601-02	1	Panel, Relay	9	338-3743	1	Harness, Dry Contact (Includes Parts Marked)
2	307-2817-01	2	Relay (K8, K9) (12V)	10	357-0030	2	*Rectifier
3	821-6001-02	2	Screw, Hex Head Sem (M5 x 0.8 x 12mm)	11	323-1712	AR	*Plug, Cavity
4	870-0131	4	Nut, ET Sems	12	323-1765	1	*Housing, Connector (4 Pin)
5	870-2204	4	Standoff, Male/Female Hex (#10-32)	13	323-1709	AR	*Terminal, Socket
6	821-5000-05	4	Screw, Hex Head Sems	14	323-1708	AR	*Seal, Cable
7	338-3731	1	Harness, Control	* - Parts Included in Dry Contact Harness.			
8	338-3799	1	Harness, Dry Contact (Includes Parts Marked *)				

Control Box Back Panel
Manual (Type I) Remote (Type II)
(Spec A)

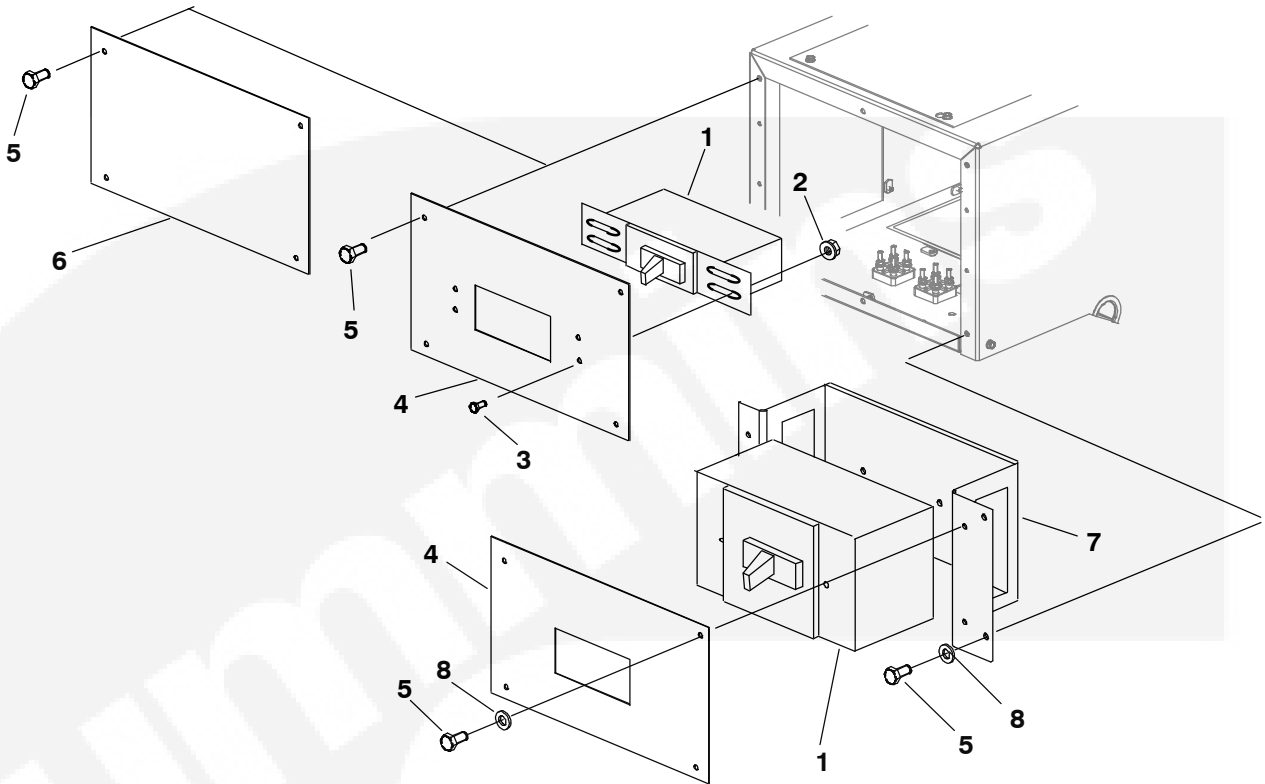


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit				
			2 Pole, 240V				
	320-1841-01	1	10A		320-1827-10	1	55A
	320-1841-02	1	15A		320-1827-11	1	60A
	320-1841-03	1	20A		320-1827-12	1	65A
	320-1841-04	1	25A		320-1827-13	1	70A
	320-1841-05	1	30A		320-1827-14	1	75A
	320-1841-06	1	35A		320-1827-15	1	80A
	320-1841-07	1	40A		320-1827-16	1	85A
	320-1841-08	1	45A		320-1827-17	1	90A
	320-1841-09	1	50A		320-1827-18	1	95A
	320-1841-10	1	55A		320-1827-19	1	100A
	320-1841-11	1	60A				600V
	320-1841-12	1	65A		320-1851-01	1	10A
	320-1841-13	1	70A		320-1851-02	1	15A
	320-1841-14	1	75A		320-1851-03	1	20A
	320-1841-15	1	80A		320-1851-04	1	25A
	320-1841-16	1	85A		320-1851-05	1	30A
	320-1841-17	1	90A	2	186-6034	4	Screw (M6 x 1 x 20mm)
	320-1841-18	1	95A	3	186-6591	4	Washer, Flat (M6)
	320-1841-19	1	100A	4			Washer, Lock (#6)
			3 Pole		186-6428	4	2 Pole Circuit Breaker
			480V		186-6428	6	3 Pole Circuit Breaker
	320-1827-01	1	10A	5			Screw (#6-32 x 3/8")
	320-1827-02	1	15A		186-6488	4	2 Pole Circuit Breaker
	320-1827-03	1	20A		186-6488	6	3 Pole Circuit Breaker
	320-1827-04	1	25A	6			Washer, Flat (#6)
	320-1827-05	1	30A		186-6663	4	2 Pole Circuit Breaker
	320-1827-06	1	35A		186-6663	6	3 Pole Circuit Breaker
	320-1827-07	1	40A	7			Panel, Control Box Back
	320-1827-08	1	45A		186-6351	1	W/O Circuit Breaker Hole
	320-1827-09	1	50A				W/Circuit Breaker Hole
					186-6350	1	2 Pole Circuit Breaker
					186-6348	1	3 Pole Circuit Breaker

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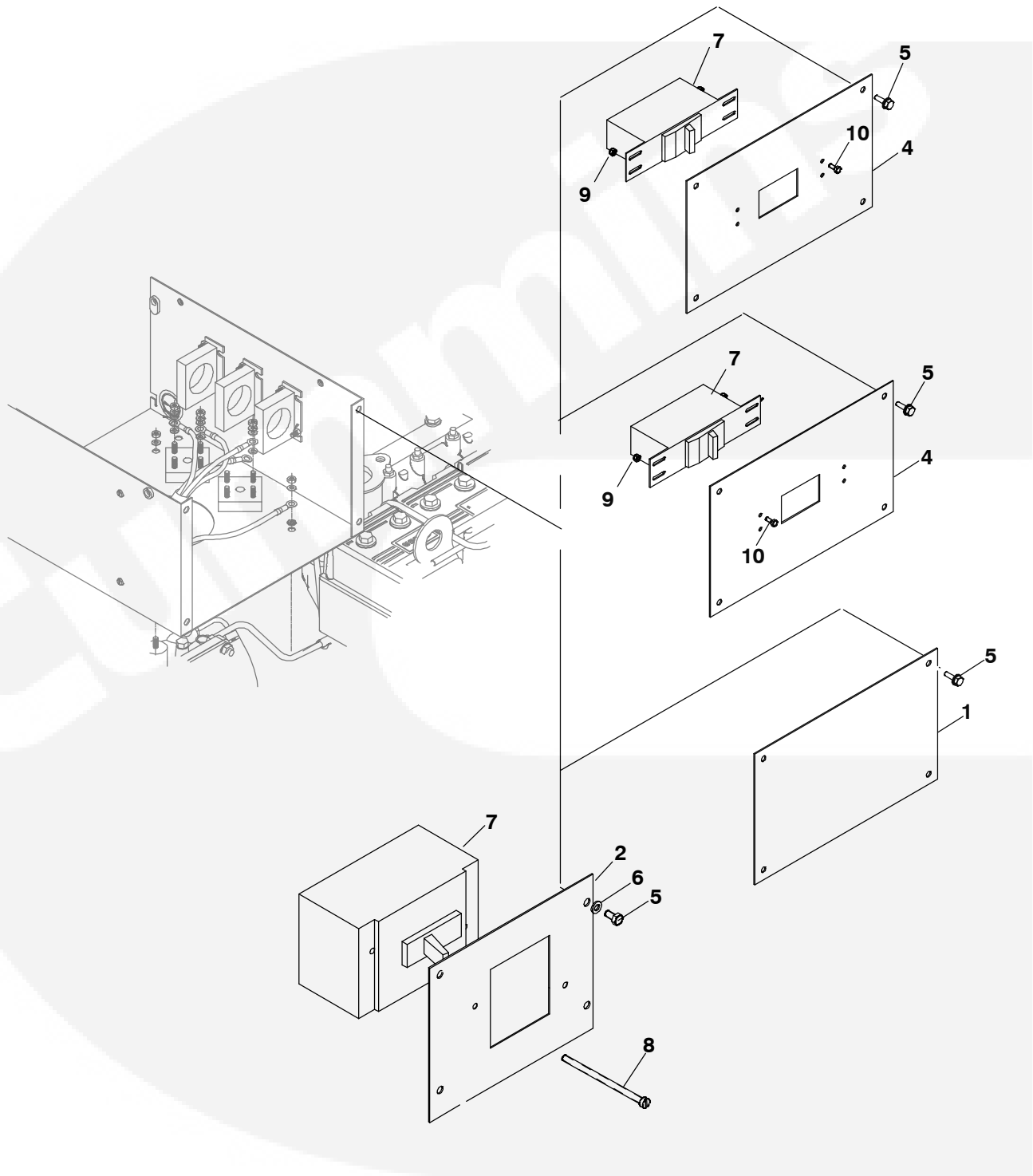


**Control Box Back Panel
Manual (Type I) Remote (Type II)
(Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Breaker, Circuit	2	186-6831	4	Nut, Nylock (M4 x 0.7)
			2 Pole, 240V				(W/2 Pole Circuit Breaker)
	320-2005-11	1	10A	3	186-7078	4	Screw, Hex Head Cap
	320-2005-10	1	15A				(M4 x 0.7 x 16mm)
	320-2005-09	1	20A				(W/2 Pole Circuit Breaker)
	320-2005-08	1	25A	4			Panel, Control Box Back
	320-2005-07	1	30A				(W/Circuit Breaker Hole)
	320-2005-06	1	35A		319-3323-01	1	2 Pole Circuit Breaker
	320-2005-05	1	40A		319-3323-01	1	15-70A (All Sets)
	320-2005-04	1	45A		319-3325	1	80-125A (DNAE, DNAF
	320-2005-03	1	50A				Only)
	320-2005-02	1	60A				3 Pole Circuit Breaker
	320-2005-01	1	70A		319-3824	1	480V Sets
	320-2006-04	1	80A		319-3647	1	600V Sets
	320-2006-03	1	90A	5			Screw, Hex Head Cap
	320-2006-02	1	100A				(M6 x 1 x 16mm)
			3 Pole		186-6546	4	2 Pole CB (and W/O CB)
			480V		186-6546	8	3 Pole CB
	320-2009-11	1	15A	6	319-3324	1	Panel, Control Box Back
	320-2009-10	1	20A				(W/O Circuit Breaker Hole)
	320-2009-09	1	30A	7			Bracket, Circuit Breaker
	320-2009-08	1	40A				(W/3 Pole CB)
	320-2009-06	1	50A		319-3823-02	1	480V Sets
	320-2009-05	1	60A		319-3646-01	1	600V Sets
	320-2009-04	1	70A	8	186-6974	8	Washer, Flat (M6) (W/3 Pole CB)
	320-2009-03	1	80A				
			600V				
	320-1959-22	1	15A				
	320-1959-21	1	20A				
	320-1959-20	1	30A				

Circuit Breaker Panel
(Begin Spec C and DNAF Spec E)

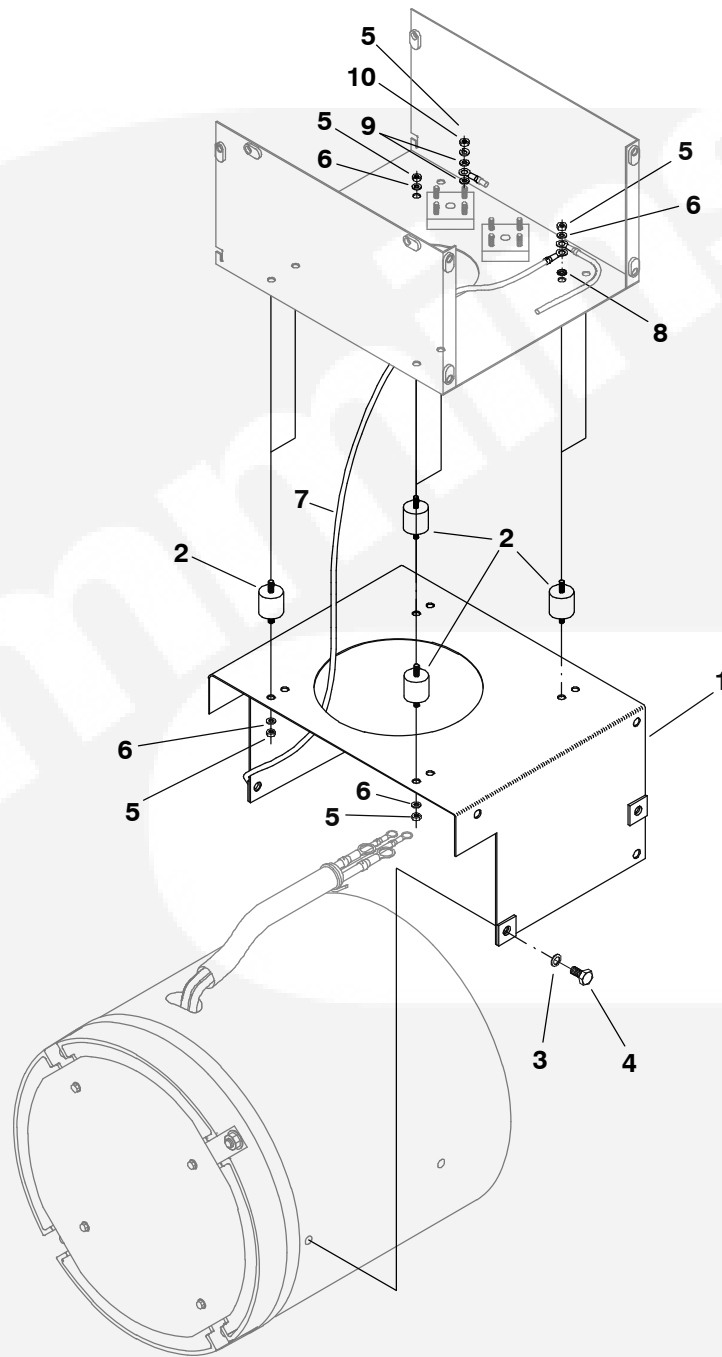


Circuit Breaker Panel
(Begin Spec C and DNAF Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	184-0228	1	Panel, Circuit Breaker	8	184-0337	2	Screw (M4 x .7 x 80mm)
2	184-0227	1	Panel, Circuit Breaker	9	186-6831	4	Nut, Nylon (M4 x .7mm)
3	184-0226	1	Panel, Circuit Breaker	10	184-0316	4	Screw, Hex Head Cap (M4 x .7 x 16mm)
4	184-0204	1	Panel, Circuit Breaker				
5	186-6546	4	Screw, Hex Head Cap (M6 x 1.0 x 16mm)				
6	186-6974	4	Washer, Flat M6				
7			Breaker, Circuit 2 Pole, 240V				
	320-2005-11	1	10A				
	320-2005-10	1	15A				
	320-2005-09	1	20A				
	320-2005-08	1	25A				
	320-2005-07	1	30A				
	320-2005-06	1	35A				
	320-2005-05	1	40A				
	320-2005-04	1	45A				
	320-2005-03	1	50A				
	320-2005-02	1	60A				
	320-2005-01	1	70A				
	320-2006-04	1	80A				
	320-2006-03	1	90A				
	320-2006-02	1	100A				
			3 Pole 480V				
	320-2009-11	1	15A				
	320-2009-10	1	20A				
	320-2009-09	1	30A				
	320-2009-08	1	40A				
	320-2009-06	1	50A				
	320-2009-05	1	60A				
	320-2009-04	1	70A				
	320-2009-03	1	80A				
			600V				
	320-1959-22	1	15A				
	320-1959-21	1	20A				
	320-1959-20	1	30A				

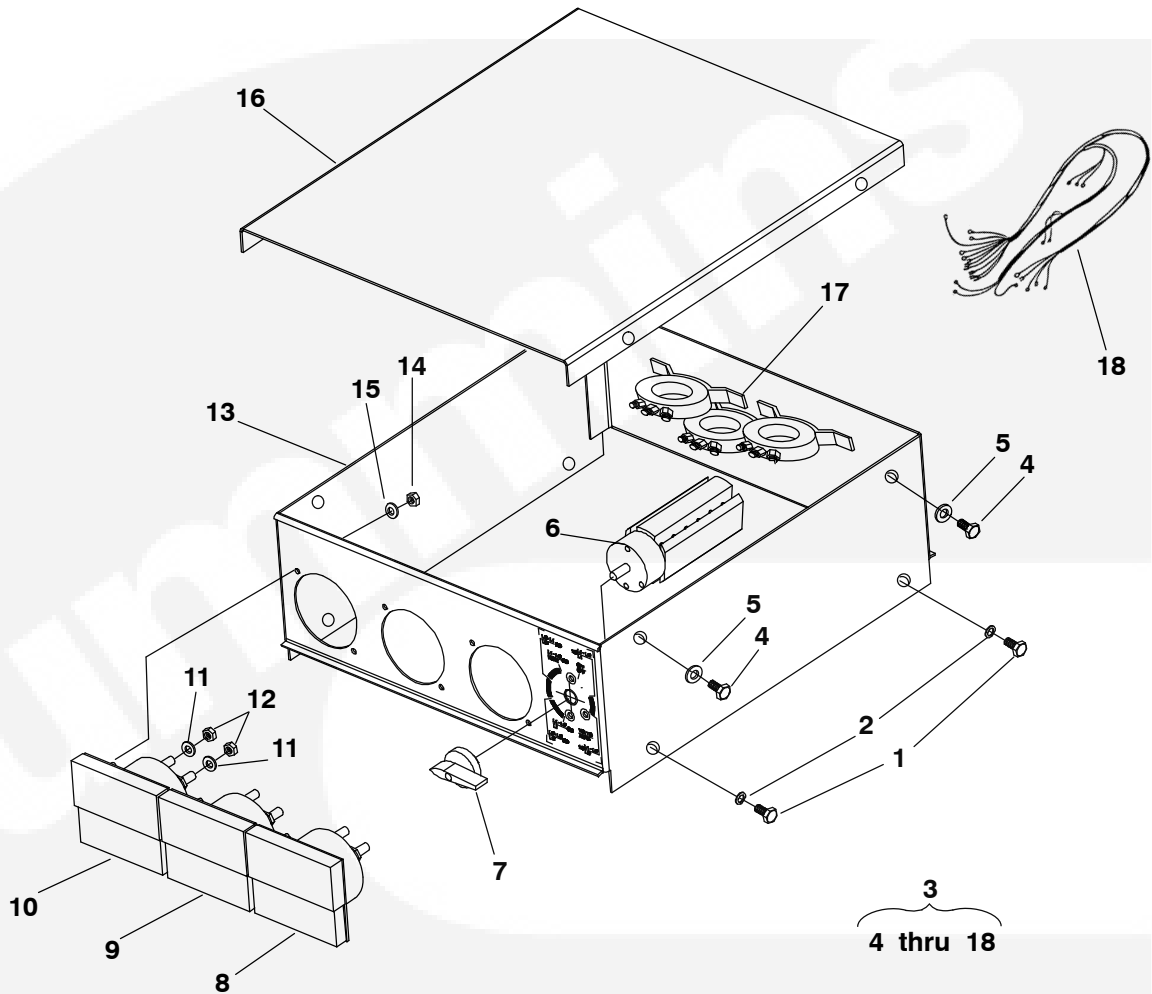


Control Mount Manual (Type I) Remote (Type II)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6352	1	Saddle	5	186-6209	17	Nut, Hex (M6 x 1)
2	186-6311	4	Mount, Vibration	6	186-6617	16	Washer, Spring (M6)
	186-6979	4	2 Cylinder	7	186-6339	1	Strap, Ground
3	186-6623	4	3/4 Cylinder	8	186-6635	1	Washer, EIT (1/4")
4	186-6622	4	Washer, EIT (5/16")	9	186-6591	16	Washer, Flat (M6)
		4	Screw (M8 x 1.25 x 16mm)	10	186-6597	8	Washer, Lock (M6)

Meter Panel **Manual (Type I) Remote (Type II)** **(Spec A)**



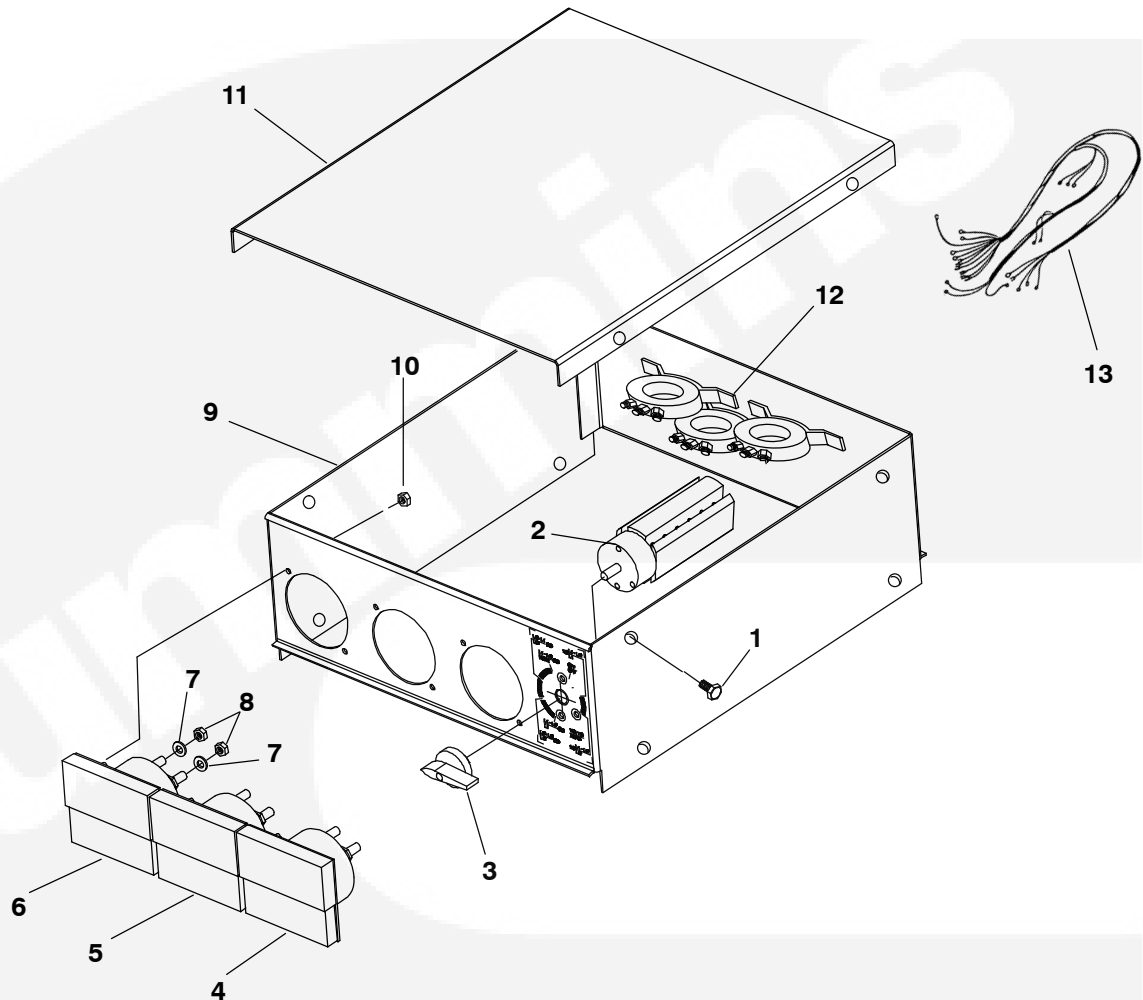
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Kit, Meter Panel	9			+ Ammeter
	300-5053-01	1	0-15 or 0-30 Amps	302-2033	1		15/30A
	300-5053-02	1	0-50 or 0-100 Amps	302-1473	1		50/100A (DNAB Only)
1	186-6621	8	Screw, Hex Head Cap (M6 x 1 x 10mm)	302-1968	1		+ Meter, Frequency
2	186-6974	8	Washer (M6)	11	186-7030	8	+ Washer (1/4")
3			Box, Control (Includes Parts Marked +)	12	186-7050	8	+ Nut, Hex (1/4-28)
	186-6867-01	1	15A Ammeter	13	186-6863	1	+ Box, AC Control
	186-6867-02	1	30A Ammeter	14	186-7040	6	+ Nut (4-40)
	186-6867-03	1	50A Ammeter	15	186-7041	6	+ Washer (#4)
	186-6867-04	1	100A Ammeter	16	186-6862	1	+ Cover, AC Control
4	186-6621	4	+ Screw, Hex Head Cap (M6 x 1 x 10mm)	17			+ Transformer, Current
5	186-6974	4	+ Washer (M6)	302-2034-03	3		W/15-30A Ammeter
6	308-1052	1	+ Switch, Phase Selector (Includes Knob)	302-2034-02	3		W/50-100A Ammeter (DNAB Only)
7	308-1082	1	+ Knob, Selector Switch	18	186-6864	1	+ Harness, Wiring
8	302-1148	1	+ Meter, Volt				

+ - Parts Included in Control Box.

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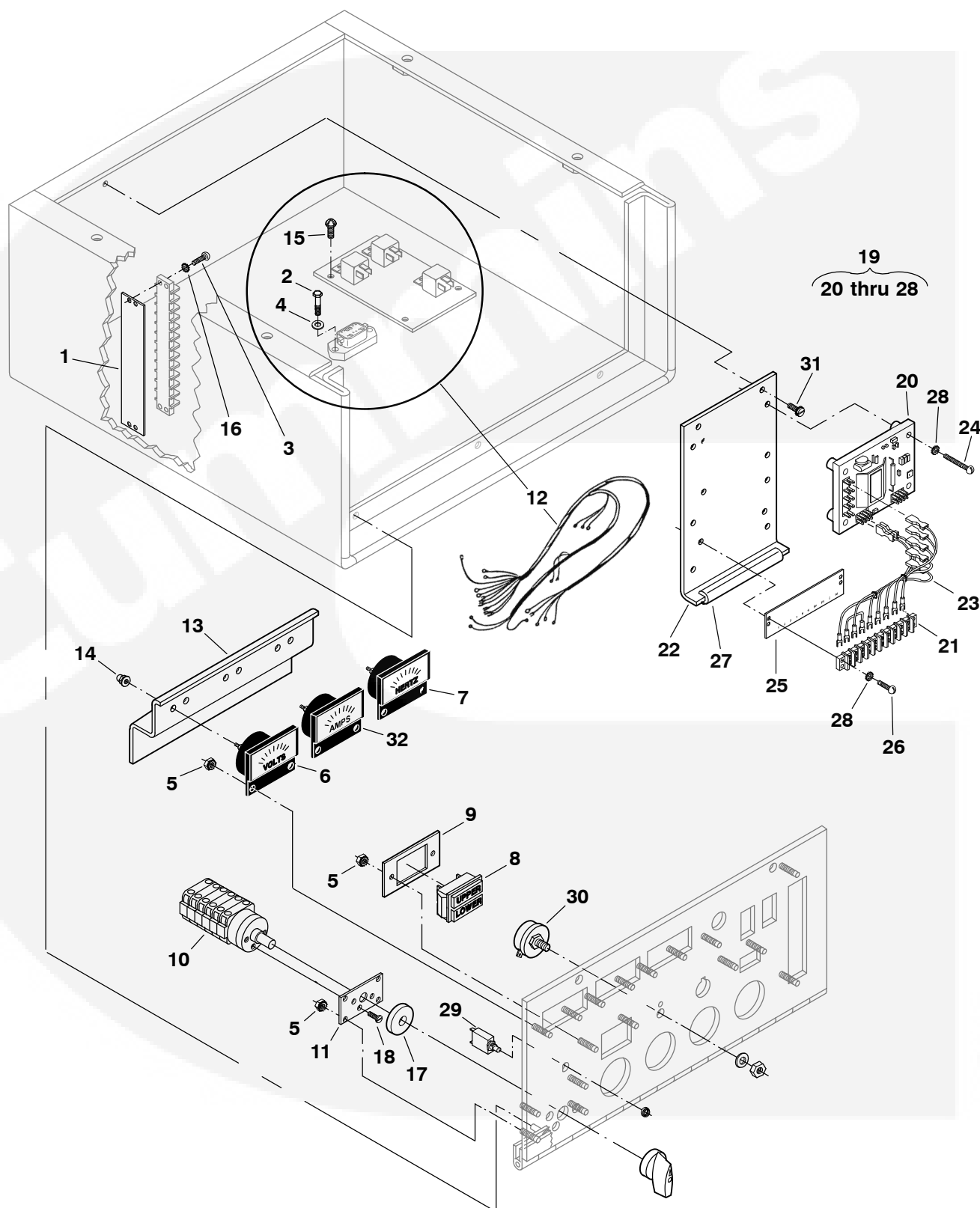
Meter Panel **Manual (Type I) Remote (Type II)** **(Begin Spec B)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	821-6002-03	4	Screw, Hex Head Sems (M6 x 1 x 16mm)
2	308-1052	1	Switch, Phase Selector (Includes Knob)
3	308-1082	1	Knob, Selector Switch
4	302-1148	1	Meter, Volt
5	302-2033	1	Ammeter 15/30A
	302-1473	1	50/100A (DNAB Only)
6	302-1968	1	Meter, Frequency

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	186-6933	6	Washer (1/4")
8	186-7050	6	Nut, Hex (1/4-28)
9	300-5215-04	1	Box, AC Control
10	870-1220	6	Nut (4-40)
11	300-5214-02	1	Cover, AC Control
12	302-2034-03	3	Transformer, Current W/15-30A Ammeter
	302-2034-02	3	W/50-100A Ammeter (DNAB Only)
13	338-3775	1	Harness, AC Control

AC Detector Control
(Type III)
(Spec A)

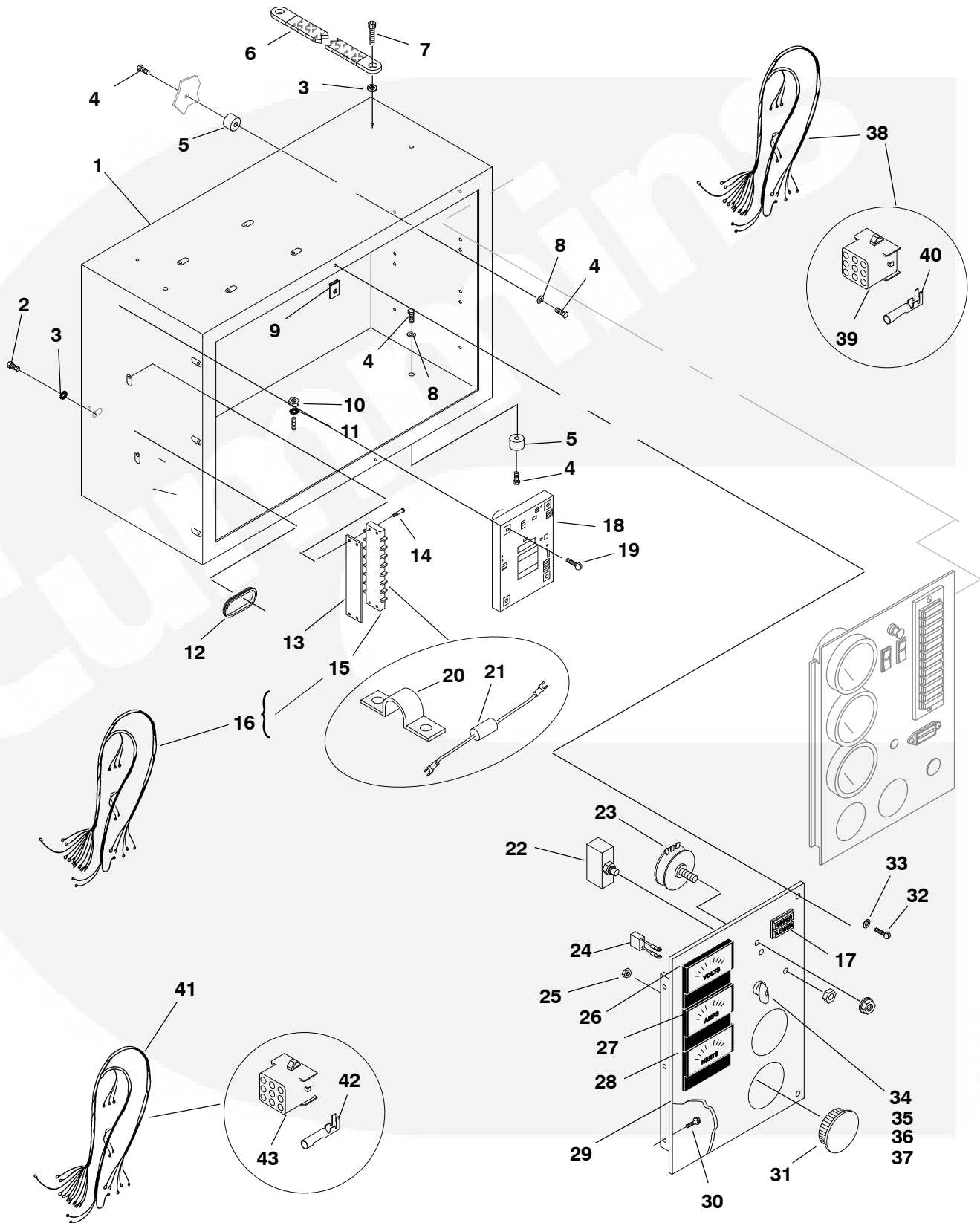


**AC Detector Control
(Type III)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	332-2723	1	Strip, Marker	13	319-2144	1	Cover, Meter
2	800-2033-01	4	Screw, Hex Head Cap (M6 x 1 x 16mm)	14	870-0439	6	Nut, Acorn (1/4-28)
3	812-0028	2	Screw, Round Head Machine (#4-40 x 5/16")	15	815-0550	4	Screw, IT Phillips Cross Recessed (#6-32 x 3/8")
4	526-0422	4	Washer, Nylon Retainer	16	853-0003	2	Washer, ET Lock (#4)
5	870-1220	14	Nut, ET Hex (#4-40)	17	308-1056	1	Gasket, Switch
6			Meter, AC Volt (M21)	18	815-0875-02	3	Screw, Pan Head Machine (M4 x 0.7 x 8mm)
	302-1148	1	Up to 480V	19	305-0949	1	Regulator Assy, Voltage (VR21) (Includes Parts Marked *)
	302-1753	1	600V	20	305-0844	1	*Regulator, Voltage (VR21)
7	302-1968	1	Meter, Frequency (M23)	21	332-0751	1	*Block, Terminal (10 Place)
8	322-0363	1	Lamp, Over/Under (DS21, DS22)	22	305-0884	1	*Plate, Voltage Regulator Mounting
9	319-2141	1	Bracket, Lamp	23	338-3481	1	*Harness, Regulator
10	308-1052	1	Switch, Rotary (Volt & Ammeter)	24	812-0084	4	*Screw (#8-32 x 1")
11	319-2490	1	Bracket, Switch	25	332-3247	1	*Strip, Marker
12	338-2992-01	1	Harness, Control (Includes the Following Indented Parts)	26	812-0082	2	*Screw (#8-32 x 3/4")
	321-0330	1	Holder Assy, Fuse	27	508-0139	1	*Channel, Rubber
	332-0607	1	Block, Terminal	28	835-0005	6	*Washer, ET (#8)
	821-0040	3	Screw, Lock Head Flange (#10-32 x 5/16")	29	320-1688-01	1	Breaker, Circuit (CB21)
	307-2817-02	3	Relay	30	303-0261	1	Potentiometer (R21)
	319-2140	1	Plate, Relay	31	815-0428	2	Screw, ET Pan Head (#10-32 x 3/8")
	323-1633-02	1	Connector, Receptacle (12 Pin)	32			Ammeter (M22)
	323-1633-01	1	Connector, Receptacle (12 Pin)		302-1473	1	0-50, 0-100
	323-1591	3	Plug, Connector		302-2033	1	0-15, 0-30
	350-1222	1	Resistor Assy				
	323-1581	2	Wedge, Receptacle				
	323-1302	8	Pin, Contact				
	323-1308	1	Housing, PCB (12 Pin)				
	323-1200-01	15	Contact, Socket				
	323-1304	2	Housing, Connector (6 Pl)				
	323-1306	1	Housing, Connector (8 Pl)				

* - Parts Included in Voltage Regulator Assy.

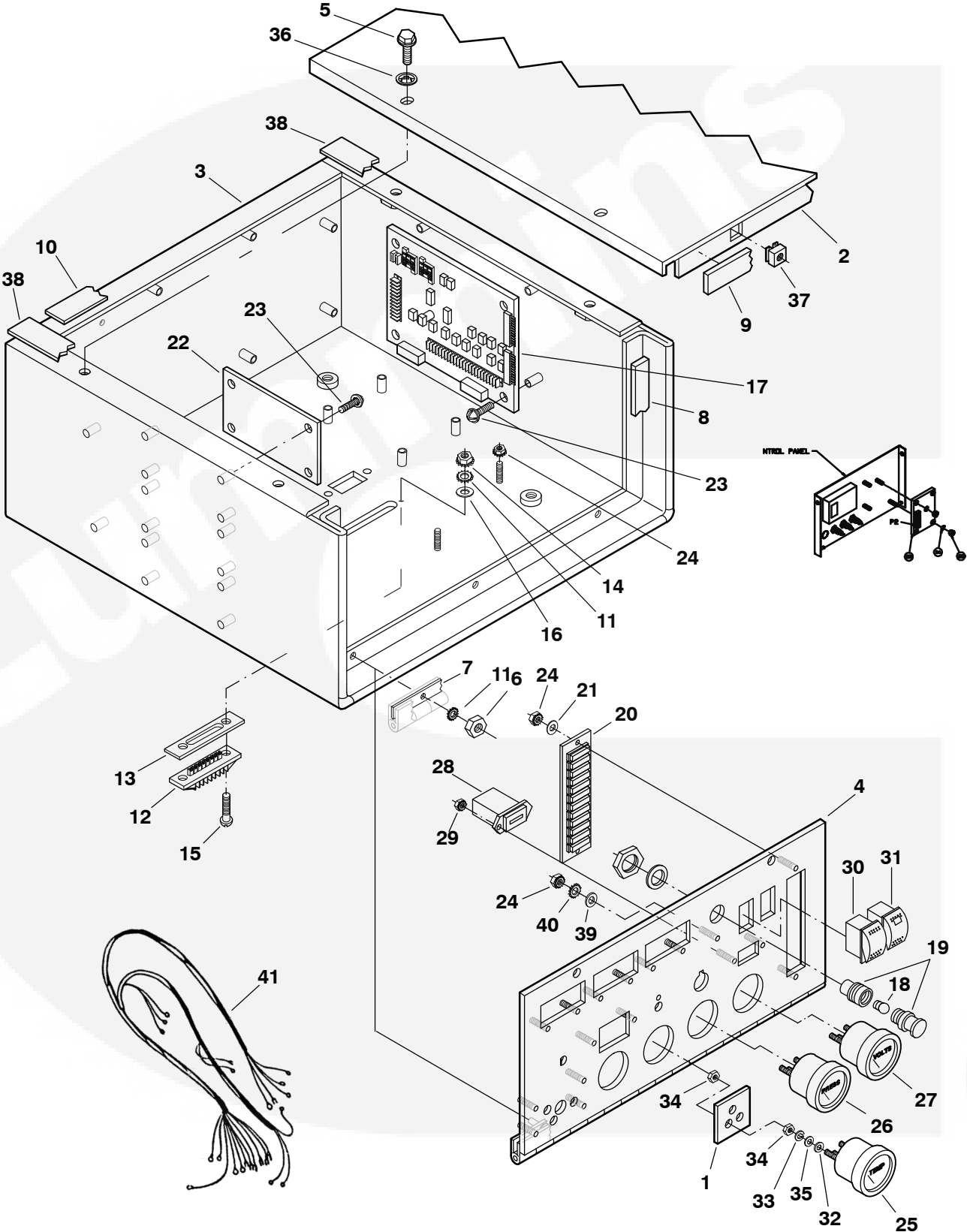
AC Detector Control (Type III) (Begin Spec B)



**AC Detector Control
(Type III)
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3030	1	Box, Control	23	303-0261	1	Potentiometer
2	815-0905-08	1	Screw, Pan Head Cross Recessed (#10-32 x 7/8")	24	355-0189	1	Capacitor, Voltmeter (.1 Mfd., 500 WVDC) (C21)
3	856-0008	2	Washer, EIT Lock (5/16")	25	870-1220	6	Nut, Hex (#4-40)
4	821-0014	8	Screw, Hex Head Cap (5/16-18 x 3/8")	26			Voltmeter, AC (M21)
5	402-0527	4	Isolator, Vibration		302-1148	1	0-300/600
6	337-0049	1	Strap, Ground		302-1753	1	0-0750
7	821-0014	1	Screw, Hex Head Cap (5/16-18 x 1/2")	27			Ammeter, AC (M22)
8	850-0045	4	Washer, Spring Lock (5/16)		302-2033	1	0-15, 0-30
9	406-0332	2	Receptacle, Fastener		302-1473	1	0-50, 0-100
10	871-0015	1	Nut, Hex (1/4-20)	28	302-1968	1	Meter, Frequency (M23)
11	526-0018	1	Washer, Flat (1/4")	29	301-9054-01	1	Door, AC Control
12	508-0051	1	Grommet (Fits 2" Hole)	30	821-0004	3	Screw, Hex Washer Head Self-Locking (#10-32 x 5/16")
13	332-2723	1	Strip, Marker	31	517-0302	1	Grommet (Fits 2-1/2" Hole)
14	815-0901-06	2	Screw, Cross Recessed Thread Forming (#6-32 x 5/8")	32	406-0333	2	Stud, Fastener
15	332-0607	1	Block, Terminal (12 Place) (TB21)	33	406-0334	2	Washer, Stud Retainer
16	338-2278	1	Harness, AC Control Door (Includes Terminal Block) (19 Wire, 26") (TB21, GND to GND, M21,22,23, S21, DS21,22)	34	853-0008	1	Washer, ET Lock (#10)
17	322-0363	1	Light, Upper/Lower Indicator Scale (DS21,22)	35	308-1052	1	Switch, Rotary (Voltmeter/Ammeter (Includes Handle) (S21)
18	305-0844	1	Regulator, Voltage	36	815-0875-02	3	Screw, Round Head Machine (M4 x 8mm)
19	815-0905-08	4	Screw, Cross Recessed (#10-23 x 7/8")	37	308-1082	1	Handle, Rotary Switch
20	332-1043	1	Jumper	38	338-3429	1	Harness, Terminal Block (9 Wire, 11") (Includes Connector Plug and Sockets) (P2 to TB21)
21	350-1222	1	Resistor Assy	39	323-1644-02	1	Plug, Connector (P2)
22	320-1688-01	1	Breaker, Circuit	40	323-1648	9	Socket, Contact
				41	338-3772	1	Harness, AC Aux
				42	323-1647	AR	Pin, Terminal
				43	323-1644-01	1	Housing, Plug

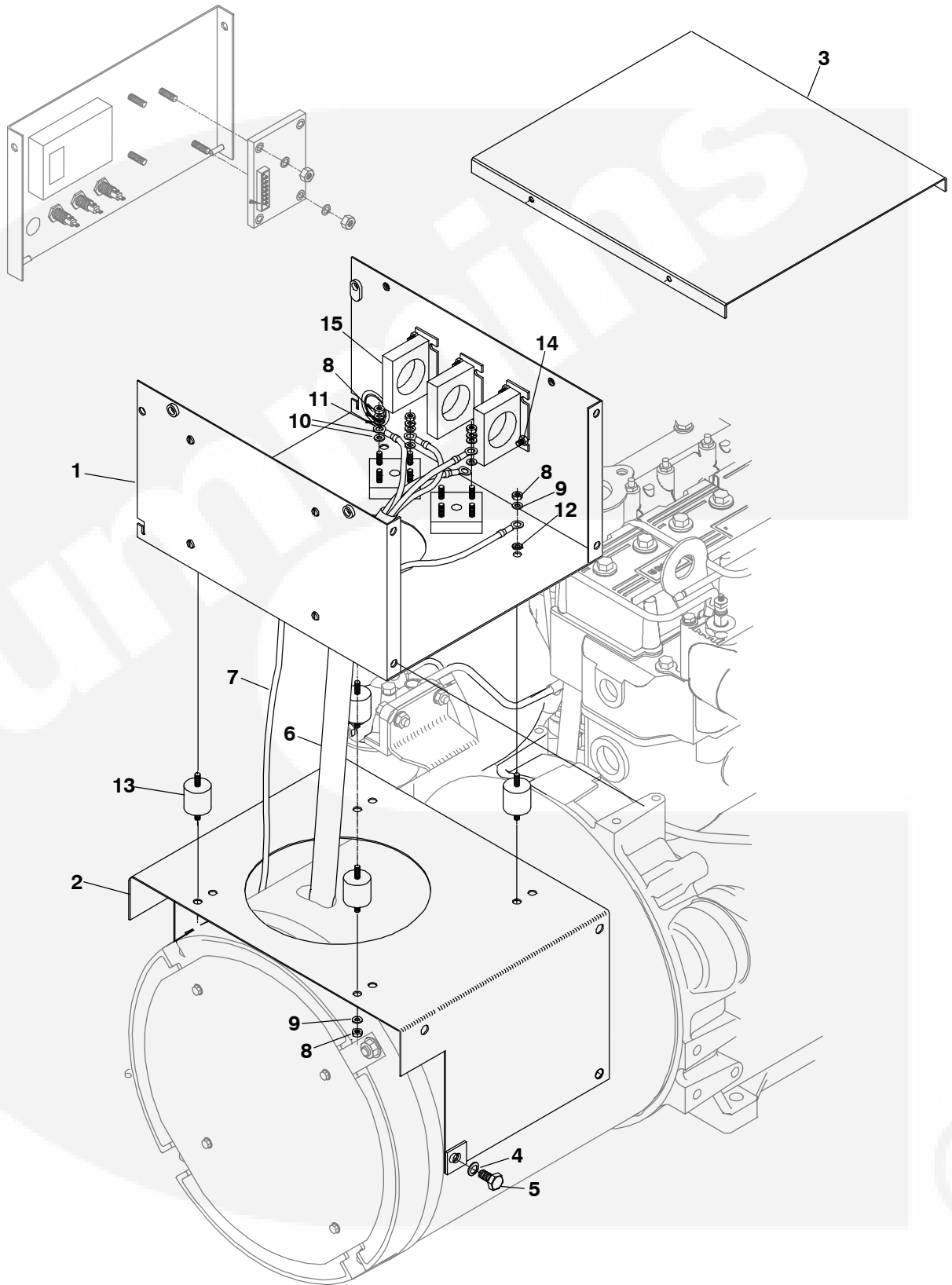
DC Detector Control (Type III) (Spec A)



**DC Detector Control
(Type III)
(Spec A)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	300-4323	1	PCB, Gauge	21	526-0196	2	Washer, Flat (7/32 x 7/16 x 1/8)
2	319-2100-01	1	Cover, Control Box	22	300-2898	1	Board, Time Delay Start/Stop /Preheat (12V)
3	319-2105	1	Box, Control	23	815-0550	8	Screw, IT Round Head Machine Cross Recessed (#6-32 x 3/8")
4	319-2491-03	1	Panel, Control	24	870-0183	4	Nut, ET Hex (#6-32)
5	800-2034-01	6	Bolt, Hex Head Cap (M6 x 1 x 20mm)	25	193-0351	1	Gauge, Water Temperature (M12)
6	860-2006	3	Nut, Hex (M5 x .8)	26	193-0466	1	Gauge, Oil Pressure (M11)
7	895-0337	1	Gasket, Hinge	27	302-1641	1	Meter, Volt (12V) (M13)
8	895-0336	2	Gasket, Side	28	302-0885	1	Meter, Running Time (M14)
9	895-0338	1	Gasket, Top	29	870-1220	4	Nut, ET Hex (#4-40)
10	895-0339	1	Gasket, Cover	30	308-1011	1	Switch, Run/Stop/Remote (S12)
11	853-0008	5	Washer, ET Lock (#10)	31	308-1010	1	Switch, Reset/Lamp Test (S11)
12	332-3239	1	Block, Terminal	32	526-0049	13	Washer, Flat Brass (#10)
13	332-3244	1	Gasket, Terminal Block	33	850-0030	5	Washer, Lock (#10)
14	870-0131	6	Nut, ET Hex (#10-32)	34	871-0010	10	Nut, Hex Brass (#10-32)
15	813-0108	2	Screw, Round Head Machine Slotted (#10-32 x 1.5")	35	526-0409	8	Washer, Nylon
16	526-0008	2	Washer, Flat (#10)	36	526-0422	6	Washer, Nylon Retainer
17	300-4296	1	Board, Engine Monitor (12V, 12 Light)	37	870-2195	2	Nut, Captive Floating
18	322-0004	1	Lamp (12V) (DS11)	38	895-0353	2	Gasket, Cover (Sides)
19	322-0361	1	Light, Panel (DS11)	39	526-0002	1	Washer, Flat (#6)
20	322-0360-01	1	Lamp Assy (12V, 12 Light) (A12) (Includes the Following Indented Lights)	40	853-0005	1	Washer, ET Lock (#8)
	322-0238		Run (Green)	41	186-6365	1	Harness, Engine
	322-0241		Pre Lo Oil Pres (Amber)				
	322-0240		Pre Hi Engine Temp (Amber)				
	322-0108		Lo Oil Pres (Red)				
	322-0109		Hi Engine Temp (Red)				
	322-0111		Overspeed (Red)				
	322-0107		Overcrank (Red)				
	322-0167		Blank (Amber)				
	322-0110		Lo Engine Temp (Amber)				
	322-0113		Lo Fuel (Amber)				
	322-0283		Switch Off (Red)				
	322-0136		Blank (Red)				
	322-0168		Blank (Amber)				

Control (Begin Spec C and DNAF Spec E)



Control (Begin Spec C and DNAF Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Assy. Control (Includes Saddle and Box)	12	853-2005	4	Mount, Control Panel
	184-0231	1	Spec A-B	13	186-6546	6	Screw, Hex Head Cap (M6 x 1.0 x 16mm)
	184-0231	1	Spec C / E (DNAD, DNAE and DNAF)	14	186-6034	6	Screw, Hex Head Cap (M6 x 1.0 x 20mm)
	184-0252	1	Spec C / E (DNAC, DNAD, DNAE and DNAF)	15			Transformer, Current
	184-0259	1	Spec C (DNAD)		184-0332	2	DNAC, DNAD, DNAE and DNAF
2	184-0203	1	Saddle, Control Box		184-0332	3	DNAC, DNAD, DNAE and DNAF
3	184-0205	1	Cover, Control		184-0333	2	DNAC, DNAD, DNAE and DNAF
4	186-6623	4	Washer, Tooth (5/16")				
5	186-6622	4	Screw, Hex Head (M8 x 1.25 x 16mm)				
6	898-1308	1	Sleeve, Insulation				
7	186-6339	1	Cable, Ground				
8	186-6209	20	Nut, Hex (M6)				
9	186-6597	16	Washer, Lock (M6)				
10	186-6974	20	Washer, Flat (M6)				
11	186-6635	1	Washer, Tooth (1/4")				

This exploded view diagram illustrates the assembly of a server chassis, showing two different configurations for front panel and power supply installation. The diagram includes the following components and their assembly points:

- Top Configuration:**
 - Front Panel (12):** A panel with two square cutouts, shown being aligned with the chassis.
 - Power Supply (10):** A rectangular unit shown being inserted into the chassis.
 - Mounting Hardware:** Screws (14, 15, 16, 17, 19, 20, 21, 22, 23, 24) and a cable (13) are shown being attached to the chassis.
 - Internal Components:** A connector (11) and a cable (16) are shown being connected to the chassis.
- Bottom Configuration:**
 - Front Panel (9):** A panel with a single rectangular cutout, shown being aligned with the chassis.
 - Power Supply (18):** A rectangular unit shown being inserted into the chassis.
 - Mounting Hardware:** Screws (14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 26, 30, 31, 32, 34, 35, 36) and a cable (7) are shown being attached to the chassis.
 - Internal Components:** A connector (11) and a cable (16) are shown being connected to the chassis.

The diagram uses numbered callouts to identify each part and its specific location within the chassis assembly.

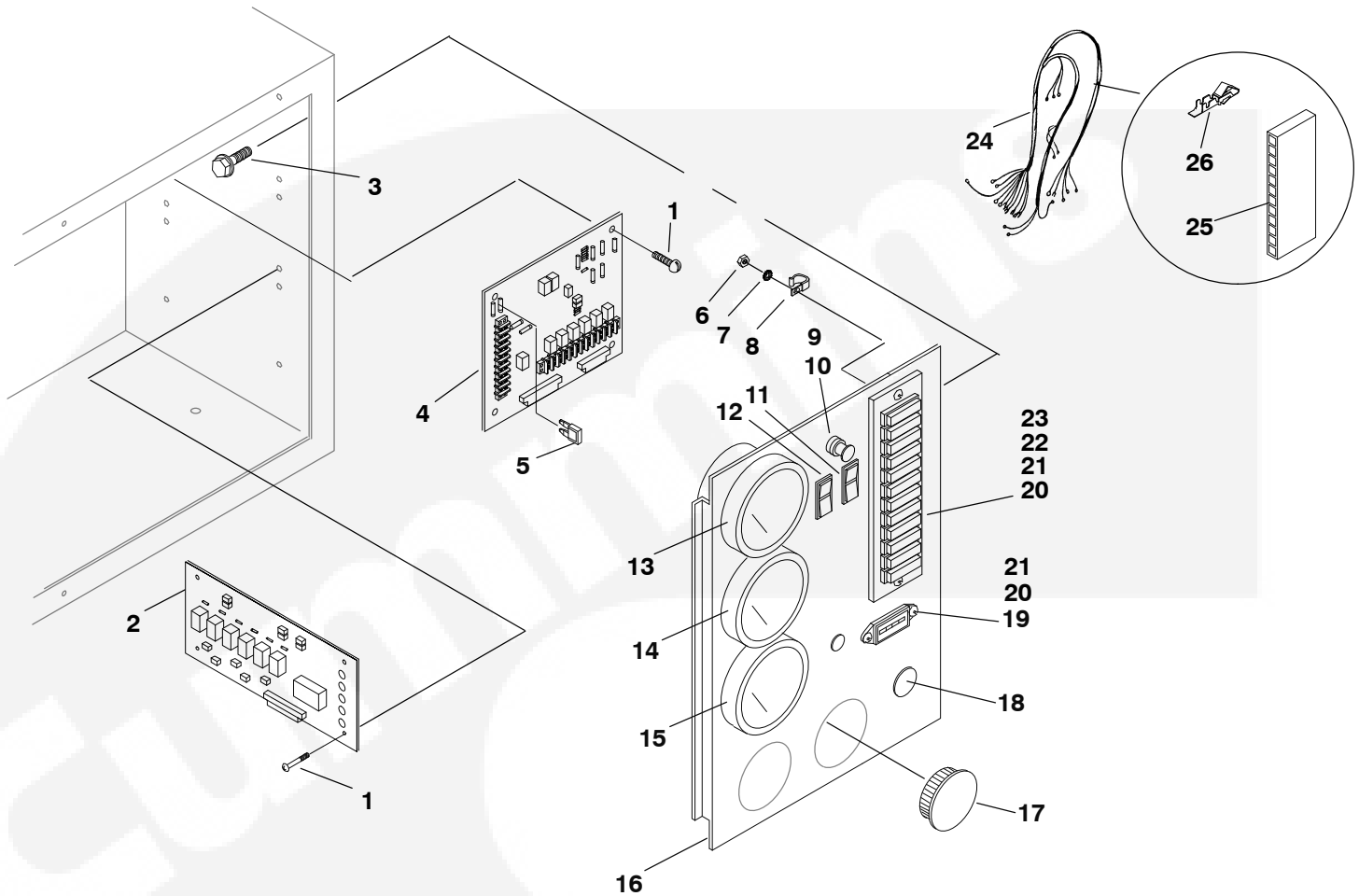
Control Assembly
(Begin Spec C and DNAF Spec E)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	184-0231	1	Assy Panel, Display Control (Includes Parts Marked +)	18	186-6127	4	+*Screw, Hex Head Cap (M5 x 0.8 x 35mm)
	184-0252	1	Assy Panel, Metered Control (Includes Parts Marked *)	19	526-2060	12	+*Washer, Flat (M5)
1			Panel, Control	20	860-2006	8	+*Nut, Hex (M5)
	184-0201	1	+Panel, Control	21	853-2005	2	+*Washer, Star (M5)
	184-0201	1	*Panel, Control	22	327-1513-02	1	+*Board, PCC1301 Control
2	184-0202	1	+*Cover, Control Box	23	184-0329	1	+*Bushing, Rubber
3	517-0138-09	1	+*Plug	24	184-0330	1	+*Bushing, Plastic
4	321-0175	3	+*Fuse, Holder	25	184-0312	1	+*Relay, 12VDC
5	321-0327-07	1	+*Fuse, 20A	26	332-0611	1	+*Block, Terminal (M12)
6	321-0327-06	1	+*Fuse, 15A	27	184-0331	1	+Label, Ground Symbol
7	184-6339	1	+*Cable, Ground	28	184-0307	1	+Label, Information
8	321-0327-05	1	+*Fuse, 10A	29	307-2873	2	Relay, Control (12VDC)
9	300-5875	1	+Control, Display Panel	30	332-2878-02	1	Rail, Terminal
10	308-1092	1	*Switch, Rocker	31	526-2060	2	Washer, Flat
11	302-2002	1	*Hour, Meter	32	860-2006	2	Nut, Hex (M5 x .8mm)
12	98-8339	1	*Label, Information	33	332-2878	2	Bracket, End
13	184-0207	1	+*Harness, Genset	34	327-1507	1	Module, Electronic Governor
14	186-6546	2	+*Screw, Hex Head Cap (M6 x 1.0 x 16)	35	166-0770	2	Nut, Hex (M4 x .7mm)
15	186-6974	2	+*Washer, Flat (M6)	36	850-2004	2	Washer, Spring (M4)
16	184-0328	1	+*Cable, Ground				
17	332-3249	2	+*Blocks, Power Dist.				

+ - Part Included in Assembly 184-0231

* - Part Included in Assembly 184-0252

**DC Detector Control
(Type III)
(Begin Spec B)**

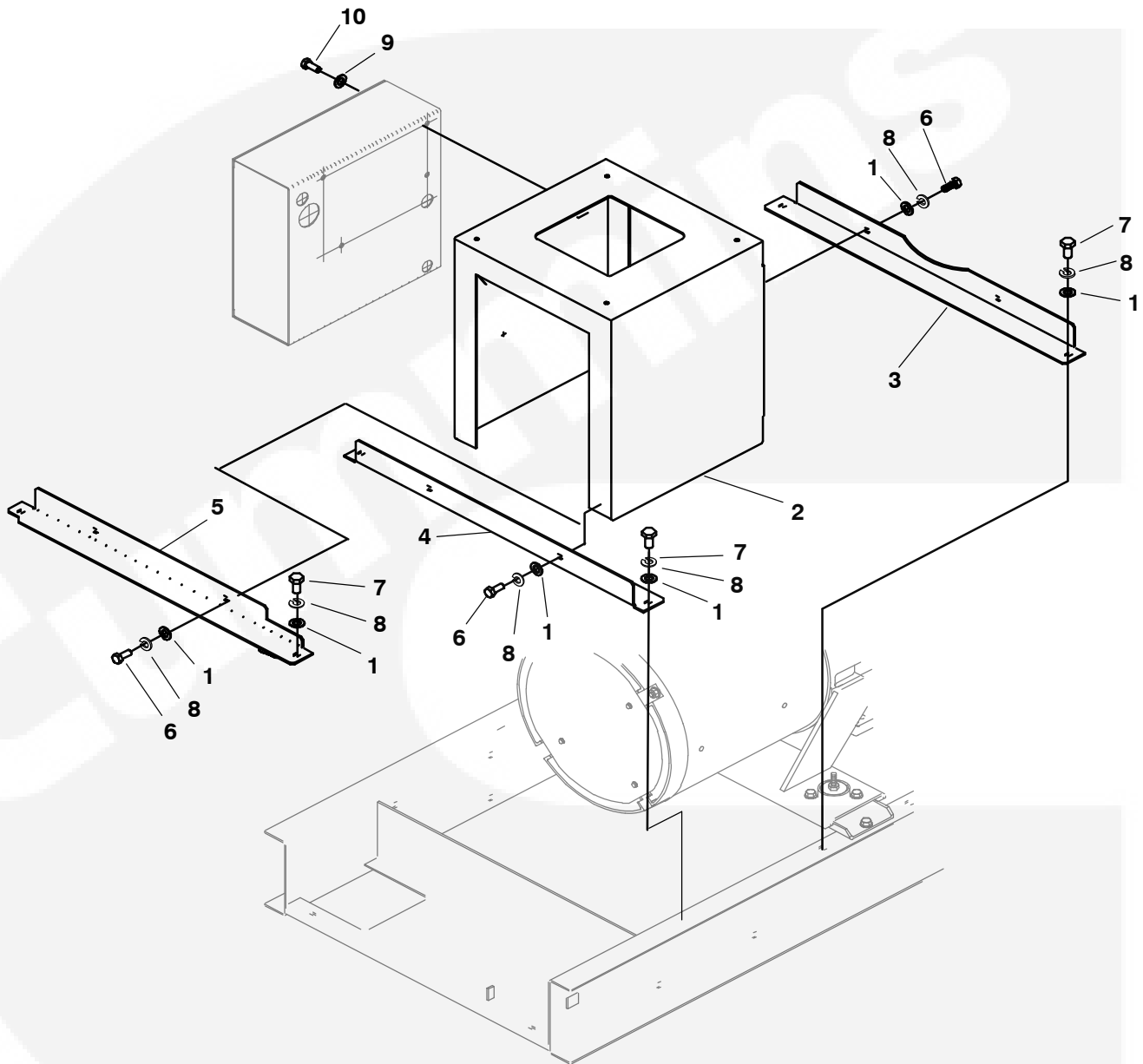


REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0388	8	Screw, Pan Head Cross Recessed (#6-32 x 1/2")	14	193-0351	1	Gauge, Water Temperature (M12)
2	300-5098-01	1	Board, PC Sensor Board (A27)	15	302-1641	1	Meter, Voltage (M13)
3	821-0004	3	Screw, Hex Washer Head Self-Locking (#10-32 x 5/16")	16	301-9055-01	1	Door, DC Control
4	300-4296	1	Board Assy, PC Engine Monitor (Includes Fuses) (A11)	17	517-0301	1	Plug, Hole (Fits 2" Hole)
5			Fuse	18	517-0131	1	Plug, Hole (Fits 7/8" Hole)
	321-0307-03	2	5 Amp (Tan) (F4, F5)	19	302-2002	1	Meter, Hour (M14)
	321-0307-06	1	15 Amp (Light Blue) (F3)	20	870-0183	4	Nut, ET Hex (#6-32)
	321-0307-07	2	20 Amp (Yellow) (F1, F2)	21	815-0385	4	Screw, Round Head Machine (#6-32 x 1/2")
6	870-0131	1	Nut, ET Hex (#10-32)	22	322-0360-01	1	Light Assy, Indicator (Includes Wiring Harness and Connector Housing) (A12)
7	853-0008	1	Washer, ET Lock (#10)	23	322-0369-01	1	Light, Replacement Indicator
8	332-0052	2	Clip, Wire	24	338-3252	1	Harness, DC Control Door (Includes Connector Housing and Contact Pins) (22 Wire, 32") (A11J4 to GND, M11,12,13,14, S11,12, DS11)
9	322-0004	1	Bulb, Panel Replacement Light	25	323-1308	1	Housing, Connector (J4)
10	322-0361	1	Light, Panel (DS11)	26	323-1302	11	Pin, Contact
11	308-1010	1	Switch, Rocker (Lamp Test/Reset Panel Lamp) (S11)				
12	308-1011	1	Switch, Rocker (Run/Stop/Remote) (S12)				
13	193-0466	1	Gauge, Oil Pressure (M11)				

This diagram illustrates the exploded view of a cable assembly, showing the following components:

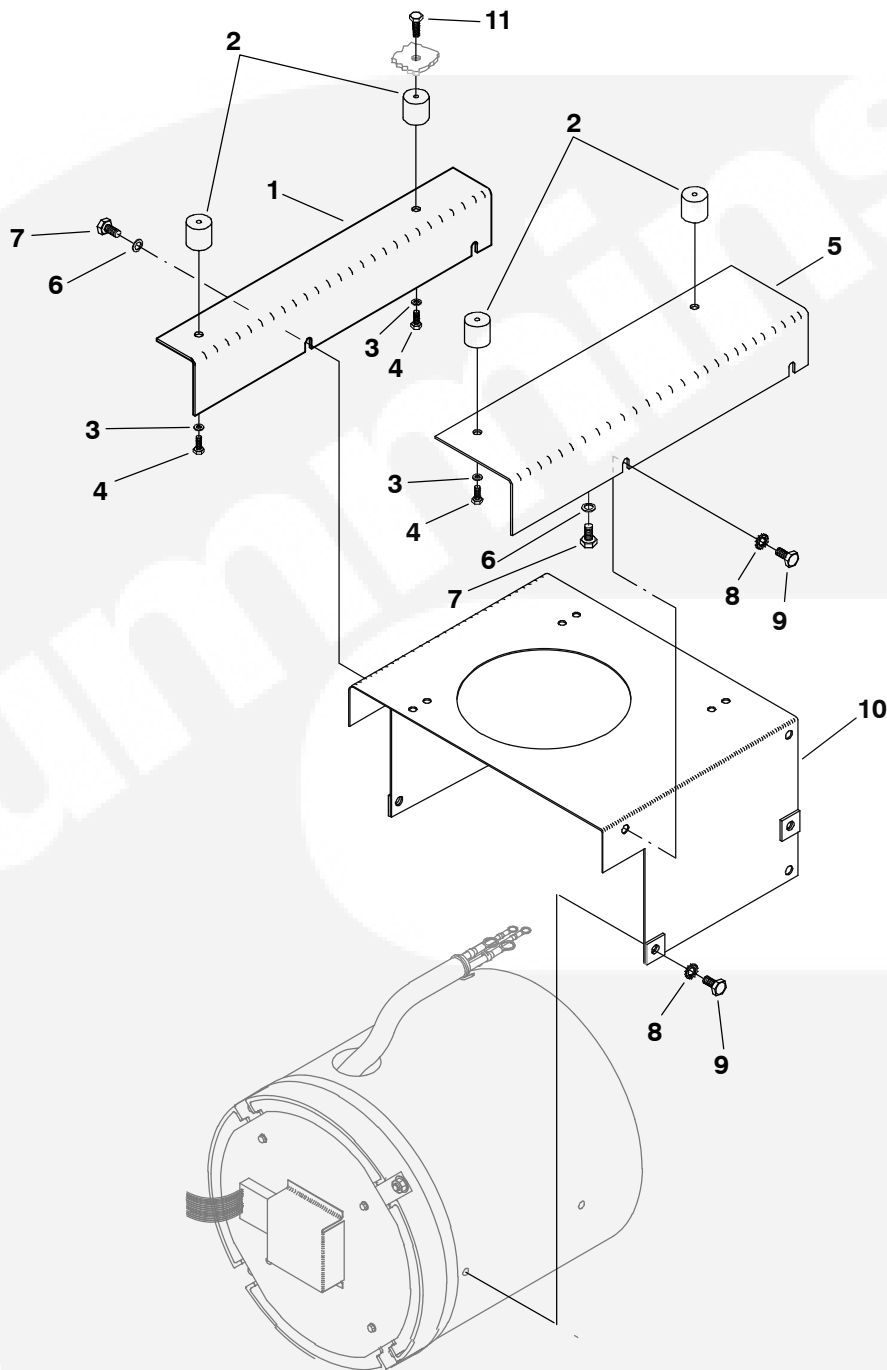
- 1**: The main cable with multiple conductors.
- 2**: A long, narrow rectangular component, likely a filter or inductor.
- 3**: A cylindrical component with a threaded end, possibly a connector or plug.
- 4**: A cylindrical component with a cross-shaped feature, likely a connector or plug.
- 5**: Two small L-shaped components, likely spacers or mounting brackets.
- 6**: A small rectangular component with two circular features, likely a connector or plug.
- 7**: A small rectangular component with two circular features, likely a connector or plug.
- 8**: A component with multiple rectangular features, likely a connector or plug.
- 9**: A square component with a mounting tab, likely a transformer or inductor.
- 10**: A long, thin cylindrical component, likely a pin or screw.
- 11**: A small rectangular component with two circular features, likely a connector or plug.
- 12**: A small rectangular component with two circular features, likely a connector or plug.
- 13**: A small cylindrical component, likely a pin or screw.
- 14**: A small L-shaped component, likely a spacer or mounting bracket.
- 15**: A component with multiple rectangular features, likely a connector or plug.
- 16**: A component with multiple rectangular features, likely a connector or plug.
- 17**: Two small rectangular components with two circular features, likely connectors or plugs.

**Detector Control Mount
(Type III)
(Spec A)
DNAC, DNAD, DNAE**



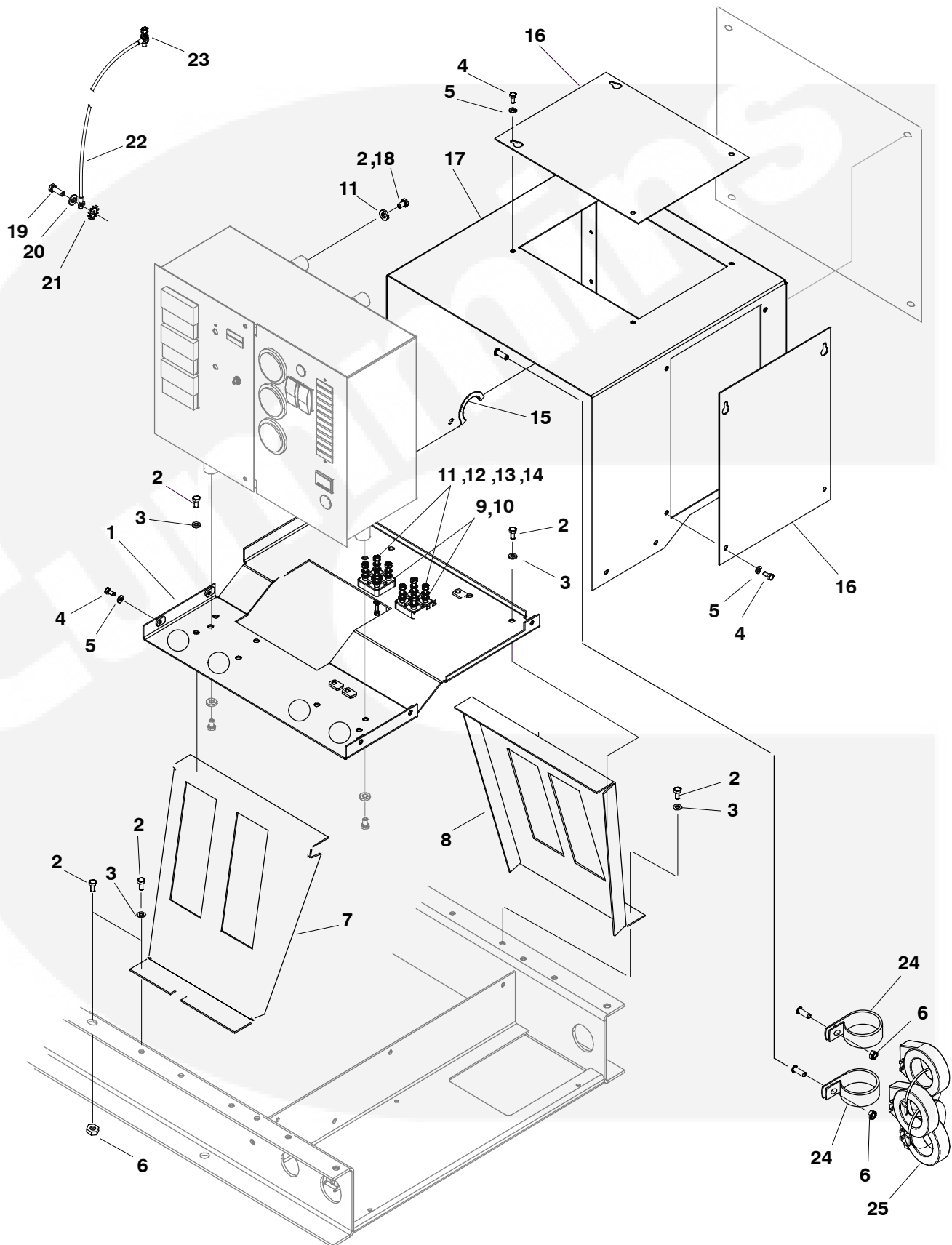
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6975	8	Washer, Flat (M8)	6	186-6668	4	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
2	186-6878	1	Saddle, Detector Box Mounting	7	186-6064	4	Screw, Hex Head Cap (M8 x 1.25 x 20mm)
3	186-6871	1	Rail, Front Detector Box Support	8	186-6529	8	Washer, Spring (M8)
4	186-6872	1	Rail, Rear Detector Box Support (Use W/Single Wall Fuel Tank)	9	186-6623	4	Washer, EIT (5/16")
5	186-6879	1	Rail, Rear Detector Box Support (Use W/Dual Wall Fuel Tank)	10	186-6622	4	Screw (M8 x 1.25 x 16mm)

**Detector Control Mount
(Type III)
(DNAE, DNAF)
(Spec A)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	186-6342	1	Rail, Left Side Mount	7	186-6668	5	Screw, Hex Head Cap (M8 x 1.25 x 16mm)
2	402-0719	4	Mount, Vibration	8	186-6623	4	Washer, EIT (5/16")
3	186-6617	4	Washer, Spring (M6)	9	186-6622	4	Screw (M8 x 1.25 x 16mm)
4	186-6664	4	Screw, Hex Head Cap (1/4-20 x 1/2)	10	186-6352	1	Saddle
5	186-6343	1	Rail, Right Side Mount	11	800-0005	4	Screw, Hex Head Cap (1/4-20 x 3/4")
6	186-6618	5	Washer, Spring (M8)				

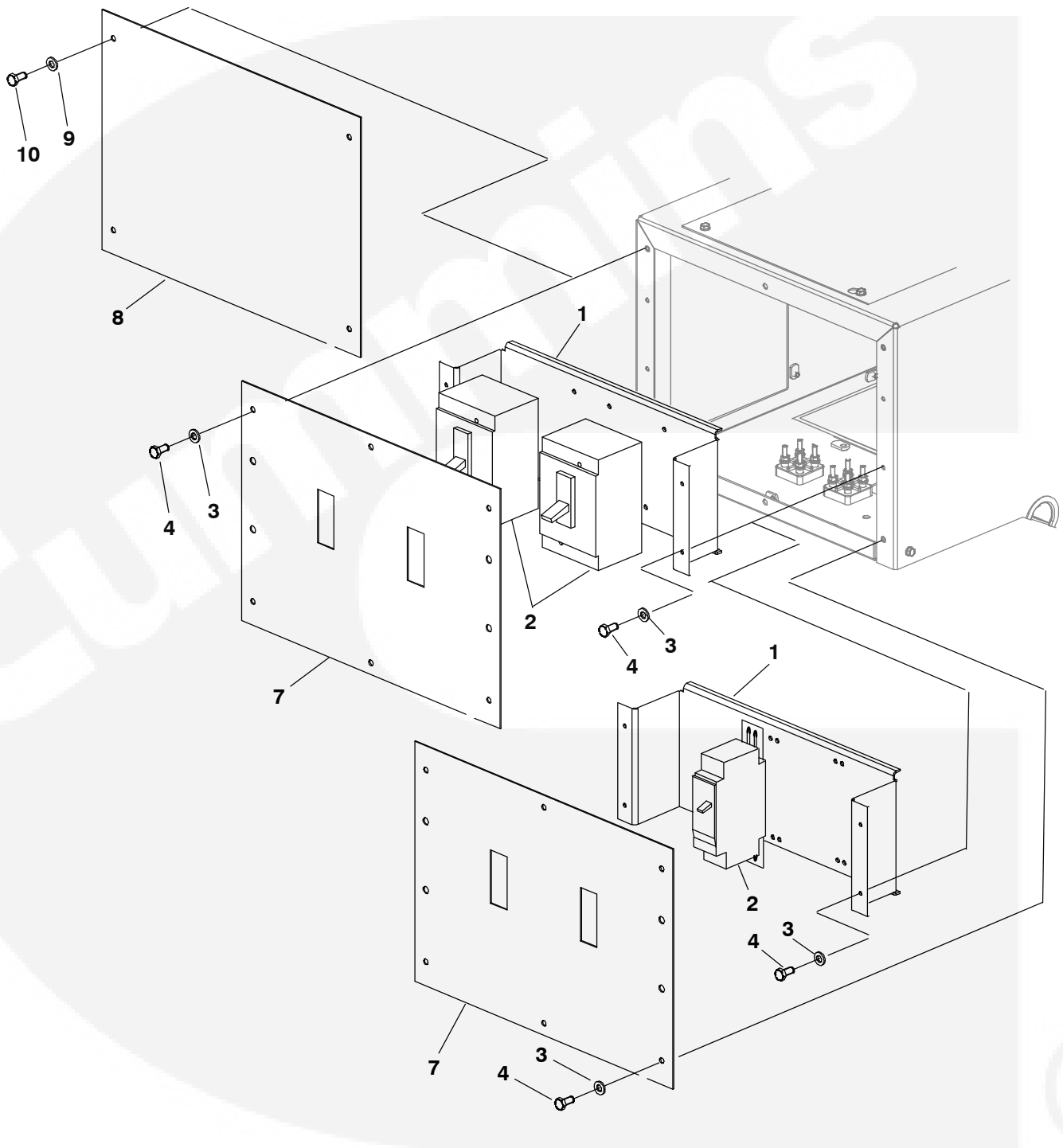
**Detector Control Mount
(Type III)
(Begin Spec B)**



**Detector Control Mount
(Type III)
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3613	1	Bottom, Control Box	13	186-7076	2	Washer, Flat (M5)
2	186-6064	8	Screw, Hex Head Cap (M8 x 1.25 x 20mm)	14	800-2004	2	Screw, Hex Head Cap Thread Cutting (M5 x .8 x 1mm)
3	186-6975	8	Washer, Flat (M8) (Rear Mounted Brackets)	15	186-7077	1	Edging (3")
4	186-6037	14	Screw, Hex Head Cap (M6 x 1 x 12mm)	16	319-3316	2	Cover, Control Housing
5	186-6974	14	Washer, Flat (M6)	17	319-3612	1	Top, Control Box Housing
6			Nut, Hex (M8 x 1.25)	18	800-0024	4	Screw, Hex Head Cap (5/16-18 NC x 1/2")
	186-6274	2	For Rear Mounted Brackets	19	186-7075	1	Screw, Hex Head Thread Cutting (5/16-18 x 1/2")
	186-6274	4	For Front and Middle Mounted Brackets	20	186-7086	2	Washer, Flat (3/8")
7	186-7113	1	Bracket, Control Saddle	21	862-0003	2	Nut, Hex (3/8-16)
8	186-7114	1	Bracket, Control Saddle	22	186-6339	1	Cable, Ground
9	186-6597	9	Washer, Spring Lock (M6)	23	862-0001	1	Nut, Hex (1/4-20)
10	186-6209	9	Nut, Hex (M6)	24	186-7080	2	Clamp, Tubing (1-1/4")
11	186-6187	21	Washer, Flat (5/16")	25			Transformer
12	332-3249	2	Block, Terminal		302-2034-02	3	W/50-100A Ammeter
					302-2034-03	3	W/15-30A Ammeter

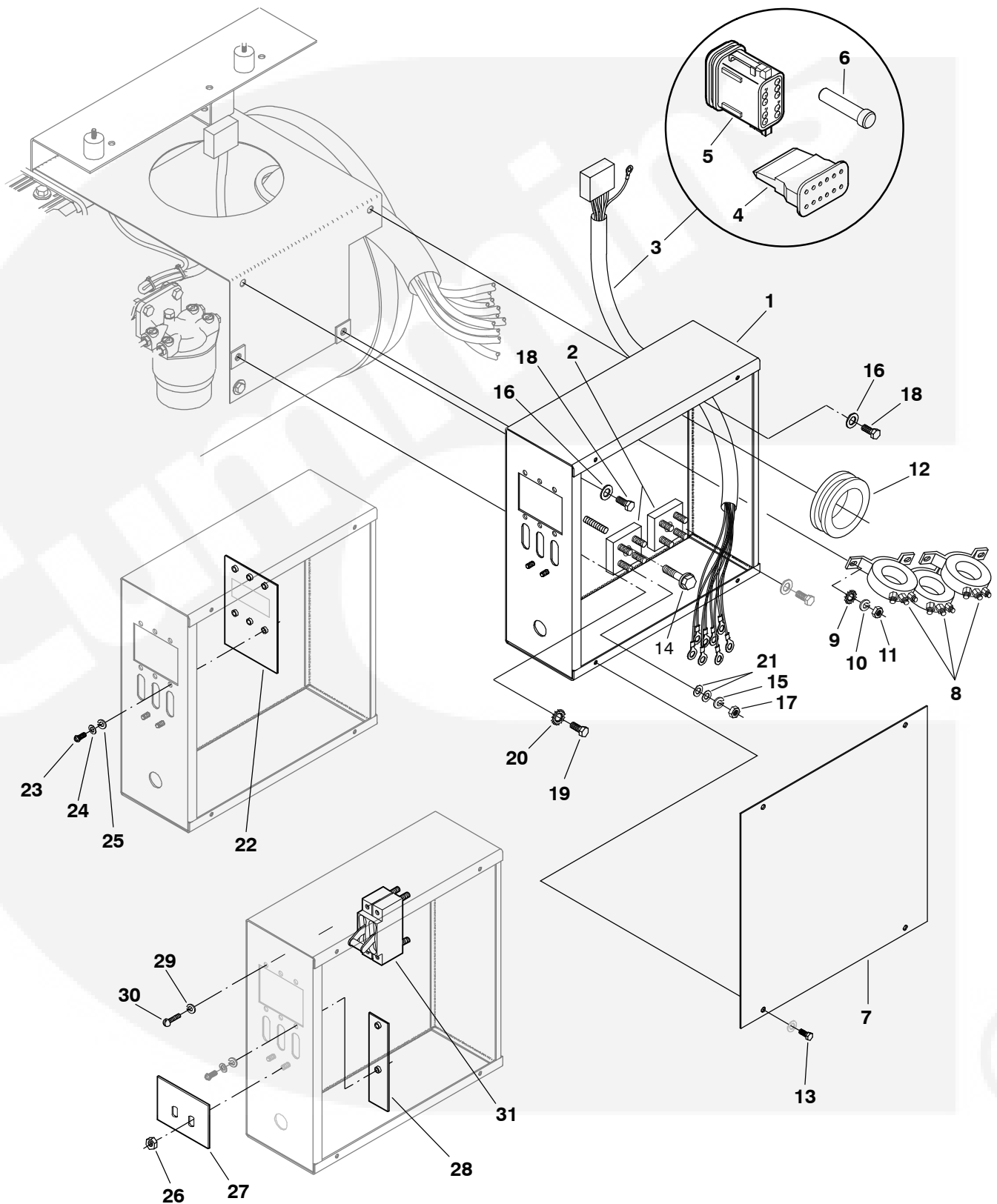
**Detector Control
Circuit Breaker
(Begin Spec B)**



**Detector Control
Circuit Breaker
(Begin Spec B)**

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bracket, Mounting	3	186-6974	10	Washer, Flat (M6)
	319-4135	1	2 Pole CB	4	186-6037	10	Screw, Hex Head Cap (M6 x 1.0 x 12mm)
			3 Pole CB				Nylock (M4 x 0.7)
	319-3825	1	480V Sets	5			Single CB
	319-3643-02	1	600V Sets		186-6831	4	Dual CB
2			Breaker, Circuit		186-6831	8	Screw, Hex Head Cap (M4 x 0.7 x 10mm)
			2 Pole, 240V	6			Single CB
	320-2005-11	1	10A		186-7079	4	Dual CB
	320-2005-10	1	15A		186-7079	8	Panel, CB
	320-2005-09	1	20A				W/Circuit Breaker
	320-2005-08	1	25A	7			2 Pole
	320-2005-07	1	30A		319-3826	1	Single CB
	320-2005-06	1	35A		319-3827	1	Dual CB
	320-2005-05	1	40A				3 Pole CB
	320-2005-04	1	45A				480V Sets
	320-2005-03	1	50A		319-3826	1	Single CB
	320-2005-02	1	60A		319-3827	1	Dual CB
	320-2005-01	1	70A				600V Sets
	320-2006-04	1	80A		319-3640-02	1	Single CB
	320-2006-03	1	90A		319-3641	1	Dual CB
	320-2006-02	1	100A		319-3611	1	Cover, Control Housing (W/O Circuit Breaker)
			3 Pole	8			Washer, Flat (M6)
			480V	10	186-6973	4	Screw, Hex Head Cap (M6 x 1 x 12mm)
	320-2009-11	1	15A				
	320-2009-10	1	20A				
	320-2009-09	1	30A				
	320-2009-08	1	40A				
	320-2009-06	1	50A				
	320-2009-05	1	60A				
	320-2009-04	1	70A				
	320-2009-03	1	80A				
			600V				
	320-1959-22	1	15A				
	320-1959-21	1	20A				
	320-1959-20	1	30A				

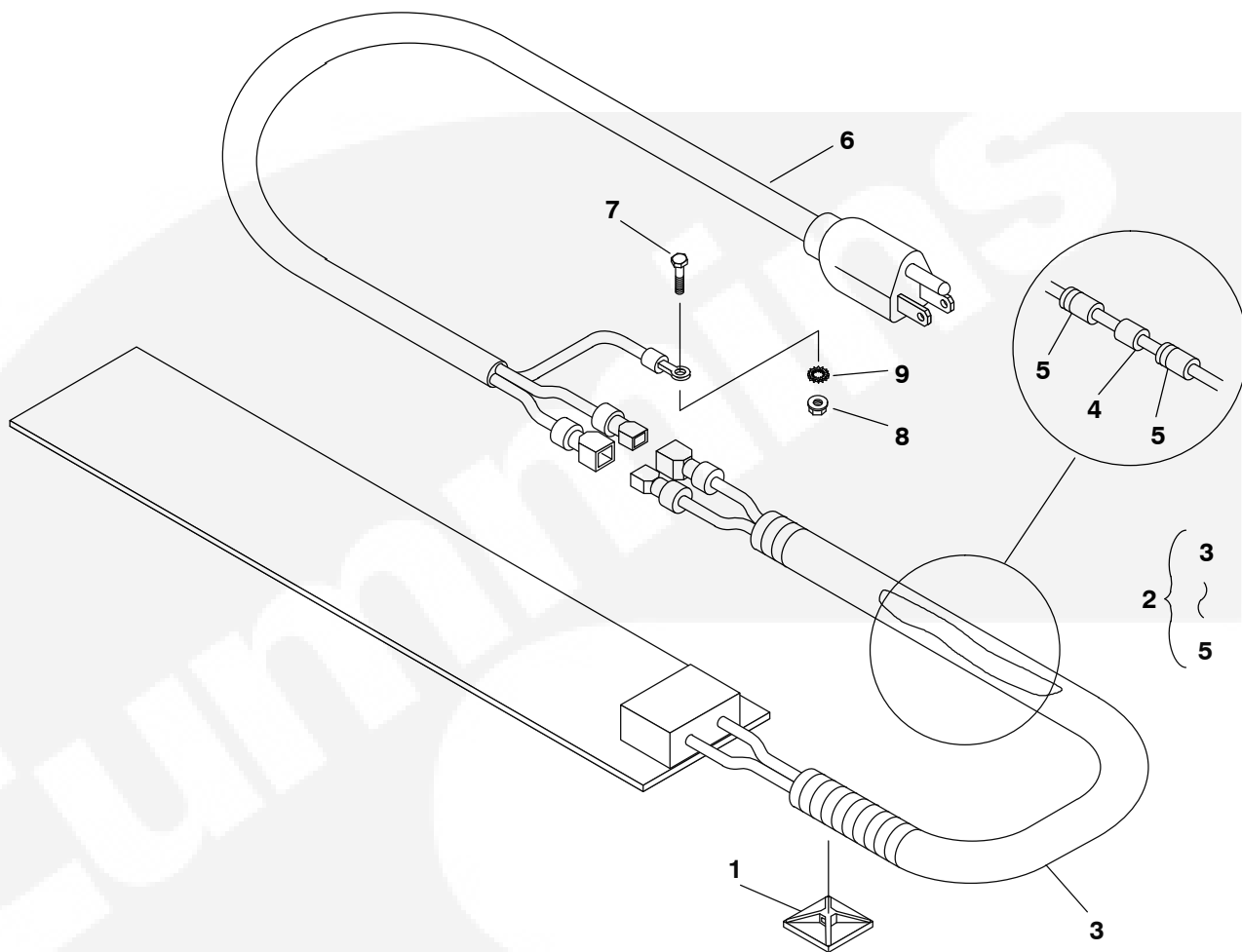
Output Box Detector Control (Type III)



**Output Box
Detector Control
(Type III)**

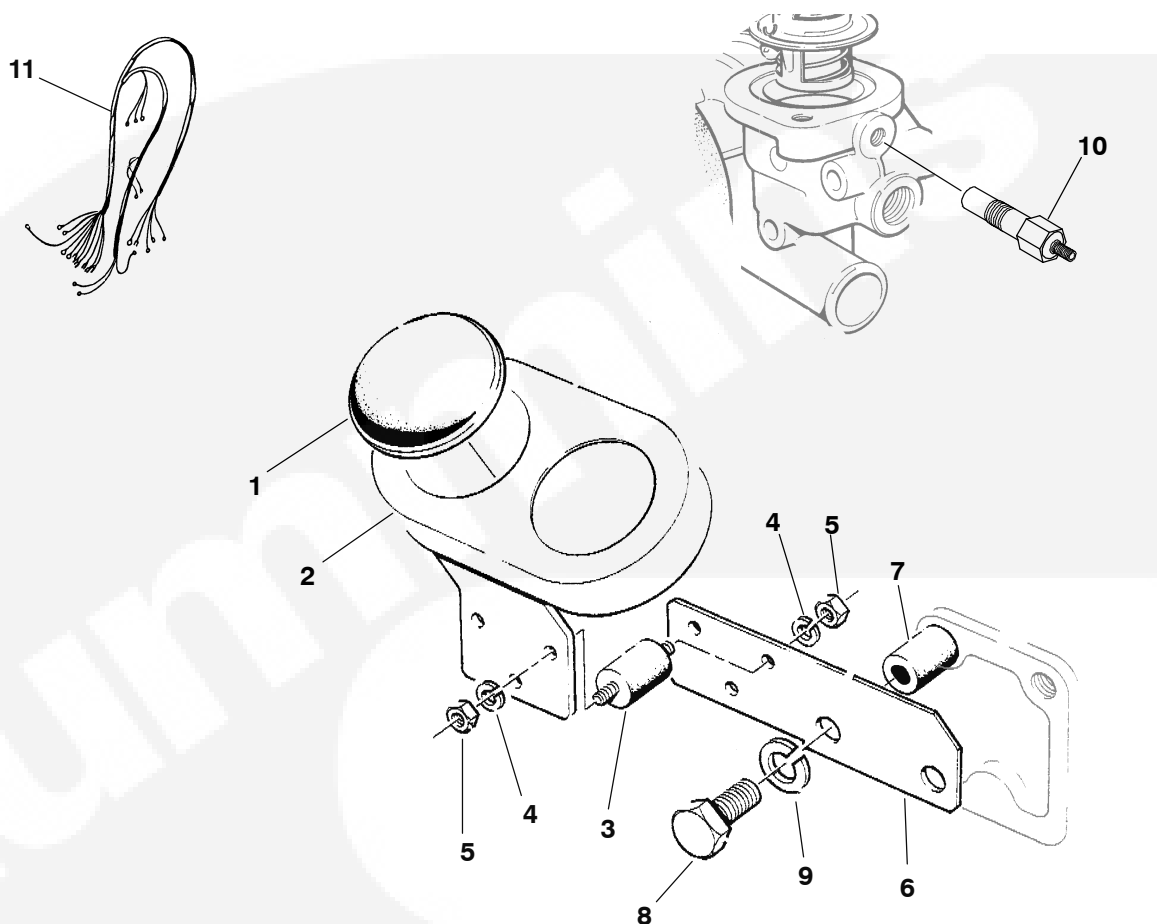
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	319-3102	1	Panel, Control Box Side	31			Breaker, Circuit
2	332-3249	2	Block, AC Terminal				2 Pole
3	338-2990	1	Harness, AC Generator (Includes Wedge and Plugs)	320-1841-02	1		15A
4	323-1583	1	Wedge, Plug (12 Pin)	320-1841-03	1		20A
5	323-1582-02	1	Plug (12 Pin)	320-1841-04	1		25A
6	323-1591	11	Plug, Connector	320-1841-05	1		30A
7	319-3131	1	Cover, Control Box	320-1841-06	1		35A
8	302-1984-03	3	Transformer, Current	320-1841-07	1		40A
9	856-0006	1	Washer, EIT Lock	320-1841-08	1		45A
10	850-2056	6	Washer, Spring Lock	320-1841-09	1		50A
11	860-2057	6	Nut, Hex	320-1841-10	1		55A
12	508-1057	1	Grommet	320-1841-11	1		60A
13	821-6002-03	4	Screw, Hex Head (M6 x 0.8)	320-1841-12	1		65A
14	821-2023	2	Screw, Lock Flange	320-1841-13	1		70A
15	186-6597	8	Washer, Lock (M6)	320-1841-14	1		75A
16	186-6618	2	Washer, Spring (M8)	320-1841-15	1		80A
17	186-6209	8	Nut, Hex (M6 x 1)	320-1841-16	1		85A
18	186-6668	2	Screw, Hex Head Cap (M8 x 1.25 x 16mm)	320-1841-17	1		90A
19	186-6622	1	Screw, Hex Head Cap (M8 x 1.25 x 16)	320-1841-18	1		95A
20	186-6623	1	Washer, EIT (5/16")	320-1841-19	1		100A
21	186-6591	16	Washer, Flat (M6)	320-1827-02	1		3 Pole
Without Circuit Breaker, Use:				320-1827-03	1		15A
22	319-2184	1	Plate, Cover	320-1827-04	1		20A
23	186-6488	6	Screw (#6-32 x 3/8")	320-1827-05	1		25A
24	186-6663	6	Washer, Flat (#6)	320-1827-06	1		30A
25	186-6428	6	Washer, Lock (#6)	320-1827-07	1		35A
With Circuit Breaker, Use:				320-1827-08	1		40A
26	186-6913	2	Nut, Lock (M6 x 1)	320-1827-09	1		45A
27	186-6386	1	Cover, CB	320-1827-10	1		50A
28	319-2185	1	Plate, CB Cover (Use With 2 Pole CB Only)	320-1827-11	1		55A
29	186-6428	6	Washer, Lock (#6)	320-1827-12	1		60A
30	186-6488	6	Screw (#6-32 x 3/8")	320-1827-13	1		65A
				320-1827-14	1		70A
				320-1827-15	1		75A
				320-1827-16	1		80A
				320-1851-01	1		85A
				320-1851-02	1		10A
				320-1851-03	1		15A
				320-1851-04	1		20A
				320-1851-05	1		25A
							30A

Control Heater



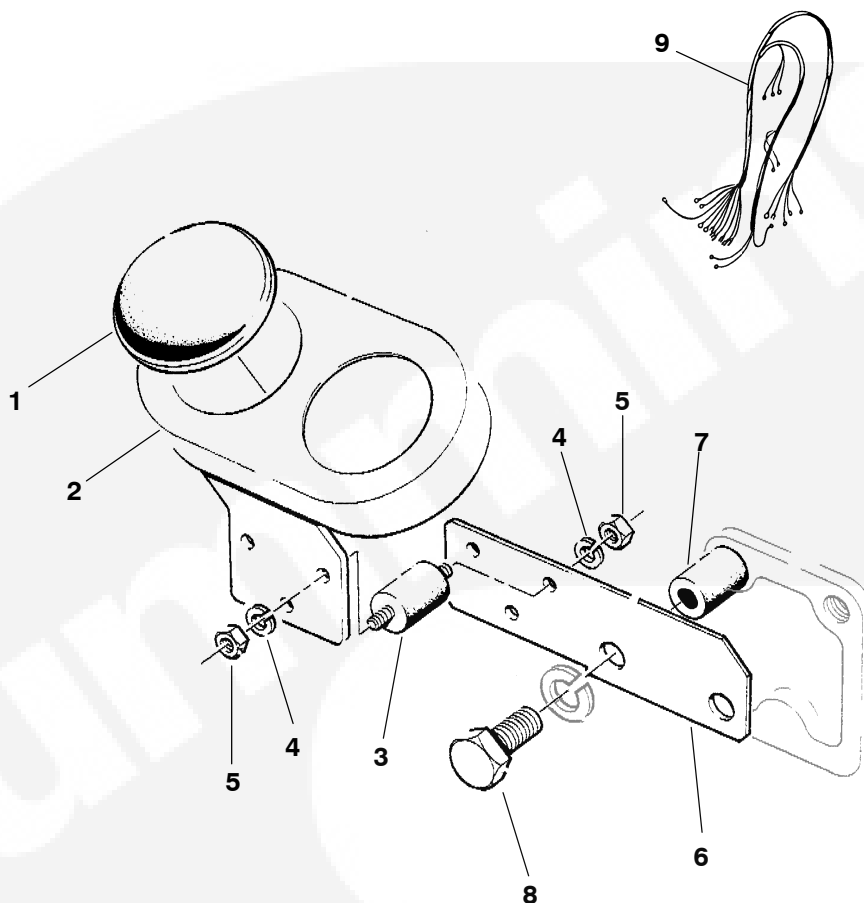
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-4438	1	Kit, Control Heater 120V (Includes Parts Marked *)	6	335-0173	1	Cable, Control Heater * 120V
			240V		335-0173-01	1	# 240V
	300-4439-00	1	W/O Cord (Includes Parts Marked +)	7	800-0024	1	**Screw, Hex Head Cap (5/16-18 x 3/4)
	300-4439-01	1	W/Cord (Includes Parts Marked + and #)	8	870-0257	1	**Nut, Self Locking Hex (5/16-18)
1	332-3338	2	+*Mount, Cable Tie	9	856-0008	2	**Washer, Lock EIT (5/16)
2			Heater Assy, Control (Includes Heater, Rectifier and Splice)	* – Parts Included in 120V Control Heater Kit.			
	300-4515-01	1	* 120V	+ – Parts Included in 240V Control Heater Kits W/ and W/O Cord.			
	300-4515-02	1	+ 240V	# – Parts Included in 240V Control Heater Kit W/Cord.			
3			Heater, Control (120V)	32	186-7042	6	Washer, Spring
	333-0550-01	1	120V	33	186-7043	6	Nut
	333-0550-02	1	240V	34	186-7047	1	Bracket, Mounting
4	357-0114	1	Rectifier, Power	35	186-7035	1	Harness, Wiring
5	332-1789	2	Splice, Window (18 Gauge)	36	186-7033	2	Spacer
				37	186-7046	2	Screw, Hex Head Cap

**Gauge Panel
Manual (Type I)
Remote (Type II)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0475	1	Kit, Temperature/Voltmeter	5	186-7206	6	Nut
1			Meter/Gauge	6	186-7047	1	Bracket, Mounting
	186-7029	1	Gauge, Temperature	7	186-7033	2	Spacer
	186-7034	1	Meter, Volt	8	800-2070	2	Screw, Hex Head Cap
2	186-7048	1	Panel, Double Gauge	9	186-6671	2	Washer, Spring (M10)
3	186-7060	3	Mount, Flexible	10	186-7032	1	Sender, Temperature
4	186-7042	6	Washer, Spring	11	186-7035	1	Harness, Wiring

**Gauge Panel
Manual (Type I)
Remote (Type II)
DNAD, DNAE, DNAF**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	193-0476	1	Kit, Running Time Meter (Includes Parts Marked *)	4	186-7042	6	Washer, Spring
1			Meter/Plug	5	186-7043	6	Nut
	186-7049	1	Plug	6	186-7047	1	Bracket, Mounting
	186-7031	1	Meter, Running Time	7	186-7033	2	Spacer
2	186-7048	1	Panel, Double Gauge	8	186-7046	2	Screw, Hex Head Cap
3	186-7044	3	Mount, Flexible	9	186-7035	1	Harness, Wiring

Gasket Sets

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			+ Set, Decarbonizing Gasket (Includes Parts Marked *)				Set, Overhaul Gasket (Includes all listed in Decarbonizing Set Plus Parts Marked +)
186-6211	1		DNAC	186-6213	1		DNAC
186-6485	1		DNAD	186-6487	1		DNAD
186-6210	1		DNAE	186-6212	1		DNAE
186-6726	1		DNAF	186-6727	1		DNAF
			*Gasket, Cylinder Head Cover				
186-6117	2		DNAC	-			#+ Gasket, End Cover (Cork)
186-6117	3		DNAD	186-6147			+ Gasket, End Cover (Paper)
186-6117	4		DNAE, DNAF				+ Gasket, Crankcase Door
			*O'Ring, Cylinder Head Cover	186-6010	1		DNAC
186-6028	4		DNAC	186-6405	1		DNAD
186-6028	6		DNAD	186-6012	1		DNAE, DNAF
186-6028	8		DNAE, DNAF	186-6017	1		+ Gasket, Fuel Lift Pump
			*Gasket, Inlet Manifold				+ Shims, Main Bearing Housing
186-6202	2		DNAC	186-6065	1		.38mm
186-6202	3		DNAD	186-6066	1		.50mm
186-6202	4		DNAE, DNAF	186-6129	2		+ O'Ring, Speed Control
			*Gasket, Exhaust Manifold	186-6131	1		+ Washer, Speed Control (M5)
186-6206	2		DNAC	186-6163	6		+ Washers, Fuel Filter (Not Used on DNAF)
186-6206	3		DNAD				+ Seal, Oil
186-6206	4		DNAE				
186-6773	4		DNAF	186-6063	1		Flywheel End
			*Rubber, Bottom Sealing Tube	186-6148	1		Gear End
186-6100	4		DNAC				
186-6100	6		DNAD				
186-6100	8		DNAE, DNAF				
			*Rubber, Top Sealing Tube				
186-6102	4		DNAC				
186-6102	6		DNAD				
186-6102	8		DNAE, DNAF				
			*Washer, Sealing Tube Rubber				
186-6101	4		DNAC				
186-6101	6		DNAD				
186-6101	8		DNAE, DNAF				
			*Washer, Injector (No Hole in Center)				
186-6173	2		DNAC				
186-6173	3		DNAD				
186-6173	4		DNAE, DNAF				
-	-		##Washer, Injector (Hole in Center)				
-	-		##Seal, Valve Stem				
			*Seal, Valve Stem				
186-6257	4		DNAC				
186-6257	8		DNAE, DNAF				
186-6180	1		*Gasket, Water Pump				
186-6184	2		*O'Ring, Water Pump				
186-6182	1		*Gasket, Water Pump Mounting Plate				
186-6190	1		*Gasket, Thermostat Housing				
186-6494	1		*Gasket, Outlet (DNAF)				
186-6769	1		*Gasket, Flange (DNAF)				

- Discard. Not Used on DN Series.

* - Parts Included in Decarbonizing Gasket Set.

+ - Parts Included in Overhaul Gasket Set

Labels

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
98-6727	1	1	Label, CT				Label, Reconnection Diagram
98-6195	1	1	Label, Caution	98-7356	1	1	Spec A
			Label, Control Panel (Start/Run/Off)				Begin Spec B
186-6308	1	1	Manual	98-7356	1	1	Manual/Remote Control
186-6309	1	1	Remote	98-7356-01	1	1	Detector Control
98-5347	4	4	Label, Danger (Hazardous Voltage)	98-6729	1	1	Label, Relay Panel
98-6725	1	1	Label, Door Back	98-7364	1	1	Label, Sealed Battery
98-6726	1	1	Label, Door Front	98-7548	1	1	Label, Switch
98-6724	2	2	Label, Floor	98-2304	1	1	Label, Warning (Voltage)
98-7553	1	1	Label, Hourmeter	98-4732	1	1	Label, Warning (Automatic Start)
98-6723	1	1	Label, Left Wall	98-4798-01	1	1	Label, Warning (Rotating Parts)
98-6139-08	2	2	Label, Logo	98-5759	1	1	Label, Warning (Backfeed Utility)
98-6304	1	1	Label, Loose Leads				Label, Warning (Skid Lift)
			Label, On/Off/Start Switch	98-5822-01	1	1	DNAC, DNAD
186-6302	1	1	Manual	98-5822-01	2	2	DNAE, DNAF
186-6309	1	1	Remote	98-6074-02	1	1	Label, Warning (Operation, Maintenance, Service Risk)
98-7554	1	1	Label, Phase Selection	98-7367	1	1	Label, Water/Oil/Ground Drain-Made In England
98-6846	1	1	Label, Plug	98-5387	2	2	Label, Voltage Disconnect
				98-3171	1	1	Label, Fuel Out
				98-3172	1	1	Label, Fuel Out
				98-4730	1	1	Label, Hot Coolant
				98-6030	1	1	Label, Coolant Heater
				98-7902-01	3	3	Label, Cummins Logo (Small)
				98-6460	1	1	Label, Battery, Polarity
				98-7365	1	1	Label, Lube Oil
				98-7366	1	1	Label, Coolant

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