

Allen-Bradley 1336R-VB048-AA-HAP

Adjustable Frequency AC Drive



Limited Availability
Used and in Excellent Condition

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1336 PLUS, PLUS II, FORCE, IMPACT & REGEN Spare Parts

0.37-597 kW / 0.5-800 HP
(200-240V), (380-480V), (500-600V)

ATTENTION: Hazardous voltages are present in the drive. Serious or fatal injury can occur from electric shock. DO NOT attempt repair without a troubleshooting manual or contacting Allen-Bradley for assistance.

Significance of Level Numbers

Level 1 - Major Assemblies
Recommended stocking locations include large users and OEM's, distributors, and GTS.

Level 2 - Minor Assemblies
Recommended stocking locations include distributors and GTS.

Level 3 - Discrete Components
Recommended stocking locations include GTS.

Installation Instructions Spare Parts installation instructions are documented in the troubleshooting manuals.

Spare Part Catalog Number Description (Example)

<u>1336</u>	--	<u>BDB</u>	--	<u>SP1</u>	--	<u>A</u>
1336 = PLUS, FORCE, IMPACT		Spare Part Type		Common Spare		Rev
1336S = 1336 PLUS				Part Delineator		
1336F = 1336 PLUS II						
1336T = 1336 FORCE						
1336E = 1336 IMPACT						
1336R = 1336 REGEN						

General Procedure For Ordering Parts Not Listed In This Spare Parts Matrix

- 1) Contact A-B Standard Drives Technical Support during normal business hours - 7 A.M. to 6 P.M. (CST).
- 2) Technical Support will provide the part number that needs to be ordered, PROVIDED:
 - a) The Catalog Number(s) of the drive(s), the system, or the equipment in question is known.
 - b) The RA Sales Order Number (SO) for the drive(s) or equipment in question is known.
 - c) You have the correct Troubleshooting Manual to help identify the parts you are seeking.
- 3) Place parts order through your local RA Distributor.
- 4) Local RA Distributor will place an order, in PASSPORT, then contact Customer Service (E-Team) to process and/or expedite your parts order. The CS representative will provide P & A.

IMPORTANT NOTES: Only A-B distributors may contact Customer Service. Calls from end users are not accepted by Customer Service. CS has precedence on any P & A issues.

Your Comments Are Welcome

If you have comments on how to improve this Spare Parts Index or Parts Ordering Issues, please contact:
A-B Standard Drives Technical Support Phone: 262 512 8176

Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = not applicable														
no 'Level' rating for these items		Series C Conversion Kit (includes Gate Drive PCB, Inductor and Precharge SCR)															
	1336-CONV-SP11A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 7.5 HP		1													
	1336-CONV-SP12A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 10 HP			1												
	1336-CONV-SP13A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 15 HP				1											
		Bus Fuse Upgrade Kit - D Frame (includes higher amperage bus fuse and fuse adapter)															
	1336-CONV-SP15A	Bus Fuse and Busbar Upgrade Kits, STEF, 250A, 230V, 40 HP								1							
	1336-CONV-SP16A	Bus Fuse and Busbar Upgrade Kits, STEF, 300A, 230V, 50 HP										1					
	1336-CONV-SP17A	Bus Fuse and Busbar Upgrade Kits, STEF, 350A, 230V, 60 HP											1				
		Plus to PlusII Upgrade Kit															
	1336F-UPGRA11	Main Control Bd, HAS2, and decal, A Frames, Latest FRN	1														
1336F-UPGRB11	Main Control Bd, HAS2, and decal, Frames B-G, Latest FRN		1	1	1	1	1	1	1	1	1	1	1	1	1	1	
Le		Main Control PCBs T.G. Symbol -> MAIN CTL															
	1336E-MCB-4UPGRD	PROM, Language and CP, Firmware 4.03	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336E-MC1-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames A1-A4	1														
	1336E-MC2-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames B-H		1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336E-MC1-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4	1														
	1336E-MC2-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames B-H		1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336E-MC1-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames A1-A4	1														
	1336E-MC2-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames B-H		1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336S-MCB-SP2B	PCB, MAIN CONTROL 1336S,A FRAME/WITH LM	1														
	1336S-MCB-SP1B	PCB,MAIN CONTROL 1336S,B-H FRAME		1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336F-MCB-SP1M	PCB, Main Control 1336F, Frames B-G, Latest FRN, Supersedes 1336F-MCB-SP1A-L		1	1	1	1	1	1	1	1	1	1	1	1	1	
	1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A-L	1														

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Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description
Level 1		Gate Drive PCBs
		T.G. Symbol -> BASE DRV / POWER SUPPLY
	1336-BDB-SP61A, C	Obsolete--replaced by 1336-BDB-SP61D
	1336-BDB-SP61D	PCB, Gate Driver, 1336T, 230V, 1 HP, Series C & up
	1336-BDB-SP62A, C	Obsolete--replaced by 1336-BDB-SP62D
	1336-BDB-SP62D	PCB, Gate Driver, 1336T, 230V, 3HP, Series C & up
	1336-BDB-SP11A, C	Obsolete--replaced by 1336-BDB-SP11D
	1336-BDB-SP11D	PCB, Gate Driver, 1336STE, 230V, 7.5 HP, Series C & up
		1336F, 230V, 7.5 HP, Ser A & up
	1336-BDB-SP12A, C	Obsolete--replaced by 1336-BDB-SP12D
	1336-BDB-SP12D	PCB, Gate Driver, 1336STE, 230V, 10 HP, Series C & up
		1336F, 230V, 10 HP, Ser A & up
	1336-BDB-SP13A, C	Obsolete--replaced by 1336-BDB-SP13D
	1336-BDB-SP13D	PCB, Gate Drive, 1336STE, 230V, 15 HP, Series C & up
		1336F, 230V, 15 HP, Ser A and Up
	1336-BDB-SP14A, C	Obsolete--replaced by 1336-BDB-SP14D
	1336-BDB-SP14D	PCB, Gate Driver, 1336STEF, 230V, 20 HP
	1336-BDB-SP15A, C	Obsolete--replaced by 1336-BDB-SP15D
	1336-BDB-SP15D	PCB, Gate Driver, 1336STEF, 230V, 25 HP
	1336-BDB-SP16A, C	Obsolete--replaced by 1336-BDB-SP16D
	1336-BDB-SP16D	PCB, Gate Driver, 1336STEF, 230V, 30 HP
	1336-BDB-SP25A, C	Obsolete--replaced by 1336-BDB-SP25D
	1336-BDB-SP25D	PCB, Gate Driver, 1336STEF, 230V, 40 HP
	1336-BDB-SP26A, C	Obsolete--replaced by 1336-BDB-SP26D
	1336-BDB-SP26D	PCB, Gate Driver, 1336STEF, 230V, 50 HP
	1336-BDB-SP27A, C	Obsolete--replaced by 1336-BDB-SP27D
	1336-BDB-SP27D	PCB, Gate Driver, 1336STEF, 230V, 60 HP
	1336-BDB-SP35A, C	Obsolete--replaced by 1336-BDB-SP35D
	1336-BDB-SP35D	PCB, Gate Driver, 1336STEF, 230V, 75 HP
	1336-BDB-SP36A, C	Obsolete--replaced by 1336-BDB-SP36D
	1336-BDB-SP36D	PCB, Gate Driver, 1336STEF, 230V, 100 HP
	1336-BDB-SP67A, C	Obsolete--replaced by 1336-BDB-SP67D
	1336-BDB-SP67D	PCB, Gate Driver, 1336STEF, 230V, 125 HP
Level 2		Bus Capacitors
		T.G. Symbol -> C1 - Cx or C1 - Cxx
	1336-CAP-SP6A	CAP, Assem., 1336STF, 230V, 7.5 - 10 HP (1 Assem. = 2 bus caps)
	1336-CAP-SP7A	CAP, assem., 1336STEF, 230V, 15 HP (1 assem. = 4 bus caps)
	1336-CAP-SP9A	CAP, assem., 1336STEF, 230V, 20 - 30 HP (1 assem. = 6 bus caps)
	1336-CAP-SP11A	CAP, assem., 1336STEF, 230V, 40 - 60 HP (1 assem. = 1 bus cap)
	1336-CAP-SP12A	CAP, assem., 1336STEF, 230V, 75 - 125 HP (1 assem. = 1 bus cap)
		Bus Fuses (also see Bus Fuse Upgrade Kits above)
		T.G. Symbol -> F1
	1336-F1-SP18A	Bus Fuse, 200A, 1336STEF, 230V, 20-30HP
	1336-F1-SP1A	Obsolete, use 1336-CONV-SP15A
	1336-F1-SP2A	Obsolete, use 1336-CONV-SP16A
	1336-F1-SP3A	Obsolete, use 1336-CONV-SP17A
	1336-F1-SP6A	Bus Fuse, 600A, 1336STEF, Frame E

Quantity of Kits Required per Drive											
A	Frame B			Frame C			Frame D			Frame E	
5-10 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP
	1										
	1										
	1										
	1										
		1									
		1									
			1								
			1								
				1							
					1						
						1					
							1				
								1			
									1		
										1	
											1
	1	1									
			1								
				1	1	1					
							6	6	8		
										8	10
											10
				1	1	1					
										1	1
											1

Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = not applicable												
Level 2		Precharge PCBs T.G. Symbol -> PRECHARGE													
	1336-PB-SP1A, B, C, D	Obsolete--replaced by 1336-PB-SP1E													
	1336-PB-SP1E	PCB, Precharge (SA), 1336STEF, 230V, 20 - 30 HP					1	1	1						
	1336-PB-SP4A	PCB, Precharge (CB), 1336STEF, 230V, 20 - 30 HP					1	1	1						
	1336-PB-SP7A, C	obsolete, replaced by 1336-PB-SP13F													
	1336-PB-SP12A,B	obsolete, replaced by 1336-PB-SP16B													
	1336-PB-SP13A,B,C,D,E	obsolete, replaced by 1336-PB-SP13F													
	1336-PB-SP13F	PCB, Precharge (SA), 1336STEF, 230V, 40 - 125 HP								1	1	1	1	1	1
	1336-PB-SP16A	obsolete, replaced by 1336-PB-SP16B													
	1336-PB-SP16B	PCB, Precharge (CB), 1336STEF, 230V, 40 - 125 HP								1	1	1	1	1	1
		Snubber PCBs T.G. Symbol -> (SCR) SNUBBER BOARD													
	1336-SN-SP1A	Obsolete--replaced by 1336-SN-SP1B													
	1336-SN-SP1B	PCB, Converter & Inverter Snubber, (SA), 1336STEF, 460V, X40 - X60					1	1	1						
	1336-SN-SP21A	PCB, Inverter Snubber (CB), 1336STEF, C Frame					1	1	1						
	1336-SN-SP3A	PCB, Converter Snubber (SA), 1336STEF, D Frame								1	1	1			
	1336-SN-SP18A	PCB, Converter Snubber (CB), 1336STEF, D & E Frame								1	1	1	1	1	1
	1336-SN-SP6A	PCB, Inverter Snubber, 1336STEF, 230V, 40 - 50 HP								3	3				
	1336-SN-SP4A	PCB, Inverter Snubber, 1336STEF, 230V, 60 HP										3			
	1336-SN-SP8A	PCB, Converter Snubber (SA) , 1336STEF, E Frame											3	3	3
	1336-SN-SP9A	PCB, Inverter Snubber, obsolete, replaced by 1336-SN-SP10A													
1336-SN-SP10A	PCB, Inverter Snubber, 1336STEF, E Frame											3	3	3	
Level 2		Rectifiers T.G. Symbol -> BR1													
	1336-BR-SP1A	Rect, Bridge, Diode, Obsolete, replaced by 1336-BR-SP2A													
	1336-BR-SP2A	Rect, Bridge, Diode, 1336STEF, 230V, 7.5 HP		1											
	1336-BR-SP3A	Rect, Bridge, Diode, Obsolete, replaced by 1336-BR-SP4A													
	1336-BR-SP4A	Rect, Bridge, Diode, 1336STEF, 230V, 10 - 15 HP			1	1									
	1336-BR-SP5A	Rect, Bridge, SCR, Obsolete -- replaced by 1336-BR-SP6A													
	1336-BR-SP6A	Rect, Bridge, SCR, 1336STE Series A-D, 1336F Series A 230V, 20 - 30 HP drives manuf'd before 8-4-2000					1	1	1						
	1336-BR-SP10A	Rect, Bridge, SCR, 1336STE Series E, 1336F Series B 230V, 20 - 30 HP drives manuf'd after 8-4-2000					1	1	1						
		Input SCRs T.G. Symbol -> SCR1, SCR1 - SCR3													
	1336-SCR-SP1A	SCR, Assem. (SA), 1336STEF, 230V, 40 - 60 HP								3	3	3			
	1336-SCR-SP3A	SCR, Assem. (CB), 1336STEF, 230V, 40 - 50 HP								1	1				
	1336-SCR-SP5A	SCR, Assem. (CB), 1336STEF, 230V, 60 HP										1			
	1336-SCR-SP7A	SCR, Assem. (SA), 1336STEF, 230V, 75 - 125 HP											3	3	3
	1336-SCR-SP9A	SCR, Assem. (CB), 1336STEF, 230V, 75 - 125 HP											1	1	1
		Transistors / IGBTs T.G. Symbol -> Q1 - Q3 or QI - Q6													
	1336-QOUT-SP3A	TSTR, Assem., Output, 1336STF, 230V, 7.5 HP		3											
	1336-QOUT-SP5A	TSTR, Assem., Output, 1336STF, 230V, 10 HP			3										
	1336-QOUT-SP6A	TSTR, Assem., Output, 1336STEF, 230V, 15 HP				3									
	1336-QOUT-SP8A	TSTR, Assem., Output, 1336STEF, 230V, 20 - 30 HP					3	3	3						
	1336-QOUT-SP12B	TSTR, Assem., Output, 1336STEF, 230V, 40 HP								3					
1336-QOUT-SP13A	TSTR, Assem., Output, 1336STEF, 230V, 50 HP									3					
1336-QOUT-SP14A	TSTR, Assem., Output, 1336STEF, 230V, 60 HP										3				
1336-QOUT-SP18A	TSTR, Assem., Output, 1336STEF, 230V, 75 - 125 HP											3	3	3	

Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = not applicable											
Level 3	Precharge Modules													
	1336-QPRE-SP1A	TSTR, Precharge, 1336STE, 230V, 7.5 HP, Series A Obsolete, order 1336-CONV-SP11A Series A to C Conversion Kit												
	1336-QPRE-SP1C	TSTR, Precharge, 1336STE, 230V, 7.5 - 15 HP, Series C & up 1336F, 230V, 7.5-15 HP Series A & up		1	1	1								
	1336-QPRE-SP3A	TSTR, Precharge, 1336STE, 230V, 10 HP, Series A Obsolete, order 1336-CONV-SP12A Series A to C Conversion Kit		1	1	1								
	1336-QPRE-SP4A	TSTR, Precharge, 1336STE, 230V, 15 HP, Series A Obsolete, order 1336-CONV-SP13A Series A to C Conversion Kit												
	Current Transducers													
	T.G. Symbol -> CT1, CT2													
	1336-CT-SP1A	Current Transducer, 1336STEFR, Frame D								1	1	1		
	1336-CT-SP2A	Current Transducer, 1336STEF, Frame E											1	1
	Fans													
	T.G. Symbol -> FAN													
	1336-FAN-SP1A	Fan, 1336STEF, Frame B & Frame C		1	1	1	1	1	1					
	1336-FAN-SP8A	Fan, 1336STEF, Frames B&C, NEMA 4X		1	1	1	1	1	1					
	1336-FAN-SP2A	Fan, 1336STEF, Frame D								1	1	1		
	1336-FAN-SP3A	Fan, 1336STEF, Frame E											1	1
	1336-FAN-SP7A	Fan, 1336STEF, Frame A4, (AQF75 Stretch Frame only)	2											
	Inductors (SA)													
	T.G. Symbol -> L1													
	1336-L-SP3A	Inductor, 1336ST, 230V, 7.5 HP, Series A & B		1										
	1336-L-SP3C	Inductor, 1336STE, 230V, 7.5 HP, Series C & up 1336F, 230V, 7.5 HP, Series A & up		1										
	1336-L-SP4A	Inductor, 1336ST, 230V, 10 HP, Series A & B												
	1336-L-SP4C	Inductor, 1336STE, 230V, 10 HP, Series C & up 1336F, 230V, 10 HP, Series A & up			1									
	1336-L-SP5A	Inductor, 1336STE, 230V, 15 HP, Series A & B												
	1336-L-SP5C	Inductor, 1336STE, 230V, 15 HP, Series C & up 1336F, 230V, 15 HP, Series A and Up				1								
	1336-L-SP7A	Inductor, 1336STEF, 230V, 20 - 30 HP				1								
	1336-L-SP11A	Inductor, 1336STEF, 230V, 40 HP								1				
	1336-L-SP12A	Inductor, 1336STEF, 230V, 50 HP									1			
	1336-L-SP13A	Inductor, 1336STEF, 230V, 60 HP										1		
	1336-L-SP16A	Inductor, 1336STEF, 230V, 75 HP											1	
	1336-L-SP17A	Inductor, 1336STEF, 230V, 100 - 125 HP												1
	Mounting Feet (1 pair)													
	1336-FEET-SP1A	Kit, Mounting Feet, 1336STEF, Frame B (There is no 240V-A4 frame)		1	1	1								
	1336-FEET-SP2A	Kit, Mounting Feet, 1336STEF, Frame C					1	1	1					
	1336-FEET-SP3A	Kit, Mounting Feet, 1336STEF, Frame D								1	1	1		
	1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E											1	1
	1336-FEET-SP7A	Kit, Mounting Feet, 1336STEF, Frame A1 (AQF05 - AQF10)	1											
	1336-FEET-SP8A	Kit, Mounting Feet, 1336STEF, Frame A2 (AQF15 - AQF20)	1											
	1336-FEET-SP5A	Kit, Mounting Feet, 1336STEF, Frame A3 (AQF30 - AQF50)	1											
	1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (AQF75 only)	1											
	Input MOVs - Stand Alone Only													
	T.G. Symbol -> MOV1													
	1336-MOV-SP1A	MOV, 1336STEF, 230V, 40 - 60 HP								1	1	1		
	1336-MOV-SP3A	MOV, 1336STEF, 230V, 75 - 125 HP											1	1
	Resistors													
	T.G. Symbol -> R20 - R22													
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 230V, 40 HP								1				
	1336-R2-SP1A	Resistor, Precharge (CB), 1336STEF, 230V, 50 - 60 HP									1	1		
	1336-RLOAD-SP2A	Resistor, Load, 1336STEF, 230V, 7.5 - 30 HP		1	1	1	1	1	1					
	1336-RLOAD-SP3A	Resistor, Load, 1336STEF, 230V, 40 - 50 HP								1	1			
	1336-RLOAD-SP4A	Resistor, Load, 1336STEF, 230V, 60 HP										2		
	1336-RLOAD-SP5B	Resistor, Load, 1336STEF, 230V, 75 - 125 HP											1	1

Spare Parts - 230V PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = not applicable												
Level 3		Miscellaneous													
		1/4 turn Standoffs, Screw Kits, and Ribbon Cables													
	1336-STD0FF-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEFR, used w/Gate Driver Bds					2	2	2	2	2	2			
		Screw Kits													
	1336-SCREW-SP3A	Kit, Screw, (25 Pcs) M4 x 0.7 x 89 mm, 1336STEF													
	1336-SCREW-SP4A	Kit, Screw, (25 Pcs) M5 x 0.8 x 10 mm, 1336STEF													
	1336-SCREW-SP5A	Kit, Screw, (25 Pcs) M5 x 0.8 x 16 mm, 1336STEF													
	1336-SCREW-SP6A	Kit, Screw, (25 Pcs) M6 x 1.0 x 12 mm, 1336STEF													
		Cables													
	1336-RCBL-SP1B	Kit, Ribbon Cable w/ Ferrite Clamp, 1336STE, Frame A-E	1	1	1	1	1	1	1	1	1	1	1	1	1
		Thermistors													
		T.G. Symbol -> ST or NTC1													
	1336-TR-SP1A	Kit, Thermistor, 1336STEF, Frame B		1	1	1									
	1336-TR-SP2A	Kit, Thermistor, 1336STEF, Frame C					1	1	1						
	1336-TR-SP3A	Kit, Thermistor, 1336STEF, Frame D								1	1	1			
1336-TR-SP4A	Kit, Thermistor, 1336STEF, Frame E											1	1	1	
	Transformers (Stand Alone Only)														
	T.G. Symbol -> T1														
1336-T-SP1A	XFER, 1336STEF, 230V, 40 - 60 HP								1	1	1				
1336-T-SP3A	XFER, 1336STEF, 230V, 75 - 125 HP											1	1	1	

Informal Coated Spare Parts - PLUS, PLUS II, FORCE & IMPACT Drives

Informal Coated Spare Parts - PLUS, PLUS II, FORCE & IMPACT Drives

Level

Catalog Number

Description

T.G. SYMBOL -> Troubleshooting Guide Symbol
(SA) = Stand Alone
(CB) = Common Bus
No Designator = Applies to all drives
X = Not Applicable

Main Control PCBs

T.G. Symbol -> MAIN CTL

1336S-MCBMX3-SP1A

1336E-MCBMX3-SP2A

1336E-MC1MX3-SP31B

1336E-MC1MX3-SP42A

1336E-MC2MX3-SP42A

Logic PCBs for 1336S & 1336F Main CTL PCBs
(consumable item - not repairable)

1336-L4MX3

1336-L5MX3

1336-L6MX3

Gate Drive PCBs CONFORMAL COATED

T.G. Symbol -> BASE DRV / POWER SUPPLY, A1

460V

1336-BDBMX3-SP3C

1336-BDBMX3-SP14A

1336-BDBMX3-SP15A

1336-BDBMX3-SP16A

1336-BDBMX3-SP57D

1336-BDBMX3-SP17D

1336-BDBMX3-SP18D

1336-BDBMX3-SP19D

1336-BDBMX3-SP56D

1336-BDBMX3-SP37D

1336-BDBMX3-SP39D

1336-BDBMX3-SP58A

460V (650VDC) Common Bus

1336-BDBMX3-SP63A

575V

1336-BDBMX3-SP60A

1336-BDBMX3-SP24A

1336-BDBMX3-SP61A

1336-BDBMX3-SP62A

Quantity of Kits Required Per Drive

A

Frame B

Frame C

Frame D

Frame E

Frame F

Frame G

H

5-20 HP

7.5 HP

10 HP

15 HP

20 HP

25 HP

30 HP

48A

25 HP

30 HP

X40 HP

40 HP

50 HP

X60 HP

78A

60 HP

75 HP

100 HP

125 HP

X150 HP

180A

150 HP

200 HP

250 HP

X300 HP

250 HP

300 HP

350 HP

400 HP

450 HP

X250 HP

300 HP

350 HP

400 HP

450 HP

500 HP

600/650

700 HP

800 HP

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Conformal Coated Spare Parts - PLUS, PLUS II, FORCE & IMPACT Drives

Level	Catalog Number	Description	T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone (CB) = Common Bus No Designator = Applies to all drives
		Precharge PCBs CONFORMAL COATED T.G. Symbol -> PRECHARGE	
		460V	
	1336-PBMX3-SP2A	PCB, Precharge (SA), 1336STEF, 460V, X40 - X60 HP Conformal coated	
	1336-PBMX3-SP8A	PCB, P-C, (SA), 460V, 60 - X150 HP Conformal coated	
		460V (650VDC) Common Bus	
	1336-PBMX3-SP10A	PCB, Precharge (CB), 1336STEF, 650VDC, 60 - 800 HP Conformal coated	
		575V	
	1336-PBMX3-SP10A	PCB, Precharge (SA), 1336STEF, 575V, 75 - 600 HP Conformal coated	
		Snubber PCBs CONFORMAL COATED T.G. Symbol -> INVERTER & CONVERTER SNUBBER BDS	
		230V	
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, D-Frame, (A11) Conformal coated	
	1336-SNMX3-SP4A	PCB, Inverter Snubber (SA), 1336STEF, D-Frame, (A20-A22) Conformal coated	
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, E-Frame, (A11-A13) Conformal coated	
	1336-SNMX3-SP7A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - 250 HP, (A20-A22) Conformal coated	
		460V	
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, D-Frame, (A11) Conformal coated	
	1336-SNMX3-SP6A	PCB, Inverter Snubber, 1336STEF, 460V, 60 - 100 HP, (A20-A22) Conformal coated	
	1336-SNMX3-SP4A	A22) Conformal coated	
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, E-Frame, (A11-A13)	
	1336-SNMX3-SP7A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - 250 HP, (A20-A22) Conformal coated	
	1336-SNMX3-SP8A	PCB, Inverter Snubber, 1336STEF, 460V, X250 - 800 HP (A23-A28) Conformal coated	
		575V	
	1336-SNMX3-SP10A	PCB, Converter Snubber (SA), 1336STEF, 575V, Frame E, (A11 - A13) Conformal coated	
	1336-SNMX3-SP12A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - X300 HP, (A20-A22) Conformal coated	
	1336-SNMX3-SP9A	PCB, Converter Snubber (SA), 1336STEF, 575V, D-Frame, (A11) Conformal coated	
	1336-SNMX3-SP5A	PCB, Inverter Snubber, (SA) 1336STEF, 575V, D-frame, (A20-A22) Conformal coated	

Quantity of Kits Required Per Drive																																									
A	Frame B							Frame C							Frame D							Frame E			Frame F				Frame G					H							
5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	48A	25 HP	30 HP	X40 HP	40 HP	50 HP	X60 HP	78A	60 HP	75 HP	100 HP	125 HP	X150 HP	180A	150 HP	200 HP	250 HP	X300 HP	250 HP	300 HP	350 HP	400 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP			
460V																																									
								X	X	1	1	1	1																												
															1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
460V (650VDC) Common Bus																																									
															1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
575V																																									
															X	1	1	1	X	X	1	1	1	1	X	X	1	1	X	X	1	1	1	1	1	1	1	X	X		
230V D-frame 230V E-frame																																									
								X	X	X	1	1	1	X																											
								X	X	X	3	3	3	X																											
															X	1	1	1	X	X																					
															X	3	3	3	X	X																					
460V D-frame 460V E-frame																																									
															1	1	1	1	1	1																					
															3	3	3																								
																					3	3	3																		
																					3	3	3	X																	
																					3	3	3	X																	
575V D-frame 575V E-frame																																									
																					3	3	3	3																	
																					3	3	3	3																	
															X	1	1	1	X																						
															X	3	3	3	X																						

T.G. SYMBOL -> Troubleshooting Guide Symbol
(SA) = Stand Alone / (CB) = Common Bus
No Designator = Applies to all drives
X = Not Applicable

Quantity of Kits Required Per Drive

Spare Parts - 460V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Level	Catalog Number	Description
		T.G. SYMBOL -> Troubleshooting Guide Symbol (SA) = Stand Alone / (CB) = Common Bus No Designator = Applies to all drives X = Not Applicable
	1336T-MCB-SP34B	PCB, Main Control 1336T, Series B, V3.04
	1336T-MCB-SPM34B	PCB, Main Control 1336T, Series B, Master, V3.04
	1336T-MCB-SPS34B	PCB, Main Control 1336T, Series B, Slave, V3.04
	1336T-MCB-SP51A	PCB, Main Control 1336T, V5.01
	1336T-MCB-UPGRAD	PROM, Firmware Upgrade, MAIN CONTROL, V5.01
	1336E-MCB-4UPGRD	PROM, Language and CP, Firmware 4.03
	1336E-MCB-SP1A	Obsolete--replaced by 1336E-MC1-SP23A
	1336E-MCB-SP2A	Obsolete--replaced by 1336E-MC2-SP23A
	1336E-MC1-SP21A, B	Obsolete--replaced by 1336E-MC1-SP23A
	1336E-MC2-SP21A, B	Obsolete--replaced by 1336E-MC2-SP23A
	1336E-MC1-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames A1-A4
	1336E-MC2-SP23A	PCB, Main Control 1336E, 2.03 Firmware, Frames B-H
	1336E-MC1-SP31A	Obsolete--replaced by 1336E-MC1-SP31B
	1336E-MC1-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4
	1336E-MC2-SP31A	Obsolete--replaced by 1336E-MC2-SP31B
	1336E-MC2-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames B-H
	1336E-MC1-SP42A	PCB, Main Control 1336E, w/ English LM, V4.02, Frames A1-A4
	1336E-MC2-SP42A	PCB, Main Control 1336E, w/ English LM, V4.02, Frames B-H
	1336E-MC1-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames A1-A4
	1336E-MC2-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames B-H
	1336R-MCB-SP3A	PCB, Main Control All 1336R, Series A, V3.xx
	Adapter PCBs	
	1336T-GT1-SP34B	PCB, PLC Communications Adapter, Series B, V3.03
	1336T-GT1-SP51A	PCB, PLC Communications Adapter, w/ English LM, V5.01
	1336T-GT1-UPGRAD	Firmware Upgrade, PLC Communications Adapter, V5.01
	1336T-GT2-SP42B	PCB, Standard Adapter, Series B, V4.02
	1336T-GT2-SP51A	PCB, Standard Adapter, w/ English LM, V5.01
	Language Modules	
	1336E-EN43	Language Module Kit, 1336E, English, V4.03
	1336S-EN3	Language Module Kit, 1336S, English, FRN 3.04
	1336S-EN4	1336S, English, FRN 4.03, no longer available thru Passport Either order 1336S-EN5 or p/n '1336SEN4' thru the HUB
	1336S-EN5	Language Module Kit, 1336S, English, FRN 5.02
	1336S-EN6	LANGUAGE MODULE,V6.XX,ENGLISH
	1336T-LM1EN51	Language Module Kit, 1336T, PLC Comm Adapter, English, V5.01
	1336T-LM1FR51	Language Module Kit, 1336T, PLC Comm Adapter, French, V5.01
	1336T-LM1ES51	Language Module Kit, 1336T, PLC Comm Adapter, Spanish, V5.01
	1336T-LM1DE51	Language Module Kit, 1336T, PLC Comm Adapter, German, V5.01
	1336T-LM1IT51	Language Module Kit, 1336T, PLC Comm Adapter, Italian, V5.01
	1336T-LM2EN51	Language Module Kit, 1336T, Standard Adapter, English, V5.01
	1336T-LM2FR51	Language Module Kit, 1336T, Standard Adapter, French, V5.01
	1336T-LM2ES51	Language Module Kit, 1336T, Standard Adapter, Spanish, V5.01
	1336T-LM2DE51	Language Module Kit, 1336T, Standard Adapter, German, V5.01
	1336T-LM2IT51	Language Module Kit, 1336T, Standard Adapter, Italian, V5.01

		Quantity of Kits Required Per Drive																												
A		Frame B					Frame C				Frame D				Frame E			Frame F				Frame G					H			
5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	48A	X40 HP	40 HP	50 HP	X60 HP	78A	60 HP	75 HP	100 HP	125 HP	X150 HP	180A	150 HP	200 HP	250 HP	250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP
	1	1	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1		1	1	1	1		1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1
	X	X	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	X	X	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	X	X	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	X	X	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1</							

T.G. SYMBOL -> Troubleshooting Guide Symbol
(SA) = Stand Alone / (CB) = Common Bus
No Designator = Applies to all drives
X = Not Applicable

A 20x20 grid with a diagonal line of '1's from the top-left to the bottom-right.

2[illegible]

Level	Catalog Number	Description
		Input Line Fuses T.G. Symbol -> CF1 - CF3
	1336-F2-SP5A	Fuse, Line, 1336STEF, A70QS450, 460V, 250 HP, F Frame, 3 / Kit
	1336-F2-SP6A	Fuse, Line, 1336STEF, A70QS500, 460V, 300 HP, F Frame, 3 / Kit
	1336-F2-SP7A	Fuse, Line, 1336STEF, A70QS600, 460V, 350-400 HP, F Frame, 3 / kit
	1336-F2-SP8A	Fuse, Line, 1336STEF, A70QS700, 460V, 450 HP, F Frame, 3 / Kit
		Precharge PCBs T.G. Symbol -> PRECHARGE
	1336-PB-SP2E	PCB, Precharge (SA), 1336STEF, 460V, X40 - X60 HP
	1336-PB-SP5A	PCB, Precharge (CB), 1336STEF, 460V, X40 - X60 HP
	1336-PB-SP21B	PCB, Precharge (CB), 1336STEF, 460V, 60 - 800 HP
	1336-PB-SP23A,B,C	Obsolete--replaced by 1336-PB-SP23D
	1336-PB-SP23D	PCB, Precharge (SA), 1336STEF, 460V, 60 - 600 HP
		1336R Pre-Charge PCB's
	1336R-PRE-SP1A	PCB, Precharge 1336R, 460V, 48/78A
	1336R-PRE-SP2A	PCB, Precharge 1336R, 460V, 180A
		Snubber PCBs T.G. Symbol -> INVERTER & CONVERTER SNUBBER BDS
	1336-SN-SP1A, B	Replaced by 1336-CONVCF-SP1A (drives manu'f <8-4-2000)
	1336-SN-SP1C	PCB, Snubber, (SA), 1336STEF, 460V, X40 - X60 note: SP1C (manu'f after 8-4-2000) not backwards compatible w/SP1B
	1336-SN-SP21A	PCB, Pre-Charge and Snubber (CB), 1336STEF, 460V, C Frame
	1336-SN-SP18A	PCB, Pre-Charge Snubber (CB), 1336STEF, D & E Frames
	1336-SN-SP19A	PCB, Pre-Charge Snubber (CB), 1336STEF, F Frame
	1336-SN-SP20A	PCB, Pre-Charge Snubber (CB), 1336STEF, G & H Frame
	1336-SN-SP3A	PCB, Converter Snubber (SA), 1336STEF, Frame D
	1336-SN-SP4A	PCB, Inverter Snubber, 1336STEFR, 460V, 125, X150 HP, and 180A
	1336-SN-SP6A	PCB, Inverter Snubber, 1336STEF, 460V, 60 - 100 HP
	1336-SN-SP8A	PCB, Converter Snubber (SA), 1336STEF, Frame E, (A11 - A13)
	1336-SN-SP10A	PCB, Inverter Snubber, 1336STEF, 460V, 150 - 250 HP
	1336-SN-SP16A	PCB, Inverter Snubber, 1336STEF, Frame F (A20 - A22)
	1336-SN-SP17A	PCB, Converter Snubber, 1336STEF, Frame F (A11 - A13)
	1336-SN-SP12A	PCB, Converter Snubber, 1336STEF, 460V, 300-600 HP (A11-A13)
	1336-SN-SP14A	PCB, Inverter Snubber, 1336STEF, 460V, X250 - 800 HP (A21-A23)
		Bridge Rectifiers T.G. Symbol -> BR1
	1336-BR-SP2A	Rect, Bridge, Diode 1336STE, 460V, 7.5 - 15 HP, 1336F, 460V, 15 HP
	1336-BR-SP4A	Rect, Bridge, Diode, 1336STEF, 460V, 20 - 30 HP
	1336-BR-SP6A	Replaced by 1336-CONVCF-SP1A (drives manufactured before 8/4/2000)
	1336-BR-SP10A	Rect, Bridge, SCR, 1336STE Series E, 1336F Series B, 460V, X40 - X60 HP
	1336-BR-SP7A	Rect, Bridge, Diode (CB), 1336STEF, 460V, X250 - 800 HP

[illegible]

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X = Not Applicable

Quantity of Kits Required Per Drive

Level 3

[illegible][illegible][illegible][illegible]

Level 3

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Level 1

Quantity of Kits Required Per Drive

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Level 1

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Spare Parts - 575V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Revised: 5/25/2007

Level	Catalog Number	Description
Level 1		Precharge PCBs T.G. Symbol -> PRECHARGE
	1336-PB-SP3E	PCB, Precharge (SA), 1336STEF, 575V, 25 - 60 HP
	1336-PB-SP6A	PCB, Precharge (CB), 1336STEF, 575V, 25 - 60 HP
	1336-PB-SP20F	PCB, Precharge (SA), 1336TEF, 575V, 75 - 600 HP
	1336-PB-SP22B	PCB, Precharge (CB), 1336TEF, 575V, 75 - 800 HP (A10)
		Snubber PCBs
	1336-SN-SP22A	PCB, Pre-Charge and Inverter Snubber (CB), 1336STEF, 575V, 25 - 60 HP
	1336-SN-SP18A	PCB, Snubber (CB), 1336STEF, D & E Frame
	1336-SN-SP19A	PCB, Snubber (CB), 1336TEF, F Frame
	1336-SN-SP20A	PCB, Snubber (CB), 1336STEF, G & H Frame
	1336-SN-SP2A	Replaced by 1336-CONVCF-SP2A (575V, 25 - 60 HP manu'f before 8-4-2000)
	1336-SN-SP2B	PCB, Converter and Inverter Snubber, (SA), 1336STEF, 575V, 25 - 60 HP NOTE: SN-SP2B IS NOT BACKWARDS COMPATIBLE w/SN-SP2A
	1336-SN-SP3A	PCB, Converter Snubber, 1336STEF, Frame D
	1336-SN-SP4A	PCB, Inverter Snubber, 1336STEF, 575V, 125 HP
	1336-SN-SP6A	PCB, Inverter Snubber, 1336STEF, 575V, 75 - 100 HP
	1336-SN-SP8A	PCB, Converter Snubber, 1336STEF, Frame E, (A11 - A13)
	1336-SN-SP10A	PCB, Inverter Snubber, 1336STEF, 575V, 150 - 300 HP, (A20 - A22)
	1336-SN-SP16A	PCB, Inverter Snubber, 1336TEF, Frame F, (A20 - A22)
	1336-SN-SP17A	PCB, Converter Snubber, 1336TEF, Frame F, (A11 - A13)
	1336-SN-SP13A	PCB, Converter Snubber, 1336STEF, 575V, 300 - 650 HP (A11-A13)
	1336-SN-SP15A	PCB, Inverter Snubber, 1336STEF, 575V, 300 - 800 HP (A21-A23)
		Bridge Rectifiers T.G. Symbol -> BR1
	1336-BR-SP2A	Rect, Bridge, Diode, 1336STE, 575V, 7.5 - 15 HP
	1336-BR-SP4A	Rect, Bridge, Diode, 1336STE, 575V, 20 HP
	1336-BR-SP6A	Repl'd by 1336-CONVCF-SP2A (C025-C060 drives manu'f before 8-4-2000)
	1336-BR-SP10A	Rect, Bridge, SCR, 1336STE Series C, 1336F Series B, 575V, 25 - 60 HP (C025-C060 drives manu'f after 8-4-2000)
	1336-BR-SP8A	Rect, Bridge, Diode (CB), 1336STEF, 575V, 300 - 800 HP

Quantity of Kits Required Per Drive																											
A	Frame B					Frame C					Frame D			Frame E			F		Frame G						H		
0.5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP	150 HP	200 HP	250 HP	X300 HP	350 HP	400 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600 HP	650 HP	700 HP	800 HP
					1	1	1	1	1																		
					1	1	1	1	1																		
										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
										1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
					1	1	1	1	1				1	1	1	1											
										1	1	1					1	1									
																			1	1							
																					1	1	1	1	1	1	1
					1	1	1	1	1																		
										1	1	1															
										3	3																
													3	3	3	3											
													3	3	3	3											
																	3	3									
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																			2	2	2	2	2	2	2	2	2
																			3	3	3	3	3	3	3	3	3
		1	1	1																							
					1																						
					1	1	1	1	1																		

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Level 3

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3 Level 3

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Spare Parts - 575V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Revised: 5/25/2007

Level Level	Catalog Number	Description	T.G. SYMBOL --> Troubleshooting Guide Symbol (SA) = Stand Alone --- (CB) = Common Bus No Designator --> Applies to all 1336X drives X = Not Applicable																												
			0.5-20 HP	7.5 HP	10 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP	150 HP	200 HP	250 HP	X300 HP	350 HP	400 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600 HP	650 HP	700 HP	800 HP	
Level 1		Power Module Snubber Resistors																													
		T.G. Symbol -> R20 - R22, R20 - R25																													
	1336-R1-SP1A	Snubber Resistor, 1336STEFR											3	3	3																
	1336-R1-SP2A	Snubber Resistor, 1336STEF														3	3	3	3												
	1336-R1-SP4B	Snubber Resistor, Inverter, 1336TEF, Frame F, (R20 - R25)																		3	3										
	1336-R1-SP5A	Snubber Resistor, Converter, 1336TEF, Frame F, (R11 - R13)																			3	3									
	1336-R1-SP3A	Snubber Resistor, 1336STEF, Frame G, (R20 - R25)																					6	6	6	6	6	6	6	6	6
		Common Bus Pre-Charge Resistors																													
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 575V, 125 HP,													2																
	1336-R2-SP3A	Resistor, Precharge (CB), 1336STEF, 575V, 75 - 100 HP												2	2																
	1336-R2-SP5A	Resistor, Precharge (CB), 1336STEF, Frames G, H (1/Kit)																					1	1	1	1	1	1	1	1	1
		Load Resistors T.G. Symbol -> R1, R2, R3																													
	1336-RLoad-SP2A	Resistor, Load, 1336STE, 1336STE, 575V, 7.5 - 60 HP, (Qty. 2 required)						2	2	2	2																				
	1336-RLoad-SP3A	Resistor, Load, 1336STEF, 575V, 75 - 100 HP, (R1 - R2)												2	2																
	1336-RLoad-SP4A	Resistor, Load, 1336STEF, 575V, 125 HP (R1 - R2 - R3)														3															
	1336-RLoad-SP5A	Resistor, Load, 1336STEF, 575V, 150 - 300 HP (drives mfg prior to Nov 2003 or after May 2004)																2	2	2	2										
	346664-A01	Resistor Assy, Load, 1336STEF, 575V, 150 - 300 HP (drives mfg Nov 2003 thru May 2004)																	2	2	2	2									
	1336-RLoad-SP7A	Resistor, Load, 1336STEF, 575V, Frame F (R1)																	1	1	1	1									
	1336-RLoad-SP6A	Resistor, Load, 1336STEF, 575V, Frames G & H (R1 - R9)																					7	7							
		Miscellaneous																													
		1/4 turn Standoffs, Screw Kits, and Ribbon Cables																													
	1336-STDOff-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEFR, used w/Gate Driver Bds						2	2	2	2	2	2	2	2																
		Screw Kits																													
Level 3	1336-SCREW-SP1A	Kit, Screw, (25 Pcs.) M4 x 0.7 x 64 mm, 1336STEFR																													
	1336-SCREW-SP2A	Kit, Screw, (25 Pcs.) M4 x 0.7 x 45 mm, 1336STEFR																													
	1336-SCREW-SP3A	Kit, Screw, (25 Pcs.) M4 x 0.7 x 89 mm, 1336STEFR																													
	1336-SCREW-SP4A	Kit, Screw, (25 Pcs.) M5 x 0.8 x 10 mm, 1336STEFR																													
	1336-SCREW-SP5A	Kit, Screw, (25 Pcs.) M5 x 0.8 x 16 mm, 1336STEFR																													
	1336-SCREW-SP6A	Kit, Screw, (25 Pcs.) M6 x 1.0 x 12 mm, 1336STEFR																													
	1336-SCREW-SP7A	Kit, Screw, (25 Pcs.) M2.5 x 0.45 x 12 mm, 1336STEFR																													
	1336-SCREW-SP8A	Kit, Screw, (25 Pcs.) M2.5 x 0.45 x 12 mm, 1336STEFR																													
	1336-SCREW-SP9A	Kit, Screw, (25 Pcs.) M4 x 0.7 x 12 mm, 1336STEFR																													
	1336-SCREW-SP10A	Kit, Screw, (25 Pcs.) M4 x 20 mm, 1336STEFR																													
	1336-SCREW-SP11A	Kit, Screw, (25 Pcs.) M4 x 0.7 x 22 mm, 1336STEFR																													
	1336-SCREW-SP12A	Kit, Screw, (25 Pcs.) M6 x 1.0 x 16 mm, 1336STEFR																													
	1336-SCREW-SP13A	Kit, Screw, (25 Pcs.) M 5 x 0.8 x 10 mm, 1336STEFR																													
	1336-SCREW-SP14A	Kit, Screw, (25 Pcs.) M 8 x 1.25 x 35 mm, 1336STEFR																													

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