

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

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

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**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.

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**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)**

<b><u>1336</u></b>	--	<b><u>BDB</u></b>	--	<b><u>SP1</u></b>	--	<b><u>A</u></b>
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						

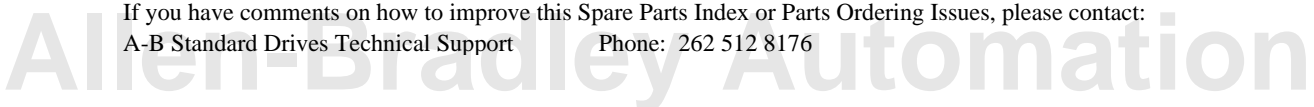
**General Procedure For Ordering Parts Not Listed In This Spare Parts Matrix**

- 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	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	125 HP							
no 'Level' rating for these items		<b>Series C Conversion Kit</b> <b>(includes Gate Drive PCB, Inductor and Precharge SCR)</b>																				
	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																
		<b>Bus Fuse Upgrade Kit - D Frame</b> <b>(includes higher amperage bus fuse and fuse adapter)</b>																				
	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										
		<b>Plus to PlusII Upgrade Kit</b>																				
	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	
	Le		<b>Main Control PCBs</b> <b>T.G. Symbol -&gt; MAIN CTL</b>																			
		1336E-MCB-4UPGRD	PROM, Language and CP, Firmware 4.03																			
		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-SP31B		PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4																				
1336E-MC2-SP31B		PCB, Main Control 1336E, w/ English LM, V3.01, 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																				
1336S-MCB-SP2B		PCB, MAIN CONTROL 1336S,A FRAME/WITH LM																				
1336S-MCB-SP1B		PCB,MAIN CONTROL 1336S,B-H FRAME																				
1336F-MCB-SP1M		PCB, Main Control 1336F, Frames B-G, Latest FRN, Supersedes 1336F-MCB-SP1A through SP1L																				
1336F-MCB-SP2M		PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A through SP2L																				
		<b>1336F FLASH FILES</b>																				
1336F-FRN		1336 PLUS II, Latest FIRMWARE																				
1336T-MCB-SP34B		PCB, Main Control 1336T, Series B, V3.04																				
1336T-MCB-SPM34C		PCB, Main Control 1336T, Series B, Master, V3.04																				
1336T-MCB-SPS34C		PCB, Main Control 1336T, Series B, Slave, V3.04																				
1336T-MCB-UPGRAD		PROM, Firmware Upgrade, MAIN CONTROL, V5.01																				
		<b>Adapter PCBs</b>																				
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-SP51A		PCB, Standard Adapter, w/ English LM, V5.01																				
1336T-GT3EN		Controlnet Adaptor board																				
		<b>Language Modules</b>																				
1336E-EN43		Language Module Kit, 1336E, English, V4.03																				
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																				

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

Level	Catalog Number	Description
	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
	<b>Gate Drive PCBs</b>	
	<b>T.G. Symbol -&gt; BASE DRV / POWER SUPPLY</b>	
	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
	<b>Bus Capacitors</b>	
	<b>T.G. Symbol -&gt; C1 - Cx or C1 - Cxx</b>	
	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)

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	125 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
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1	1											
		1										
				1	1	1						
							6	6	8			
										8	10	10

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

Level	Catalog Number	Description	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	125 HP	
Level 2		<b>Bus Fuses (also see Bus Fuse Upgrade Kits above)</b> <b>T.G. Symbol -&gt; F1</b>														
	1336-F1-SP18A	Bus Fuse, 200A, 1336STEF, 230V, 20-30HP					1	1	1							
	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											1	1	1	
Level 2		<b>Precharge PCBs</b> <b>T.G. Symbol -&gt; PRECHARGE</b>														
		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
Level 2		<b>Snubber PCBs</b> <b>T.G. Symbol -&gt; (SCR) SNUBBER BOARD</b>														
		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		<b>Rectifiers</b> <b>T.G. Symbol -&gt; BR1</b>														
		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						
			<b>Input SCRs</b> <b>T.G. Symbol -&gt; SCR1, SCR1 - SCR3</b>													
		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	

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

Level	Catalog Number	Description
Level 2	1336-SCR-SP9A	SCR, Assem. (CB), 1336STEF, 230V, 75 - 125 HP
		<b>Transistors / IGBTs</b>
		T.G. Symbol -> Q1 - Q3 or QI - Q6
	1336-QOUT-SP3A	TSTR, Assem., Output, 1336STF, 230V, 7.5 HP
	1336-QOUT-SP5A	TSTR, Assem., Output, 1336STF, 230V, 10 HP
	1336-QOUT-SP6A	TSTR, Assem., Output, 1336STEF, 230V, 15 HP
	1336-QOUT-SP8A	TSTR, Assem., Output, 1336STEF, 230V, 20 - 30 HP
	1336-QOUT-SP12B	TSTR, Assem., Output, 1336STEF, 230V, 40 HP
	1336-QOUT-SP13A	TSTR, Assem., Output, 1336STEF, 230V, 50 HP
	1336-QOUT-SP14A	TSTR, Assem., Output, 1336STEF, 230V, 60 HP
	1336-QOUT-SP18A	TSTR, Assem., Output, 1336STEF, 230V, 75 - 125 HP
Level 3		<b>Precharge Modules</b>
	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
	1336-QPRE-SP3A	TSTR, Precharge, 1336STE, 230V, 10 HP, Series A Obsolete, order 1336-CONV-SP12A Series A to C Conversion Kit
	1336-QPRE-SP4A	TSTR, Precharge, 1336STE, 230V, 15 HP, Series A Obsolete, order 1336-CONV-SP13A Series A to C Conversion Kit
		<b>Current Transducers</b>
		T.G. Symbol -> CT1, CT2
	1336-CT-SP1A	Current Transducer, 1336STEFR, Frame D
	1336-CT-SP2A	Current Transducer, 1336STEF, Frame E
		<b>Fans</b>
		T.G. Symbol -> FAN
	1336-FAN-SP1A	Fan, 1336STEF, Frame B & Frame C
	1336-FAN-SP8A	Fan, 1336STEF, Frames B&C, NEMA 4X
	1336-FAN-SP2A	Fan, 1336STEF, Frame D
	1336-FAN-SP3A	Fan, 1336STEF, Frame E
	1336-FAN-SP7A	Fan, 1336STEF, Frame A4, (AQF75 Stretch Frame only)
		<b>Inductors (SA)</b>
		T.G. Symbol -> L1
	1336-L-SP3A	Inductor, 1336ST, 230V, 7.5 HP, Series A & B
	1336-L-SP3C	Inductor, 1336STE, 230V, 7.5 HP, Series C & up 1336F, 230V, 7.5 HP, Series A & up
	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
	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
	1336-L-SP7A	Inductor, 1336STEF, 230V, 20 - 30 HP
1336-L-SP11A	Inductor, 1336STEF, 230V, 40 HP	
1336-L-SP12A	Inductor, 1336STEF, 230V, 50 HP	
1336-L-SP13A	Inductor, 1336STEF, 230V, 60 HP	

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												
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	125 HP
										1	1	1
	3											
		3										
			3									
				3	3	3						
							3					
								3				
									3			
										3	3	3
	1	1	1									
	1	1	1									
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			1									
			1									
				1	1	1						
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										1		

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

Level	Catalog Number	Description	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	125 HP
Level 3	1336-L-SP16A	Inductor, 1336STEF, 230V, 75 HP											1		
	1336-L-SP17A	Inductor, 1336STEF, 230V, 100 - 125 HP												1	1
		<b>Mounting Feet (1 pair)</b>													
	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	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											
		<b>Input MOVs - Stand Alone Only</b> <b>T.G. Symbol -&gt; MOV1</b>									1	1	1		
	1336-MOV-SP1A	MOV, 1336STEF, 230V, 40 - 60 HP												1	1
	1336-MOV-SP3A	MOV, 1336STEF, 230V, 75 - 125 HP												1	1
		<b>Resistors</b> <b>T.G. Symbol -&gt; R20 - R22</b>													
	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
		<b>Miscellaneous</b> <b>1/4 turn Standoffs, Screw Kits, and Ribbon Cables</b>													
	1336-STDOFF-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEF, used w/Gate Driver Bds					2	2	2	2	2	2			
		<b>Screw Kits</b>													
	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													
		<b>Cables</b>													
	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
		<b>Thermistors</b> <b>T.G. Symbol -&gt; ST or NTC1</b>													
	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
		<b>Transformers (Stand Alone Only)</b> <b>T.G. Symbol -&gt; T1</b>													
	1336-T-SP1A	XFER, 1336STEF, 230V, 40 - 60 HP									1	1	1		
	1336-T-SP3A	XFER, 1336STEF, 230V, 75 - 125 HP												1	1

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

		Quantity of Kits Required Per Drive																																					
		Frame B						Frame C						Frame D				Frame E		Frame F				Frame G				H											
Level	Catalog Number	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	600/650	700 HP	800 HP
		<p><b>Main Control PCBs</b>  <b>T.G. Symbol -&gt; MAIN CTL</b></p>																																					
	1336S-MCBMX3-SP1A	PCB, Main Control 1336S, Frames B-H, conformal coated																																					
	1336E-MCBMX3-SP2A	PCB, Main Control 1336E, 2.03 Firmware, Frames B-H conformal coated																																					
	1336E-MC1MX3-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames A1-A4 conformal coated																																					
	1336E-MC2MX3-SP43A	PCB, Main Control 1336E, w/ English LM, V4.03, Frames B-H conformal coated																																					
		<p><b>Logic PCBs for 1336S &amp; 1336F Main CTL PCBs</b>  <b>(consumable item - not repairable)</b></p>																																					
	1336-L4MX3	PCB, Logic, contact closure, conformal coated																																					
	1336-L5MX3	PCB, Logic, 24V AC/DC, conformal coated																																					
	1336-L6MX3	PCB, Logic, 115VAC, conformal coated																																					
		<p><b>Gate Drive PCBs CONFORMAL COATED</b>  <b>T.G. Symbol -&gt; BASE DRV / POWER SUPPLY, A1</b></p>																																					
		<p align="center"><b>460V</b></p>																																					
	1336-BDBMX3-SP3C	PCB, Gate Driver, 1336STE, 460V, 15 HP, Series C & up, 1336F, 460V, 15 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP14A	PCB, Gate Driver, 1336STE, 460V, 20 HP, Series C & up 1336F, 460V, 20 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP15A	PCB, Gate Driver, 1336STE, 460V, 25 HP, Series C & up 1336F, 460V, 25 HP, Series A and up. Conformal coated																																					
	1336-BDBMX3-SP16A	PCB, Gate Driver, 1336STE, 460V, 30 HP, Series C & up Conformal coated																																					
	1336-BDBMX3-SP57D	PCB, Gate Driver, 1336STEF, 460V, X40 HP Conformal coated																																					
	1336-BDBMX3-SP17D	PCB, Gate Driver, 1336STEF, 460V, 40 HP Conformal coated																																					
	1336-BDBMX3-SP18D	PCB, Gate Driver, 1336STEF, 460V, 50 HP Conformal coated																																					
	1336-BDBMX3-SP19D	PCB, Gate Driver, 1336STEF, 460V, X60 HP Conformal coated																																					
	1336-BDBMX3-SP56D	PCB, Gate Driver, 1336STEF, 460V, X150 HP Conformal coated																																					
	1336-BDBMX3-SP37D	PCB, Gate Driver, 1336STEF, 460V, 150 HP Conformal coated																																					
	1336-BDBMX3-SP39D	PCB, Gate Driver, 1336STEF, 460V, 250 HP Conformal coated																																					
	1336-BDBMX3-SP58A	PCB, Gate Driver, 1336STEF, 460V, 200 HP Conformal coated																																					
		<p align="center"><b>460V (650VDC) Common Bus</b></p>																																					
	1336-BDBMX3-SP63A	PCB, Gate Driver, 1336STEF, 460V, 600 HP, G-frame, Common Bus, Conformal coated																																					
		<p align="center"><b>575V</b></p>																																					
	1336-BDBMX3-SP60A	PCB, Gate Driver, 1336STE, 575V, 15 HP Conformal coated																																					
	1336-BDBMX3-SP24A	PCB, Gate Driver, 1336STEF, 575V, 60 HP [C060 is a C-frame] Conformal coated																																					
	1336-BDBMX3-SP61A	PCB, Gate Driver, 1336STEF, 575V, 75 HP Conformal coated																																					
	1336-BDBMX3-SP62A	PCB, Gate Driver, 1336STEF, 575V, 150 HP Conformal coated																																					
		<p><b>Precharge PCBs CONFORMAL COATED</b>  <b>T.G. Symbol -&gt; PRECHARGE</b></p>																																					
		<p align="center"><b>460V</b></p>																																					
	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																																					
		<p align="center"><b>460V (650VDC) Common Bus</b></p>																																					
	1336-PBMX3-SP10A	PCB, Precharge (CB), 1336STEF, 650VDC, 60 - 800 HP Conformal coated																																					
		<p align="center"><b>575V</b></p>																																					
	1336-PBMX3-SP10A	PCB, Precharge (SA), 1336STEF, 575V, 75 - 600 HP Conformal coated																																					



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

		Quantity of Kits Required Per Drive																																							
A		Frame B				Frame C				Frame D				Frame E		Frame F			Frame G				H																		
Level	Catalog Number	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	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP

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
		<b>Snubber PCBs CONFORMAL COATED</b> T.G. Symbol -> INVERTER & CONVERTER SNUBBER BDS
		<b>230V</b>
	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
		<b>460V</b>
	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
		<b>575V</b>
	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

230V D-frame										230V E-frame																													

460V D-frame										460V E-frame																													

575V D-frame										575V E-frame																													





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	
Level 1	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		
		<b>Gate Drive PCBs</b>		
		<b>T.G. Symbol -&gt; BASE DRV / POWER SUPPLY, A1</b>		
	1336-BDB-SP63A, C	Obsolete--replaced by 1336-BDB-SP63D		
	1336-BDB-SP63D	PCB, Gate Driver, 1336T, 460V, 1 HP, Ser C & Up		
	1336-BDB-SP64A, C	Obsolete--replaced by 1336-BDB-SP64D		
	1336-BDB-SP64D	PCB, Gate Driver, 1336T, 460V, 3 HP, Ser C & Up		
	1336-BDB-SP1A	Obsolete--replaced by 1336-CONV-SP1A (Ser A to Ser C)		
	1336-BDB-SP1C	Obsolete--replaced by 1336-BDB-SP1D		
	1336-BDB-SP1D	PCB, Gate Driver, 1336SF, 460V, 7.5 HP, Series C & up		
	1336-BDB-SP2A	Obsolete--replaced by 1336-CONV-SP2A (Ser A to Ser C)		
	1336-BDB-SP2C	Obsolete--replaced by 1336-BDB-SP2D		
	1336-BDB-SP2D	PCB, Gate Driver, 1336ST, 460V, 10 HP, Series C & up		
	1336-BDB-SP3A	Obsolete--replaced by 1336-CONV-SP3A (Ser A to Ser C)		
	1336-BDB-SP3C	Obsolete--replaced by 1336-BDB-SP3D		
	1336-BDB-SP3D	PCB, Gate Driver, 1336STE, 460V, 15 HP, Series C & up, 1336F, 460V, 15 HP, Series A and up.		
	1336-BDB-SP4A	Obsolete--replaced by 1336-CONV-SP4A (Ser A to Ser C)		
	1336-BDB-SP4C	Obsolete--replaced by 1336-BDB-SP4D		
	1336-BDB-SP4D	PCB, Gate Driver, 1336STE, 460V, 20 HP, Series C & up 1336F, 460V, 20 HP, Series A and up.		
	1336-BDB-SP5A	Obsolete--replaced by 1336-CONV-SP5A (Ser A to Ser C)		
	1336-BDB-SP5C	Obsolete--replaced by 1336-BDB-SP5D		
	1336-BDB-SP5D	PCB, Gate Driver, 1336STE, 460V, 25 HP, Series C & up 1336F, 460V, 25 HP, Series A and up.		
	1336-BDB-SP6A	Obsolete--replaced by 1336-CONV-SP6A (Ser A to Ser C)		
	1336-BDB-SP6C	Obsolete--replaced by 1336-BDB-SP6D		
	1336-BDB-SP6D	PCB, Gate Driver, 1336STE, 460V, 30 HP, Series C & up 1336F, 460V, 30 HP, Series A and up.		
	1336-BDB-SP57A, C	Obsolete--replaced by 1336-BDB-SP57D		
	1336-BDB-SP57D	PCB, Gate Driver, 1336STEF, 460V, X40 HP		
1336-BDB-SP17A, C	Obsolete--replaced by 1336-BDB-SP17D			
1336-BDB-SP17D	PCB, Gate Driver, 1336STEF, 460V, 40 HP			
1336-BDB-SP18A, C	Obsolete--replaced by 1336-BDB-SP18D			
1336-BDB-SP18D	PCB, Gate Driver, 1336STEF, 460V, 50 HP			
1336-BDB-SP19A, C	Obsolete--replaced by 1336-BDB-SP19D			
1336-BDB-SP19D	PCB, Gate Driver, 1336STEF, 460V, X60 HP			
1336-BDB-SP28A, C	Obsolete--replaced by 1336-BDB-SP28D			
1336-BDB-SP28D	PCB, Gate Driver, 1336STEF, 460V, 60 HP			
1336-BDB-SP29A, C	Obsolete--replaced by 1336-BDB-SP29D			
1336-BDB-SP29D	PCB, Gate Driver, 1336STEF, 460V, 75 HP			
1336-BDB-SP30A, C	Obsolete--replaced by 1336-BDB-SP30D			
1336-BDB-SP30D	PCB, Gate Driver, 1336STEF, 460V, 100 HP			
1336-BDB-SP31A, C	Obsolete--replaced by 1336-BDB-SP31D			
1336-BDB-SP31D	PCB, Gate Driver, 1336STEFR, 460V, 125 HP			
1336-BDB-SP56A, C	Obsolete--replaced by 1336-BDB-SP56D			
1336-BDB-SP56D	PCB, Gate Driver, 1336STEFR, 460V, X150 HP			
1336-BDB-SP37A, C	Obsolete--replaced by 1336-BDB-SP37D			
1336-BDB-SP37D	PCB, Gate Driver, 1336STEF, 460V, 150 HP			
1336-BDB-SP38A, C	Obsolete--replaced by 1336-BDB-SP38D			
1336-BDB-SP38D	PCB, Gate Driver, 1336STEF, 460V, 200 HP			
1336-BDB-SP39A, C	Obsolete--replaced by 1336-BDB-SP39D			

A		Quantity of Kits Required Per Drive																																		
		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	X250 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	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

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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
Level 1	1336-BDB-SP39D	PCB, Gate Driver, 1336STEF, 460V, 250 HP	
	1336-BDB-SP72A, C	Obsolete--replaced by 1336-BDB-SP72D	
	1336-BDB-SP72D	PCB, Gate Driver, 1336STEF, 460V, 250 HP, F-frame	
	1336-BDB-SP73A, C	Obsolete--replaced by 1336-BDB-SP73D	
	1336-BDB-SP73D	PCB, Gate Driver, 1336STEF, 460V, 300 HP, F-frame	
	1336-BDB-SP74A, C	Obsolete--replaced by 1336-BDB-SP74D	
	1336-BDB-SP74D	PCB, Gate Driver, 1336STEF, 460V, 350 HP, F-frame	
	1336-BDB-SP75A, C	Obsolete--replaced by 1336-BDB-SP74D	
	1336-BDB-SP75D	PCB, Gate Driver, 1336STEF, 460V, 400 HP, F-frame	
	1336-BDB-SP76A, C	Obsolete--replaced by 1336-BDB-SP76D	
	1336-BDB-SP76D	PCB, Gate Driver, 1336STEF, 460V, 450 HP, F-frame	
	1336-BDB-SP58A, C	Obsolete--replaced by 1336-BDB-SP58D	
	1336-BDB-SP58D	PCB, Gate Driver, 1336STEF, 460V, X250 HP, G-frame	
	1336-BDB-SP43A, C	Obsolete--replaced by 1336-BDB-SP43D	
	1336-BDB-SP43D	PCB, Gate Driver, 1336STEF, 460V, 300 HP, G-frame	
	1336-BDB-SP44A, C	Obsolete--replaced by 1336-BDB-SP44D	
	1336-BDB-SP44D	PCB, Gate Driver, 1336STEF, 460V, 350 HP, G-frame	
	1336-BDB-SP45A, C	Obsolete--replaced by 1336-BDB-SP45D	
	1336-BDB-SP45D	PCB, Gate Driver, 1336STEF, 460V, 400 HP, G-frame	
	1336-BDB-SP53A, C	Obsolete--replaced by 1336-BDB-SP53D	
	1336-BDB-SP53D	PCB, Gate Driver, 1336STEF, 460V, 450 HP, G-frame	
	1336-BDB-SP51A, C	Obsolete--replaced by 1336-BDB-SP51D	
	1336-BDB-SP51D	PCB, Gate Driver, 1336SF, 460V, 500 HP, G-frame	
	1336-BDB-SP59A, C	Obsolete--replaced by 1336-BDB-SP59D	
	1336-BDB-SP59D	PCB, Gate Driver, 1336TE, 460V, 500 HP, G-frame	
	1336-BDB-SP46A, C	Obsolete--replaced by 1336-BDB-SP46D	
	1336-BDB-SP46D	PCB, Gate Driver, 1336STEF, 460V, 600 HP, G-frame	
	1336-BDB-SP70A, C	Obsolete--replaced by 1336-BDB-SP70D	
	1336-BDB-SP70D	PCB, Gate Driver, 1336TE, 460V, 700 HP, H-frame	
	1336-BDB-SP69A, C	Obsolete--replaced by 1336-BDB-SP69D	
	1336-BDB-SP69D	PCB, Gate Driver, 1336TE, 460V, 800 HP, H-frame	
	1336-BDB-SP84D	PCB,GATE DRIVE,1336F,480V,500HP,J FRAME	
	1336-BDB-SP85D	PCB,GATE DRIVE,1336F,480V,600HP,J FRAME	
	1336R-BDB-SP2A	PCB, Gate Driver, 1336R, 460V, 48A	
		<b>Bus Capacitors</b> T.G. Symbol -> C1 - Cx or C1 - Cxx	
1336-CAP-SP1A	CAP, Assem., 1336STF, 460V, 7.5 - 10 HP [kit consists of 2-caps]		
1336-CAP-SP6A	CAP, Assem., 1336STEF, 460V, 15 - 20 HP [kit consists of 2-caps]		
1336-CAP-SP7A	CAP, Assem., 1336STEF, 460V, 25 - 30 HP		
1336-CAP-SP9A	CAP, Assem., 1336STEF, 460V, X40 - X60 HP [kit cons of 6-caps]		
1336-CAP-SP11A	CAP, Qty1, 1336STEFR, Frame D, 460 Volt		
1336-CAP-SP12A	CAP, Qty1, 1336STEF, 460V, 150 - 250 HP		
1336-CAP-SP14A	CAP, Qty1, 1336STEF, Frames G & H		
1336-CAP-SP15A	CAP, Qty1, 1336STEF, Frames F		
1336-CAP-SP17A	CAP, QTY 1,1336F,480V,J-FRAME		
	<b>Bus Fuses (also see Bus Fuse Upgrade Kits above)</b> T.G. Symbol -> F1		
1336-F1-SP1A	Obsolete, [150A, 700V, 5.09" x 1.09"], ==> use 1336-CONV-SP15A		
1336-F1-SP2A	Obsolete, [200A, 700V, 5.09" x 1.09"], ==> use 1336-CONV-SP16A		
1336-F1-SP3A	Obsolete, [250A, 700V, 5.09" x 1.09"], ==> use 1336-CONV-SP17A		
1336-F1-SP4A	Obsolete, [125A, 700V, 5.09" x 1.09"], ==> use 1336-CONV-SP14A		
1336-F1-SP5A	Obsolete, [175A, 700V, 5.09" x 1.09"], ==> use 1336-CONV-SP15A		
1336-F1-SP6A	Fuse, Bus, 1336STEF, Frame E [600A, 700V, 7.09" x 2.50"]		
1336-F1-SP15A	Obsolete, replaced by 1336-CONV-SP18A [drives manu'f before 2-1-2001]		
1336-F1-SP20B	Fuse, Bus, 1336STEF, 250-450 HP, [450A, 700V], [drives manu'f after 2-1-2001]		
1336-F1-SP8B	Fuse, Bus, 1336STEF, 460V, 400 - 800 HP [350A, 700V, 5.09" x 2.00"]		
1336-F1-SP18A	Fuse, Bus, 1336STEF, 460V, X040 - X060 HP [200A, 700V, 5.09"x1.50"]		
1336R-F1-SP2A	Fuse, Bus, 1336R, 78A, 460V [150A, 700V]		

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	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP							
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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
	1336-QOUT-SP6A	TSTR, Assem., Output, 1336STEF, 460V, 25 - 30 HP
	1336-QOUT-SP8A	TSTR, Assem., Output, 1336STEF, 460V, X40 - X60 HP
	1336-QOUT-SP12A	TSTR, Assem., Output, 1336STE, 460V, 60-75 HP Series A 2 / kit
	1336-QOUT-SP12B	TSTR, Assem., Output, 1336STEF, 460V, 60-75HP Series B and Up 2 / kit
	1336-QOUT-SP13A	TSTR, Assem., Output, 1336STEF, 460V, 100 HP
	1336-QOUT-SP14A	TSTR, Assem., Output, 1336STEFR, 460V, 125 - X150 HP
	1336-QOUT-SP18A	TSTR, Assem., Output, 1336STEF, 460V, Frame E, 2 / Kit kit includes--qty 2--Gate Interface Bds (A23 - A28)
	1336-QOUT-SP25A	TSTR, Assem., Output, 1336STEF, 460V, Frame F, 2 / Kit kit includes--qty 2--Gate Interface Bds (A23 - A28)
	1336-QOUT-SP20A	TSTR, Assem., Output, 1336STEF, 460V, X250-350 HP, 4 / kit includes--qty2--Gate Interface Bds (A23 - A28)
	1336-QOUT-SP21A	TSTR, Assem., Output, 1336STEF, 460V, 400-800 HP, 4 / kit includes--qty2--Gate Interface Bds (A23 - A28)
	1336-QOUT-SP29A	<b>TSTR, ASSY, OUTPUT, 1336STEF, 480V, J- FRAME, 2/KIT</b>
	<b>Precharge Modules</b> <b>T.G. Symbol -&gt; PCMODULE</b>	
	1336-QPRE-SP1A	1336STE, 460V, 7.5-15 HP, Ser A & B-order ser C conversion kit, 1336-CONV-SPxA
	1336-QPRE-SP1C	TSTR, Precharge, 1336STE, 460V, 7.5 - 30 HP, Series C & up 1336F, 460V, 15-30 HP
	1336-QPRE-SP3A	1336STE, 460V, 20-30 HP, Ser A & B-order ser C conversion kit 1336-CONV-SPxA
	1336-QPRE-SP5A	SCR, Precharge, (CB) 1336STEF, 460V, X40-X60 hp
	<b>Current Transducers</b> <b>T.G. Symbol -&gt; CT1, CT2</b>	
	1336-CT-SP1A	Current Transducer, 1336STEFR, Frame D
	1336-CT-SP2A	Current Transducer, 1336STEF, Frame E
	1336-CT-SP4A	Current Transducer, 1336STEF, Frame F
	1336-CT-SP3A	Current Transducer, 1336STEF, Frames G, H
	1336-CT-SP5A	<b>CURRENT TRANSDUCER,1336F,(CB) J-FRAME, 800A</b>
	1336-CT-SP6A	<b>CURRENT TRANSDUCER,1336F,(CB) J-FRAME, 900A</b>
	1336-CT-SP7A	<b>CURRENT TRANSDUCER,1336F,(CB) J-FRAME, 1000A</b>
	1336-CT-SP4A	<b>CURRENT TRANSDUCER,1336STE,FRAME F, J-FRAME 500-600HP</b>
	<b>Fans</b> <b>T.G. Symbol -&gt; FAN</b>	
	1336-FAN-SP1A	Fan, 1336STEF, Frame B & Frame C
	1336-FAN-SP8A	Fan, 1336STEF, Frames B&C, NEMA 4X
	1336-FAN-SP2A	Fan, 1336STEFR, Frame D ( includes CHB1 Fan Capacitor )
	1336-FAN-SP3A	Fan, 1336STEF, Frame E ( includes CHB1 Fan Capacitor )
	1336-FAN-SP6A	Obsolete, replaced by 1336-FAN-SP6B
	1336-FAN-SP6B	Fan, 1336STEF, Frame F ( includes C-HB1 Fan Capacitor )
	1336-FAN-SP4A	Obsolete, replaced by 1336-FAN-SP4B
	1336-FAN-SP4B	Fan, Heatsink Bottom, 1336STEF, Frames G, H, (FAN 1), includes C-HB1 Cap
	1336-FAN-SP5A	Fan, Heatsink Side, 1336STEF, Frames G, H, (FAN 2), includes C-HB1 Cap.
	1336-FAN-SP7A	Fan, 1336STEF, Frame A4 only, BRF75 - 200; includes grill mounting screws
	1336-FAN-SP9A	Fan, Converter, 1336E, Frame H
	1336-FAN-SP10A	<b>FAN,1336F,J-FRAME</b>
	<b>Ground Fault Transformers</b> <b>T.G. Symbol -&gt; CT3</b>	
	1336-GF-SP1A	Current Transformer, Ground Fault, 1336STEF, Frame C
	1336-GF-SP2A	Current Transformer, Ground Fault, 1336STEFR, Frame D
	1336-GF-SP3A	Current Transformer, Ground Fault, 1336STEF, Frame E
	1336-GF-SP6A	Current Transformer, Ground Fault, 1336STEF, Frame F
	1336-GF-SP4A	Current Transformer, Ground Fault, (SA) 1336STEF, Frames G
	1336-GF-SP5A	Current Transformer, Ground Fault, (CB) 1336STEF, Frames G & H
	1336-GF-SP6A	<b>GROUND FAULT TRANSFORMER,1336STE,F FRAME, J-FRAME 500-600HP</b>
	<b>Inductors (SA)</b> <b>T.G. Symbol -&gt; L1</b>	
	1336-L-SP5A	Inductor, 1336STE, 460V, 25 HP, Series A & B ==> replaced by 1336-CONV-

		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	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP			
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		1	1	1	1	1	1																															









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

Revised: 5/25/2007

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
no 'Level' rating for these items		<b>Series C Conversion Kit (includes Gate Drive PCB, Inductor and Precharge SCR)</b>
	1336-CONV-SP7A	Series A / B to Series C Upgrade Kit, 1336ST, 575V, 7.5 HP
	1336-CONV-SP8A	Series A / B to Series C Upgrade Kit, 1336ST, 575V, 10 HP
	1336-CONV-SP9A	Series A / B to Series C Upgrade Kit, 1336STE, 575V, 15 HP
	1336-CONV-SP10A	Series A / B to Series C Upgrade Kit, 1336STE, 575V, 20 HP
		<b>Bus Fuse Upgrade Kits - D Frame</b>
	1336-CONV-SP14A	Bus Fuse Upgrade Kits , 1336STE, 200 A, 575V, 75HP
	1336-CONV-SP15A	Bus Fuse Upgrade Kits, 1336STE, 250A
	1336-CONV-SP16A	Bus Fuse Upgrade Kits , 1336STE, 300A, 575V, 125HP
		<b>Bus Fuse Upgrade Kits - F Frame</b>
1336-CONV-SP18A	F-Frame Bus Fuse Upgrade Kits , 1336FTE, 450A, 575V, 350-400 HP <b>NOTE: kit includes CF4, CF5, and D1 -- All Necessary Bus Bars Are Included</b>	
1336-CONVCF-SP2A	Series E Front End Conversion Kit for C-frame, 1336STEF, 575V	
1336F-UPGRA11	Main Control Bd, HAS2, and decal, A Frames, Latest FRN	
1336F-UPGRB11	Main Control Bd, HAS2, and decal, Frames B-G, Latest FRN	
		<b>Main Control PCBs</b>
1336S-MCB-SP1B	PCB, Main Control 1336S, Frames B-H	
1336S-MCB-SP2B	PCB, Main Control 1336S, Frames A1-A4	
1336F-MCB-SP1M	PCB, Main Control 1336F, Frames B-G Latest FRN, Supersedes 1336F-MCB-SP1A through SP1L	
1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A through SP2L	
		<b>1336F FLASH FILES</b>
1336F-FRN	1336 PLUS II, Latest FIRMWARE	
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-SP51B	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	
		<b>Adapter PCBs</b>
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	

		Quantity of Kits Required Per Drive																												
		Frame B				Frame C					Frame D			Frame E			F		Frame G					H						
		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		
no 'Level' rating for these items	0.5-20 HP																													
	7.5 HP	1																												
	10 HP		1																											
	15 HP			1																										
	20 HP				1																									
	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	1336F-UPGRA11																													
	1336F-UPGRB11		X	X	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	
	1336S-MCB-SP1B																													
	1336S-MCB-SP2B																													
	1336F-MCB-SP1M		X	X	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	
	1336F-MCB-SP2M																													
	1336F-FRN		X	X	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	
	1336T-MCB-SP34B																													
	1336T-MCB-SPM34B																													
	1336T-MCB-SPS34B																													
1336T-MCB-SP51B																														
1336T-MCB-UPGRAD																														
1336E-MCB-4UPGRD																														
1336E-MCB-SP1A																														
1336E-MCB-SP2A																														
1336E-MC1-SP21A, B																														
1336E-MC2-SP21A, B																														
1336E-MC1-SP23A																														
1336E-MC2-SP23A		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	
1336E-MC1-SP31A																														
1336E-MC1-SP31B																														
1336E-MC2-SP31A																														
1336E-MC2-SP31B		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	
1336E-MC1-SP42A																														
1336E-MC2-SP42A		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	
1336E-MC1-SP43A																														
1336E-MC2-SP43A		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	
1336T-GT1-SP34B																														
1336T-GT1-SP51A																														
1336T-GT1-UPGRAD																														

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

Revised: 5/25/2007

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
Level 1	1336T-GT2-SP42B	PCB, Standard Adapter, Series B, V4.02	
	1336T-GT2-SP51A	PCB, Standard Adapter, w/ English LM, V5.01	
	1336T-GT3EN	Controlnet Adaptor board	
		<b>Language Modules</b>	
	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	
	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	
		<b>Gate Drive PCBs</b>	
1336-BDB-SP65A, C	Obsolete--replaced by 1336-BDB-SP65D		
1336-BDB-SP65D	PCB, Gate Driver, 1336T, 575V, 1 HP, Ser C & Up		
1336-BDB-SP66A, C	Obsolete--replaced by 1336-BDB-SP66D		
1336-BDB-SP66D	PCB, Gate Driver, 1336T, 575V, 3HP, Ser C & Up		
1336-BDB-SP7A	Obsolete--replaced by 1336-CONV-SP7A (Ser A to Ser C)		
1336-BDB-SP7C	Obsolete--replaced by 1336-BDB-SP7D		
1336-BDB-SP7D	PCB, Gate Driver, 1336ST, 575V, 7.5 HP, Series C & up		
1336-BDB-SP8A	Obsolete--replaced by 1336-CONV-SP8A (Ser A to Ser C)		
1336-BDB-SP8C	Obsolete--replaced by 1336-BDB-SP8D		
1336-BDB-SP8D	PCB, Gate Drive 1336ST, 575V, 10 HP, Series C & up		
1336-BDB-SP9A	Obsolete--replaced by 1336-CONV-SP9A (Ser A to Ser C)		
1336-BDB-SP9C	Obsolete--replaced by 1336-BDB-SP9D		
1336-BDB-SP9D	PCB, Gate Drive 1336STE, 575V, 15 HP, Series C & up		
1336-BDB-SP10A	Obsolete--replaced by 1336-CONV-SP10A (Ser A to Ser C)		
1336-BDB-SP10C	Obsolete--replaced by 1336-BDB-SP10D		
1336-BDB-SP10D	PCB, Gate Driver, 1336STE, 575V, 20 HP, Series C & up		
1336-BDB-SP20A,C	Obsolete--replaced by 1336-BDB-SP20F		
1336-BDB-SP20D	PCB, Gate Driver, 1336STEF, 575V, 25 HP		
1336-BDB-SP21A, C	Obsolete--replaced by 1336-BDB-SP21D		
1336-BDB-SP21D	PCB, Gate Driver, 1336STEF, 575V, 30 HP		
1336-BDB-SP22A, C	Obsolete--replaced by 1336-BDB-SP22D		
1336-BDB-SP22D	PCB, Gate Driver, 1336STEF, 575V, 40 HP		
1336-BDB-SP23A, C	Obsolete--replaced by 1336-BDB-SP23D		
1336-BDB-SP23D	PCB, Gate Driver, 1336STEF, 575V, 50 HP		
1336-BDB-SP24A, C	Obsolete--replaced by 1336-BDB-SP24D		
1336-BDB-SP24D	PCB, Gate Driver, 1336STEF, 575V, 60 HP		
1336-BDB-SP32A, C	Obsolete--replaced by 1336-BDB-SP32D		
1336-BDB-SP32D	PCB, Gate Driver, 1336STEF, 575V, 75 HP		
1336-BDB-SP33A, C	Obsolete--replaced by 1336-BDB-SP33D		
1336-BDB-SP33D	PCB, Gate Driver, 1336STEF, 575V, 100 HP		
1336-BDB-SP34A, C	Obsolete--replaced by 1336-BDB-SP34D		
1336-BDB-SP34D	PCB, Gate Driver, 1336STEF, 575V, 125 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	1	1	1	1	1	1	1	1

1	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	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
Check Hub stock for this spare part																											
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	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

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

Revised: 5/25/2007

Level	Catalog Number	Description
	1336-F1-SP16A	Fuse, Bus, 1336STEF, 575V, 25HP [100A, 700V, 4.87" x 1.00"]
	1336-F1-SP17A	Fuse, Bus, 1336STEF, 575V, 30 - 40 HP [125A, 700V, 5.09" x 1.50"]
	1336-F1-SP18A	Fuse, Bus, 1336STEF, 575V, 50 - 60 HP [200A, 700V, 5.09"x1.50"]
		<b>Input Line Fuses</b> T.G. Symbol -> CF1 - CF3
	1336-F2-SP5A	Fuse, Line, 1336TEF, A70QS450, 575V, 350 HP, F Frame, 3/Kit
	1336-F2-SP6A	Fuse, Line, 1336TEF, A70QS500, 575V, 400 HP, F Frame, 3/Kit
		<b>Precharge PCBs</b> 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)
		<b>Snubber PCBs</b>
	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 manuf 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)
		<b>Bridge Rectifiers</b> 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 manuf before 8-4-2000)
	1336-BR-SP10A	Rect, Bridge, SCR, 1336STE Series C, 1336F Series B, 575V, 25 - 60 HP (C025-C060 drives manuf after 8-4-2000)
	1336-BR-SP8A	Rect, Bridge, Diode (CB), 1336STEF, 575V, 300 - 800 HP
		<b>Input SCRs</b> T.G. Symbol -> SCR1, SCR1 - SCR3
	1336-SCR-SP2A	SCR, Assem (SA), 1336STEF, 575V, 75 - 125 HP
	1336-SCR-SP4A	SCR, Assem (CB), 1336STEF, 575V, 75 - 100 HP
	1336-SCR-SP6A	SCR, Assem (CB), 1336STEF, 575V, 125 HP
	1336-SCR-SP8A	SCR, Input (SA), 1336STEF, 575V, 150 - 300 HP
	1336-SCR-SP10A	SCR, Input (CB), 1336STEF, 575V, 150 - 300 HP
	1336-SCR-SP16A	SCR, Input (SA), 1336TEF, 575V, Frame F, 1 / Kit
	1336-SCR-SP17A	SCR, Input (CB), 1336TEF 460V, F-Frame
	1336-SCR-SP12A	SCR, Input (SA), 1336STEF, 575V, 300 - 650 HP (2 / Kit)
	1336-SCR-SP14A	SCR, Input (CB), 1336STEF 575V, 300 - 650 HP
		<b>Transistors / IGBTs</b> T.G. Symbol -> Q1 - Q3 or QI - Q6
	1336-QOUT-SP2A	TSTR, Assem, Output, 1336STE, 575V, 7.5 - 15 HP, Series A

Level	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
																						2	2	2	2	2	2	2	2
																						3	3	3	3	3	3	3	3
							1	1	1																				
								1																					



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

Revised: 5/25/2007

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	
Level 3	1336-L-SP3C	Inductor, 1336STE, 575V, 15 HP, Series C & up	
	1336-L-SP4A	Inductor, 1336STE, 575V, 20 HP, Series A & B ===> Obsolete--replaced by 1336-CONV-SP10A Conversion Kit	
	1336-L-SP4C	Inductor, 1336STE, 575V, 20 HP	
	1336-L-SP7A	Inductor, 1336STEF, 575V, 50 - 60 HP	
	1336-L-SP8A	Inductor, 1336STEF, 575V, 25 HP	
	1336-L-SP9A	Inductor, 1336STEF, 575V, 30 HP	
	1336-L-SP10A	Inductor, 1336STEF, 575V, 40 HP	
	1336-L-SP11A	Inductor, 1336STEF, 575V, 100 HP	
	1336-L-SP12A	Inductor, 1336STEF, 575V, 125 HP	
	1336-L-SP15A	Inductor, 1336STEF, 575V, 75 HP	
	1336-L-SP18A	Inductor, 1336STEF, 575V, 150 HP	
	1336-L-SP19A	Inductor, 1336STEF, 575V, 200 - 300 HP	
	1336-L-SP26A	Inductor, 1336TEF, 575V, Frame F	
	1336-L-SP23A	Inductor, 1336STEF, 575V, 300 - 350 HP, Frame G	
	1336-L-SP24A	Inductor, 1336STEF, 575V, 400 - 450 HP, Frame G	
	1336-L-SP25A	Inductor, 1336STEF, 575V, 500 - 800 HP, Frame G & H	
		<b>Mounting Feet (1 Pair)</b>	
		1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (CWF10, 20, 30, 50, 75, 100, 150, and 200) (There are no 575V-A1, A2, or A3 frame drives)
		1336-FEET-SP2A	Kit, Mounting Feet, 1336STEF, Frame C
		1336-FEET-SP3A	Kit, Mounting Feet, 1336STEF, Frame D
		1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E
		<b>Input MOVs - Stand Alone Only</b>	
		<b>T.G. Symbol -&gt; MOV1</b>	
		1336-MOV-SP2A	MOV, 1336STEF, 575V, 75 - 125 HP, Frame D
		1336-MOV-SP4A	MOV, 1336STEF, 575V, 150 - 250 HP, Frame E
	1336-MOV-SP8A	MOV, 1336TEF, 575V, Frame F	
	1336-MOV-SP6A	MOV, 1336STEF, 575V, 300 - 800 HP, Frame G & H	
	<b>Power Module Snubber Resistors</b>		
	<b>T.G. Symbol -&gt; R20 - R22, R20 - R25</b>		
	1336-R1-SP1A	Snubber Resistor, 1336STEFR	
	1336-R1-SP2A	Snubber Resistor, 1336STEF	
	1336-R1-SP4B	Snubber Resistor, Inverter, 1336TEF, Frame F, (R20 - R25)	
	1336-R1-SP5A	Snubber Resistor, Converter, 1336TEF, Frame F, (R11 - R13)	
	1336-R1-SP3A	Snubber Resistor, 1336STEF, Frame G, (R20 - R25)	
	<b>Common Bus Pre-Charge Resistors</b>		
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 575V, 125 HP,	
	1336-R2-SP3A	Resistor, Precharge (CB), 1336STEF, 575V, 75 - 100 HP	
	1336-R2-SP5A	Resistor, Precharge (CB), 1336STEF, Frames G, H (1/Kit)	
	<b>Load Resistors T.G. Symbol -&gt; R1, R2, R3</b>		
	1336-RLOAD-SP2A	Resistor, Load, 1336STE, 1336STE, 575V, 7.5 - 60 HP, (Qty. 2 required)	
	1336-RLOAD-SP3A	Resistor, Load, 1336STEF, 575V, 75 - 100 HP, (R1 - R2)	
	1336-RLOAD-SP4A	Resistor, Load, 1336STEF, 575V, 125 HP (R1 - R2 - R3)	
	1336-RLOAD-SP5A	Resistor, Load, 1336STEF, 575V, 150 - 300 HP ( drives mfg prior to Nov 2003 or after May 2004 )	
	1336-RLOAD-SP5D	Resistor Assy, Load, 1336STEF, 575V, 150 - 300 HP ( drives mfg Nov 2003 thru May 2004 )	
	1336-RLOAD-SP7A	Resistor, Load, 1336STEF, 575V, Frame F ( R1 )	
	1336-RLOAD-SP6A	Resistor, Load, 1336STEF, 575V, Frames G & H (R1 - R9)	
	<b>Miscellaneous</b>		
	<b>1/4 turn Standoffs, Screw Kits, and Ribbon Cables</b>		

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



