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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)

1336 -- **BDB** -- **SP1** -- **A**

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	
	1336-CONV-SP12A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 10 HP	
	1336-CONV-SP13A	Series A or B to C Upgrade Kit, 1336STEF, 230V, 15 HP	
		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	
	1336-CONV-SP16A	Bus Fuse and Busbar Upgrade Kits, STEF, 300A, 230V, 50 HP	
	1336-CONV-SP17A	Bus Fuse and Busbar Upgrade Kits, STEF, 350A, 230V, 60 HP	
		Plus to PlusII Upgrade Kit	
	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		
Le		Main Control PCBs T.G. Symbol -> MAIN CTL	
	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-L	
	1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A-L	

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
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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	

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		
7.5-10 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
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										1	1	1

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

Level	Catalog Number	Description
Level 3		Miscellaneous 1/4 turn Standoffs, Screw Kits, and Ribbon Cables
	1336-STD0FF-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEFRR, used w/Gate Driver Bds
		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
		Thermistors T.G. Symbol -> ST or NTC1
	1336-TR-SP1A	Kit, Thermistor, 1336STEF, Frame B
	1336-TR-SP2A	Kit, Thermistor, 1336STEF, Frame C
	1336-TR-SP3A	Kit, Thermistor, 1336STEF, Frame D
	1336-TR-SP4A	Kit, Thermistor, 1336STEF, Frame E
	Transformers (Stand Alone Only) T.G. Symbol -> T1	
1336-T-SP1A	XFER, 1336STEF, 230V, 40 - 60 HP	
1336-T-SP3A	XFER, 1336STEF, 230V, 75 - 125 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
				2	2	2	2	2	2			
1	1	1	1	1	1	1	1	1	1	1	1	1
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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	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
	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	

460V																											
[Grid for 460V kits]																											
460V (650VDC) Common Bus																											
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575V																											
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230V D-frame														230V E-frame													
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460V D-frame														460V E-frame													
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575V D-frame														575V E-frame													
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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
no 'Level' rating for these items	Series C Conversion Kit (includes Gate Drive PCB, Inductor and Precharge SCR)		
	1336-CONV-SP1A	Series A / B to Series C Upgrade Kit, 1336ST, 460V, 7.5 HP	
	1336-CONV-SP2A	Series A / B to Series C Upgrade Kit, 1336ST, 460V, 10 HP	
	1336-CONV-SP3A	Series A / B to Series C Upgrade Kit, 1336STE, 460V, 15 HP	
	1336-CONV-SP4A	Series A / B to Series C Upgrade Kit, 1336STE, 460V, 20 HP	
	1336-CONV-SP5A	Series A / B to Series C Upgrade Kit, 1336STE, 460V, 25 HP	
	1336-CONV-SP6A	Series A / B to Series C Upgrade Kit, 1336STE, 460V, 30 HP	
	Bus Fuse Upgrade Kits - D Frame		
	1336-CONV-SP14A	Bus Fuse Upgrade Kits, 1336STE, 200A, 460V, 60 HP	
	1336-CONV-SP15A	Bus Fuse Upgrade Kits, 1336STE, 250A, 460V, 75 HP	
	1336-CONV-SP16A	Bus Fuse Upgrade Kits, 1336STE, 300A, 460V, 100HP	
	1336-CONV-SP17A	Bus Fuse Upgrade Kits, 1336STE, 350A, 460V, 125 & X150 HP	
	Bus Fuse Upgrade Kits - F Frame		
	1336-CONV-SP18A	Bus Fuse Upgrade Kits , 1336SFTE, 450A, 575V, 350-400 HP NOTE: kit includes CF4, CF5, and D1 -- All Necessary Bus Bars Are Included	
	C-Frame Front End Conversion Kit		
	1336-CONVCF-SP1B	Series E Front End Conversion Kit for C-frame, 1336STEF, 460V	
	Plus to PlusII Upgrade Kit		
	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		
Main Control PCBs T.G. Symbol -> MAIN CTL			
1336S-MCB-SP1B	PCB, Main Control 1336S, Frames B-G		
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-L		
1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A-L		
1336F FLASH FILES			
1336F-FRN	1336 PLUS II, Latest FIRMWARE		

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
	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 '1336SENA4' 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	38A	40 HP	40 HP	50 HP	60 HP	75 HP	100 HP	125 HP	150 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			
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	X	1	1	1	1	1	1	1	1	1				
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1			
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1	1		
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	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		
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	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	
X	X	1	1	1	1	1	X	1	1	1	1	X	1	1	1	1	X	1	1	1	X	1	1	1	1	X	1	1	1	1	1	1	1	1	1	1	1	1	

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
		Gate Drive PCBs
		T.G. Symbol -> BASE DRV / POWER SUPPLY, A1
Level 1	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, 1336STEF, 460V, 125 HP
	1336-BDB-SP56A, C	Obsolete--replaced by 1336-BDB-SP56D
	1336-BDB-SP56D	PCB, Gate Driver, 1336STEF, 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
	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

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						
	1																																								

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
		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 manuf <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	

		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	40 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

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

Level	Catalog Number	Description	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				
Level 3	Ground Fault Transformers																																									
	T.G. Symbol -> CT3																																									
		1336-GF-SP1A	Current Transformer, Ground Fault, 1336STEF, Frame C								1	1	1	1																												
		1336-GF-SP2A	Current Transformer, Ground Fault, 1336STEF, Frame D													1	1	1	1	1	1																					
		1336-GF-SP3A	Current Transformer, Ground Fault, 1336STEF, Frame E																					1	1	1																
		1336-GF-SP6A	Current Transformer, Ground Fault, 1336STEF, Frame F																								1	1	1	1	1											
		1336-GF-SP4A	Current Transformer, Ground Fault, (SA) 1336STEF, Frames G																														1	1	1	1	1	1	1			
		1336-GF-SP5A	Current Transformer, Ground Fault, (CB) 1336STEF, Frames G & H																														1	1	1	1	1	1	1	1	1	
	Inductors (SA)																																									
	T.G. Symbol -> L1																																									
		1336-L-SP5A	Inductor, 1336STE, 460V, 25 HP, Series A & B ==> replaced by 1336-CONV-																																							
		1336-L-SP5C	Inductor, 1336STEF, 460V, 25 HP		1																																					
		1336-L-SP6A	Inductor, 1336STE, 460V, 30 HP, Series A & B ==> replaced by 1336-CONV-			1																																				
		1336-L-SP6C	Inductor, 1336STEF, 460V, 30 HP						1																																	
		1336-L-SP7A	Inductor, 1336STEF, 460V, X40 - X60 HP								1	1	1	1																												
		1336-L-SP11A	Inductor, 1336STEF, 460V, 75 HP,															1																								
		1336-L-SP12A	Inductor, 1336STEF, 460V, 100 HP																1																							
		1336-L-SP13A	Inductor, 1336STEF, 460V, 125 - X150 HP																	1	1																					
		1336-L-SP14A	Inductor, 1336STEF, 460V, 60 HP														1																									
		1336-L-SP16A	Inductor, 1336STEF, 460V, 150 HP																																							
	1336-L-SP17A	Inductor, 1336STEF, 460V, 200 - 250 HP																						1																		
	1336-L-SP26A	Inductor, 1336STEF, 460V, Frame F																									1	1	1	1	1											
	1336-L-SP20A	Inductor, 1336STEF, 460V, X250 - 350 HP																																								
	1336-L-SP21A	Inductor, 1336STEF, 460V, 400 - 450 HP																																								
	1336-L-SP22A	Inductor, 1336STEF, 460V, 500 - 800 HP																																					1	1	1	1
Mounting Feet (1 Pair)																																										
	1336-FEET-SP7A	Kit, Mounting Feet, 1336STEF, Frame A1 (BRF05 - 15)																																								
	1336-FEET-SP8A	Kit, Mounting Feet, 1336STEF, Frame A2 (BRF20, 30)	1																																							
	1336-FEET-SP5A	Kit, Mounting Feet, 1336STEF, Frame A3 (BRF50)	1																																							
	1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (BRF75, 100, 150, 200)	1																																							
	1336-FEET-SP1A	Kit, Mounting Feet, 1336STEF, Frame B		1	1	1	1	1	1																																	
	1336-FEET-SP2A	Kit, Mounting Feet, 1336STEF, Frame C										1	1	1	1																											
	1336-FEET-SP3A	Kit, Mounting Feet, 1336STEF, Frame D															1	1	1	1	1																					
	1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E																								1	1	1														
Input MOVs - Stand Alone Only																																										
T.G. Symbol -> MOV1																																										
	1336-MOV-SP1A	MOV, 1336STEF, 460V, 60-125 - X150 HP																																								
	1336-MOV-SP3A	MOV, 1336STEF, 460V, 150 - 250 HP																																								
	1336-MOV-SP7A	MOV, 1336STEF, Frame F																										1	1	1	1	1										
	1336-MOV-SP5A	MOV, 1336STEF, 460V, X250 - 800 HP																																								
Power Module Snubber Resistors																																										
T.G. Symbol -> R20 - R22, R20 - R25																																										
	1336-R1-SP1A	Snubber Resistor, 1336STEF, Frame D (R20 - R22)																																								
	1336-R1-SP2A	Snubber Resistor, 1336STEF, Frame E (R20 - R22)																																								
	1336-R1-SP4B	Snubber Resistor, Inverter, 1336STEF, Frame F (R20-R25)																																								
	1336-R1-SP5A	Snubber Resistor, Converter, 1336STEF, Frame F (R11-R13)																																								
	1336-R1-SP3A	Snubber Resistor, 1336STEF, Frame G (R20-R25)																																								
Common Bus Pre-Charge Resistors																																										
	1336-R2-SP1A	Resistor, Precharge (CB), 1336STEF, 460V, 100 - 125 HP																																								
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 460V, 60 - 75 HP																																								
	1336-R2-SP4A	Resistor, Precharge (CB), 1336STEF, 460V, 200 HP,																																								
	1336-R2-SP5A	Resistor, Precharge (CB), 1336STEF, Frames G, H (1/Kit)																																								

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

Revised: 5/25/2007

		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
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		Series C Conversion Kit (includes Gate Drive PCB, Inductor and Precharge SCR)																										
		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																										
			Bus Fuse Upgrade Kits - D Frame																										
		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																										
			Bus Fuse Upgrade Kits - F Frame																										
		1336-CONV-SP18A	F-Frame Bus Fuse Upgrade Kits, 1336FTE, 450A, 575V, 350-400 HP NOTE: kit includes CF4, CF5, and D1 -- All Necessary Bus Bars Are Included																										
		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																											
		Main Control PCBs																											
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-L																												
1336F-MCB-SP2M	PCB, Main Control 1336F, A Frames, Latest FRN, Supersedes 1336F-MCB-SP2A-L																												
	1336F FLASH FILES																												
1336F-FRN	1336 PLUS II, Latest FIRMWARE																												

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

Revised: 5/25/2007

		Quantity of Kits Required Per Drive																														
		A	Frame B				Frame C				Frame D		Frame E		F	Frame G				H												
Level	Catalog Number	Description	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 2		Input SCRs T.G. Symbol -> SCR1, SCR1 - SCR3												3	3	3																
	1336-SCR-SP2A	SCR, Assem (SA), 1336STEF, 575V, 75 - 125 HP												1	1																	
	1336-SCR-SP4A	SCR, Assem (CB), 1336STEF, 575V, 75 - 100 HP														1																
	1336-SCR-SP6A	SCR, Assem (CB), 1336STEF, 575V, 125 HP															1															
	1336-SCR-SP8A	SCR, Input (SA), 1336STEF, 575V, 150 - 300 HP																3	3	3	3											
	1336-SCR-SP10A	SCR, Input (CB), 1336STEF, 575V, 150 - 300 HP																1	1	1	1											
	1336-SCR-SP16A	SCR, Input (SA), 1336TEF, 575V, Frame F, 1 / Kit																				3	3									
	1336-SCR-SP17A	SCR, Input (CB), 1336TEF 460V, F-Frame																				1	1									
	1336-SCR-SP12A	SCR, Input (SA), 1336STEF, 575V, 300 - 800 HP (2 / Kit)																						3	3	3	3	3	3	3	3	3
	1336-SCR-SP14A	SCR, Input (CB), 1336STEF 575V, 300 - 800 HP																					1	1	1	1	1	1	1	1	1	1
			Transistors / IGBTs T.G. Symbol -> Q1 - Q3 or Q1 - Q6																													
	1336-QOUT-SP2A	TSTR, Assem, Output, 1336STE, 575V, 7.5 - 15 HP, Series A		3	3	3																										
	1336-QOUT-SP7A	TSTR, Assem, Output, 1336STE, 575V, 20 HP					3																									
	1336-QOUT-SP9A	TSTR, Assem, Output, 1336STEF, 575V, 25 HP						3																								
1336-QOUT-SP10A	TSTR, Assem, Output, 1336STEF, 575V, 30 - 40 HP							3	3																							
1336-QOUT-SP11A	TSTR, Assem, Output, 1336STEF, 575V, 50 - 60 HP									3	3																					
1336-QOUT-SP15A	TSTR, Assem, Output, 1336STEF, 575V, 75 HP											3																				
1336-QOUT-SP16A	TSTR, Assem, Output, 1336STEF, 575V, 100 HP												3																			
1336-QOUT-SP17A	TSTR, Assem, Output, 1336STEF, 575V, 125 HP													3																		
1336-QOUT-SP19A	TSTR, Assem, Output, 1336STEF, 575V, 150 - 300 HP														3	3	3	3														
1336-QOUT-SP26A	TSTR, Assem, Output, 1336TEF, 575V, 350 - 450 HP, 2 transistors / kit																			3	3											
1336-QOUT-SP22A	TSTR, Assem, Output, 1336STEF, 575V, 300 - 350 HP, 4 transistors / kit																					3	3									
1336-QOUT-SP23A	TSTR, Assem, Output, 1336STEF, 575V, 400 - 800 HP, 4 transistors / kit																						3	3	3	3	3	3	3	3	3	
1336-QOUT-SP24A	TSTR, Assem, Output, 1336STE, 575V, 15 HP		3																													
		Precharge Modules T.G. Symbol -> PCMODULE																														
1336-QPRE-SP2A	for 1336STE, 575V, 7.5-15 HP, Series A & B--order 1336-CONV-SPxA																															
1336-QPRE-SP2C	for 1336STE, 575V, 7.5-20 HP, Series C & up		1	1	1	1																										
1336-QPRE-SP4A	for 1336STE, 575V, 20 HP, Series A & B--order 1336-CONV-SPxA																															
1336-QPRE-SP6A	SCR, precharge, (CB) 1336STEF, 575V, 25-60 HP						1	1	1	1	1																					
		Current Transducers																														
1336-CT-SP1A	Current Transducer, 1336STEF, Frame D												2	2	2																	
1336-CT-SP2A	Current Transducer, 1336STEF, Frame E															2	2	2	2													
1336-CT-SP4A	Current Transducer, 1336TEF, Frame F																				2	2										
1336-CT-SP3A	Current Transducer, 1336STEF, Frames G, H																					2	2	2	2	2	2	2	2	2	2	
		Fans T.G. Symbol -> FAN																														
1336-FAN-SP1A	Fan, 1336STEF, Frame B and C		1	1	1	1	1	1	1	1	1																					
1336-FAN-SP8A	Fan, 1336STEF, Frame B and C, NEMA 4X		1	1	1	1	1	1	1	1	1																					
1336-FAN-SP2A	Fan, 1336STEF, Frame D (includes CHB1 Fan Capacitor)												1	1	1																	
1336-FAN-SP3A	Fan, 1336STEF, Frame E (includes CHB1 Fan Capacitor)															1	1	1	1													
1336-FAN-SP6A	Obsolete, replaced by 1336-FAN-SP6B																															
1336-FAN-SP6B	Fan, 1336STEF, Frame F (includes CHB1 Fan Capacitor)																				1	1										
1336-FAN-SP4A	Obsolete, replaced by 1336-FAN-SP4B																															
1336-FAN-SP4B	Fan, Heatsink Bottom, 1336STEF, Frames G, H (FAN 1)																					1	1	1	1	1	1	1	1	1	1	
1336-FAN-SP5A	Fan, Heatsink Side, 1336STEF, Frames G, H (FAN 2)																					1	1	1	1	1	1	1	1	1	1	
1336-FAN-SP7A	Fan, 1336STEF, Frame A4 only, includes grill & mounting screws	1																														
1336-FAN-SP9A	Fan, Converter, 1336E, Frame H																												3	3		

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		Power Module Snubber Resistors				
		T.G. Symbol -> R20 - R22, R20 - R25				
		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)			
			Common Bus Pre-Charge Resistors			
		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)			
			Load Resistors T.G. Symbol -> R1, R2, R3			
		1336-RLOAD-SP2A	Resistor, Load, 1336STE, 1336STEF, 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)			
		346664-A01	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)			
			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			
			Screw Kits			
		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				

		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
0.5-20 HP											3	3	3															
														3	3	3	3											
																		3	3									
																		3	3									
																				6	6	6	6	6	6	6	6	6
												2																
										2	2																	
						2	2	2	2																			
										2	2																	
												3																
														2	2	2	2											
														1	1	1	1											
																		7	7									
																				9	9	9	9	9	9	9	9	9
						2	2	2	2	2	2	2	2															



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