

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

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

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

Significance of Level Numbers

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

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

Level 3 - Discrete Components
Recommended stocking locations include GTS.

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

Spare Part Catalog Number Description (Example)

<u>1336</u>	--	<u>BDB</u>	--	<u>SP1</u>	--	<u>A</u>
1336 = PLUS, FORCE, IMPACT		Spare Part Type		Common Spare		Rev
1336S = 1336 PLUS				Part Delineator		
1336F = 1336 PLUS II						
1336T = 1336 FORCE						
1336E = 1336 IMPACT						
1336P = 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 7 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

Shading indicates added or changed since previous revision 4/22/2002

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

Level			Quantity of Kits Required per Drive																
	Catalog Number	Description	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 1	Precharge Modules T.G. Symbol -> PCMODULE																		
	1336-QPRE-SP1A	TSTR, Precharge, Series C & up, replc'd by 1336-QPRE-SP1C																	
	1336-QPRE-SP1C	TSTR, Precharge, Series A, order 1336-CONV-SP11A Conversion Kit																	
	1336-QPRE-SP3A	TSTR, Precharge, 1336STE, 230V, 7.5 - 15 HP Series C & up		1	1	1													
		1336F, 230V, 7.5 - 15 HP, Ser A & up		1	1	1													
	1336-QPRE-SP4A	TSTR, Precharge, 1336STE, 230V, 10 HP, Series A																	
		Obsolete, order 1336-CONV-SP12A Series A to C Conversion Kit																	
		order 1336-CONV-SP13A Series A to C Conversion Kit																	
		Fans T.G. Symbol -> FAN																	
	Level 3	1336-FAN-SP1A	Fan, 1336STEF, Frame B & Frame C																
1336-FAN-SP2A		Fan, 1336STEF, Frame D																	
1336-FAN-SP3A		Fan, 1336STEF, Frame E																	
1336-FAN-SP8A		Fan, 1336STEF, Frame A4, (AQF75 Stretch Frame only)														1	1	1	
		Inductors (SA) T.G. Symbol -> L1																	
1336-L-SP3A		Inductor, 1336ST, 230V, 7.5 HP, Series A & B																	
1336-L-SP3C		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					1	1	1										
1336-L-SP11A		Inductor, 1336STEF, 230V, 40 HP										1							
1336-L-SP12A		Inductor, 1336STEF, 230V, 50 HP												1					
1336-L-SP13A		Inductor, 1336STEF, 230V, 60 HP														1			
1336-L-SP16A		Inductor, 1336STEF, 230V, 75 HP															1		
1336-L-SP17A		Inductor, 1336STEF, 230V, 100 - 125 HP																1	1
		Mounting Feet (1 pair)																	
1336-FEET-SP1A		Kit, Mounting Feet, 1336STEF, Frame B (There is no 240V-A4 frame)		1	1	1													
1336-FEET-SP2A	Kit, Mounting Feet, 1336STEF, Frame C					1	1	1											
1336-FEET-SP3A	Kit, Mounting Feet, 1336STEF, Frame D								1	1	1								
1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E												1	1	1				
1336-FEET-SPxA	Kit, Mounting Feet, 1336STEF, Frame A1 (AQF05 - AQF50)	1																	
1336-FEET-SPxA	Kit, Mounting Feet, 1336STEF, Frame A1 (AQF05 - AQF50)	1																	
1336-FEET-SP5A	Kit, Mounting Feet, 1336STEF, Frame A1 (AQF05 - AQF50)	1																	
1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (AQF75 only)	1																	

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

Shading indicates added or changed since previous revision 4/22/2002

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		Input MOVs - Stand Alone Only T.G. Symbol -> MOV1														
	1336-MOV-SP1A	MOV, 1336STEF, 230V, 40 - 60 HP								1	1	1				
	1336-MOV-SP3A	MOV, 1336STEF, 230V, 75 - 125 HP											1	1	1	
		Resistors T.G. Symbol -> R20 - R22														
	1336-R2-SP2A	Resistor, Precharge (CB), 1336STEF, 230V, 40 HP								1						
	1336-R2-SP1A	Resistor, Precharge (CB), 1336STEF, 230V, 50 - 60 HP									1	1				
	1336-RLOAD-SP2A	Resistor, Load, 1336STEF, 230V, 7.5 - 30 HP		1	1	1	1	1	1							
	1336-RLOAD-SP3A	Resistor, Load, 1336STEF, 230V, 40 - 50 HP								1	1					
	1336-RLOAD-SP4A	Resistor, Load, 1336STEF, 230V, 60 HP										2				
	1336-RLOAD-SP5A	Resistor, Load, 1336STEF, 230V, 75 - 125 HP											2	2	2	
		Miscellaneous 1/4 turn Standoffs, Screw Kits, and Ribbon Cables														
	1336-STDOFF-SP1A	Kit, 1/4-Turn Standoff, (10 Pcs.), 1336STEF, used w/Gate Driver Bds					2	2	2	2	2	2				
		Screw Kits														
	1336-SCREW-SP3A	Kit, Screw, (25 Pcs) M4 x 0.7 x 89 mm, 1336STEF														
	1336-SCREW-SP4A	Kit, Screw, (25 Pcs) M5 x 0.8 x 10 mm, 1336STEF														
	1336-SCREW-SP5A	Kit, Screw, (25 Pcs) M5 x 0.8 x 16 mm, 1336STEF														
	1336-SCREW-SP6A	Kit, Screw, (25 Pcs) M6 x 1.0 x 12 mm, 1336STEF														
		Cables														
	1336-RCBL-SP1A	Kit, Ribbon Cable w/ Ferrite Clamp, 1336STE, Frame A-E		1	1	1	1	1	1	1	1	1	1	1	1	1
		Thermistors T.G. Symbol -> ST or NTC1														
	1336-TR-SP1A	Kit, Thermistor, 1336STEF, Frame B		1	1	1										
	1336-TR-SP2A	Kit, Thermistor, 1336STEF, Frame C					1	1	1							
	1336-TR-SP3A	Kit, Thermistor, 1336STEF, Frame D								1	1	1				
1336-TR-SP4A	Kit, Thermistor, 1336STEF, Frame E											1	1	1		
	Transformers (Stand Alone Only) T.G. Symbol -> T1															
1336-T-SP1A	XFER, 1336STEF, 230V, 40 - 60 HP									1	1	1				
1336-T-SP3A	XFER, 1336STEF, 230V, 75 - 125 HP												1	1	1	

Spare Allen-Bradley Parts

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

Shading indicates added or changed since previous revision

Revised 4/ 22 /2002

Quantity of Kits Required Per Drive

Level	Catalog Number	Description
Level	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
	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	

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

A	Quantity of Kits Required Per Drive																																						
	Frame B				Frame C				Frame D				Frame E		Frame F				Frame G		H																		
	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	X300 HP	250 HP	300 HP	350 HP	400 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP			
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Spare Parts - 460V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Shading indicates added or changed since previous revision

Revised 4/ 22 /2002

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
		Inductors (SA) T.G. Symbol -> L1
	1336-L-SP5A	SP5A
	1336-L-SP5C	Inductor, 1336STEF, 460V, 25 HP
	1336-L-SP6A	SP9A
	1336-L-SP6C	Inductor, 1336STEF, 460V, 30 HP
	1336-L-SP7A	Inductor, 1336STEF, 460V, X40 - X60 HP
	1336-L-SP11A	Inductor, 1336STEF, 460V, 75 HP,
	1336-L-SP12A	Inductor, 1336STEF, 460V, 100 HP
	1336-L-SP13A	Inductor, 1336STEF, 460V, 125 - X150 HP
	1336-L-SP14A	Inductor, 1336STEF, 460V, 60 HP
	1336-L-SP16A	Inductor, 1336STEF, 460V, 150 HP
	1336-L-SP17A	Inductor, 1336STEF, 460V, 200 - 250 HP
	1336-L-SP26A	Inductor, 1336STEF, 460V, Frame F
	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
		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)
	1336-FEET-SP5A	Kit, Mounting Feet, 1336STEF, Frame A3 (BRF50)
	1336-FEET-SP6A	Kit, Mounting Feet, 1336STEF, Frame A4 (BRF75, 100, 150, 200)
	1336-FEET-SP1A	Kit, Mounting Feet, 1336STEF, Frame B
	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
		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
	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-SP4A	Obsolete -- replaced by 1336-R1-SP4B
	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)

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	X300 HP	250 HP	300 HP	350 HP	400 HP	450 HP	X250 HP	300 HP	350 HP	400 HP	450 HP	500 HP	600/650	700 HP	800 HP			
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Spare Parts - 575V PLUS, PLUS II, FORCE, IMPACT & REGEN Drives

Shading indicates added or changed since previous revision

Revised: 4 / 22 / 2002

Level	Catalog Number	Description
Level 1	1336E-MC2-SP31B	PCB, Main Control 1336E, w/ English LM, V3.01, Frames B-H
Level 1	1336E-MC1-SP42A	PCB, Main Control 1336E, w/ English LM, V4.02, Frames A1-A4

T.G. SYMBOL --> Troubleshooting Guide Symbol
 (SA) = Stand Alone --- (CB) = Common Bus
 No Designator --> Applies to all 1336X drives
 X = Not Applicable

		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
		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																													

Spare Allen-Bradley Parts

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

Shading indicates added or changed since previous revision

Revised: 4 / 22 / 2002

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 2		Bus Fuses (also see Bus Fuse Upgrade Kits above) 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 [for drives manu'f before 2-1-2001].	
	1336-F1-SP20A	Superseded by 1336-F1-SP20B	
	1336-F1-SP20B	Fuse, Bus, 1336TEF, 350-400 HP, [450A, 700V], [for drives manu'f after 2-1-2001]. NOTE: kit includes CF4, CF5, and D1 -- no bus bars included	
	1336-F1-SP8A	Fuse, Bus, 1336STEF, Frame G, 400 - 800 HP [350A, 700V, 5.09" x 2.00"] NOTE: parallel diode is not included.	
	1336-F1-SP9A	Obsolete--replaced by 1336-F1-SP16A	
	1336-F1-SP16A	Fuse, Bus, 1336STEF, 575V, 25HP [100A, 700V, 4.87" x 1.00"]	
	1336-F1-SP10A	Obsolete--replaced by 1336-F1-SP17A	
	1336-F1-SP11A	Obsolete--replaced by 1336-F1-SP17A	
	1336-F1-SP17A	Fuse, Bus, 1336STEF, 575V, 30 - 40 HP [125A, 700V, 5.09" x 1.50"]	
	1336-F1-SP12A	Obsolete--replaced by 1336-F1-SP18A	
	1336-F1-SP13A	Obsolete--replaced by 1336-F1-SP16A	
	1336-F1-SP18A	Fuse, Bus, 1336STEF, 575V, 50 - 60 HP [200A, 700V, 5.09"x1.50"]	
			Input Line Fuses 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	
			Precharge PCBs T.G. Symbol -> PRECHARGE
	1336-PB-SP3A, B, C	Obsolete--replaced by 1336-PB-SP3D	
	1336-PB-SP3D	PCB, Precharge (SA), 1336STEF, 575V, 25 - 60 HP	
	1336-PB-SP6A	PCB, Precharge (CB), 1336STEF, 575V, 25 - 60 HP	
	1336-PB-SP9A	PCB, P-C, (SA), 575V, 75 - 125 HP, replaced by 1336-PB-SP23B	
1336-PB-SP11A	PCB, P-C, (CB), 575V, 75 - 125 HP, replaced by 1336-PB-SP22B		
1336-PB-SP15A	PCB, P-C, (SA), 575V, 150 - X300 HP, replaced by 1336-PB-SP20E		
1336-PB-SP18A	PCB, P-C, (SA), 575V, 150 - X300 HP, replaced by 1336-PB-SP22B		
1336-PB-SP20A,B,C,D	Obsolete--replaced by 1336-PB-SP20E		
1336-PB-SP20E	PCB, Precharge (SA), 1336TEF, 575V, 75 - 600 HP		
1336-PB-SP22A	Obsolete--replaced by 1336-PB-SP22B		
1336-PB-SP22B	PCB, Precharge (CB), 1336TEF, 575V, 75 - 600 HP (A10)		
		Snubber PCBs T.G. Symbol -> (SCR) SNUBBER BOARD NOTE: SNUBBER RESISTORS ARE NOT INCLUDED	
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,B,C,D	Obsolete, replaced by 1336-SN-SP20E		
1336-SN-SP20E	PCB, Snubber (CB), 1336STEF, G & H Frame		

		Quantity of Kits Required Per Drive																							
		Frame B				Frame C				Frame D			Frame E			F		Frame G					H		
A																									
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																									

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			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 3		Precharge Modules T.G. Symbol -> PCMODULE																													
	1336-QPRE-SP2A	for 1336STE, 575V, Frame B, Series A & B--order 1336-CONV-SPxA																													
	1336-QPRE-SP2C	TSTR, Precharge, 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 T.G. Symbol -> CT1, CT2																													
	1336-CT-SP1A	Current Transducer, 1336STEFR, 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	2
		Fans T.G. Symbol -> FAN																													
	1336-FAN-SP1A	Fan, 1336STEF, Frame C		X	X	X	X	1	1	1	1	1																			
	1336-FAN-SP2A	Fan, 1336STEFR, 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, Inverter, Rooftop, 1336E, Frame H																													
1336-FAN-SP8A	Fan, 1336STEF, Frame A4 only, includes grill & mounting screws	1																													
	Ground Fault Transformers T.G. Symbol -> CT3																														
1336-GF-SP1A	Current Transformer, Ground Fault, 1336STEF, Frame C						1	1	1	1	1																				
1336-GF-SP2A	Current Transformer, Ground Fault, 1336STEFR, Frame D											1	1	1																	
1336-GF-SP3A	Current Transformer, Ground Fault, 1336STEF, Frame E														1	1	1	1													
1336-GF-SP6A	Current Transformer, Ground Fault, 1336STEF, Frame F																		1	1											
1336-GF-SP4A	Current Transformer, Ground Fault, (SA) 1336STEF, Frames G & H																				1	1	1	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	1	
	Inductors (SA) T.G. Symbol -> L1																														
1336-L-SP1A	Inductor, 1336ST, 575V, 7.5 HP, Series A & B ==>Obsolete--replaced by 1336-CONV-SP7A Conversion Kit																														
1336-L-SP1C	Inductor, 1336ST, 575V, 7.5 HP, Series C & up		1																												
1336-L-SP2A	Inductor, 1336ST, 575V, 10 HP, Series A & B ==>Obsolete--replaced by 1336-CONV-SP8A Conversion Kit																														
1336-L-SP2C	Inductor, 1336ST, 575V, 10 HP, Series C & up			1																											
1336-L-SP3A	Inductor, 1336STE, 575V, 15 HP, Series A & B ==>Obsolete--replaced by 1336-CONV-SP9A Conversion Kit																														
1336-L-SP3C	Inductor, 1336STE, 575V, 15 HP, Series C & up				1																										
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					1																									
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																														

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Level	Catalog Number	Description
Level 2	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
	Mounting Feet (1 Pair)	
	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, 1336STEFR, Frame D
	1336-FEET-SP4A	Kit, Mounting Feet, 1336STEF, Frame E
	Input MOVs - Stand Alone Only	
	T.G. Symbol -> MOV1	
	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	
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-SP4A	Obsolete -- replaced by 1336-R1-SP4B	
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, 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 (R1 - R2)	
1336-RLOAD-SP7A	Resistor, Load, 1336STEF, 575V, Frame F (R1)	
1336-RLOAD-SP6A	Resistor, Load, 1336STEF, 575V, Frames G & H (R1 - R9)	

		Quantity of Kits Required Per Drive																											
		Frame B		Frame C				Frame D			Frame E			F		Frame G					H								
A		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								1																					
											1																		
												1																	
													1			1	1	1											
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																						1	1	1	1	1	1	1	1
											3	3	3																
														3	3	3	3												
																				3	3								
																				3	3								
																					6	6	6	6	6	6	6	6	6
													2																
											2	2																	
																					1	1	1	1	1	1	1	1	1
								2	2	2	2																		
											2	2																	
													3																
														2	2	2	2												
																				7	7								
																					9	9	9	9	9	9	9	9	9

Spare Allen-Bradley Parts

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Level	Catalog Number	Description
Level 3		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
		Cables
	1336-RCBL-SP1A	Ribbon Cable, MCB to Gate Driver, w/ferrite bead
		Thermistors
		T.G. Symbol -> ST or NTC1
	1336-TR-SP1A	Kit, Thermistor, 1336STE, Frame B
	1336-TR-SP2A	Kit, Thermistor, 1336STEF, Frame C
	1336-TR-SP3A	Kit, Thermistor, 1336STEFR, Frame D
	1336-TR-SP4A	Kit, Thermistor, 1336STEFR, Frame E
	1336-TR-SP7A	Kit, Thermistor, 1336TEF, Frame F
	1336-TR-SP5A	Kit, Thermostat, Precharge, 1336STEF, Frames G, H
	1336-TR-SP6A	Kit, Thermistor, IGBT, 1336STEF, Frames G, H
		Transformers -- Stand Alone Only
		T.G. Symbol -> T1
	1336-T-SP3A	XFMR, 1336STEF, 575V, 75 - 125 HP
	1336-T-SP9A	XFMR, 1336TEF, 575V, Frame F
1336-T-SP6A	XFMR, 1336STEF, 575V, 150 - 300 HP	
1336-T-SP7A	XFMR, 1336STEF, 575V, Frames G & H	
	Power Supply PCB	
1336E-PSK-SP1A	PCB, Power Supply 1336E, Frame H	

T.G. SYMBOL --> Troubleshooting Guide Symbol
 (SA) = Stand Alone --- (CB) = Common Bus
 No Designator --> Applies to all 1336X drives
 X = Not Applicable

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