

# Table of Contents

<b>REF: Electrical System</b> .....	1
<b>Device Connectors Compatibility</b> .....	1
<b>Useful Videos/Tutorials</b> .....	1
<b>AMP/Tyco</b> .....	1
<b>Deutsch</b> .....	3
<b>Molex</b> .....	4
<b>JAE Electronics</b> .....	5
<b>Miscellaneous</b> .....	5
<i>Ring and Spade Terminal Sizing</i> .....	6
<i>Circuit Breakers</i> .....	7



# REF: Electrical System

## Device Connectors Compatibility

Useful Part Numbers and Cross References (submitted by Andy56) <sup>1)</sup>

## Useful Videos/Tutorials

AMP/Tyco Multilock Video Tutorial (parts 1&2)

<https://www.youtube.com/watch?v=myPysAK2bWA>

[https://www.youtube.com/watch?v=Rnc0M74G4\\_Q](https://www.youtube.com/watch?v=Rnc0M74G4_Q)

Deutsch Video Tutorials

<https://www.youtube.com/watch?v=LIR9-ZdG958>

<https://www.youtube.com/watch?v=KI3wNjhwj84>

Molex Video Tutorial

<https://www.youtube.com/watch?v=ZxrChXXkxo4>

JAE Video Tutorial

[https://youtu.be/R\\_0ASkpsAXk?list=PL...AodOKHCsEsGnYW](https://youtu.be/R_0ASkpsAXk?list=PL...AodOKHCsEsGnYW)

## AMP/Tyco



AMP/Tyco Mate-N-Lok Terminals			
HD Part#	Part Description	AMP/Tyco Part#	
72039-71	Pin	163305-2	
72038-71	Socket	163304-2	
AMP/Tyco Mate-N-Lock Connector Housings			
HD Part#	Part Description	AMP/Tyco Part#	Part Description
72043-71	Pin housing 1-way	1-480349-0	Receptacle
72044-71	Socket housing 1-way	1-480350-0	Plug
72034-71	Pin housing 2-way	1-480318-0	Receptacle
72035-71	Socket housing 2-way	1-480319-0	Plug
72036-71	Pin housing 3 way	1-480303-0	Receptacle
72040-71	Socket housing 3-way	1-480305-0	Plug
70292-89	Pin housing 4-way	1-480424-0	Receptacle
70291-89	Socket housing 4-way	1-480426-0	Plug
72037-71	Pin housing 6-way	1-480270-0	Socket
72041-71	Socket housing 6-way	1-480340-0	Plug
70287-81	Pin housing 8-way	1-480283-0	Receptacle
70288-81	Socket housing 8-way	1-480345-0	Plug
70293-87	Pin housing 10-way	1-480285-0	Receptacle
70305-90	Socket housing 10-way	1-480339-0	Plug
72278-74	Pin housing 12 way	1-480287-0	Receptacle
72276-74	Socket housing 12 way	1-480288-0	Plug
AMP/Tyco Multilock Terminals (pins are flat and 1.8mm wide)			
HD Part#	Part Description	AMP/Tyco Part#	
73190-96	Pin	173645-1	
73191-96	Socket	173631-1	
AMP/Tyco Multilock Connector Housings			
HD Part#	Part Description	AMP/Tyco Part#	Part Description
73102-96BK	Pin housing 2-way	174460-2	Receptacle
73152-96BK	Socket housing 2-way	174463-2	Plug
73103-96BK	Pin housing 3-way	174928-2	Receptacle
73153-96BK	Socket housing 3-way	174921-2	Plug
73104-96BK	Pin housing 4-way	174929-2	Receptacle
73154-96BK	Socket housing 4-way	174922-2	Plug
73106-96BK	Pin housing 6-way	174930-2	Receptacle
73156-96BK	Socket housing 6-way	174923-2	Plug
73108-96BK	Pin housing 8-way	174931-2	Receptacle
73158-96BK	Socket housing 8-way	173850-2	Plug
73110-96BK	Pin housing 10 way	174932-2	Receptacle
73160-96BK	Socket housing 10 way	174465-2	Plug
AMP/Tyco Mini Multilock Terminals (pins are flat and 1mm wide)			
HD Part#	Part Description	AMP/Tyco Part#	
72990-01	Pin	175063-1	

72991-01	Socket	175062-1	
AMP/Tyco Mini Multilock Connector Housings			
HD Part#	Part Description	AMP/Tyco Part#	Part Description
72902-01BK	Pin housing 2-way	174057-2	Receptacle
72912-01BK	Socket housing 2-way	174056-2	Plug
72904-01BK	Pin housing 4-way	174967-2	Receptacle
72914-01BK	Socket housing 4-way	174966-2	Plug

## Deutsch

Deutsch Terminals			
HD Part#	Part Description	Deutsch Part#	Part Description
72693-06	Pin	1060-16-0122	U-barrel crimp
72192-98 Pin	0460-202-16141	Radial crimp	
72694-06	Socket	1062-16-0122	U-barrel crimp
72193-98	Socket	0462-201-16141	Radial crimp
72195-94	Seal pin	114017	
Deutsch Pin Removal Tool			
DT-RT1	Radial crimp pins can be difficult to crimp without special tools but can be easily soldered.		
Deutsch Connector Housing (black series)			
HD Part#	Part Description	Deutsch Part#	Part Description
72102-94BK	Pin housing 2-way	DT04-2P-E005	Receptacle
72112-94BK	Socket housing 2-way	DT06-2S-EP06	Plug
72103-94BK	Pin housing 3-way	DT04-3P-E005	Receptacle
72113-94BK	Socket housing 3-way	DT06-3S-EP06	Plug
72104-94BK	Pin housing 4-way	DT04-4P-E005	Receptacle
72114-94BK	Socket housing 4-way	DT06-4S-EP06	Plug
72106-94BK	Pin housing 6-way	DT04-6P-E005	Receptacle
72116-94BK	Socket housing 6-way	DT06-6S-EP06	Plug
72108-94BK	Pin housing 8-way	DT04-08PA-E005	Receptacle
72118-94BK	Socket housing 8-way	DT06-08SA-EP08	Plug
72109-94BK	Pin housing 12-way	DT04-12PA-E005	Receptacle
72119-94BK	Socket housing 12-way	DT06-12SA-EP08	Plug
Deutsch Connector Housing (glack series)			
HD Part#	Part Description	Deutsch Part#	Part Description
72122-94GY	Pin Housing 2-way	DT04-2P Receptacle	
72132-94GY	Socket housing 2-way	DT06-2S	Plug
72123-94GY	Pin Housing 3-way	DT04-3P	Receptacle
72133-94GY	Socket housing 3-way	DT06-3S Plug	
72124-94GY	Pin Housing 4-way	DT04-4P	Receptacle
72134-94GY	Socket housing 4-way	DT06-4S	Plug

72126-94GY	Pin housing 6-way	DT04-6P	Receptacle
72136-94GY	Socket housing 6-way	DT06-6S	Plug
72128-94GY	Pin Housing 8-way	DT04-08PA	Receptacle
72138-94GY	Socket housing 8-way	DT06-08SA	Plug
72129-94GY	Pin Housing 12-way	DT04-12PA	Receptacle
72139-94GY	Socket housing 12-way	DT06-12SA	Plug

## Molex

Molex MX150 Terminals			
HD Part#	Part Description	Molex Part#	Further Information
72168-07	Socket	33012-2002	To suit 18-20g wire
72272-07	Socket	33012-2001	To suit 16g wire
72169-07	Pin	33000-0002	To suit 16g wire
72473-07	Seal pin	34345-0001	
Molex MX150 Housings			
HD Part#	Part Description	Molex Part#	Part Description
72512-07BK	Pin housing 3-way	33471-0301	Receptacle, Black
72511-07BK	Socket housing 3-way	33481-0301	Plug, Black
72514-07GY	Pin housing 3-way	33471-0302	Receptacle, Grey
72513-07GY	Socket housing 3-way	33481-0302	Plug, Grey
72542-07BN	Pin housing 3-way	33471-0303	Receptacle, Brown
72541-07BN	Socket housing 3-way	33481-0303	Plug, Brown
72540-07GN	Pin housing 3-way	33471-0304	Receptacle, Green
72534-07GN	Socket housing 3-way	33481-0304	Plug, Green
72177-07BK	Pin housing 4-way	33472-0401	Receptacle, Black
72175-07BK	Socket housing 4-way	33482-0401	Plug, Black
72444-07GY	Pin housing 4-way	33472-0402	Receptacle, Grey
72414-07BK	Pin housing 6-way	33472-0601	Receptacle, Black
72188-07BK	Socket housing 6-way	33482-0601	Plug, Black
72479-07BK	Pin housing 8-way	33472-0801	Receptacle, Black
72478-07BK	Socket housing 8-way	33482-0801	Plug, Black
72469-07GY	Pin housing 8-way	33472-0802	Receptacle, Grey
72447-07GY	Socket housing 8-way	33482-0802	Plug, Grey
72487-07BK	Pin housing 12-way	33472-1201	Receptacle, Black
72488-07BK	Socket housing 12-way	33482-1201	Plug, Black
72489-07GY	Pin housing 12-way	33472-1202	Receptacle, Grey
72490-07GY	Socket housing 12-way	33482-1203	Plug, Grey
72166-07BK	Pin housing 16-way	33472-1601	Receptacle, Black
72167-07BK	Socket housing 16-way	33482-1601	Plug, Black
72491-07GY	Pin housing 16-way	33472-1602	Receptacle, Grey
72492-07GY	Socket housing 16-way	33482-1602	Plug, Grey

72500-07BK	Pin housing 20-way	33472-2001	Receptacle, Black
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## JAE Electronics

JAE MX19 Terminals (Harley CAN BUS)			
HD Part#	Part Description	JAE Part#	
72910-11	Socket	MX19S10K451	
72909-11	Pin	MX19P10K451	
JAE MX19 Housings			
HD Part#	Part Description	JAE Part#	Part Description
72906-11	Socket housing 2-way	MX19002S51	Plug
72905-11	Pin housing 2-way	MX19002P51	Receptacle
72908-11	Socket Housing 4-way	MX19004S51	Plug
72907-11	Pin housing 4-way	MX19004P51	Receptacle

## Miscellaneous

Part Description	HD Part#	Amp Part#	Delphi Part#	Bosch Part#
Amp Terminals	Pin, 282465-1, 1.5mm wide	Socket 282566-1		
O2 Sensor Connector	72007-05	282080-1		
		Female connector. Mating part 282104-1 Male		
Active Exhaust Sensor Connector	72012-07	282089-1		
		Mating part 282107-1, Plug		
Speed Sensor Connector	72064-06	15336029-B		
Coil, Fuel Pump, Idle Speed Sensor Connector	72066-06	15354716-B		
Throttle Position Sensor Connector	72065-06	13532244		
MAP Sensor Connector	72230-98	12129946-B		
Fuel Injector Socket Housing Socket (95-05)	72244-95 72326-95		12129142 12077939	EV1, 2 pin connector
	Note: 72326-95 also used in some Harley fuse boxes as a socket for mini fuses along with 72434-00 (AMP.Tyco part number 282189-2)			
Fuel Injector Connector (06-up)	72098-06	15419715		
Intake Air Temp Sensor Connector	72062-06	15336027-B		

## Ring and Spade Terminal Sizing

Ring Terminals					
Hd Part#	Gauge	Fits	Hd Part#	Gauge	Fits
9826	16-20g	5/16" stud	72254-94	14-16g	1/4" stud
9840	12-14g	#10 stud (0.190")	72525-01	12-14g	3/8" stud (serated form)
9856	16-22g	#6 stud (0.138")	72532-02		3/8" stud
9857	16-22g	#10 stud (0.190")	69200536	12-14g	
9858	16-20g	1/4" stud			
9859	16-22g	5/16" stud			
9860	16-22g	3/8" stud			
9861	16-22g	slotted to fit #10 (0.190")			
9862	14-16g	#10 stud (0.190")			
9863	14-16g	1/4" stud			
9864	14-16g	5/16" stud			
9866	10-12g	#10 stud (0.190")			
9868	10-12g	5/16 stud			
9871	14-16g	#6 stud (0.138")			
9902	14-16g	#10 stud (0.190")			
9926	14-16g	5/16" stud			
9945	10-12g	5/16" stud			
Spade Terminals					
Hd Part#	Gauge	Description			
9875	16-22g	5/16" female blade			
9904	16-20g	1/8" female blade			
9930		3/16" female blade			
9931	16-20g	3/16" female blade			
9914		1/4" female blade			
9918	14-16g	1/4" female blade			
9907		1/4" female blade, insulated			
9901		5/32" female flag			
9925	16-18g	1/4" female flag			
9852		1/4" male 45 degree			
9898		1/4" female flag insulated (used on horn)			
71774-77		flag insulator			
70584-69		flag insulator			



# Circuit Breakers

Circuit Breakers				
Hd Part#	Type	Amp	Standard part#s (old, new)	Bussmann eqv part#s
74589-73	Stud	15A	MC-CBR3, BR29	CBC15
74599-77	Stud	30A	MC-CBR2, BR33	CBC30
74600-94	Stud	50A	MC-CBR1, BR31	CBC50
74600-97	Stud	40A	MC-CBR7, BR36	CBC40
74586-70	Stud	30A	XX-XXXX, XXXX	CBC30B (has mounting tags)
74587-94	Blade	15 Amp	XX-XXXX, BR32	XXXXX

## Go To Technical Menu

1)

Post#179 -

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