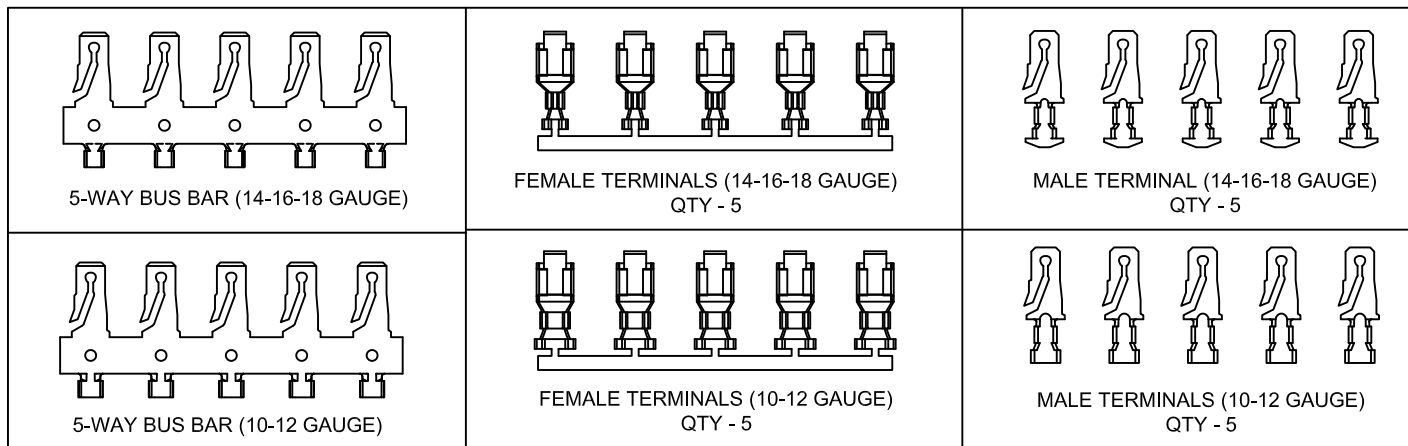
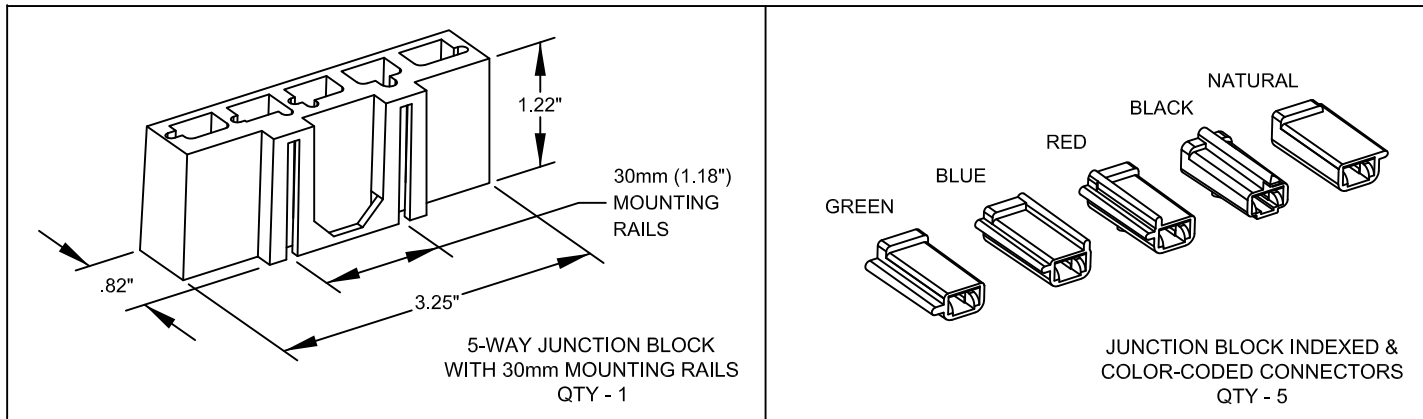


5-WAY INDEXED ACCESSORY JUNCTION BLOCK KIT

THIS KIT IS USED TO CONNECT MULTIPLE ACCESSORIES WITH INDEXED CONNECTORS FOR EACH ACCESSORY TO AVOID CROSS WIRING.

CONTENTS



TITLE
**INSTRUCTION SHEET
 5-WAY CONNECTOR JUNCTION BLOCK
 WITH 30MM MOUNTING RAILS**

DWG NO. **92974227** SHEET NO. **1 OF 14**

5-WAY ACCESSORY JUNCTION BLOCK INSTRUCTIONS

READ ALL INSTRUCTIONS CAREFULLY BEFORE PROCEEDING.

THIS ACCESSORY JUNCTION BLOCK KIT IS DESIGNED TO BE ATTACHED TO ALL CLASSIC AUTOFUSE SERIES FUSE BLOCKS WITH 30MM MOUNTING RAILS. SEE SPECIFIC APPLICATIONS FOR FOR RAIL LOCATIONS. IT MAY ALSO BE USED AS A STAND-ALONE APPLICATION FOR IN-LINE USE.

THE CUSTOMER MUST DETERMINE IF THERE IS SUFFICIENT CLEARANCE TO ATTACH THIS 5-WAY JUNCTION BLOCK TO THE CLASSIC AUTOFUSE SERIES FUSE BLOCKS OR VERIFY CLEARANCE FOR USE IN A STAND-ALONE IN-LINE APPLICATION. SEE PAGE 3. THIS ACCESSORY JUNCTION BLOCK MAY NOT FIT IN SOME VEHICLE APPLICATIONS BECAUSE OF STRUCTURAL DEVICES SUCH AS AN EMERGENCY BRAKE PEDAL BRACKET, ETC. SEE THE CLASSIC AUTOFUSE SERIES DASH HARNESS INSTRUCTIONS FOR MORE INFORMATION AND LINE DRAWINGS SHOWING MOUNTING RAIL LOCATIONS AND POSITIONS ON THE NEW CLASSIC AUTOFUSE SERIES FUSE BLOCKS FOR THE SPECIFIC APPLICATION.

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE AMPERAGE LOAD NEEDED TO ENSURE THE APPROPRIATE TERMINALS AND/OR BUS BAR IS SELECTED FOR HANDLING THE CONNECTED DEVICE AMPERAGE LOADS. SEE PAGE 4 & 5 FOR GUIDELINES.

THESE INSTRUCTIONS ARE ARRANGED AS FOLLOWS:

- PAGE 3:** VERIFY JUNCTION BLOCK MOUNTING CLEARANCE OR DETERMINE MOUNTING DETAILS FOR STAND-ALONE APPLICATION.
- PAGE 4:** GUIDELINES FOR DETERMINING LOAD REQUIREMENTS FOR JUNCTION BLOCK BUS BAR & SINGLE TERMINALS
- PAGE 5:** GUIDELINES FOR DETERMINING LOAD REQUIREMENTS FOR INDEXED, COLOR-CODED MATING CONNECTORS & TERMINALS.
- PAGE 6 & 7:** BUS BAR PREPARATION WHEN USING BUSSING CAPABILITY.
- PAGE 8:** SINGLE TERMINAL PREPARATION.
- PAGE 9:** JUNCTION BLOCK ASSEMBLY PROCEDURES.
- PAGE 10:** INDEXED & COLOR-CODED MATING CONNECTOR ASSEMBLY.
- PAGE 11:** TERMINAL & BUS BAR REMOVAL INSTRUCTIONS.
- PAGE 12:** JUNCTION BLOCK APPLICATION EXAMPLES.
- PAGE 13:** TYPICAL JUNCTION BLOCK SCHEMATIC EXAMPLES.
- PAGE 14:** OPTIONAL 5-WAY JUNCTION BLOCK ATTACHMENT OPTIONS TO DIRECT FIT AUTOFUSE RESTORATION SERIES DASH HARNESSES WITH ATO FUSE BLOCKS.

 M&H ELECTRIC FABRICATORS, INC. <small>AUTOMOTIVE WIRING SYSTEMS</small> <small>(562) 926-9552 www.wiringharness.com</small>	
TITLE INSTRUCTION SHEET 5-WAY CONNECTOR JUNCTION BLOCK WITH 30MM MOUNTING RAILS	
<small>DWG NO.</small>	92974227
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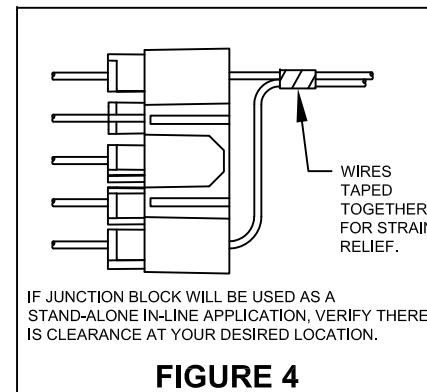
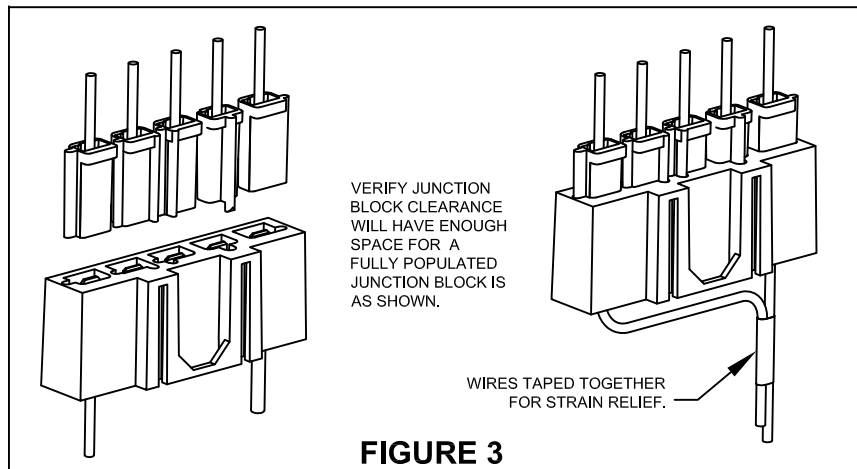
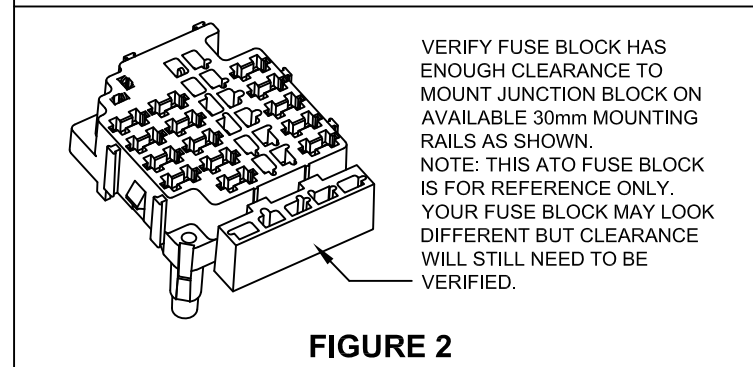
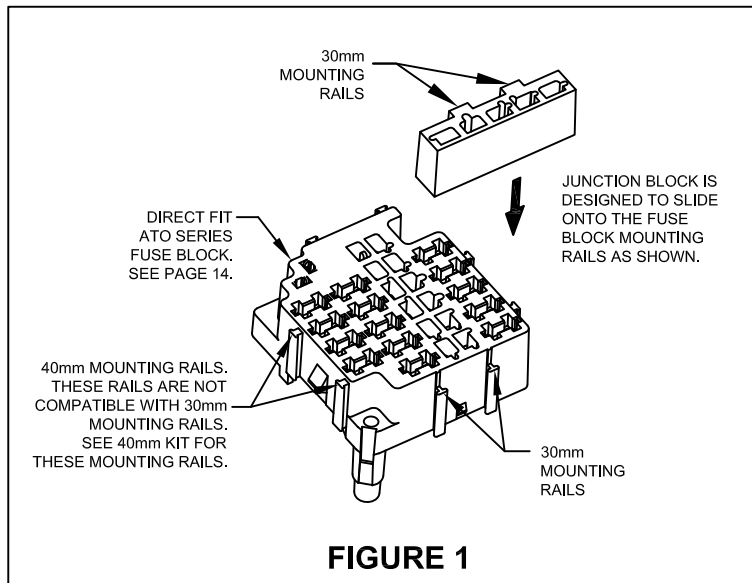
VERIFY JUNCTION BLOCK CLEARANCE

BEFORE PROCEEDING, VERIFY FUSE BLOCK HAS ENOUGH CLEARANCE IN THE VEHICLE TO ATTACH THE JUNCTION BLOCK. SEE FIGURE 1 & 2. ALSO VERIFY JUNCTION BLOCK WILL HAVE ENOUGH SPACE WHEN FULLY POPULATED. SEE FIGURE 3.

IF JUNCTION BLOCK WILL BE USED IN A STAND-ALONE APPLICATION, VERIFY THERE IS ENOUGH CLEARANCE IN YOUR DESIRED LOCATION. SEE FIGURE 4. TYPICAL LOCATION FOR MOUNTING IS NEAR FUSE BLOCK. HOWEVER, IT CAN BE LOCATED IN THE ENGINE COMPARTMENT OR PASSENGER COMPARTMENT.

NOTE: FUSE BLOCK SHOWN IS FOR REFERENCE ONLY. YOUR FUSE BLOCK MAY LOOK DIFFERENT BUT CLEARANCE WILL STILL NEED TO BE VERIFIED.

IF THERE IS ENOUGH CLEARANCE TO MOUNT A JUNCTION BLOCK ON ANY OF THE AVAILABLE 30MM RAILS, OR IN A STAND-ALONE APPLICATION, THEN PROCEED TO PAGE 3 OF THESE INSTRUCTIONS.



TITLE
**INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
WITH 30MM MOUNTING RAILS**

DWG NO.

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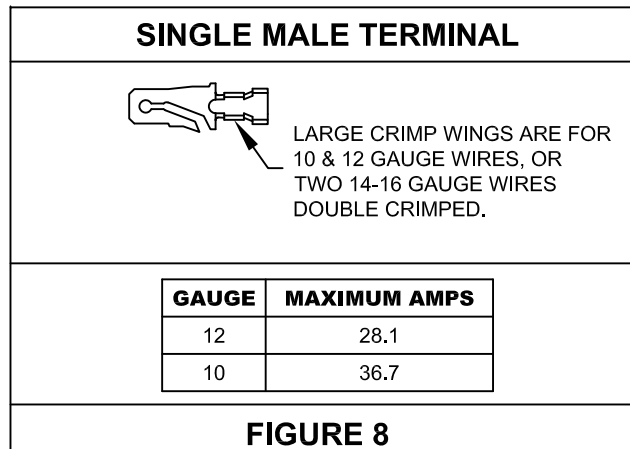
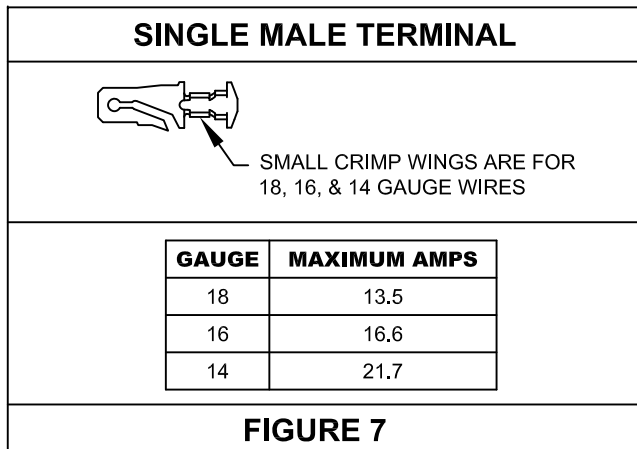
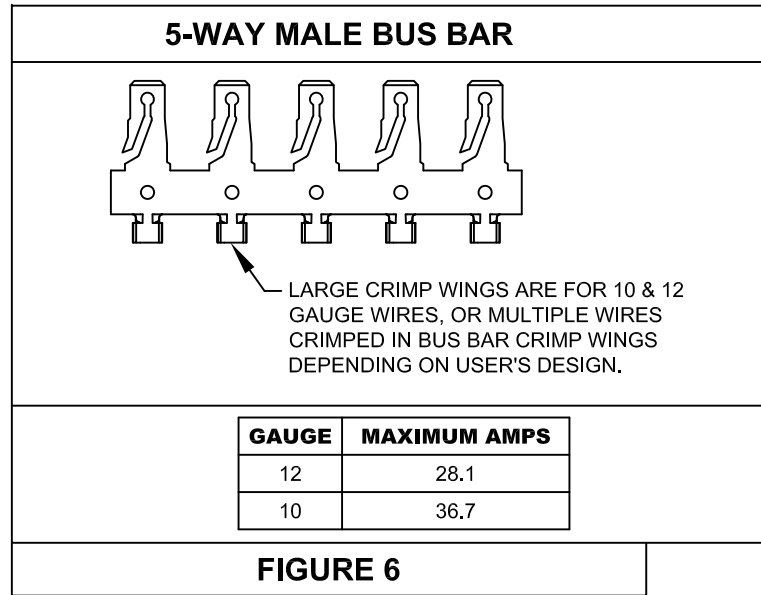
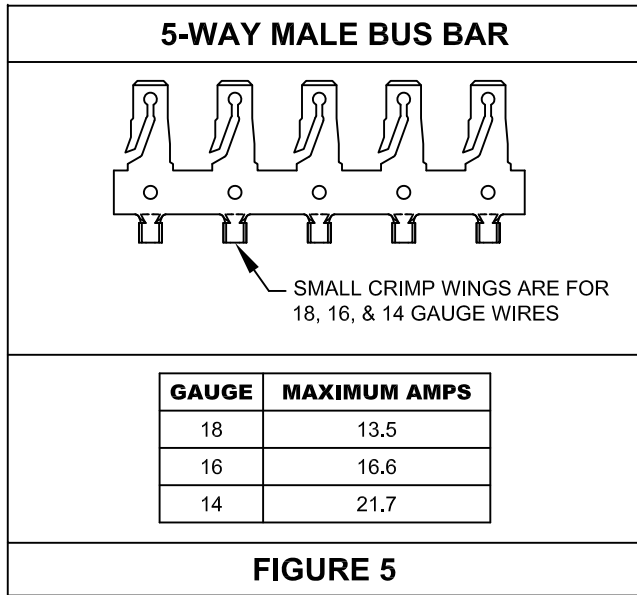
SHEET NO.

3 OF 14

GUIDELINES FOR DETERMINING TERMINAL & BUS BAR AMPERAGE REQUIREMENTS

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE AMPERAGE LOAD NEEDED TO ENSURE THE APPROPRIATE TERMINALS AND/OR BUS BAR IS SELECTED FOR HANDLING THE CONNECTED DEVICE AMPERAGE LOADS. THIS KIT INCLUDES THREE OPTIONS TO PROVIDE POWER TO THE JUNCTION BLOCK CAVITIES.

1. A BUS BAR OPTION WHICH ALLOWS 2 OR MORE CAVITIES TO BE CONNECTED TO THE SAME FEED SOURCE. SEE FIGURE 5 & 6.
2. SINGLE TERMINALS TO PROVIDE SEPARATE POWER OR GROUND TO EACH CAVITY. SEE FIGURE 7 & 8.
3. ANY COMBINATION OF THE ABOVE OPTIONS CAN BE DESIGNED.



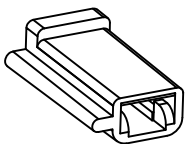
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TITLE
 INSTRUCTION SHEET
 5-WAY CONNECTOR JUNCTION BLOCK
 WITH 30MM MOUNTING RAILS

DWG NO. **92974227** SHEET NO. 4 OF 14

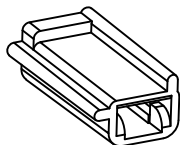
GUIDELINES FOR DETERMINING MATING TERMINAL AMPERAGE AND MATING CONNECTOR USAGE

GREEN



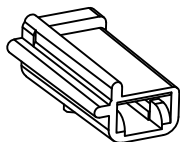
INSTRUMENT LAMPS FUSED.
ALTERNATE: IGNITION FUSED OR UNFUSED & ACCESSORY FUSED OR UNFUSED

BLUE



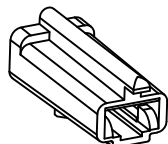
CONSTANT BATTERY FUSED

RED



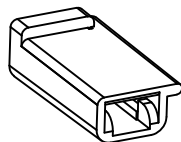
CONSTANT BATTERY FUSED OR UNFUSED

BLACK



ACCESSORY FUSED

NATURAL



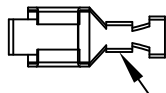
IGNITION FUSED

THIS KIT INCLUDES INDEXED, COLOR-CODED CONNECTORS WITH GENERAL POWER FEED RECOMMENDATIONS. THE LISTED RECOMMENDATIONS ARE FOR REFERENCE ONLY. YOU MAY USE THE CONNECTORS AS DESIRED INCLUDING GROUNDING OPTIONS INSTEAD OF POWER AS NEEDED.

NOTE: WIRE COLOR MATCHING CONNECTOR COLOR IS A GOOD OPTION TO HELP VISUALIZE CONNECTOR COLOR TO WIRE COLOR.

THIS KIT IS DESIGNED TO BE A JUNCTION BLOCK ONLY. THE CUSTOMER IS RESPONSIBLE FOR ENSURING PROPER FUSING OF EACH CIRCUIT & AMPERAGE LOAD DESIGN.

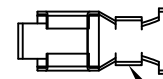
THESE CONNECTORS ARE COLOR-CODED AND INDEXED TO ENSURE THAT THEY CAN ONLY FIT INTO ONE CAVITY. THIS ALLOWS THE POWER FEED APPLICATIONS TO BE ISOLATED FROM EACH OTHER AND PREVENTS THE CONNECTOR FROM INSERTING INTO A WRONG CAVITY AND CAUSING A POTENTIAL FIRE HAZARD ON UNBALANCED LOADS. FOR INSTANCE: A DEVICE USING AN ACCESSORY FUSED CONNECTOR CANNOT PLUG INTO A BATTERY UNFUSED CAVITY.



SINGLE FEMALE TERMINAL

SMALL CRIMP WINGS ARE FOR 18, 16, & 14 GAUGE WIRES

GAUGE	MAXIMUM AMPS
18	13.5
16	16.6
14	21.7



SINGLE FEMALE TERMINAL

LARGE CRIMP WINGS ARE FOR 12 & 10 GAUGE WIRES OR TWO 14-16 GAUGE WIRES.

GAUGE	MAXIMUM AMPS
12	28.1
10	36.7



TITLE
INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
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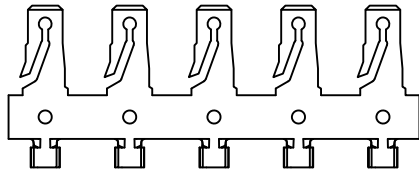
5 OF 14

PREPARING THE DESIRED BUS BAR

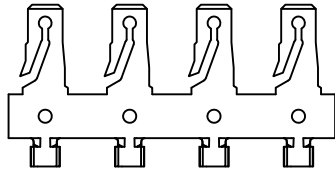
THE BUS BAR MAY BE TRIMMED TO THE DESIRED BUS SIZE IN FOUR DIFFERENT CONFIGURATIONS AS SHOWN. THE BUS BAR IS MADE OF HARD METAL AND REQUIRES SUFFICIENT DIAGONAL CUTTERS OR EQUIVALENT TO CUT THE BUS BAR TO DESIRED SIZE.

THE USER SHOULD FIRST LAYOUT ALL COMPONENTS BEING CONNECTED BEFORE CUTTING THE 5-WAY BUS BAR. SEE PAGE 4 & 5.

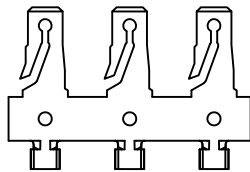
5-WAY



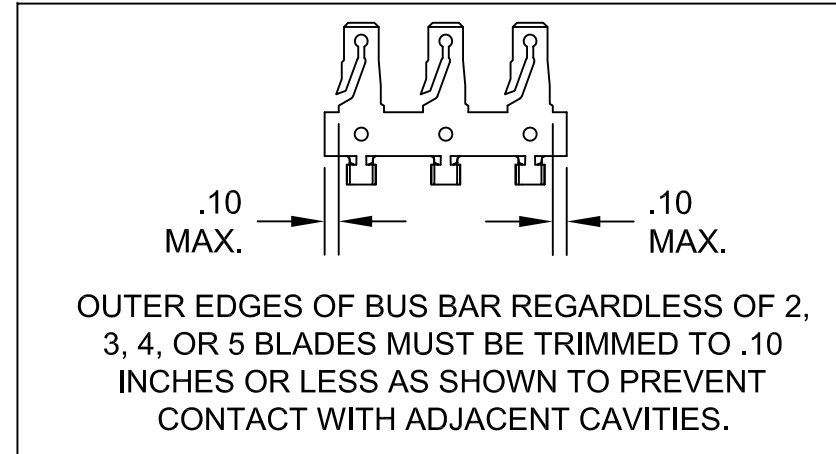
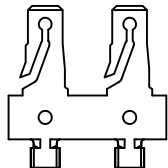
4-WAY



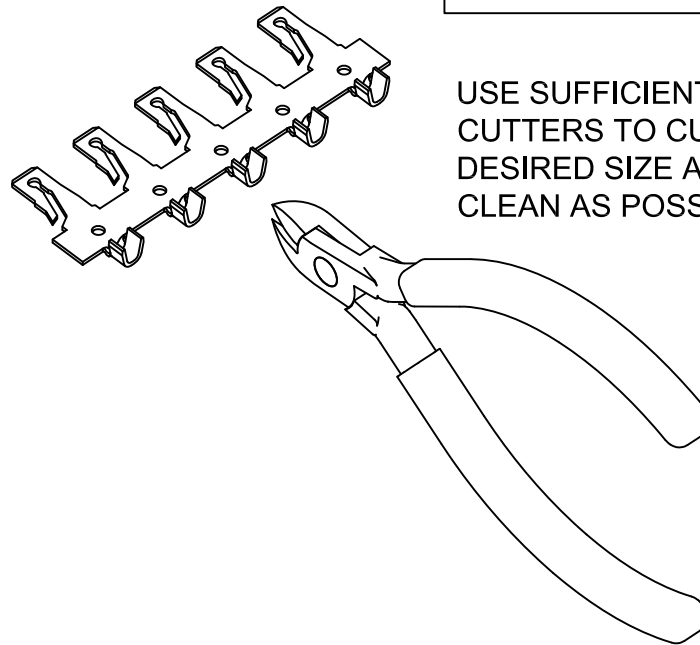
3-WAY



2-WAY



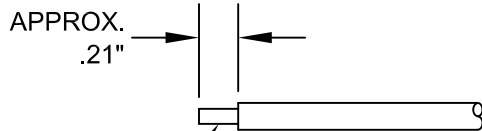
USE SUFFICIENT DIAGONAL CUTTERS TO CUT THE BUS BAR TO DESIRED SIZE AS STRAIGHT AND CLEAN AS POSSIBLE.



TITLE	
INSTRUCTION SHEET 5-WAY CONNECTOR JUNCTION BLOCK WITH 30MM MOUNTING RAILS	
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CRIMP, SOLDER & TRIM OR BEND DOWN UNUSED CRIMP WINGS

SEE PAGE 8 FOR SINGLE WIRE CRIMP TERMINATION DETAILS.

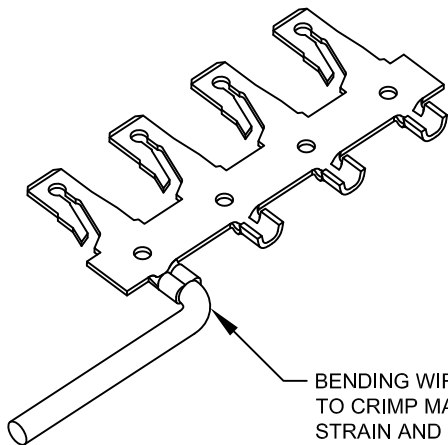
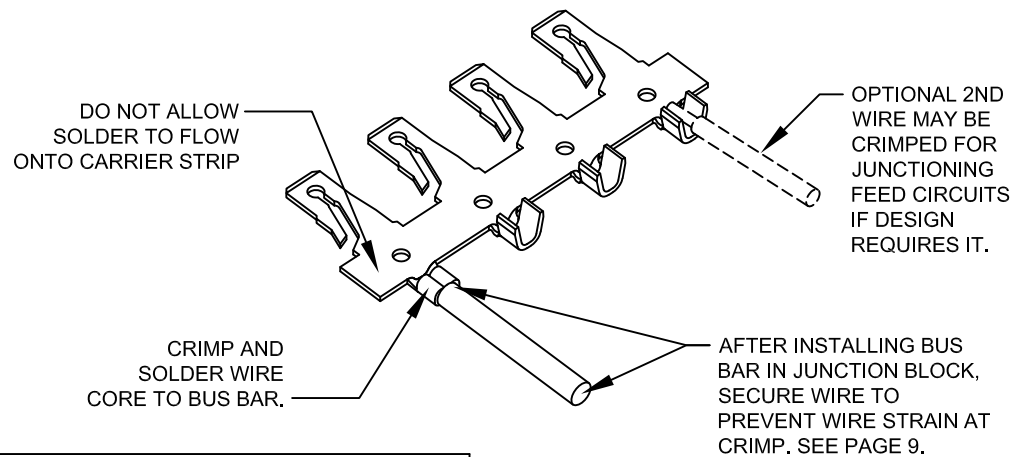


APPROX.
.21"

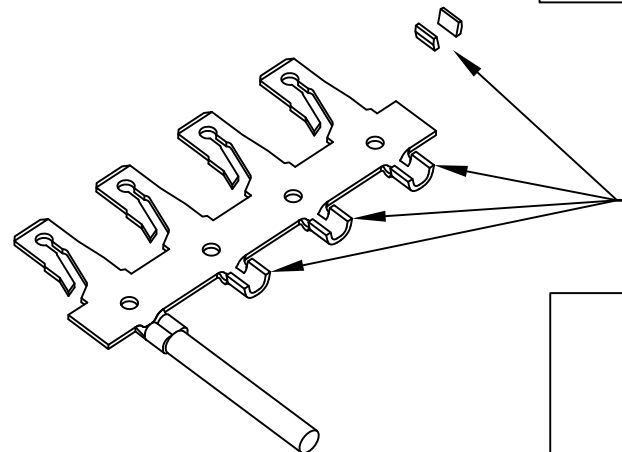
LIGHTLY PRE-TIN SOLDER THE EXPOSED WIRE CORE TO MAKE RE-FLOW SOLDERING EASIER AFTER CRIMPING.

STRIP & PRE-TIN WIRE AS SHOWN.

CRIMP WIRE CORE TO BUS BAR AND SOLDER.
NOTE: WIRE CORE MUST BE SOLDERED TO ENSURE GOOD CONTACT.
CAUTION: USING WIRE CORE CRIMP WINGS ONLY CAN CREATE STRAIN RELIEF PROBLEMS. AFTER SOLDERING, SECURE WIRES TO PROTECT CIRCUITS. SEE PAGE 9.



BENDING WIRE TOO CLOSE TO CRIMP MAY CAUSE WIRE STRAIN AND POSSIBLE BREAKAGE. SECURE WIRES FOR STRAIN RELIEF. SEE PAGE 9.



UNUSED CRIMP WINGS MUST BE BENT DOWN WITH PLIERS OR TRIMMED WITH DIAGONAL PLIERS. BUS BAR WILL NOT INSERT INTO JUNCTION BLOCK UNLESS UNUSED CRIMP WINGS ARE BENT DOWN OR CUT OFF.



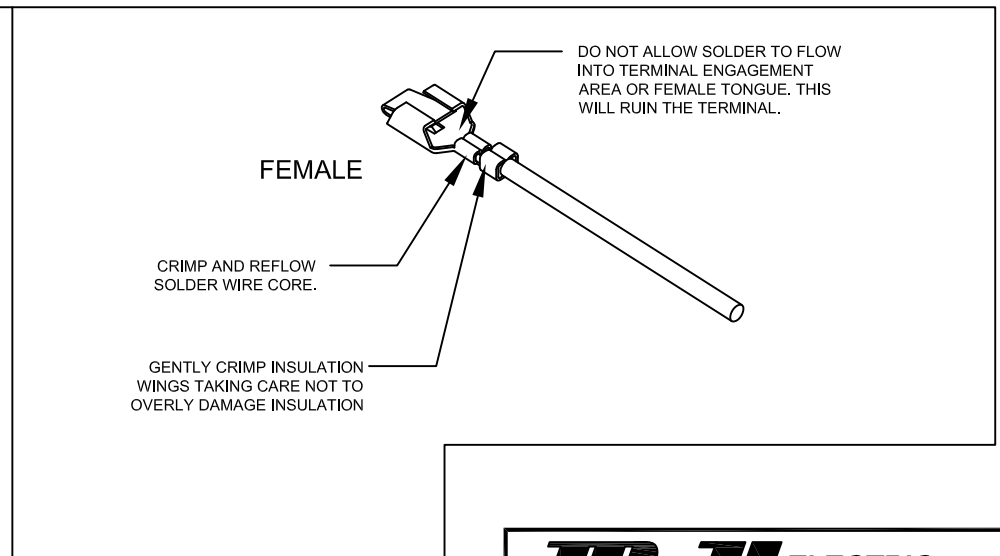
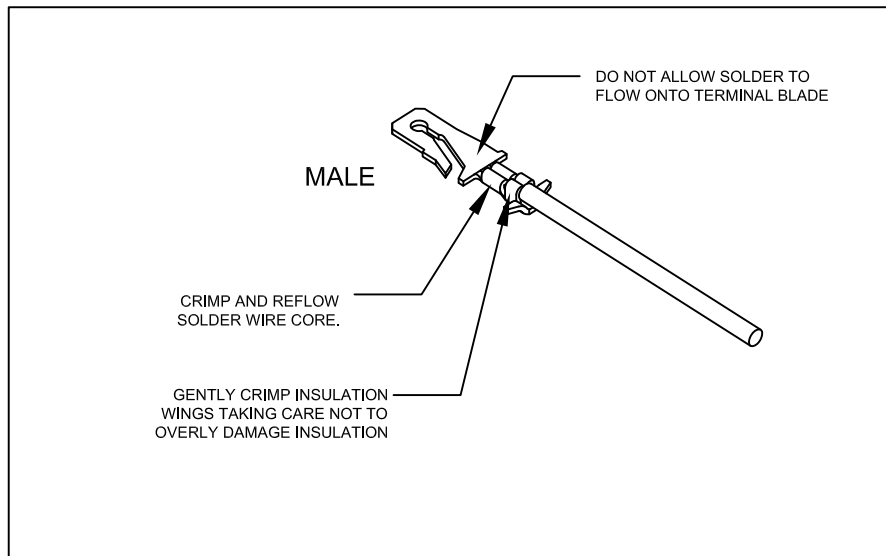
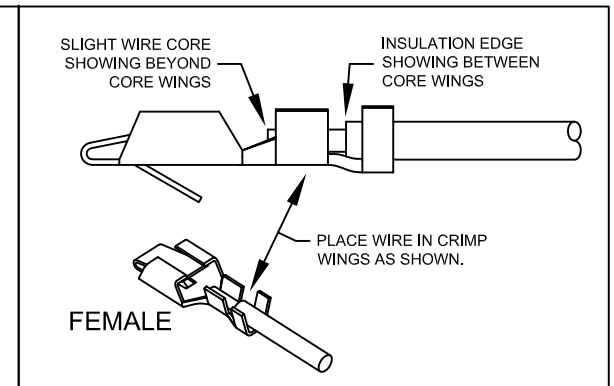
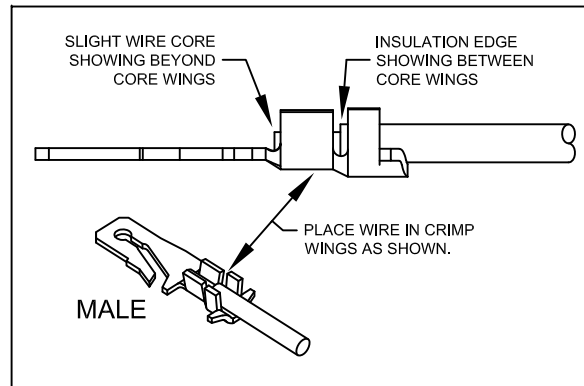
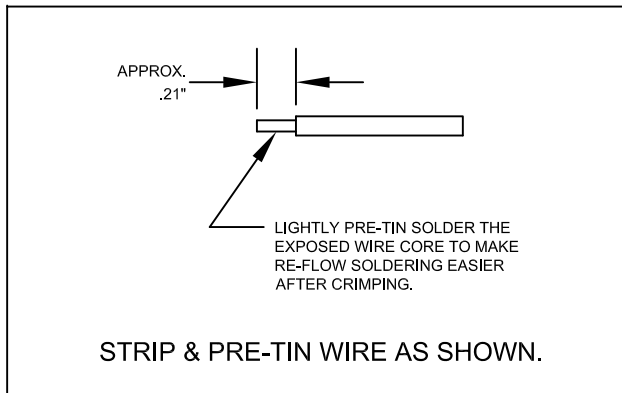
TITLE
INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
WITH 30MM MOUNTING RAILS

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CRIMP & SOLDER SINGLE MALE OR FEMALE TERMINAL

CRIMP WIRE TO TERMINALS AS SHOWN.



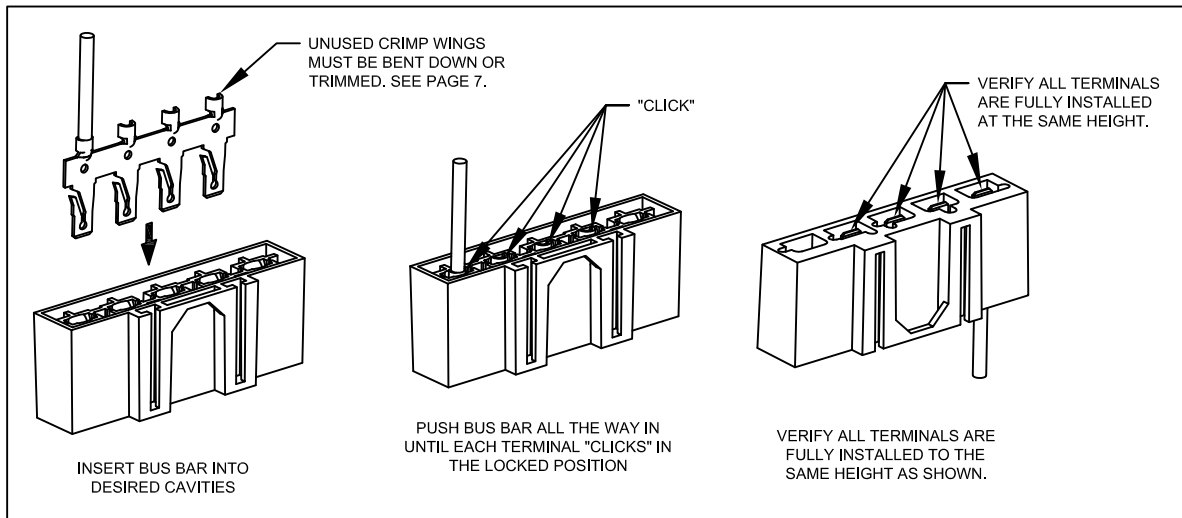
NOTE:

COMMERCIAL CRIMPERS FOR "B" CRIMPING ARE VERY COMMON AND SHOULD BE USED ON SINGLE TERMINALS. HOWEVER, THEY DO NOT FULLY MEET FACTORY CRIMP SPECIFICATIONS SO SOLDERING IS RECOMMENDED.



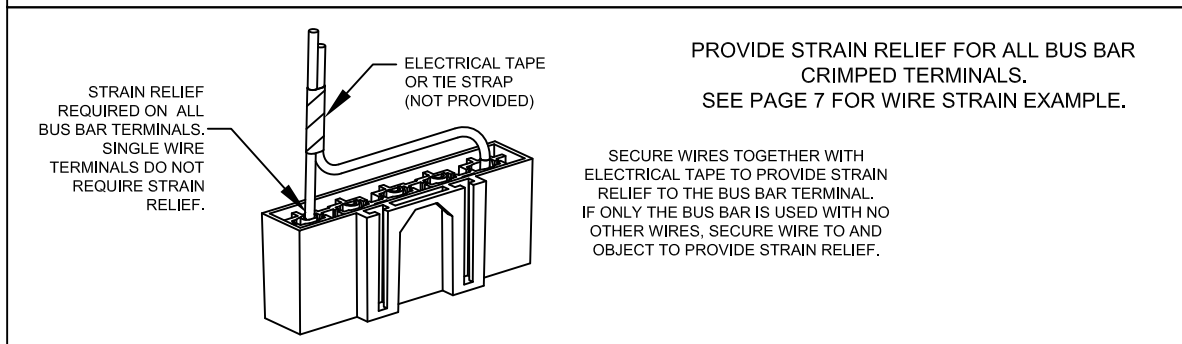
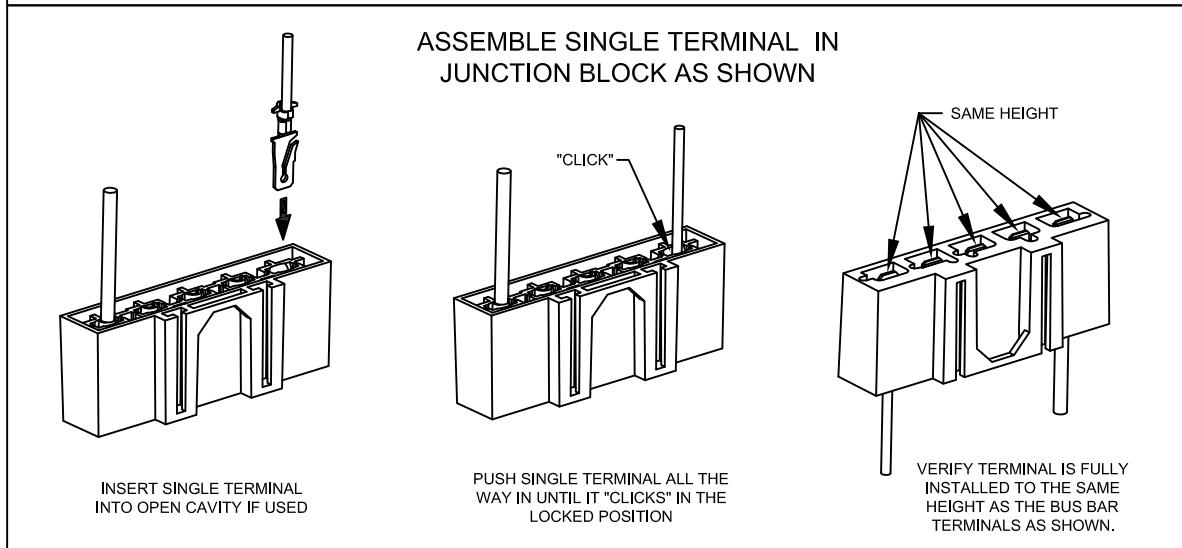
TITLE	INSTRUCTION SHEET 5-WAY CONNECTOR JUNCTION BLOCK WITH 30MM MOUNTING RAILS	
DWG NO.	92974227	SHEET NO. 8 OF 14

JUNCTION BLOCK ASSEMBLY



ATTENTION
 PAY CLOSE ATTENTION TO FEED BUS BARS AND SPECIFIC CONNECTOR INDEXING DESIRED.
 SEE PAGES 4 & 5.

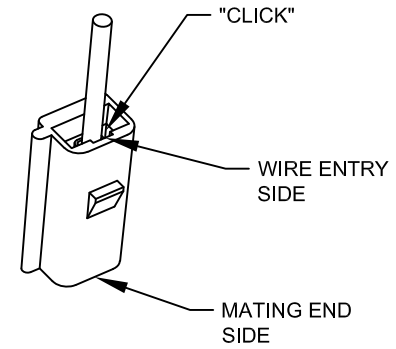
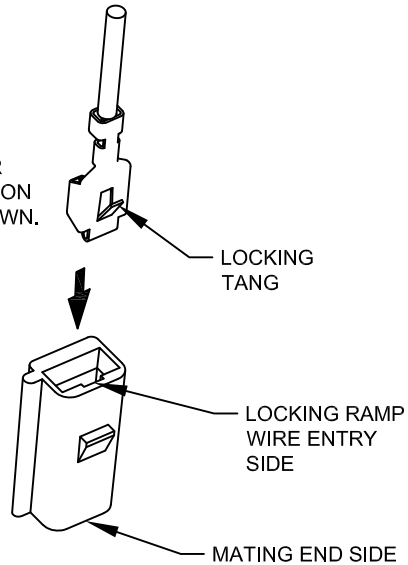
NOTE: A 4-WAY BUS BAR AND SINGLE TERMINAL IS SHOWN FOR REFERENCE ONLY. ANY COMBINATION OF THE BUS BAR AND SINGLE TERMINALS MAY BE USED DEPENDING ON DESIGN NEEDS.



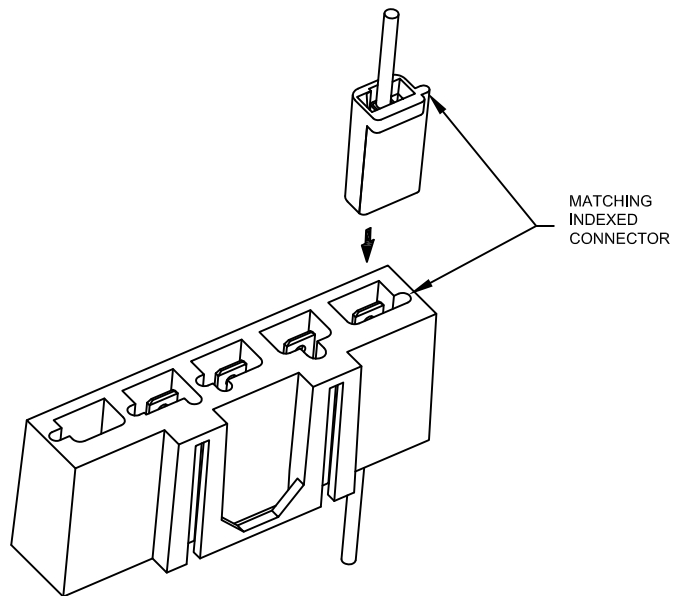
TITLE	
INSTRUCTION SHEET 5-WAY CONNECTOR JUNCTION BLOCK WITH 30MM MOUNTING RAILS	
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ASSEMBLE INDEXED, COLOR-CODED CONNECTOR

INSERT TERMINAL INTO CONNECTOR CAVITY WITH LOCKING TANG LOCATED ON LOCKING RAMP SIDE OF CAVITY AS SHOWN.



INSERT TERMINAL UNTIL A "CLICK" SOUND IS HEARD TO ENSURE TERMINAL IS IN THE LOCKED POSITION.



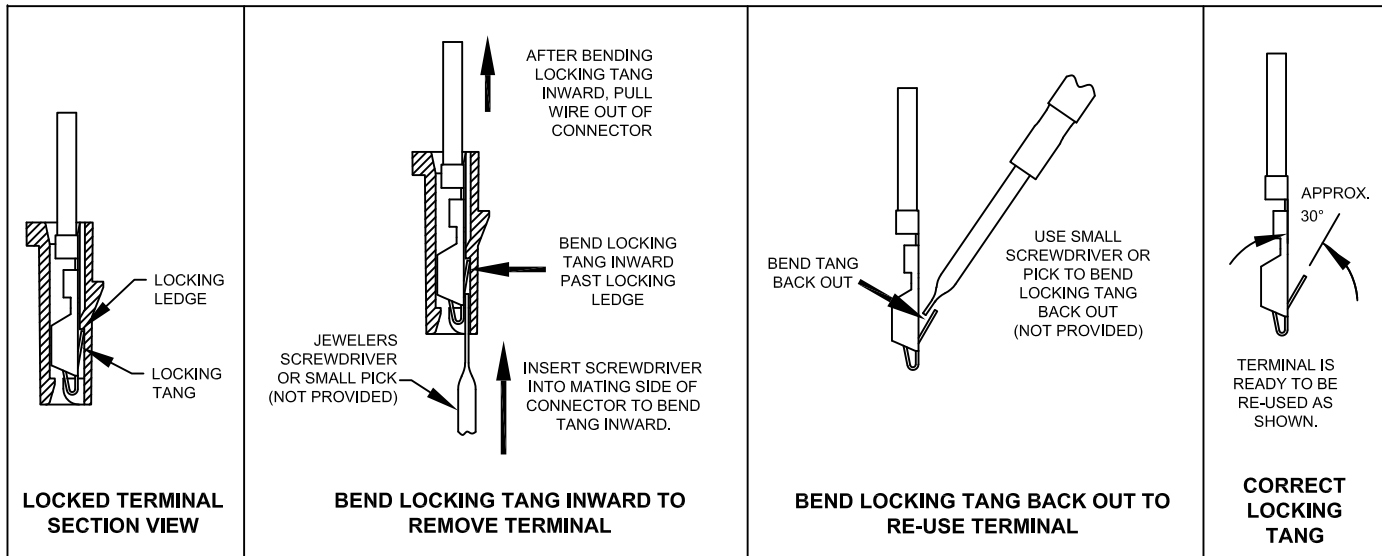
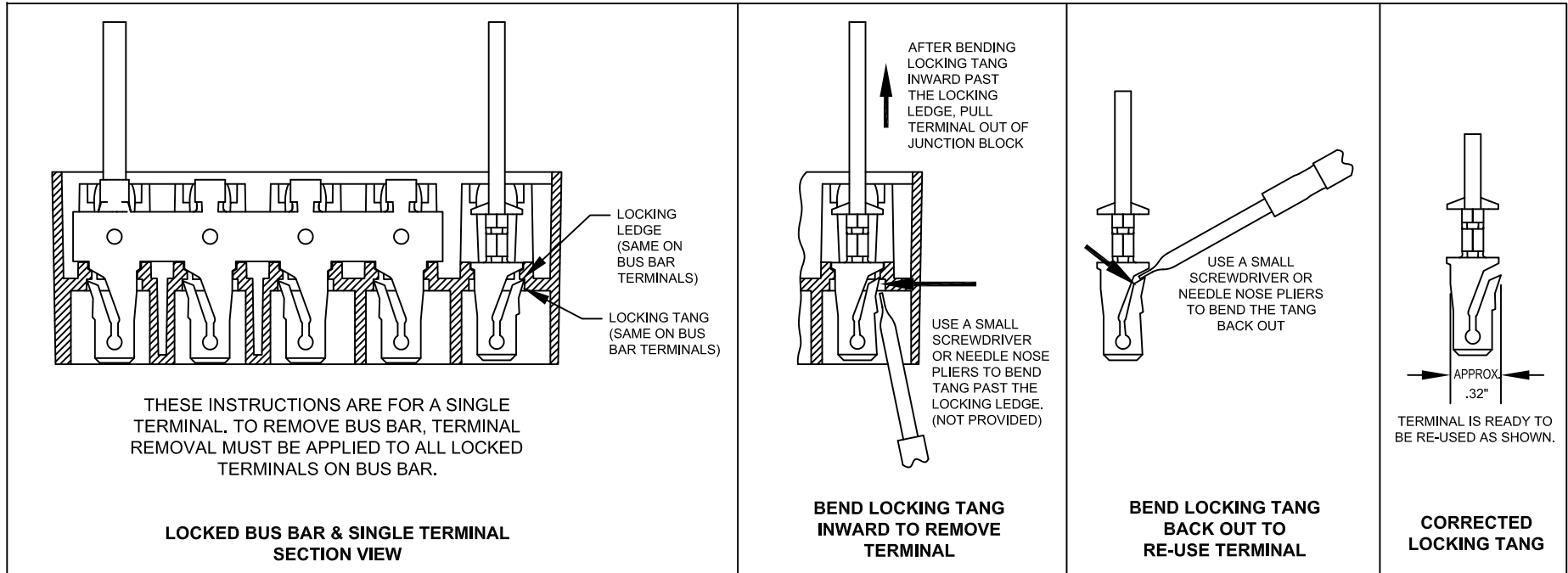
TITLE
INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
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TERMINAL REMOVAL

THIS PAGE SHOWS HOW TO REMOVE THE BUS BAR AND SINGLE TERMINALS



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**INSTRUCTION SHEET
 5-WAY CONNECTOR JUNCTION BLOCK
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TYPICAL JUNCTION BLOCK APPLICATION EXAMPLES

THERE ARE MANY USES FOR THIS JUNCTION BLOCK. IT PROVIDES INDEXED CONNECTIONS TO PREVENT CROSS WIRING OF VARIOUS DEVICES. HERE ARE SOME OF THE POSSIBLE USES FOR LOW TO HIGH AMPERAGE CAPACITY:

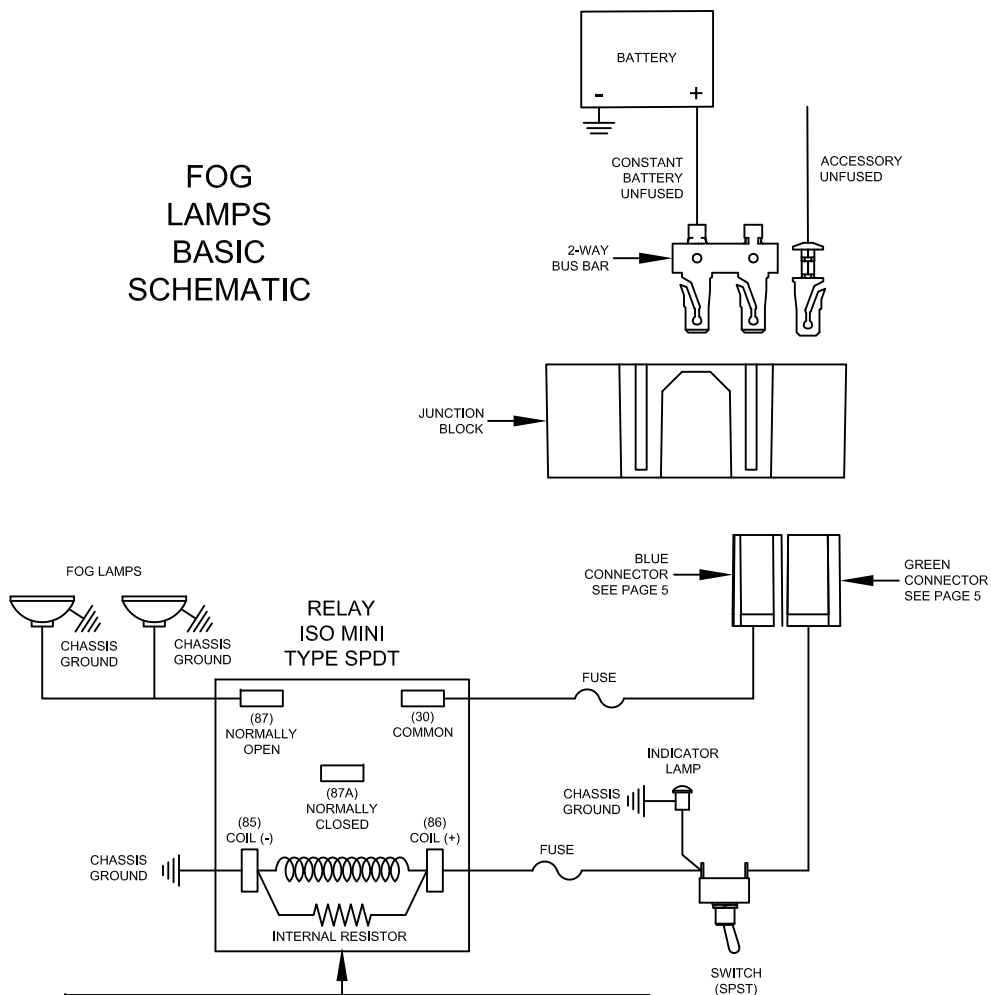
- ELECTRIC FUEL PUMP WITH OR WITHOUT RELAY.
- DUAL ELECTRIC FUEL PUMPS WITH OR WITHOUT RELAYS
- TACHOMETER (AFTER MARKET STEERING COLUMN OR DASH PAD MOUNTED)
- TACHOMETER LAMP (AFTER MARKET STEERING COLUMN OR DASH PAD MOUNTED)
- SHIFT LAMPS (DASH TOP OR STEERING COLUMN MOUNTED)
- SINGLE OR DUAL ELECTRIC FANS WITH RELAY & TEMPERATURE SENDER GROUND.
- ELECTRICAL GAUGES MOUNTED BELOW DASH (OIL PRESSURE, TEMPERATURE, VOLTAGE, ETC.)
- STEREO EQUALIZER
- STEREO AMPLIFIER WITH RELAY
- FRONT FOG OR DRIVING LAMPS WITH OR WITHOUT RELAY
- HIGH INTENSITY LAMPS WITH RELAYS (MOUNT ON ROOF OR ROLL BARS)
- RPM ACTIVATED SWITCHES, ELECTRIC SHIFTERS, & NOS SYSTEMS.
- TOW TRAILER POWER LEADS & CAMPER BATTERY JUNCTION CIRCUITS
- POWER WINDOWS, POWER SEATS, POWER DOOR LOCKS, POWER TOP

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TITLE INSTRUCTION SHEET 5-WAY CONNECTOR JUNCTION BLOCK WITH 30MM MOUNTING RAILS	
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TYPICAL JUNCTION BLOCK SCHEMATICS

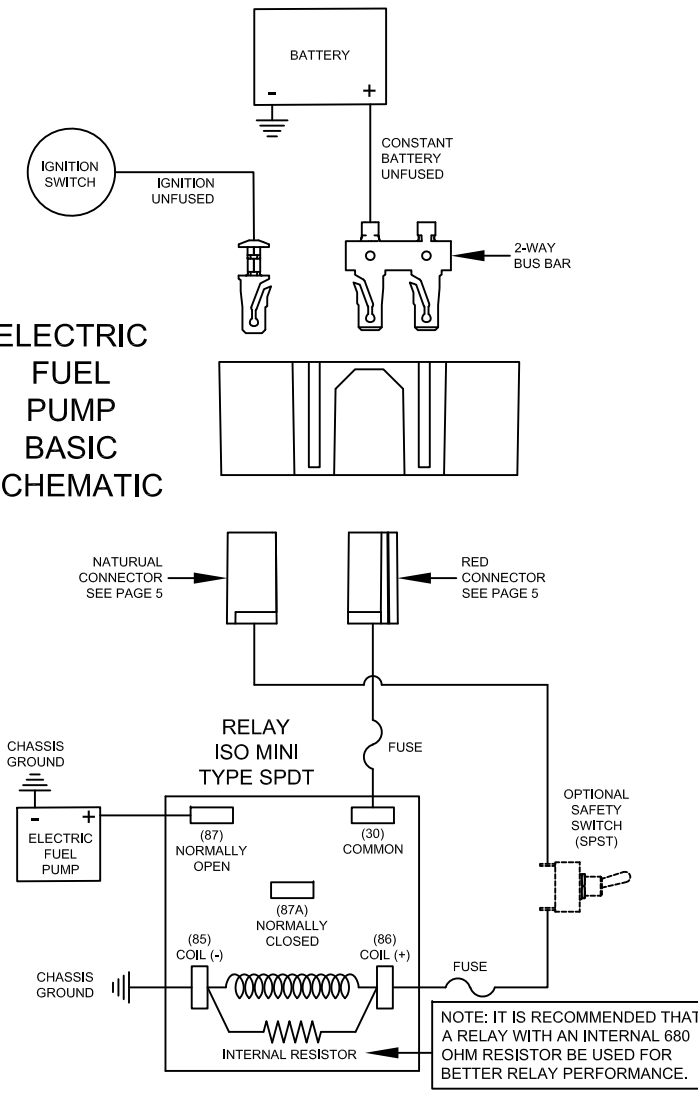
THESE SCHEMATICS ARE FOR REFERENCE ONLY.
FOLLOW DEVICE RECOMMENDATIONS AS REQUIRED.

FOG LAMPS BASIC SCHEMATIC



NOTE: IT IS RECOMMENDED THAT A RELAY WITH AN INTERNAL 680 OHM RESISTOR BE USED FOR BETTER RELAY PERFORMANCE.

ELECTRIC FUEL PUMP BASIC SCHEMATIC



NOTE: IT IS RECOMMENDED THAT A RELAY WITH AN INTERNAL 680 OHM RESISTOR BE USED FOR BETTER RELAY PERFORMANCE.

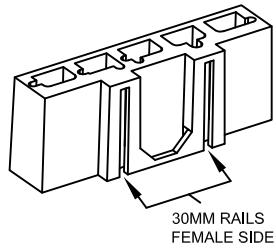


TITLE
**INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
WITH 30MM MOUNTING RAILS**

DWG NO. **92974227** SHEET NO. 13 OF 14

5-WAY JUNCTION BLOCK ATTACHMENT OPTIONS TO DIRECT FIT AUTOFUSE RESTORATION SERIES DASH HARNESSSES

(SEE CATALOG APPLICATIONS FOR SPECIFIC DASH HARNESS PART NUMBERS USING THESE FUSE BLOCKS)



THE 5-WAY JUNCTION BLOCK CAN BE ATTACHED TO THESE ATO SERIES FUSE BLOCKS USED ON CLASSIC AUTOFUSE SERIES DASH HARNESSSES

THIS ATO SERIES FUSE BLOCK IS USED ON THE FOLLOWING CAR LINES:

	1964-67 GM "A" BODY: <ul style="list-style-type: none"> • CHEVELLE / EL CAMINO • SKYLARK / GS • GTO / LEMANS • CUTLASS / 442
	1963-67 GM "B" BODY: <ul style="list-style-type: none"> • IMPALA • CAPRICE • BISCAYNE • BEL AIR • AND OTHER CHEVY PASSENGER MODELS
	1967 GM "F" BODY: <ul style="list-style-type: none"> • CAMARO • FIREBIRD
	1967-69 "Z" BODY: <ul style="list-style-type: none"> • CORVAIR

THIS ATO SERIES FUSE BLOCK IS USED ON THE FOLLOWING CAR LINES:

	1968-77 GM "A" BODY: <ul style="list-style-type: none"> • CHEVELLE / EL CAMINO • MONTE CARLO • SKYLARK / GS • GTO / LEMANS • CUTLASS / 442
	1968-71 GM "B" BODY: <ul style="list-style-type: none"> • IMPALA • CAPRICE • BISCAYNE • BEL AIR • AND OTHER CHEVY PASSENGER MODELS
	1968-79 GM "F" BODY: <ul style="list-style-type: none"> • CAMARO • FIREBIRD • 68 & 69 ALREADY COMPLETE
	1968-74 GM "X" BODY: <ul style="list-style-type: none"> • CHEVY II / NOVA
	1968-78 GM "Y" BODY: <ul style="list-style-type: none"> • CORVETTE

30MM MALE MOUNTING RAILS

PART # 44302
4-WAY ATO ACCESSORY KIT

THIS ATO SERIES FUSE BLOCK IS USED ON THE FOLLOWING CAR LINES:

	1958-62 GM "B" BODY: <ul style="list-style-type: none"> • IMPALA • BEL AIR • BISCAYNE • CAPRICE
	1962-67 GM "X" BODY: <ul style="list-style-type: none"> • CHEVY II / NOVA
	1958-67 GM "Y" BODY: <ul style="list-style-type: none"> • CORVETTE

30MM MALE MOUNTING RAILS

PART # 44301
4-WAY ATO ACCESSORY KIT WITH SIDE MOUNTS

NOTE:
CUSTOMER MUST DETERMINE IF THERE IS SUFFICIENT SPACE TO ATTACHED 5-WAY JUNCTION BLOCK TO ATO FUSE BLOCK AFTER DASH HARNESS HAS BEEN INSTALLED IN VEHICLE.



TITLE
**INSTRUCTION SHEET
5-WAY CONNECTOR JUNCTION BLOCK
WITH 30MM MOUNTING RAILS**

DWG NO. **92974227** SHEET NO. 14 OF 14