

OWNER MANUAL / WIRING DIAGRAMS

GAS AND ELECTRIC POWERED MODELS

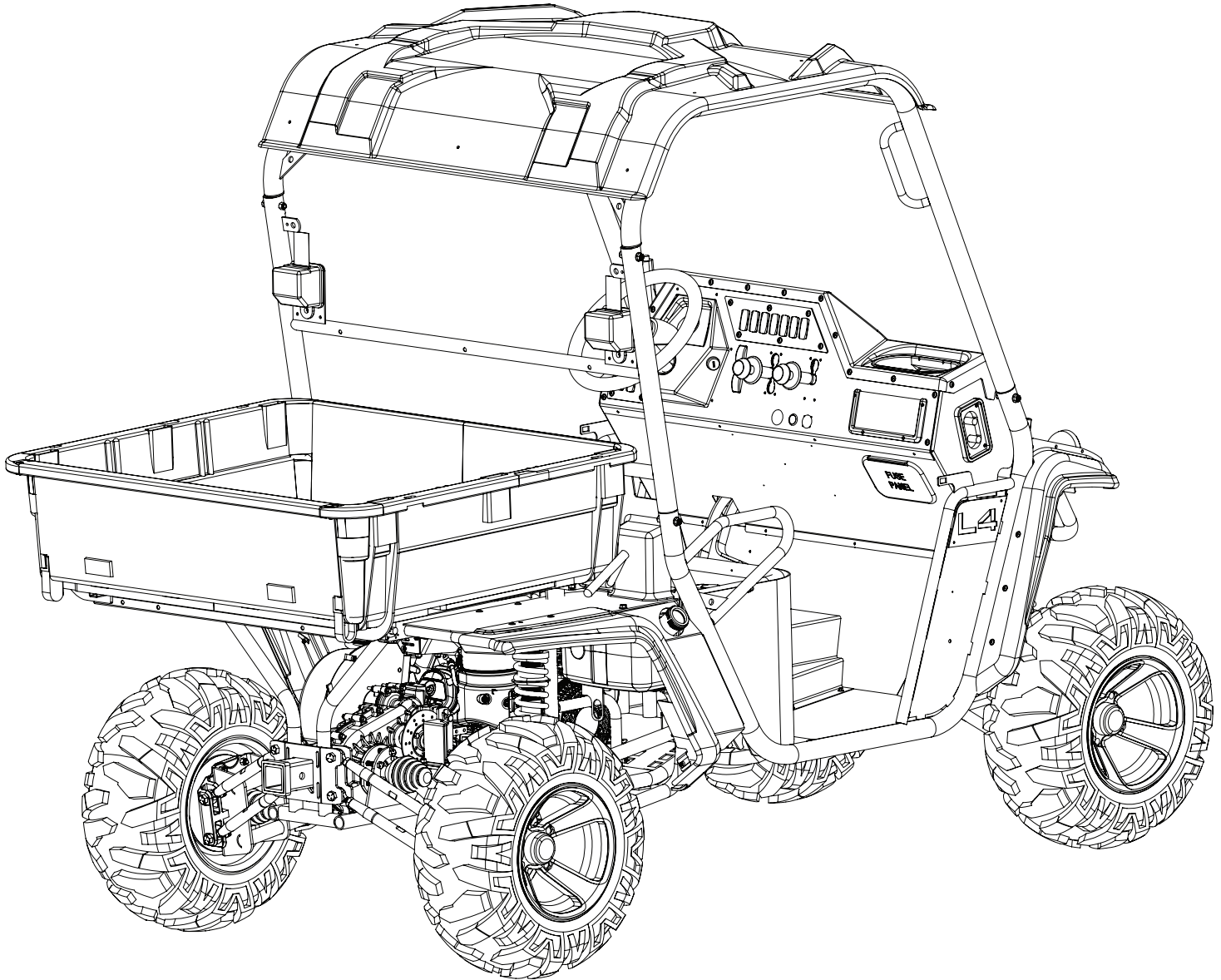


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DESCRIPTION OF THE ELECTRICAL SYSTEM

The American Landmaster Electrical System is designed for improved functionality and customer satisfaction in mind. Flexibility, High Reliability and Ease of Use are at the forefront of this system. The major new elements of the system include:

- Plug and Play harness architecture makes adding new electrical features in the field a simple task.
- Popular electrical options may be installed in the factory or in the field.
- Weather sealed electrical connectors for higher reliability
- Color coded electrical connectors for error proof assembly and service
- Color coded wires for easier troubleshooting
- Large easy to read switch controls with bright back lights.

The electrical system begins with a single instrument panel harness which is common for all vehicles. It stretches across the back side of the instrument panel. This harness provides the foundation for power distribution, connections to all standard electrical interfaces as well as a collection of optional feature harnesses. Standard feature connections include:

- Battery Input
- Ground Input
- Head Lights
- Ignition switch
- Park Brake Switch
- 12 Volt Power Socket
- Hour Meter / Voltmeter Connector
- Engine Interface Connector
- Park Brake / Seat Belt Warning Light
- 4 Wheel Drive Switch

Optional Electrical Connections in the instrument panel harness include:

- USB Charger (Gray 2 pin connector)
- Power Steering Ignition (Black 1 pin connector)
- Street Cruiser Light and Horn Package: Turn Signals, Horn, Back Up Alarm (Green Connector)
- Commercial Signal Package: Horn, Strobe Light, Back Up Alarm (Green Connector)
- Work and Ride Light Package: Flood Light, Dome Light, Rear Bed Light (Blue Connector)
- Flood Light Only (Blue Connector)
- Winch or Snow Plow Connector (Gray 4 pin Connector)
- Bed Lift Connector (Gray 4 pin Connector)
- Radio Ignition, back light and ground (Gray 3 pin connector)

The electrical system employs a fuse and relay block on the passenger side of the instrument panel. This fuse block contains most all fuses for the vehicle in one location. Certain fuses for the engine and power steering are supplied by the vendors and could not be included in this block. These fuses are of the "Mini Fuse" design with a 2.8 millimeter blade and are available at all auto parts stores.

The following is a legend of the fuse block. This diagram may be found on the back side of the fuse panel cover, Push down on the upper lip of the cover to release it from the instrument panel.

RADIO IGNITION 20 AMP	IGNITION RELAY 20 AMP	IGNITION SWITCH, HEADLIGHTS, ENG IGN, 20 AMP	IGNITION RELAY
WINCH / PLOW 30 AMP	BED LIFT 30 AMP	ENGINE BATTERY 15 AMP	
TURN SIGNAL, HORN BACKUP ALARM 15 AMP	POWER SOCKET HOUR MTR, PARK BRK 15 AMP	SPARE	SPARE
SPARE	SPARE	SPARE	

The next portion of the electrical system is the engine harness. The engine harness is connected to the instrument panel through a single eight pin connector. This connector provides all low current signals for the engine such as ignition, starter control and warning lights. High current four gauge cables are included separately to power the engine starter. The engine connector also provides a connection for a seat belt warning light and a four wheel drive control. There is a specific engine harness for both standard cab and crew cab vehicles due to the different length requirements. One last standard harness connection is the short adapter harness to hook up the hour meter / volt meter in front of the driver. This is accomplished through a single three pin connector. This concludes the standard wiring for the vehicle.

Adding other chassis options to a basic vehicle is a simple task. The design enables adding these features by merely connecting an add on harness to the standard instrument panel through a single connector, then add the respective feature device(s) with supplied weather sealed connections. Attach the device to the vehicle chassis and the task is complete. In many cases, one or more rocker switches must be added to the instrument panel. A seven switch plate is provided with knock out blanks to accommodate added rocker switches. Remove a blank and add a switch as required. Be sure to line up the catch on the harness connector with the hook on the switch. Each harness switch connector is labeled with a name tag for its function.

There are multiple features that may be connected to these color coded connectors. There are two features that can be connected to each of the green and the blue connectors. One is a subset of the other and are mutually exclusive of one another. For example the Work and Ride Light Package includes a front flood light, a dome light and a rear bed light which connects with the blue connector. However, if the customer only wants a front flood light, then a simple two wire harness is selected which also connects to the instrument panel harness through the blue connector. There are two larger gray 4 pin connectors that and be used with two of the following three features: winch, snow plow or bed lift. The customer can hook any two of these three features to these gray connectors. The gray connections are interchangeable.

Optional harness connections are described in the schematics found on the following pages in this document. These features may be obtained in various special model packages or as an ala carte feature that may be factory installed or obtained as a complete kit from American Landmaster for your installation.

ELECTRICAL DO'S AND DON'TS

The American Landmaster Electrical System is fairly simple system, however, there are a collection of DO's and DON'Ts that must be followed when performing repairs or feature additions to a vehicle.

Do's:

- Do use dielectric grease on connector terminals after repairs.
- Pay attention to the orientation of the switch connectors if you remove one.
- The hook on the end of the switch must line up with the latch on the harness connector as the two are mated.
- Ensure that harnesses are properly routed where they will not be chaffed or pinched by sharp metal edges.
- Retain new or repaired harnesses with tie wraps to ensure harness safety and reliability.
- Be sure that wire harnesses are properly retained with tie wraps every 12 inches.
- Remove both the vehicle hood and the top instrument panel cover when servicing the electrical system or adding a feature. It may be necessary to remove the engine tunnel cover as well for roof or rear chassis features. Refer to the installation guides for the proper instructions.

Don'ts:

- Do not attempt to troubleshoot any portion of the electrical system until you have studied and understand the electrical schematics on the following pages.
- Use proper tools when working with the weather sealed connectors. Do use prescribed wire terminal crimp tools if you are going to repair a connector.
- Do not try to crimp a terminal with common pliers. Most connectors are of the Deutsch family but are supplied by Amphenol. Use "barrel" type terminals for repair since they are much easier to crimp. There are a smaller number of connectors in the system supplied by Aptiv (Delphi) of the
- Metripack 150 sealed family. Refer to the parts list of each schematic for the proper connector and terminal part number.
- Depress the tab when separating harness connectors. Place your fingers on each half of the connector to separate. Do not try to separate the connectors by pulling on the wires. If you have to force it, you are not properly depressing the release tabs.
- Never pierce the insulation of any wire with a sharp probe when troubleshooting.
- Never force volt meter probes into connector wire terminals. If you must make connections to measure voltage or resistance, always use a mating terminal meant for that connector. Terminals may be purchased from most any electrical supplier such as Newark, Digi-Key or Waytek Wire.
- Do not try to just pull the connector off of a rocker switch. Depress the latch on the harness connector before pulling it off. It is best to use a rocking motion to release the connector from the switch.

HOW TO READ THE SCHEMATICS AND SIGNAL NAMES

Each harness package provides five elements which include the harness print, a physical layout, a schematic, a parts list and a wire connection list. The schematic will be the most relevant page for most users. The schematics of the harnesses in the electrical system are presented in a table form. Each connector is assigned a label or reference designator. For example the left head light connector is labeled as C1. All the other connectors have their own unique labels as well. Beside each connector picture is a table that describes the wires present in that connector. The table shows a signal name, a connector pin number, a coded wire name and a wire destination. Since any wire has two ends, the other end of the wire is described by the destination column. For example, the engine connector has eight wires. The starter wire is found on pin 3, its wire name is 1-ST1 and the other end of the wire is found at connector C11 (Ignition switch) pin 3. If more information is required for this wire, look at the wire net list for wire color, size and length. All the connectors follow a similar format.

Engine Overlay
(8 pin) (C5)

Name	Pin	Circuit #	Destination
ENG Bat	1	1-BT6	PDM Pin B5
ENG IGN	2	1-IG9	Splice 8
Starter	3	1-ST1	C11Pin 3
ENG GND	4	1-GN10	Splice 2
ENG Stop	5	1-ES1	C11PIN 5
2/4WD SW	6	1-TA1	C13 Pin 3
Back Light	7	1-HL5	Splice 4
Seat Belt	8	1-SB1	C14 Pin 1B

In addition, a unique wire name is required for each wire in each harness. This aids in troubleshooting and in harness manufacturing. Here is a legend to provide clarity on reading schematic wire names.

Wire Naming Convention

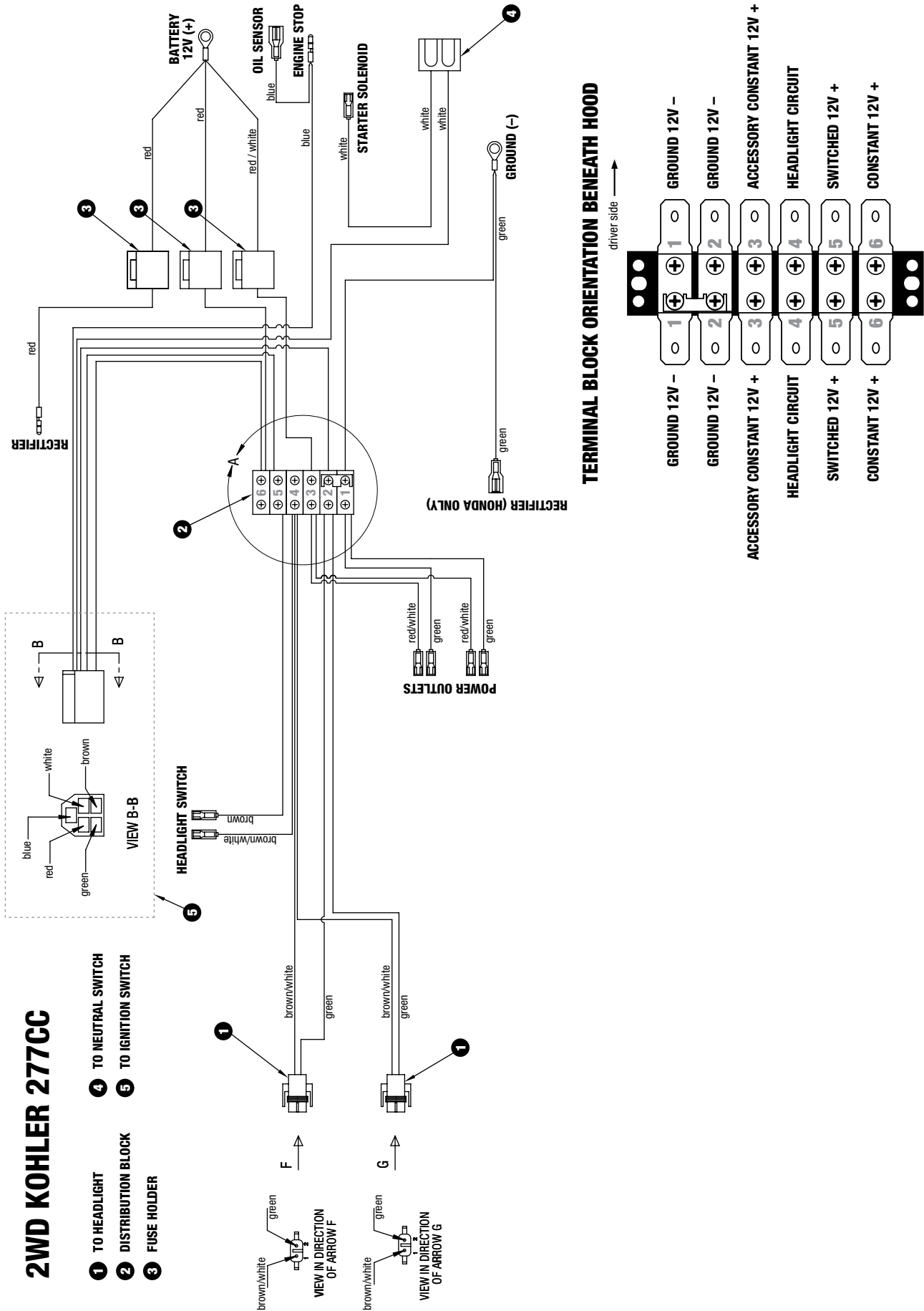
Harness ID Prefix		System Identifier / Wire color			Wire Number Per System	
Wire Harness Prefix	Harness	Circuit Name	Circuit Code	COLOR	Wire Segment	
1	Standard Inst. Panel Har.	Back Up Alarm	BA	Gray	1	
2	Roof Harness	Battery	BT	Red	2	
3	Bed Lift	Ignition	IG	Pink	3	
4	Engine	Dome Lights	DL	Yellow / Black	4	
5	Snow Plow	Engine Controls	EC	Violet	5	
6	Winch	Overhead Light	OL	Red / Yellow	6	
7	Hour Meter Battery Meter	Fuel	FL	Gray	7	
8	Auxiliary Harness	Ground	GN	Black	8	
		Headlights	HL	Red / Yellow	9	
		Bed Lift	BL	Orange	10	
		Horn	HN	Gray	*	
		Park Brake	PB	Green	*	
		2WD/4WD	TA	Gray	*	
		Snow Plow	SP	Orange / Black	*	
		Strobe Lights	SL	Red / Yellow	*	
		Seat Belt	SB	Green	*	
		Turn Signals	TS	Orange	*	
		Winch	WN	Green / Yellow	*	
		Work Lights	WL	Yellow	N	
		Brake Lights	BL	Gray		
		Starter	ST	Biolet		
		Engine Stop	ES	Blue		

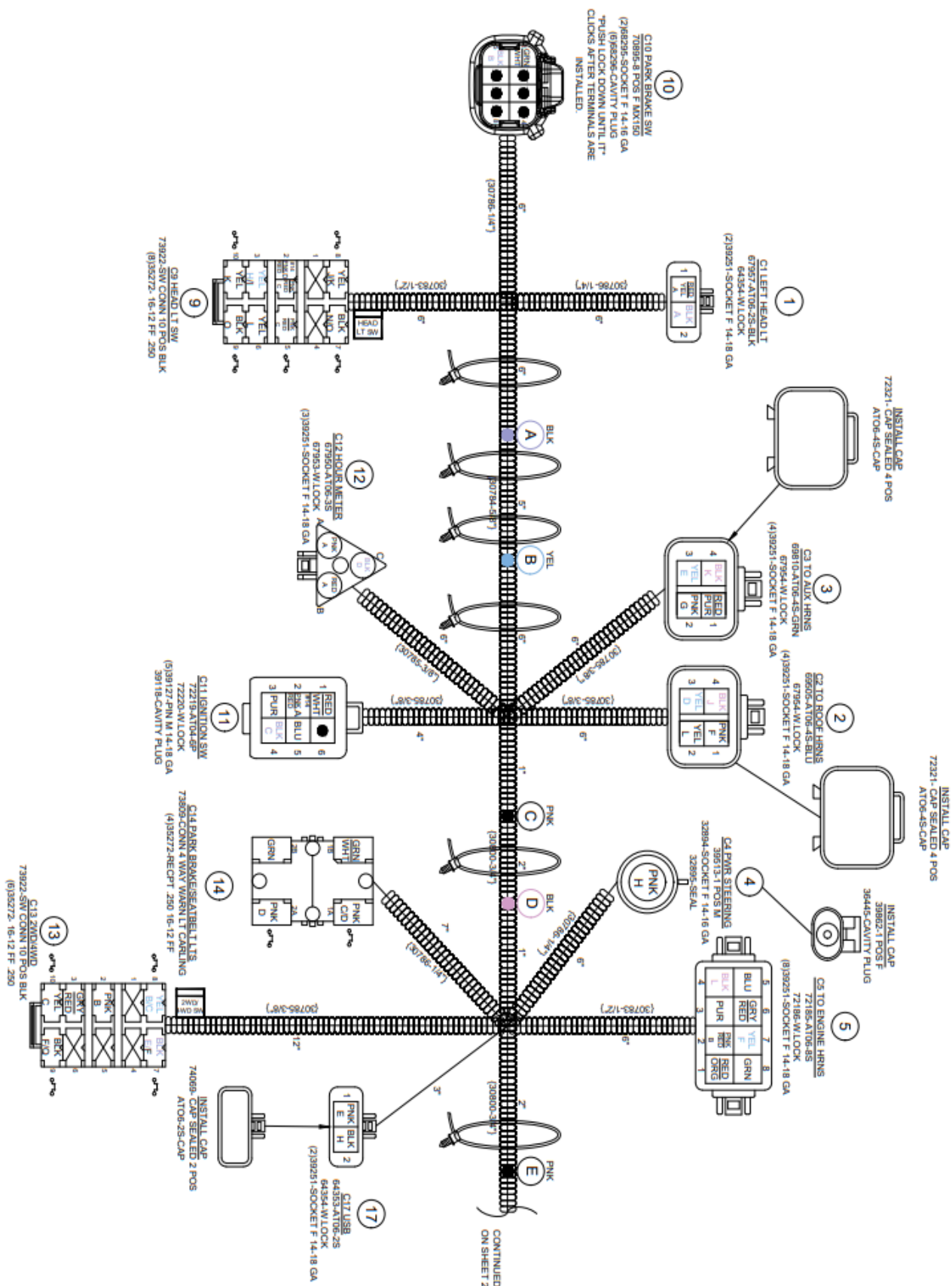
Example: 1-IG1 is the first ignition wire in the Instrument Panel Harness

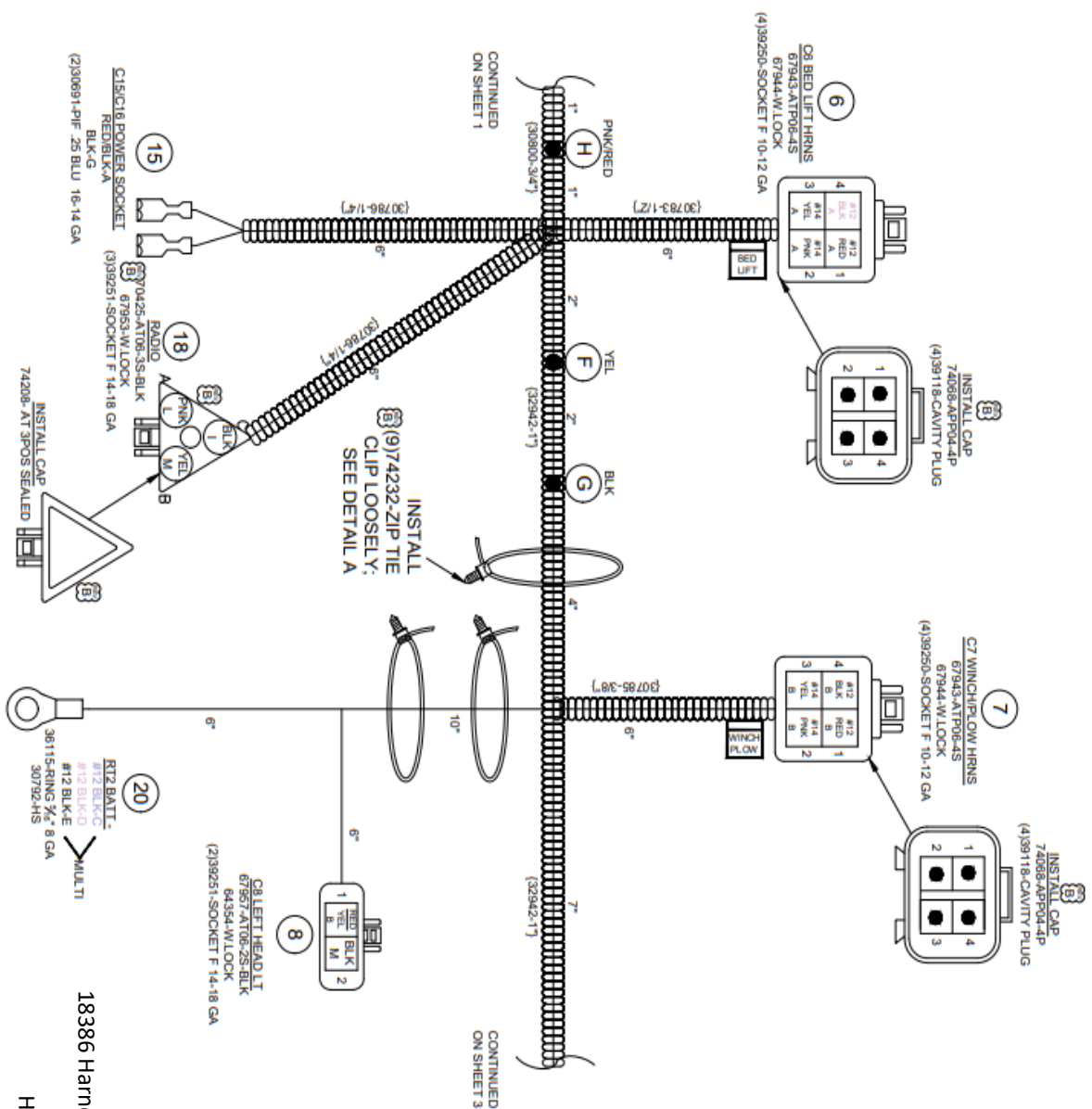
SAFETY AND CAUTION WARNINGS

The American Landmaster Electrical System is a very safe system, however, a few cautions are listed below:

- Use proper tools for the job. This includes proper crimp tools for connectors and wrenches for fasteners.
- If you are working on battery circuits, disconnect the negative lead from the battery.
- If you are only adding optional harnesses to the vehicle it is not necessary to disconnect the battery power.
- When using the jump start studs, be sure to place the positive cable from the jump vehicle to the red post on the stud block and the negative lead on the black stud.
- Do not operate the remote winch switch cable at the same time as the winch rocker switch.
- Do not route any harness or cable where it could be pinched or chaffed by a sharp metal surface.
- Except for the 350 model, this is an all new electrical system and does not bear any resemblance to the previous electrical systems from American Landmaster. Study the circuit diagrams carefully.

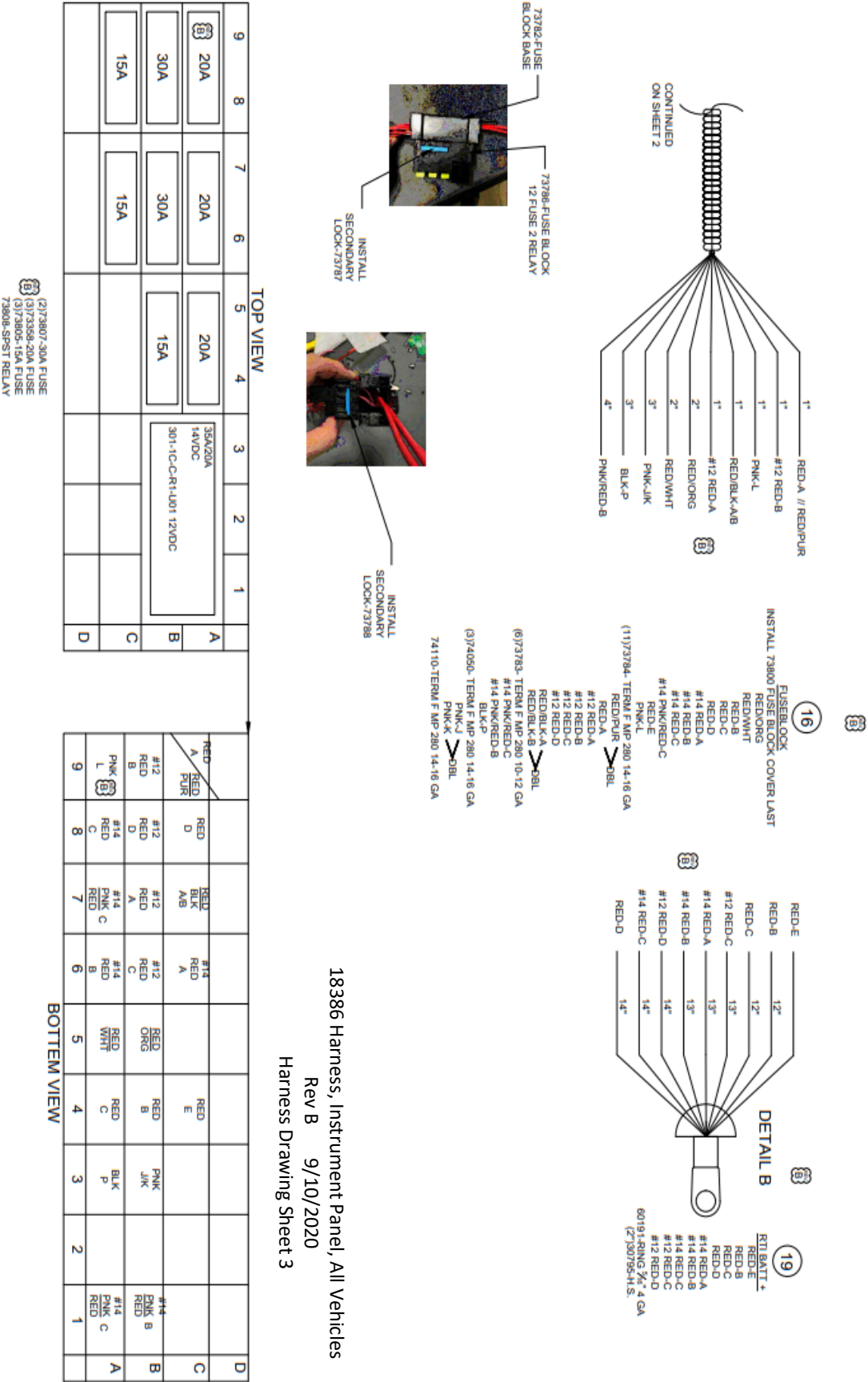




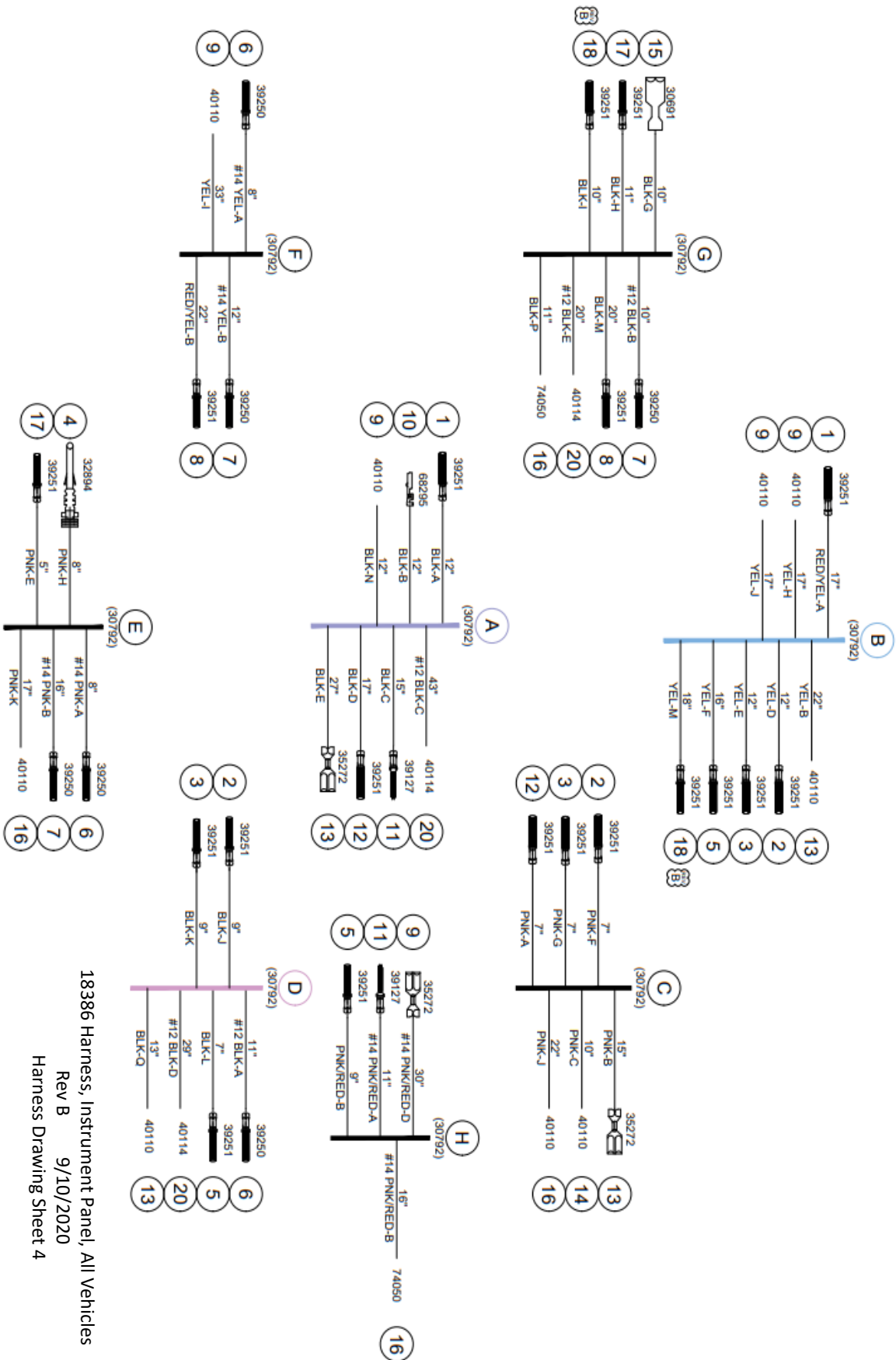


DETAIL A

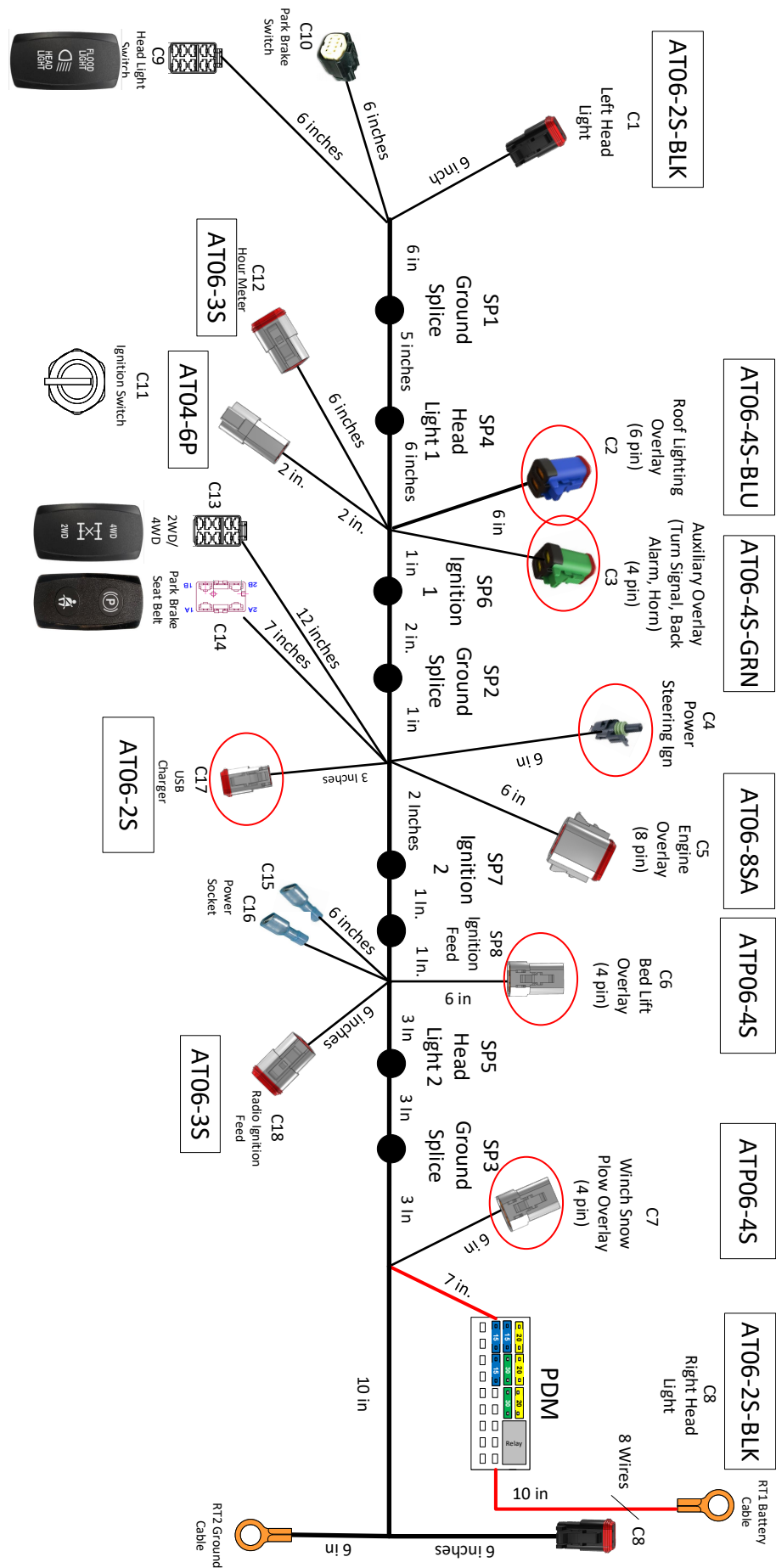
18386 Harness, Instrument Panel, All Vehicles
Rev B 9/10/2020
Harness Drawing Sheet 2

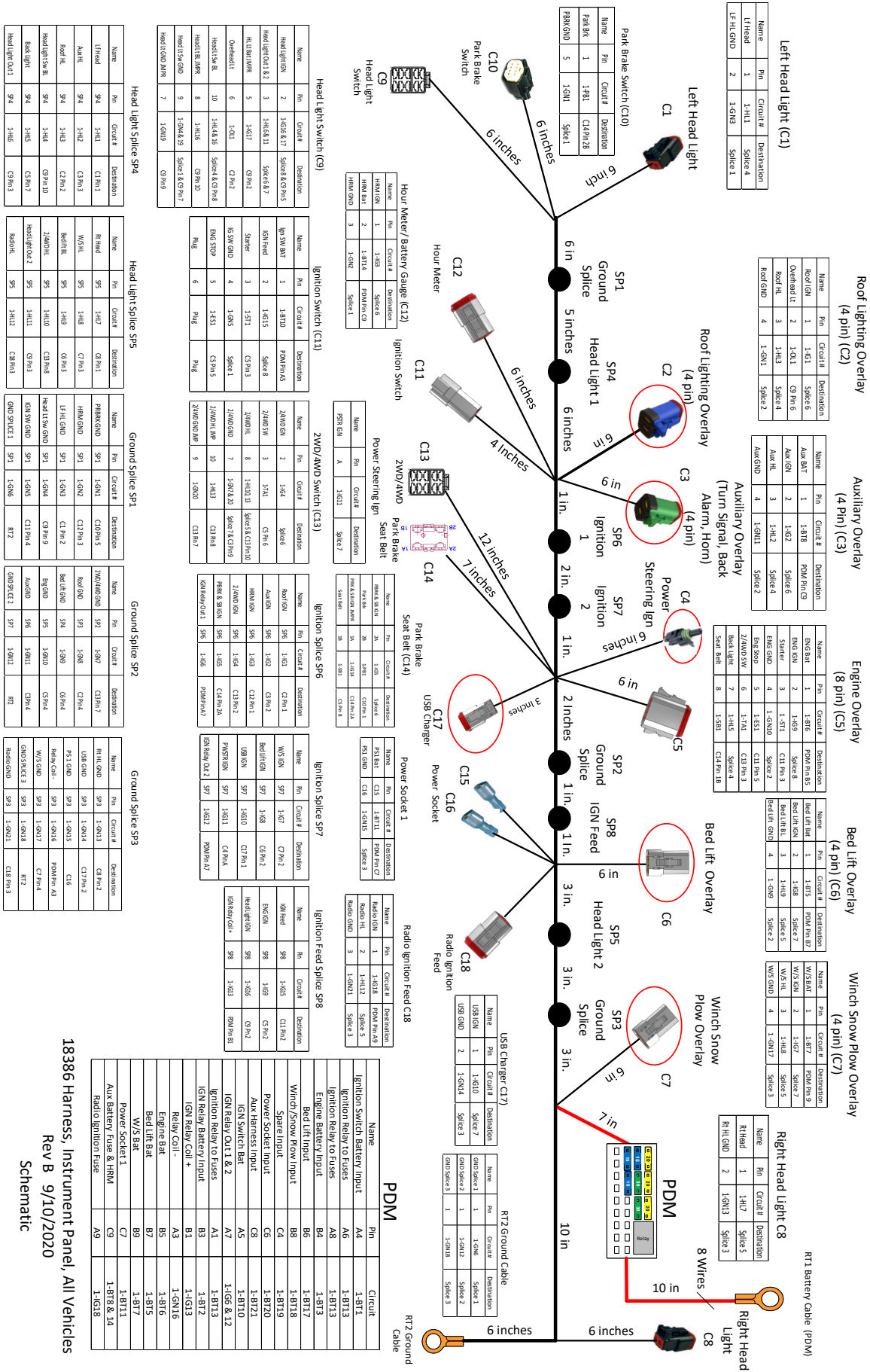


18386 Harness, Instrument Panel All Vehicles
Rev B 9/10/2020
Harness Drawing Sheet 3



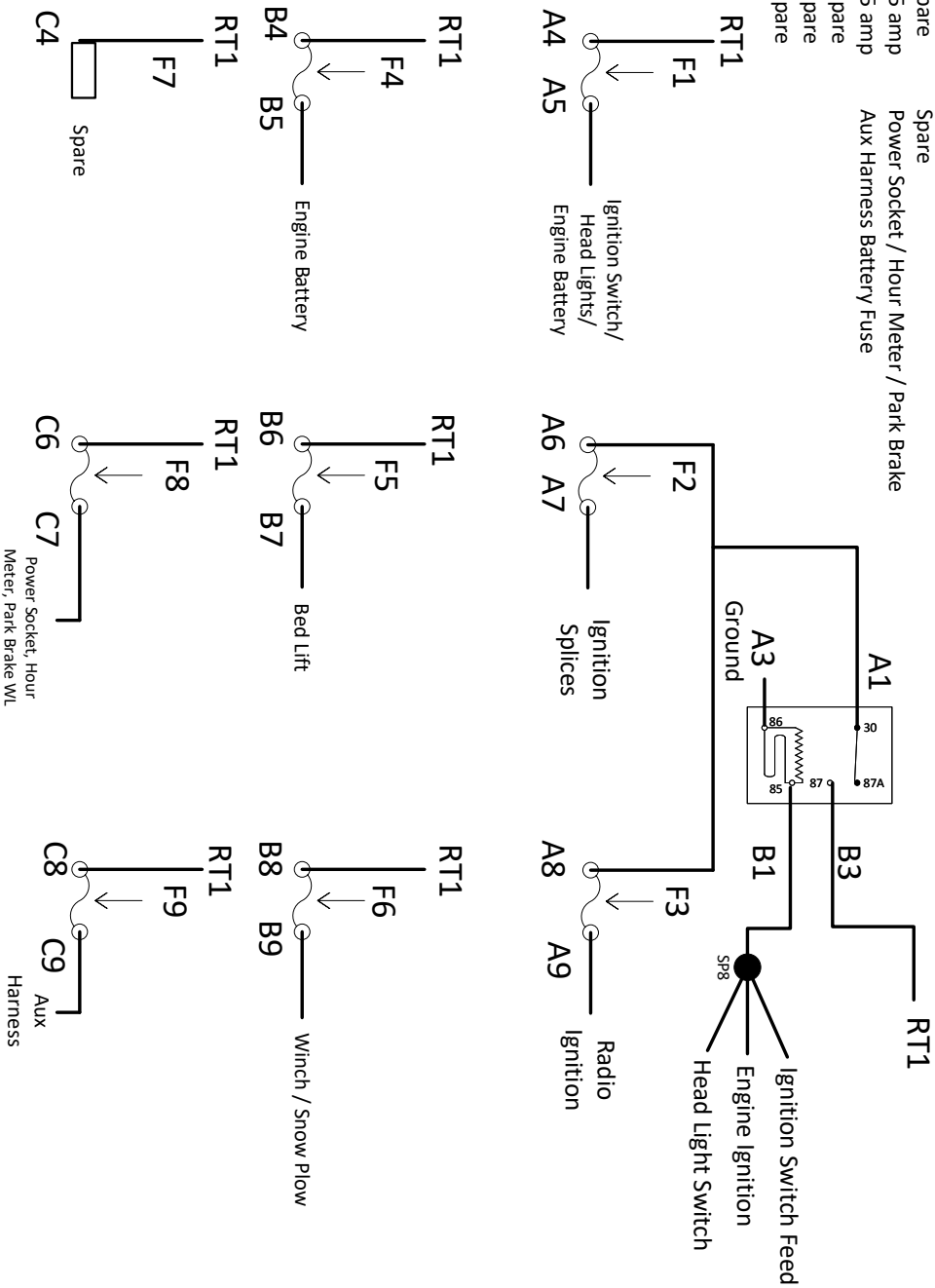
18386 Harness, Instrument Panel, All Vehicles
Rev B 9/10/2020
Harness Drawing Sheet 4



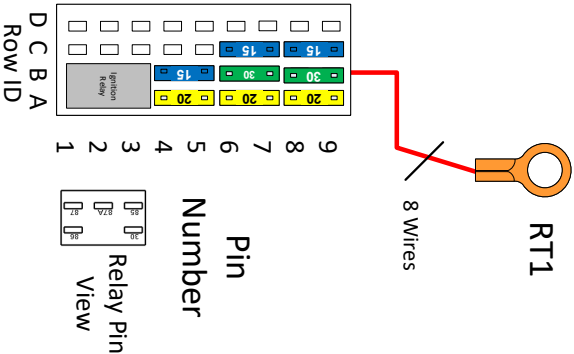


Fuse Assignments

- F1 20 amp Ignition Switch / ENG IGN / Headlights
- F2 20 amp Ignition Relay Fuse
- F3 20 amp Radio Ignition
- F4 15 amp Engine Battery Fuse
- F5 30 amp Bed Lift Connector Fuse
- F6 30 amp Winch / Snow Plow Fuse
- F7 Spare Spare
- F8 15 amp Power Socket / Hour Meter / Park Brake
- F9 15 amp Aux Harness Battery Fuse
- F10 Spare
- F11 Spare
- F12 Spare



Fuse Block Layout



Aptiv Fuse Block
12084910

Wire Naming Convention

Harness ID Prefix

Wire Harness Prefix	Harness
1	Standard
2	Roof Harness
3	Bed Lift
4	Engine
5	Snow Plow
6	Winch
7	Hour Meter Battery Meter
8	Auxiliary Harness

System Identifier / Wire Color

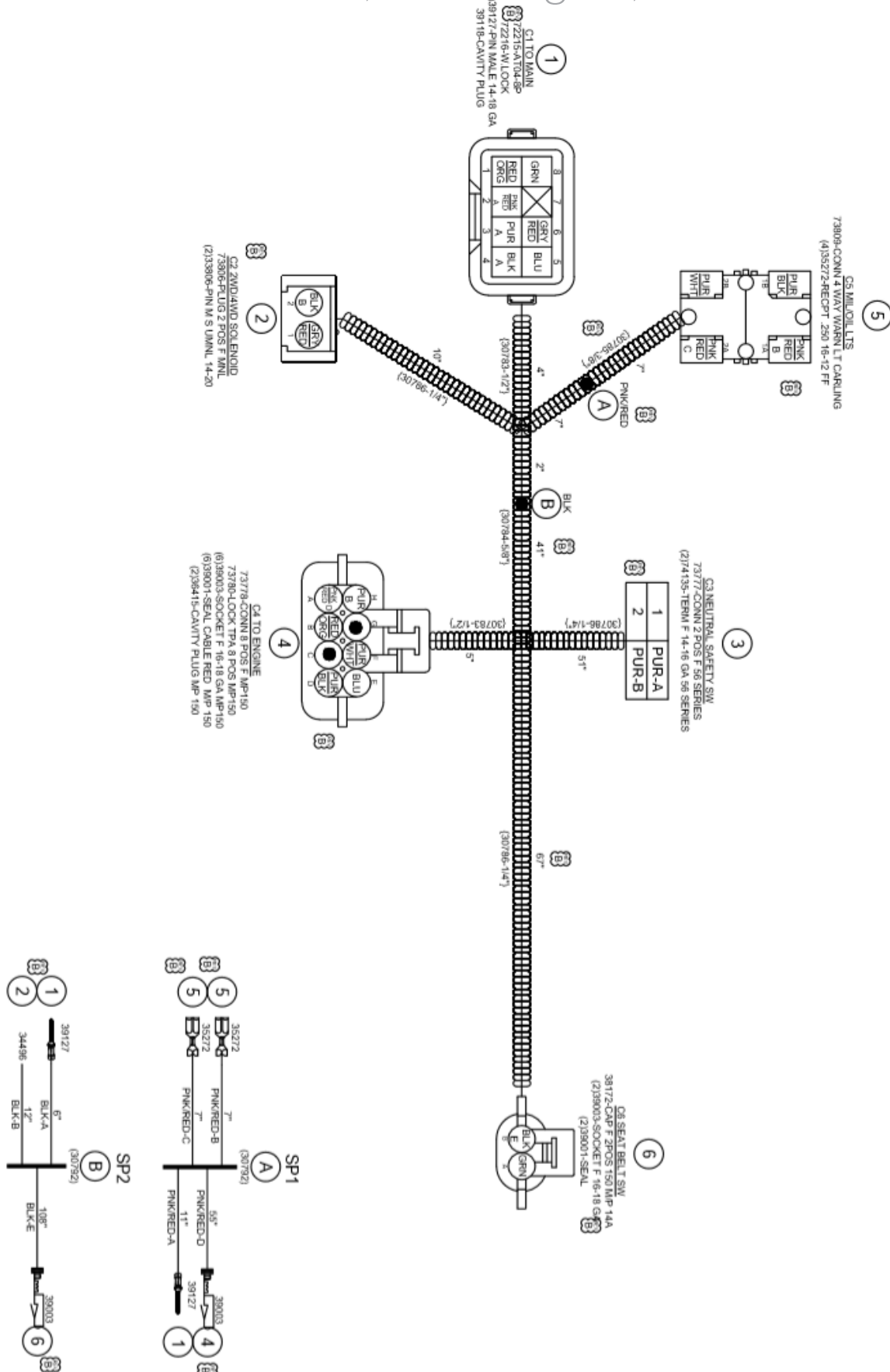
Circuit Name	Circuit Code	Color
Back Up Alarm	BA	Gray
Battery	BT	Red
Ignition	IG	Pink
Dome Lights	DL	Yellow / Black
Engine Controls	EC	Violet
Overhead Light	OL	Red / Yellow
Fuel	FL	Gray
Ground	GN	Black
Head Lights	HL	Red / Yellow
Bed Lift	BL	Orange
Horn	HN	Gray
Park Brake	PB	Green
2WD/4WD	TA	Gray
Snow Plow	SP	Blue / white
Strobe Lights	SL	Red / Yellow
Seat Belt	SB	Green
Turn Signals	TS	Orange
Winch	WN	Green / Yellow
Work Lights	WL	Yellow
Brake Lights	BL	Gray
Starter	ST	Violet
Engine Stop	ES	Blue

Wire Number Per System

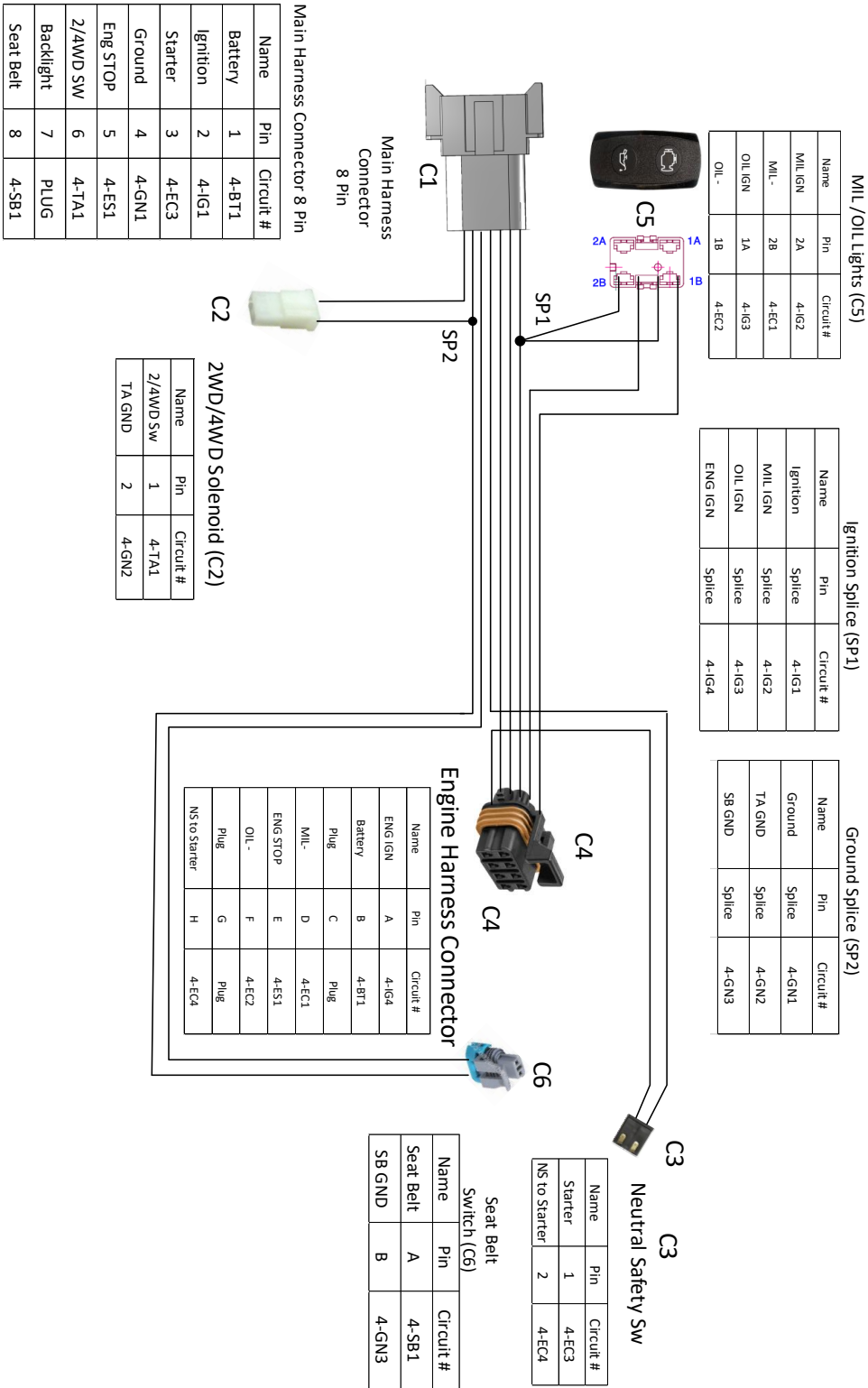
Wire Segment
1
2
3
4
5
6
7
8
9
10
*
*
*
*
*
*
*
*
N

Example: 1-IG1 First ignition wire in the Standard Harness

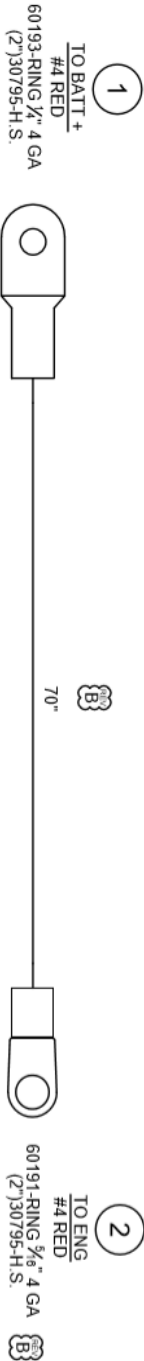
18403 Harness, Gas Engine, Standard Cab



18403 Harness, Gas Engine, Standard Cab



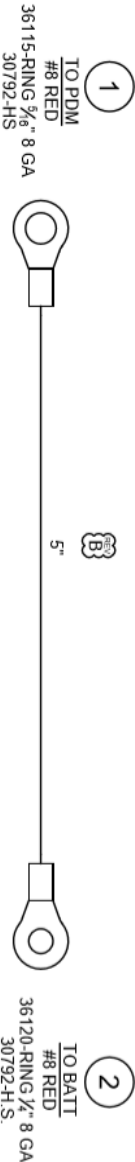
18404 Harness, Gas Engine, Standard Cab



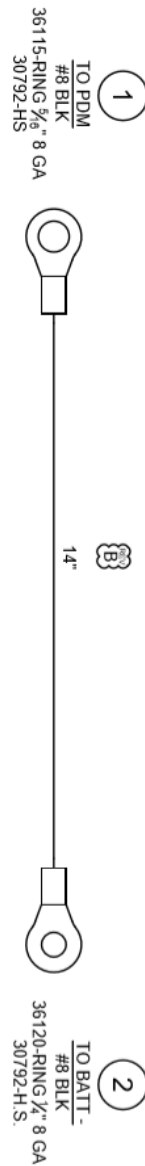
18405 Harness, Gas Engine, Standard Cab



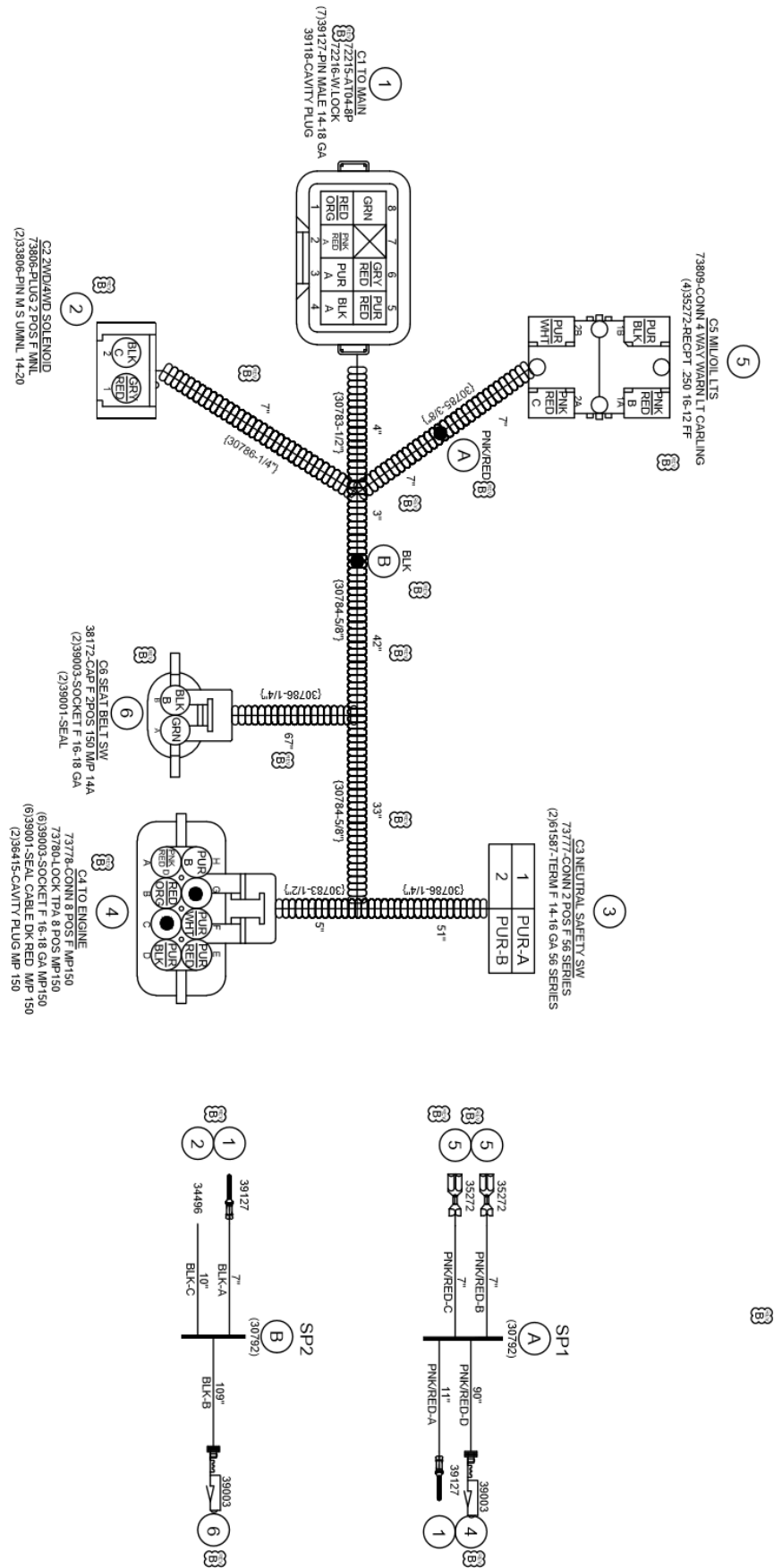
18406 Harness, Gas Engine, Standard Cab



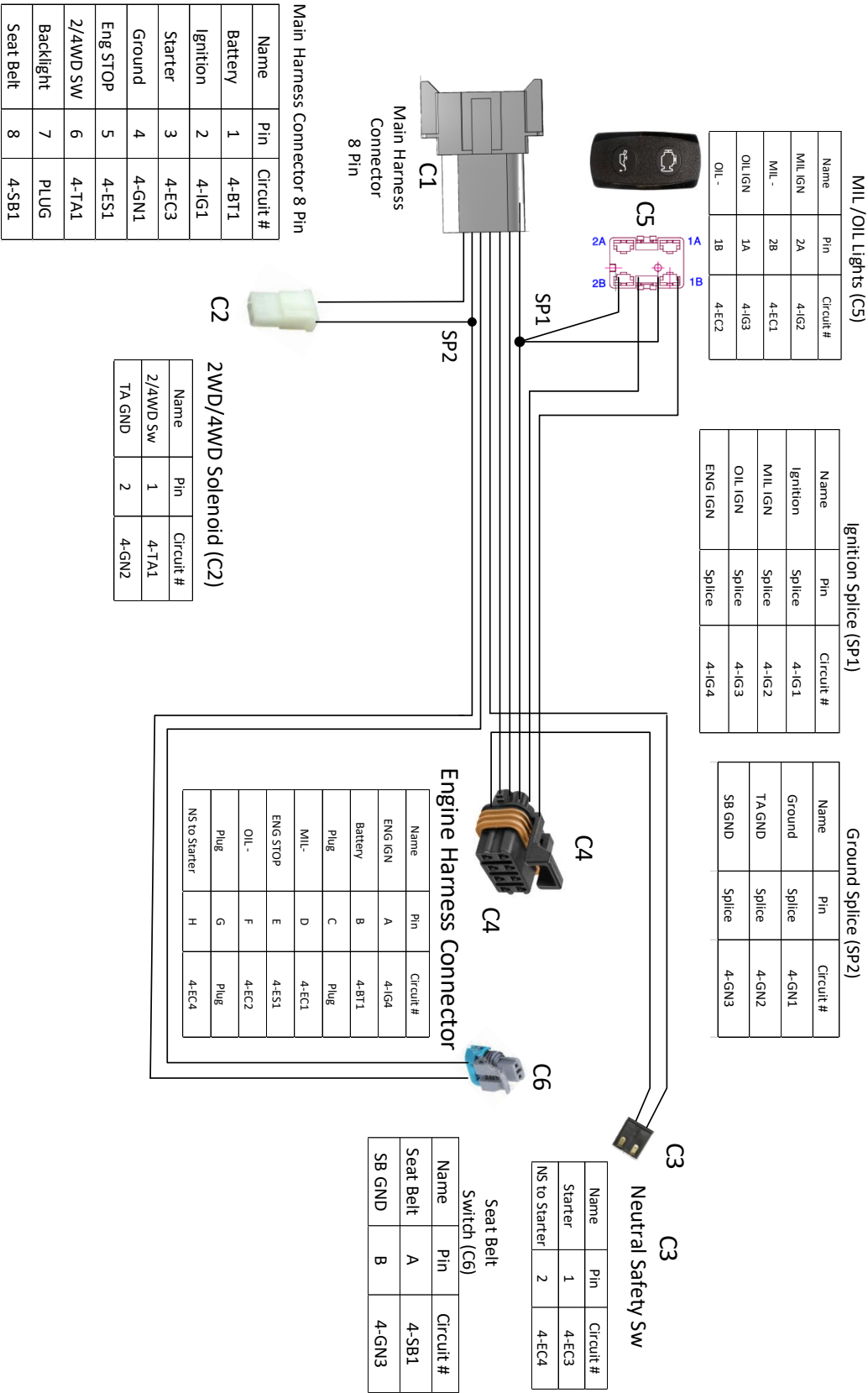
18407 Harness, Gas Engine, Standard Cab



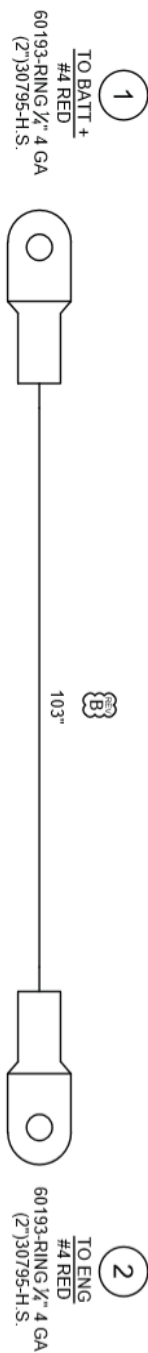
18408 harness, gas ingine, crew cab



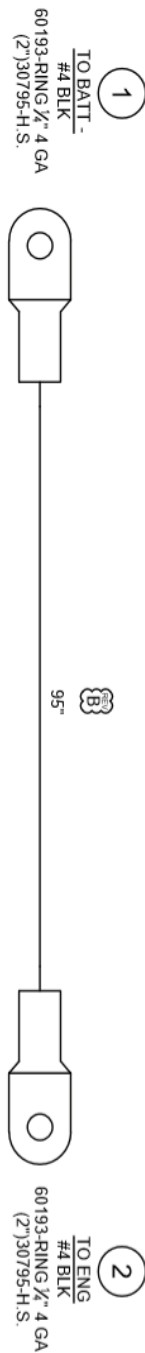
18408 harness, gas engine, crew cab



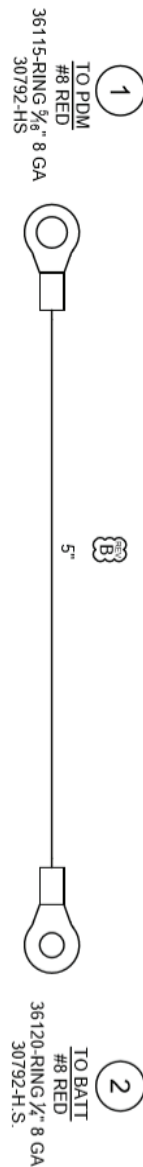
18409 cable, starter, positive, crew cab



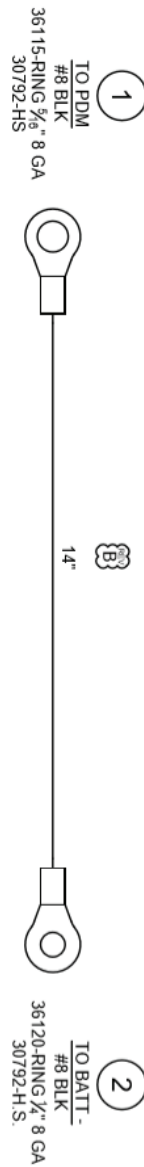
18410 cable, starter, negative, crew cab



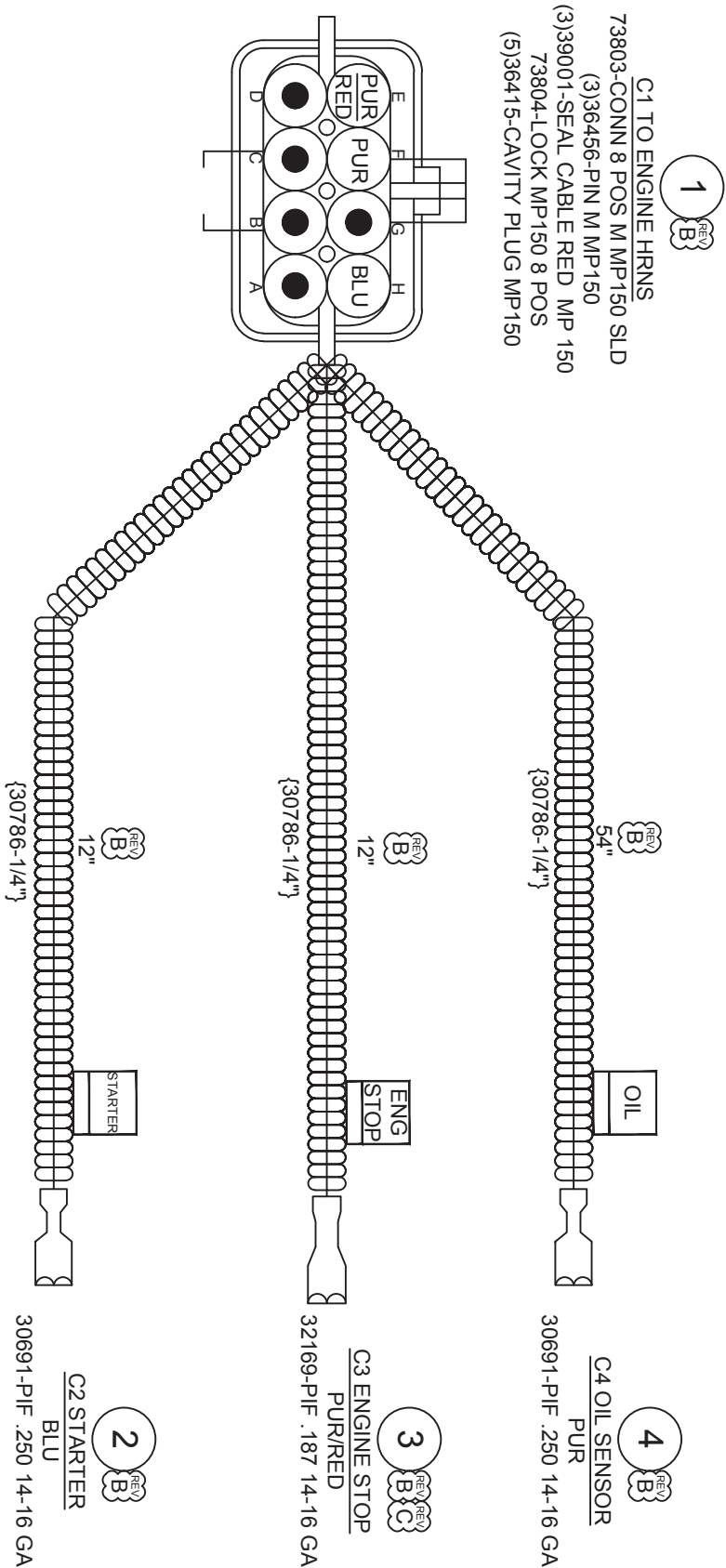
18406 cable, battery, jump stud, positive

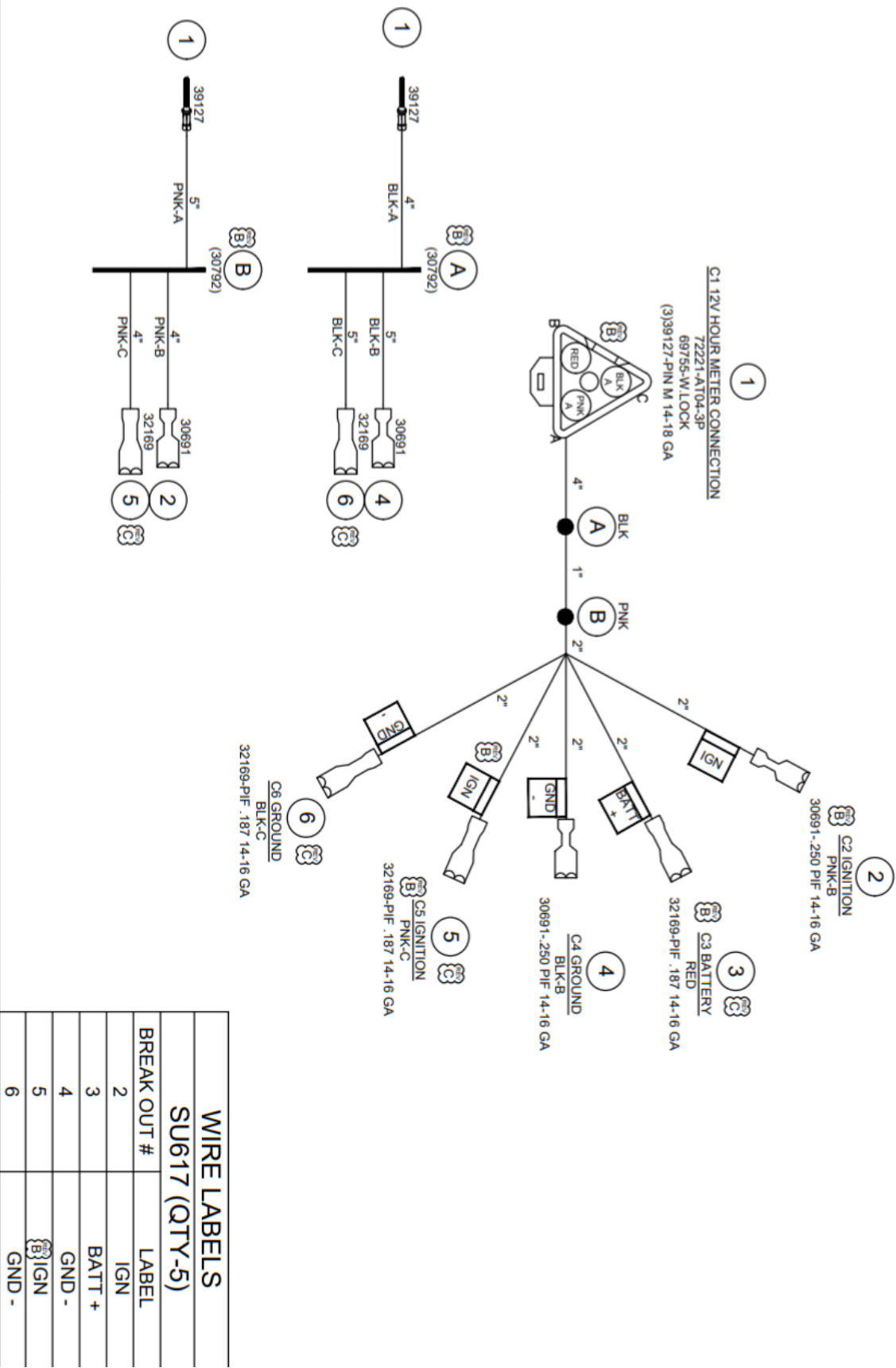


18407 cable, battery, jump stud, negative



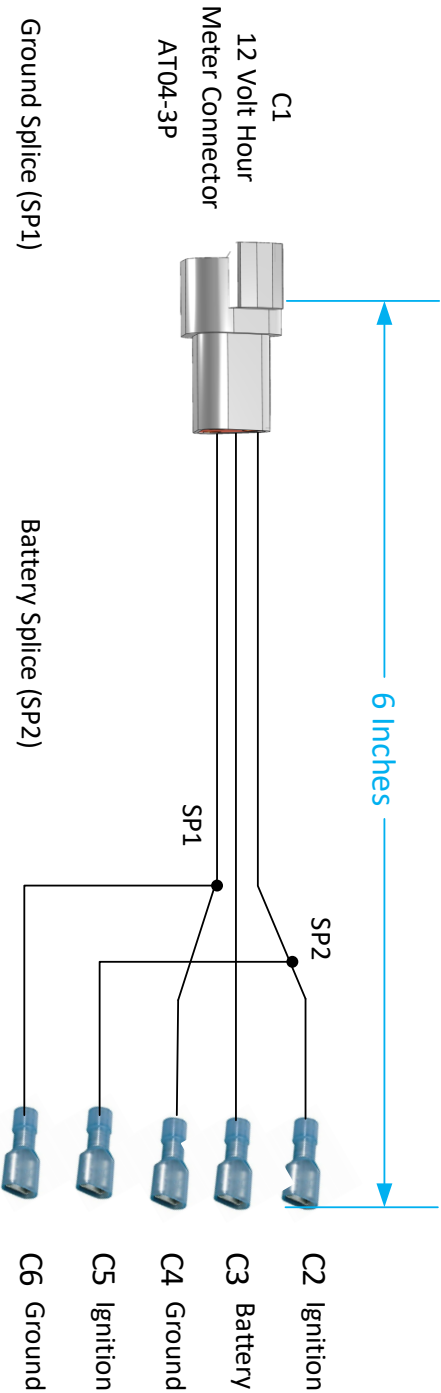
LABEL TABLE		
(3)SU617		
B/O	WIRE	LABEL DESC.
2	BLU	STARTER
3	PUR/RED	ENG STOP
4	PUR	OIL





12 Volt Hour Meter Connector (C1)			
Name	Pin	Circuit #	
Ignition	A	7-IG1	
Battery	B	7-BT1	
Ground	C	7-GN1	

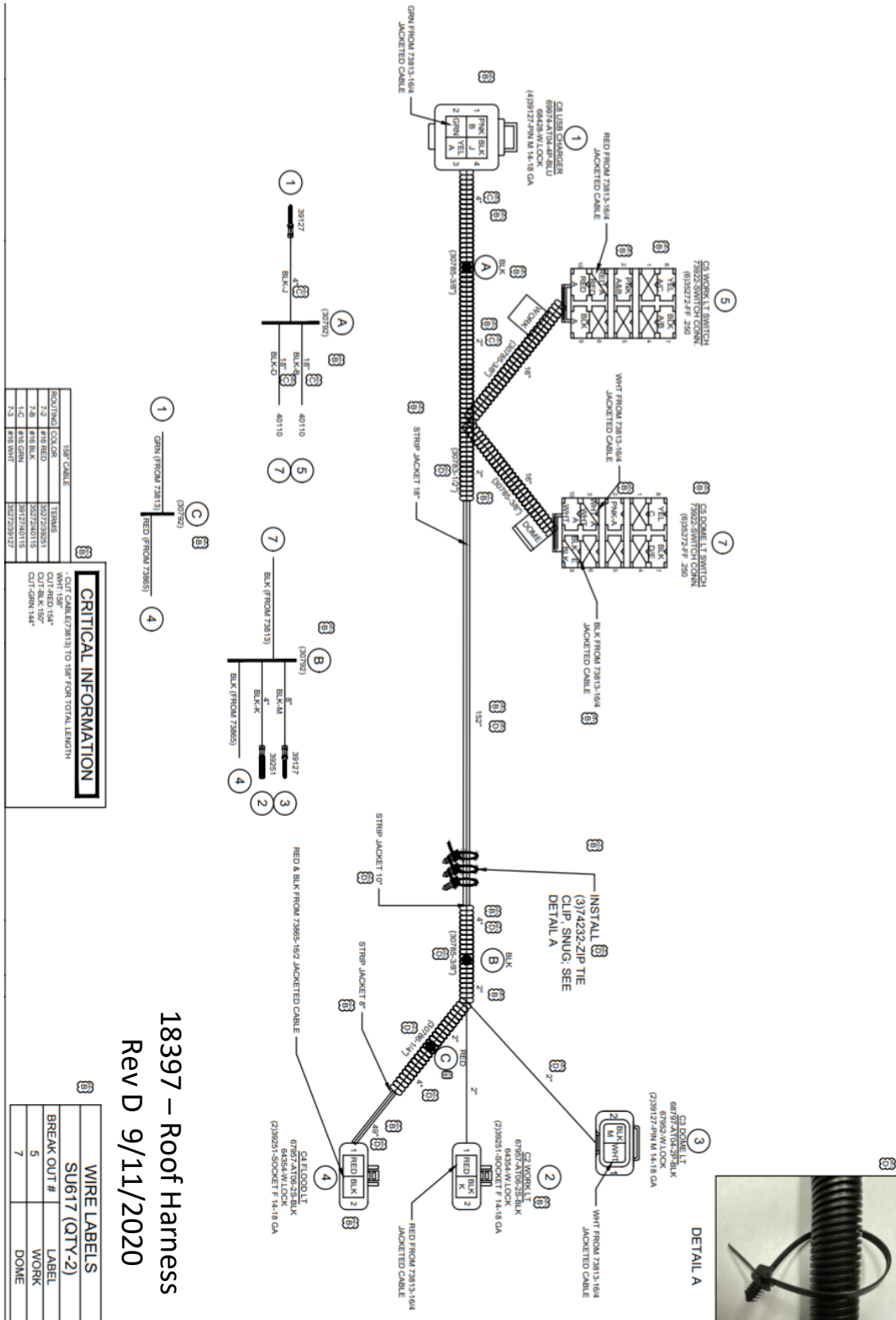
Hour Meter Spade Terminals			
Name	Pin	Circuit #	
C2 Ignition	C2	7-IG2	
C3 Battery	C3	7-BT1	
C4 Ground	C4	7-GN2	
C5 Ignition	C5	7-IG3	
C6 Ground	C6	7-GN3	



Name	Pin	Circuit #
Ground	SP1	7-GN1
C4 Ground	SP1	7-GN2
C6 Ground	SP1	7-GN3

Name	Pin	Circuit #
Ignition	SP2	7-IG1
C2 Ignition	SP2	7-IG2
C5 Ignition	SP2	7-IG3

Place indelible name tag on each wire.



Name	Pin	Circuit #	Destination
Roof IGN 2	2	2-IG2	C6 Pin 2
Roof HL2	8	2-HL2	C6 Pin 8
Work Out JIMPR	10	2-WL2	C5 Pin 3
Work Lt Out	3	2-WL1,2	C2 Pin 1
GND JIMPR 4	7	2-GN9, 10	C6 Pin 9, C5 Pin 9
GND JIMPR 5	9	2-GN10	C5 Pin 7

Name	Pin	Circuit #	Destination
Roof IGN 1	2	2-IG1, 2	C1 Pin 1, C5 Pin 2
Roof HL1	8	2-HL1, 2	C1 Pin 3, C5 Pin 8
Dome Out JIMPR	10	2-DL2	C6 Pin 3
Dome Lt Out	3	2-DL1,2	C6 Pin 3, C3 Pin 1
Dome Sw GND	7	2-GN3, 8	Splice 1, C6 Pin 9
GND JIMPR 1	9	2-GN8, 9	C6 Pin 7, C5 Pin 7

Name	Pin	Circuit #	Destination
Work Lt Out	1	2-WL1	C5 Pin 3
Work GND	2	2-GN4	Splice 2

Name	Pin	Circuit #	Destination
Dome Lt Out	1	2-DL1	C6 Pin 3
Dome Lt GND	2	2-GN5	Splice 2

Work Light Switch C5

Dome Light Switch C6

Work Light C2

Dome Light C3

Flood Light C4

Name	Pin	Circuit #	Destination
Flood Light EXT	1	2-OL2	Splice 3
Flood Lt GND	2	2-GN6	Splice 2

2 wire black Jacketed Cable

Ground Splice SP1

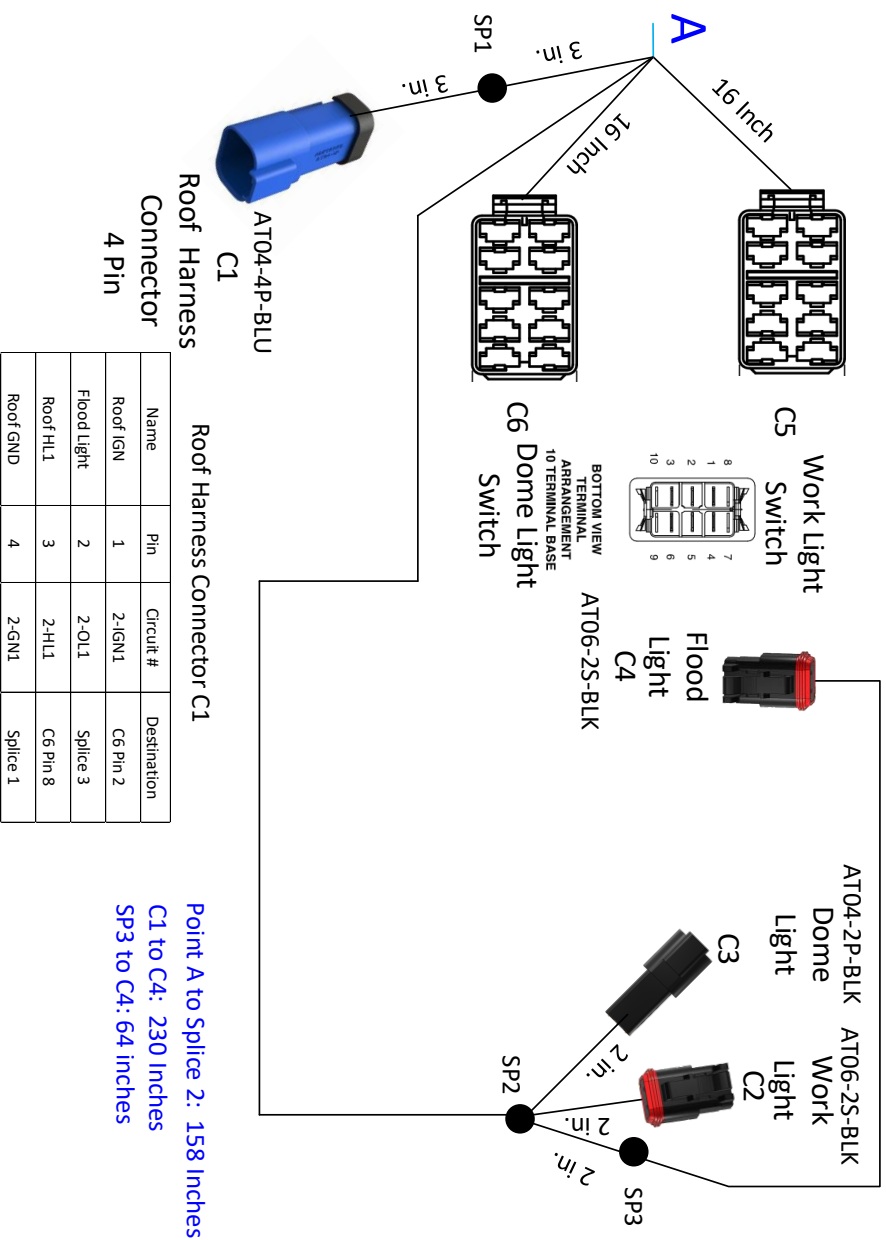
Name	Splice	Circuit #	Destination
Roof GND	SP1	2-GN1	C1 Pin 4
4 Cable GND	SP1	2-GN2	Splice 2
Dome Sw GND	SP1	2-GN3	C6 Pin 7

Ground Splice SP2

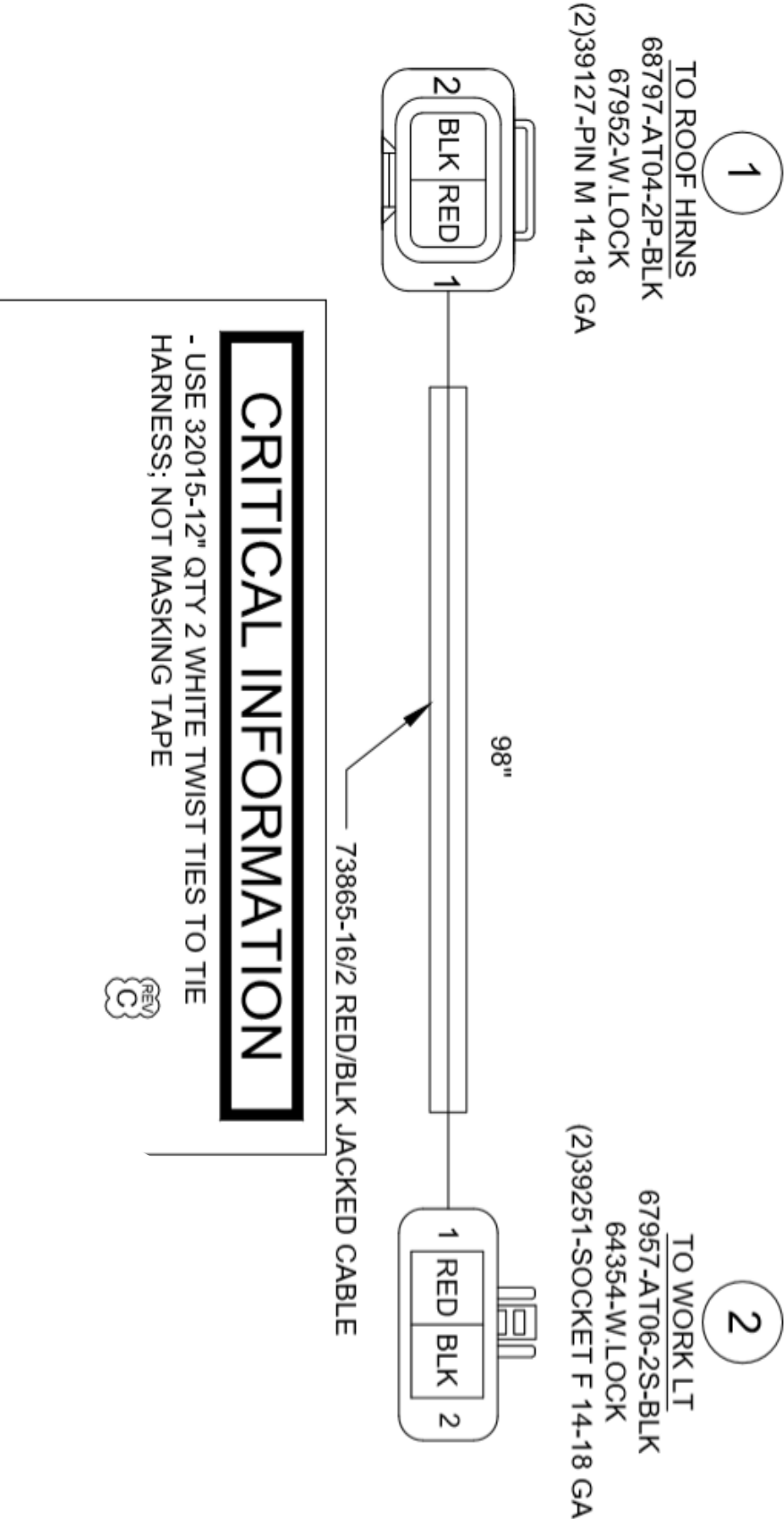
Name	Splice	Circuit #	Destination
4 Cable GND	SP2	2-GN2	Splice 1
Work GND	SP2	2-GN4	C2 Pin 2
Dome GND	SP2	2-GN5	C3 Pin 5
Flood GND	SP2	2-GN6	C4 Pin 2

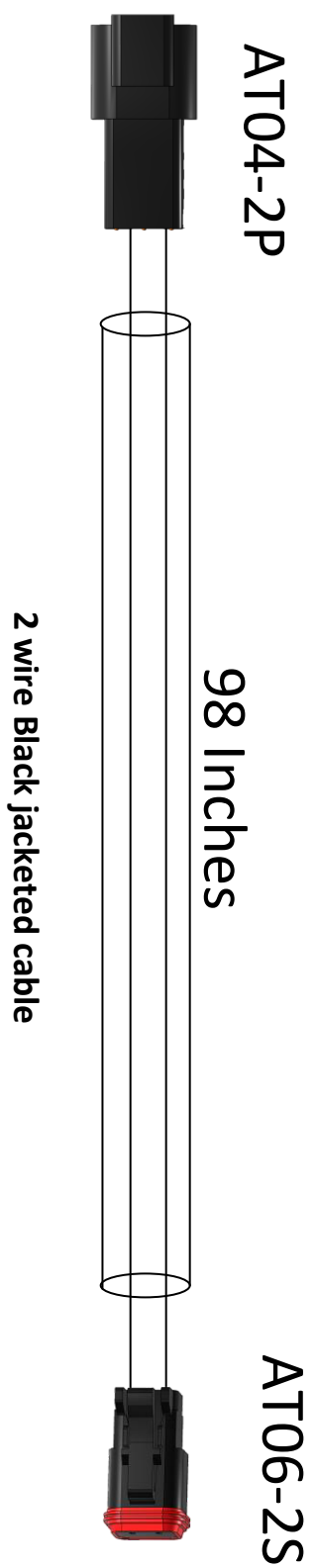
Flood Light Splice SP3

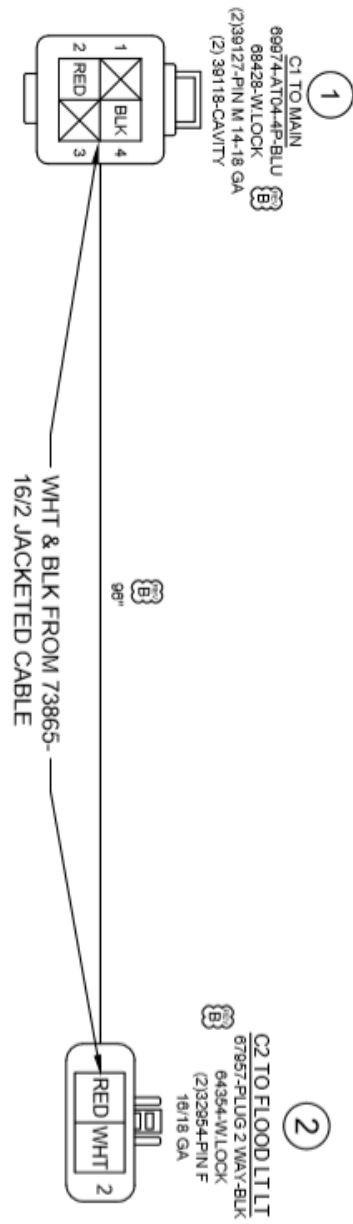
Name	Splice	Circuit #	Destination
Flood Light	SP3	2-OL1	C1 Pin 2
Flood Lt Ext	SP3	2-OL2	C4 Pin 1



Point A to Splice 2: 158 inches
C1 to C4: 230 inches
SP3 to C4: 64 inches

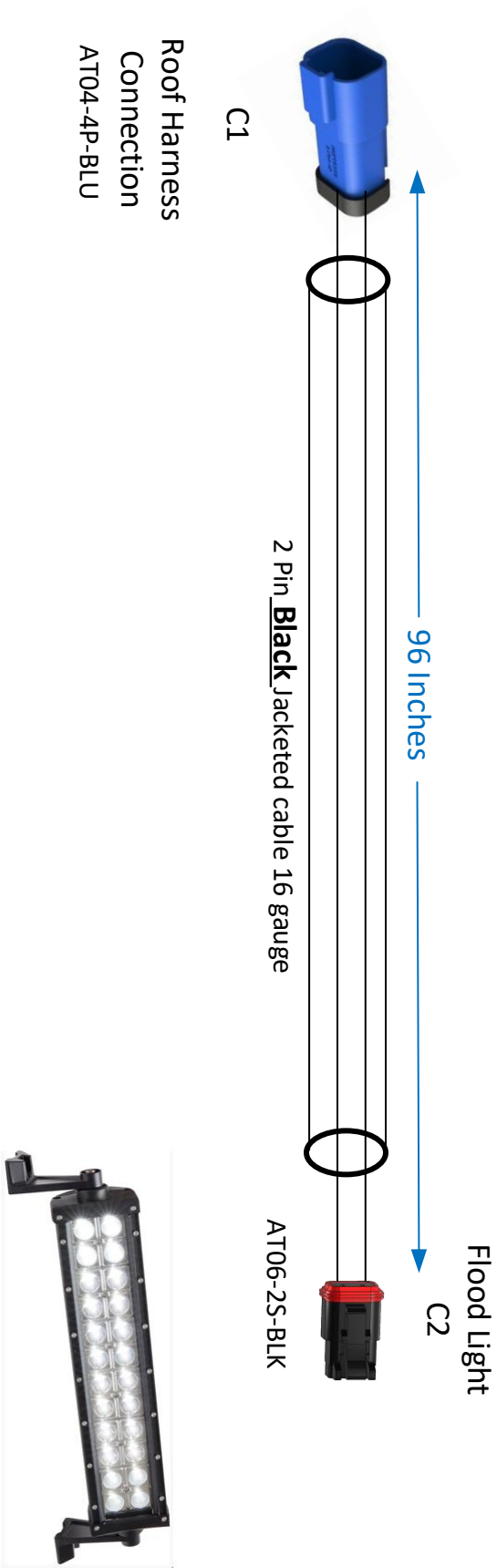


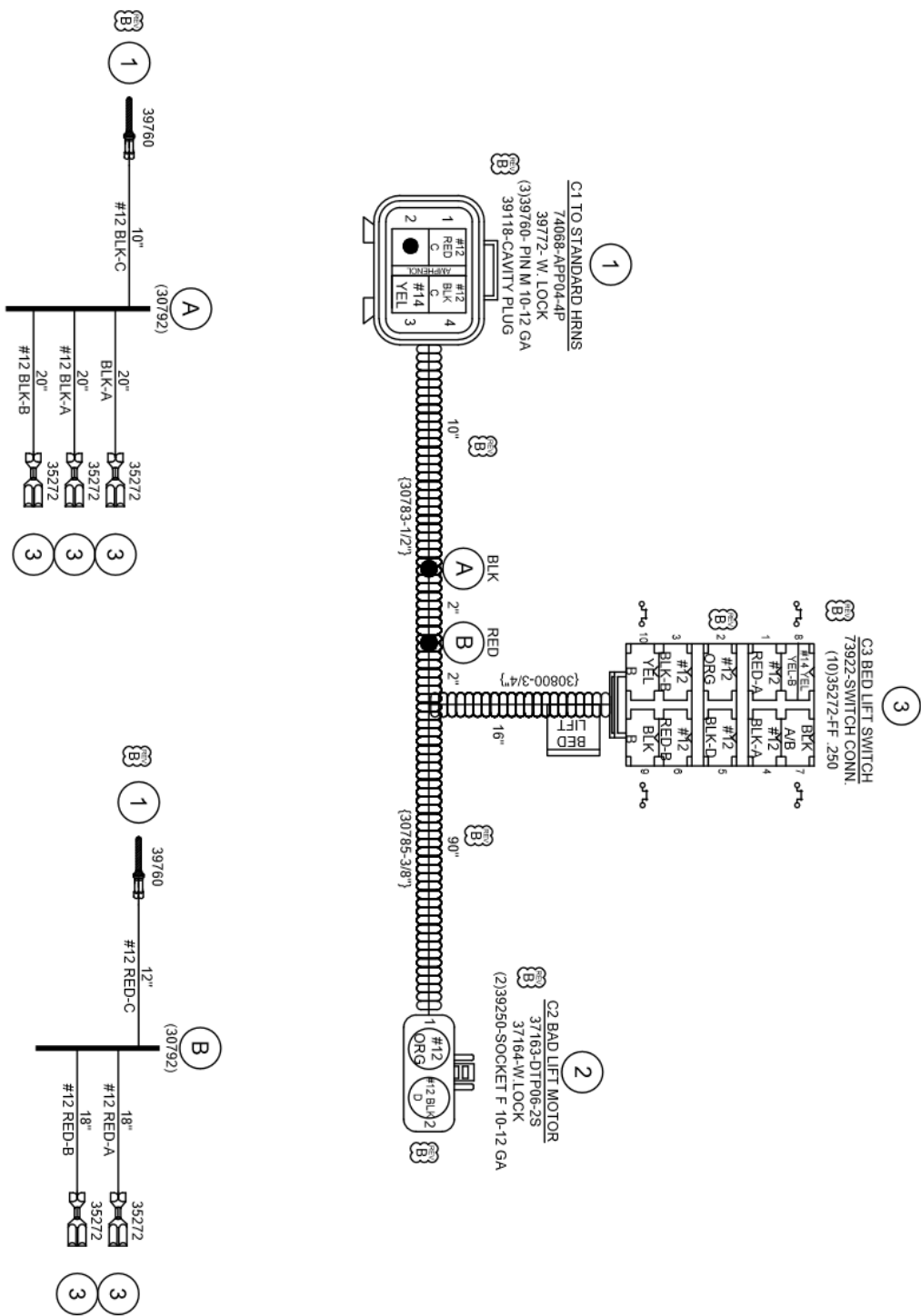




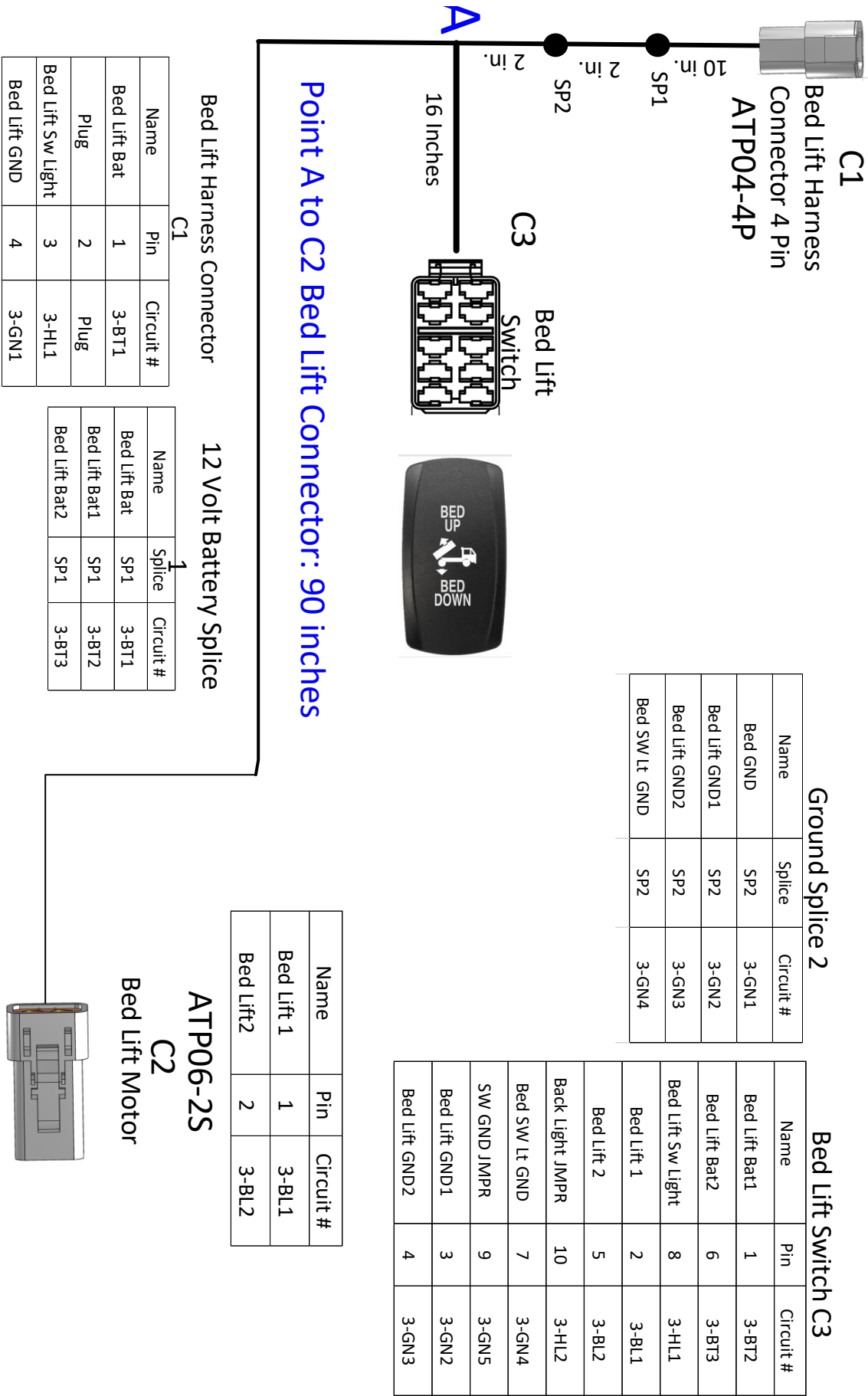
Name	Pin	Circuit #
Flood Light	A	4-FL1
Flood Lt GND	B	4-GN1

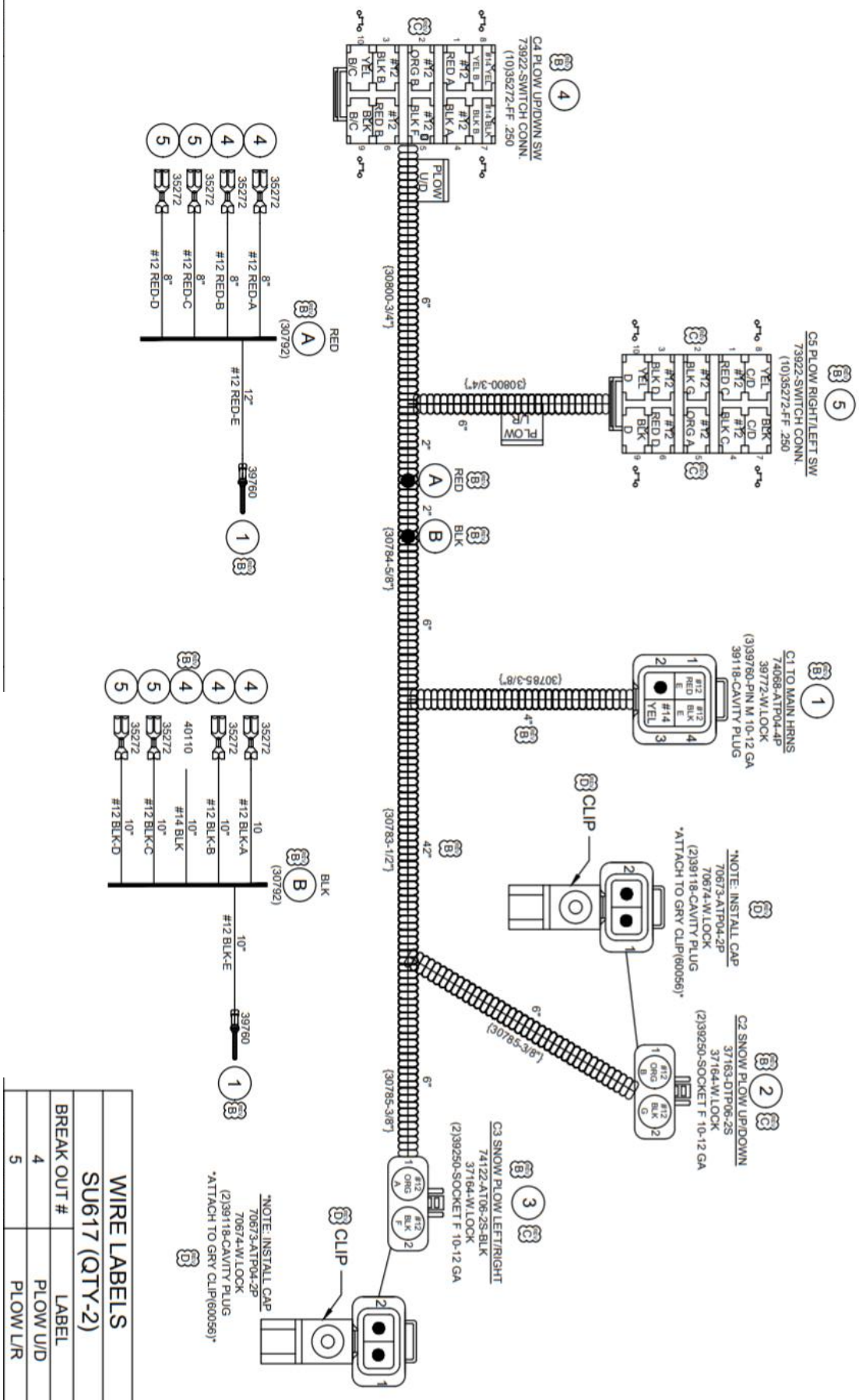
Name	Pin	Circuit #
Flood Light	A	4-FL1
Flood Lt GND	B	4-GN1

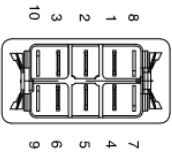




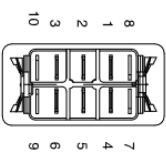
WIRE LABELS	
SU617 (QTY-1)	
BREAK OUT #	LABEL
3	BED LIFT







BOTTOM VIEW
TERMINAL
ARRANGEMENT
10 TERMINAL BASE



BOTTOM VIEW
TERMINAL
ARRANGEMENT
10 TERMINAL BASE

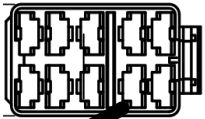
ATP04-4P
C1
Snow Plow Harness
Connector
4 Pin

Name	Splice	Circuit #
SNOW GND	SP2	5-GN1
SNOW U/D GND1	SP2	5-GN2
SNOW U/D GND2	SP2	5-GN3
SNOW L/R GND1	SP2	5-GN4
SNOW L/R GND2	SP2	5-GN5
Snow Sw GND	SP2	5-GN6

Battery Negative Splice SP2

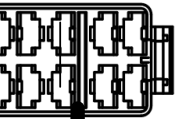
C4

Up/Down
Switch



6 in.

6 in.



3 in.

C5
Right/Left
Switch

4 in.

4 in.

Up/Down Switch C4

Name	Pin	Circuit #
SNOW U/D Bat1	1	5-BT2
SNOW U/D Bat2	6	5-BT3
SNOW Lt HL	8	5-HL1
SNOW U/D Out1	2	5-SP1
SNOW U/D Out2	5	5-SP2
SNOW Lt JMPR 1	10	5-HL2
SNOW SW GND	7	5-GN6
SNOW GND JMPR 1	9	5-GN7
SNOW U/D GND1	3	5-GN2
SNOW U/D GND2	4	5-GN3

Left/Right Switch C5

Name	Pin	Circuit #
SNOW L/R Bat1	1	5-BT4
SNOW L/R Bat2	6	5-BT5
SNOW HL JMPR 2	8	5-HL3
SNOW L/R Out1	5	5-SP3
SNOW L/R Out2	2	5-SP4
SNOW HL JMPR 3	10	5-HL4
SNOW GND JMPR 2	7	5-GN8
SNOW GND JMPR 3	9	5-GN9
SNOW L/R GND1	3	5-GN4
SNOW L/R GND2	4	5-GN5

42 inches

Snow Plow Harness C1

Name	Pin	Circuit #
SNOW Bat	A	5-BT1
Plug	B	Plug
SNOW Lt HL	C	5-HL1
SNOW GND	D	5-GN1

Battery Positive Splice SP1

Name	Splice	Circuit #
SNOW Bat	SP1	5-BT1
SNOW U/D Bat1	SP1	5-BT2
SNOW U/D Bat2	SP1	5-BT3
SNOW L/R Bat1	SP1	5-BT4
SNOW L/R Bat2	SP1	5-BT5

Snow Plow Up/Down C2

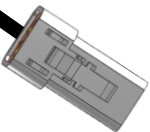
Name	Pin	Circuit #
SNOW U/D Out1	1	5-SP1
SNOW U/D Out2	2	5-SP2

Snow Plow Right / Left C3

Name	Pin	Circuit #
SNOW L/R Out1	1	5-SP3
SNOW L/R Out2	2	5-SP4

ATP06-2S

C2 Snow Plow
Up/Down
Motor



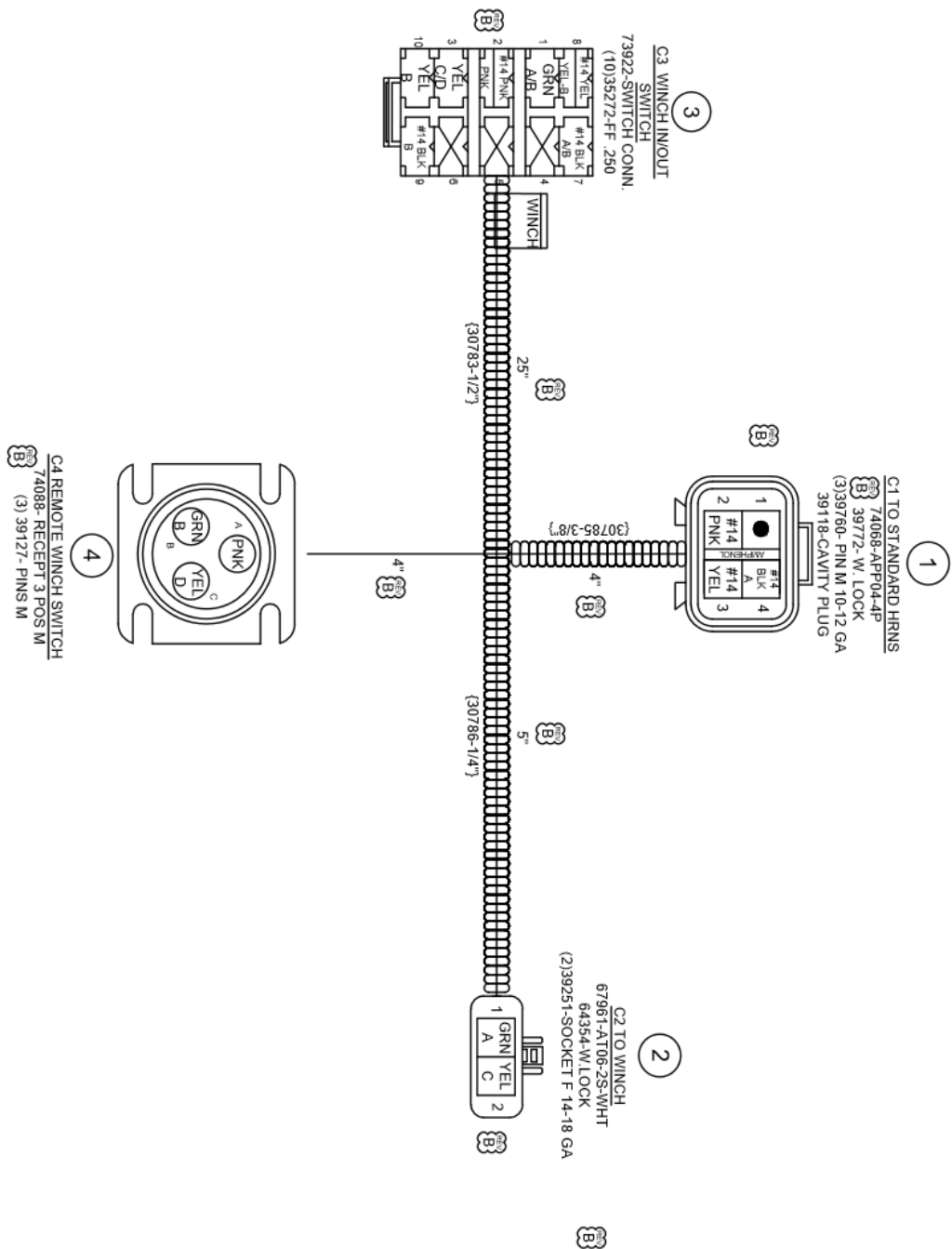
6 in.

6 in.

C3 Snow Plow
Left/Right
Motor

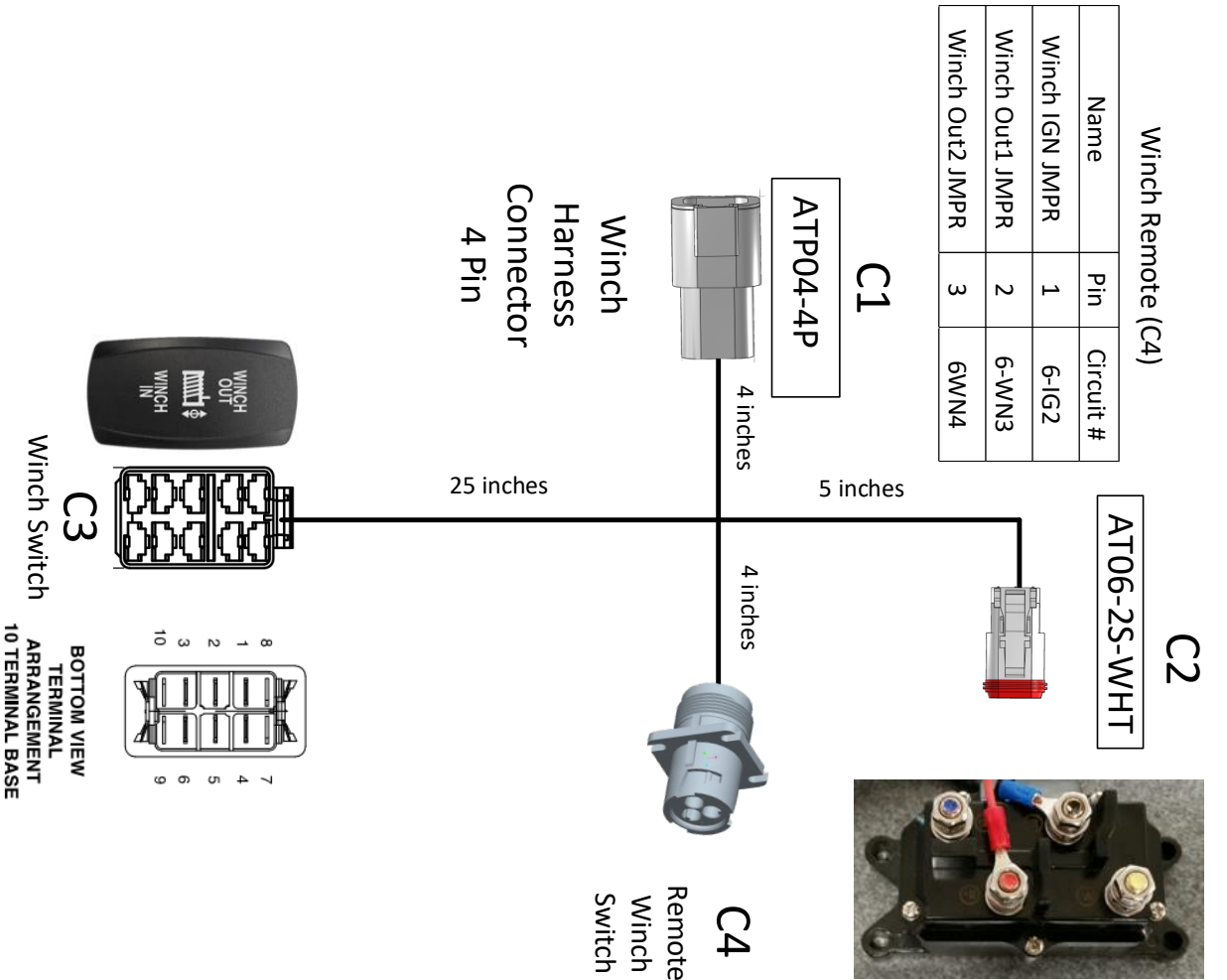
ATP06-2S-BLK

18420 Harness, Gas Engine, Standard Cab



WIRE LABELS	
SU617 (QTY-1)	
BREAK OUT #	LABEL
3	WINCH

18420 Harness, Gas Engine, Standard Cab



Winch Harness Connector (C1)

Name	Pin	Circuit #
Winch Bat	1	Plug
Winch IGN	2	6-IGN1
Winch SW Lt	3	6-HL1
Winch GND	4	6-GN1

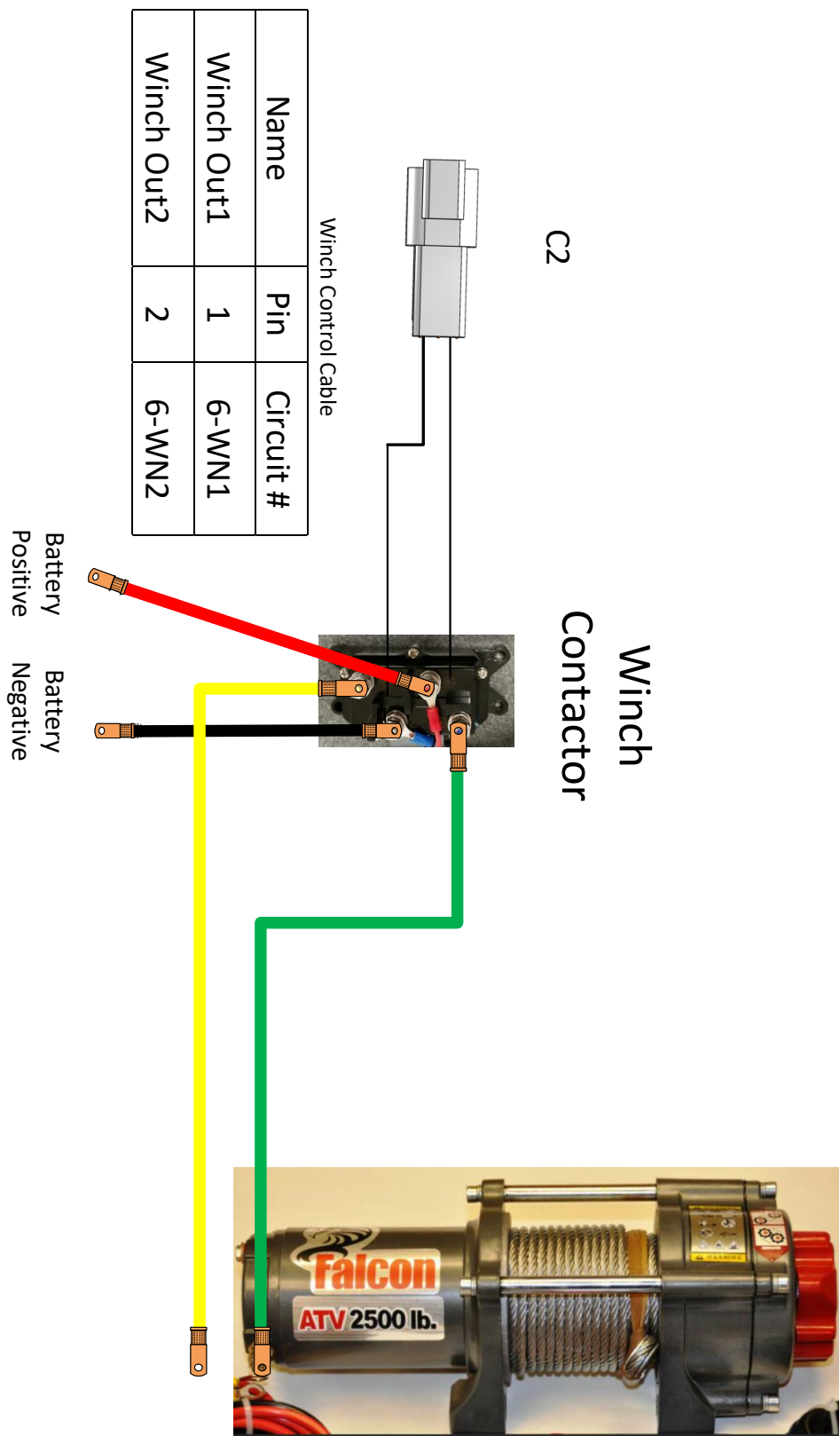
Winch Contactor (C2)

Name	Pin	Circuit #
Winch Out1	1	6-WN1
Winch Out2	2	6-WN2

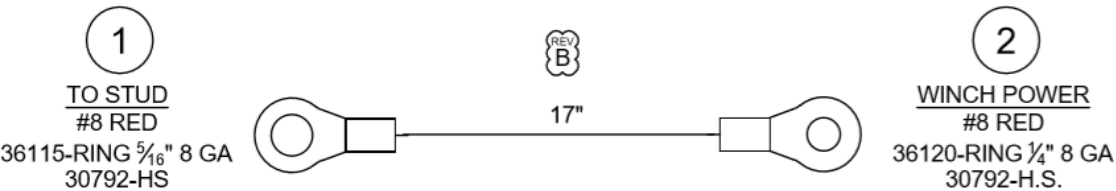
Winch Switch (C3)

Name	Pin	Circuit #
Winch IGN	2	6-IG1, 2
Winch Lt HL	8	6-HL1
Back Light JMPR	10	6-HL2
Winch Out1	1	6-WN1,3
Winch Out2	3	6-WN2, 4
Winch GND	7	6-GN1, 2
Winch GND JMPR	9	6-GN2

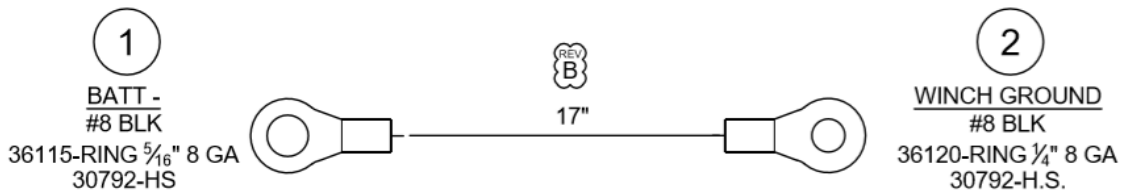
18420 Harness, Gas Engine, Standard Cab



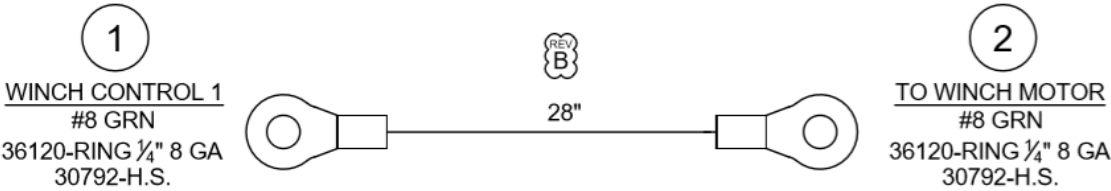
18421 cable, winch, contactor, positive



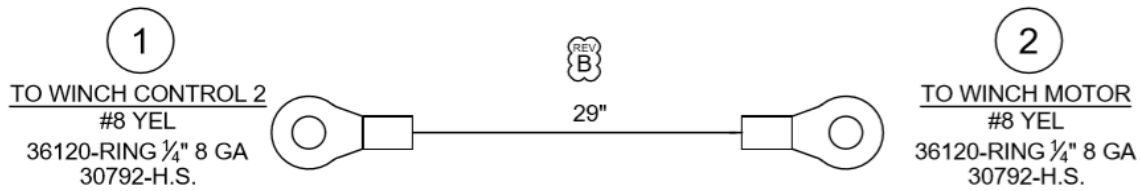
18422 cable, winch, contactor, battery, negative



18423 cable, winch, winch motor #1



18424 cable, winch, winch motor #2

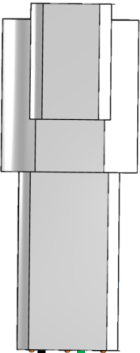


18492 contactor, winch, sealed connector

Name	Pin	Wire Color
Coil #1	1	Green
Coil # 2	2	Black

Connector: AT04-2P-WHT
Secondary Lock: AW2P
Terminal: AT60-16-0122

Amphenol: White 2 Way Male Pin connector



Vinyl Sleeve

Contactor Coil Voltage: 12 volts DC
Maximum Power Contact Current: 200 Amps

Fabrication Instructions:

- Ensure that the winch harness kit (P/N 18402) has been installed on the vehicle.
- Obtain Winch Contactor from Winch Kit Part Number 17153
- Cut off metal connector and discard. Save black vinyl sleeve.
- Cut off all wires except the green and black wires.
- Obtain a White 2 Pin Male Amphenol connector 18630.
- Crimp on two Amphenol Male Terminals AT60-16-0122 on the green and black wires.
- Cut the black sleeve such that it ends 1.5 inches from the terminal collars.
- Reinstall the black vinyl sleeve.
- Insert green wire into pin 1 of the connector.
- Insert black wire into pin 2 of the connector.
- Insert secondary lock into the connector.
- Bolt contactor to the instrument panel frame next to the Fuse block.
- Connect 2 pin white connector to the winch harness white connector.



Dual Relay Reversing Polarity Contactor

- Red Terminal: Red Positive Cable to Jump Start Stud
- Black Terminal: Black Negative Cable to Jump Start Stud
- Yellow Terminal: Yellow Cable To Winch Motor
- Blue Terminal: Green Cable to Winch Motor

18493 harness, winch, remote switch



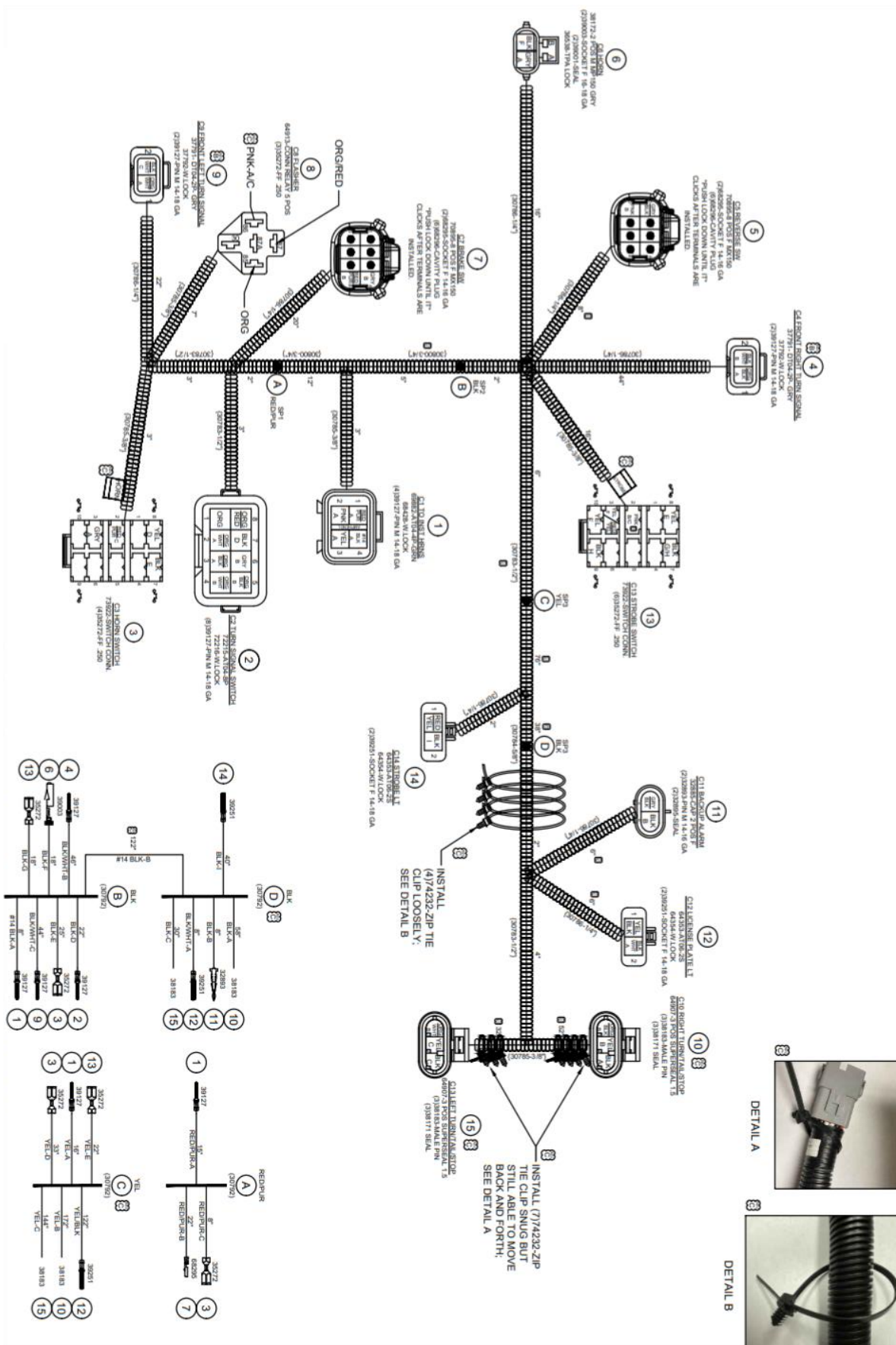
Name	Pin	Color
Ignition	A	Blue
Winch Out 1	B	Brown
Winch Out 2	C	Green / Yellow

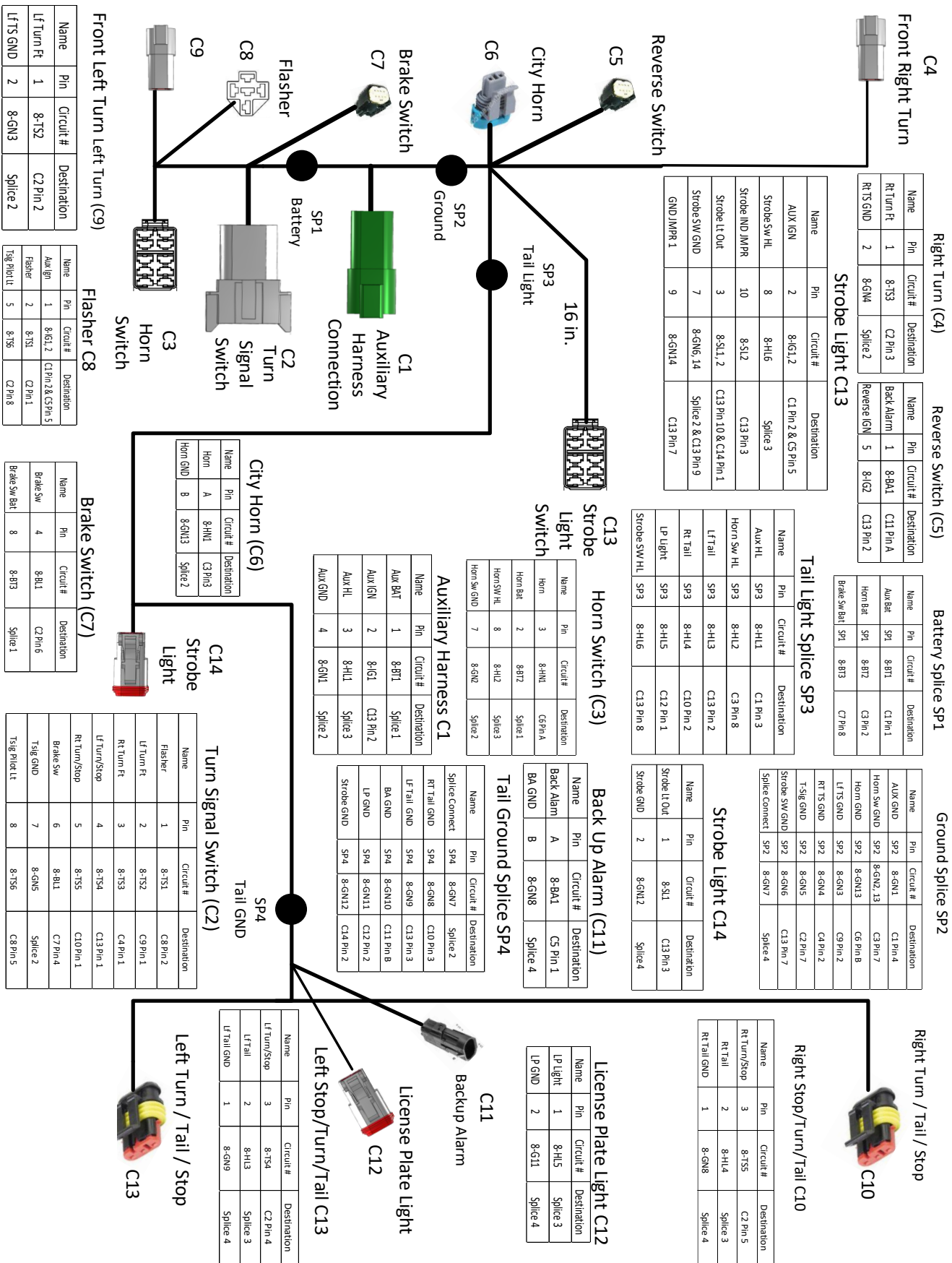
Connector: HD16-3-96S
Terminals: AT62-16-0122

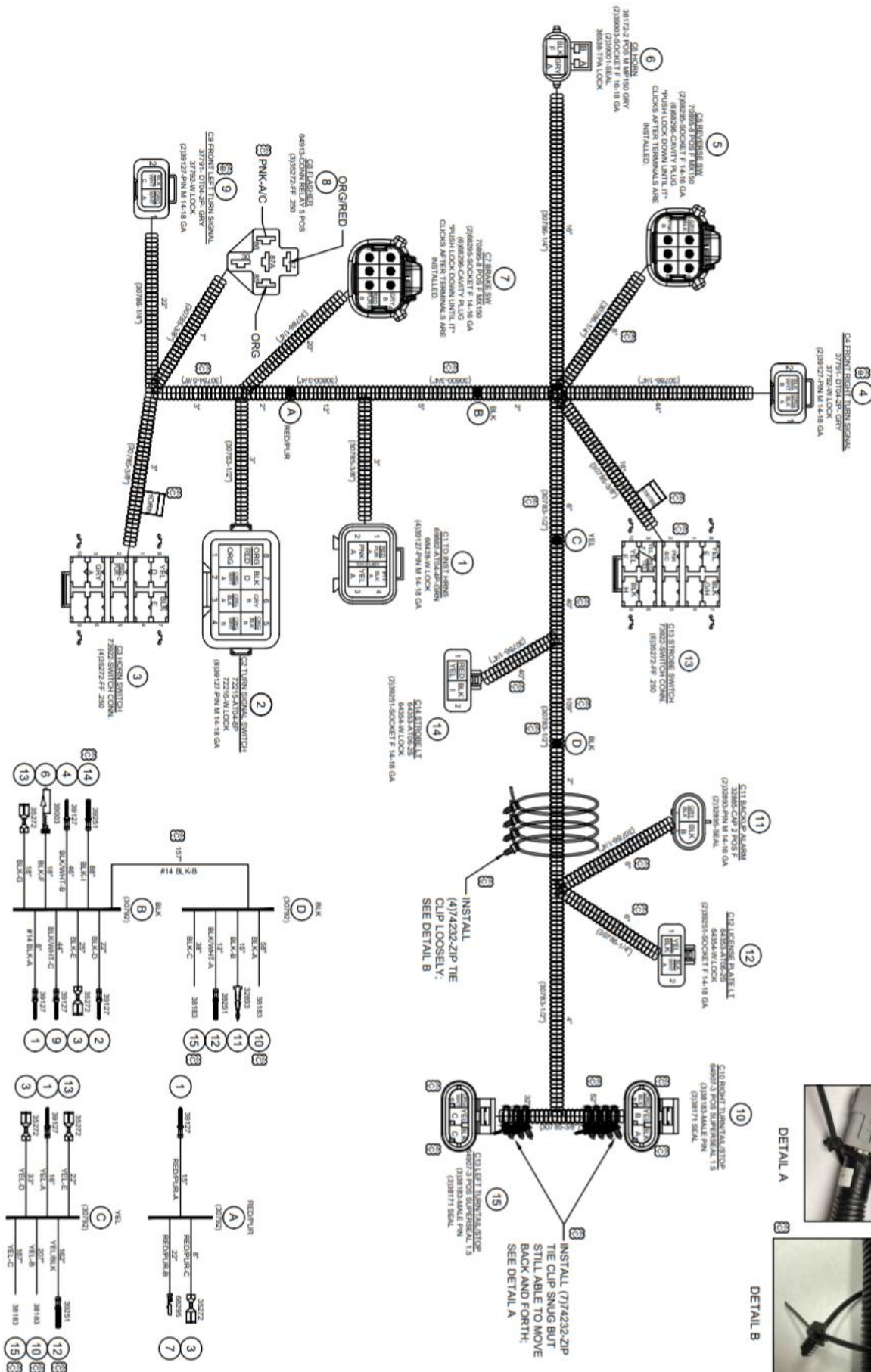
Cable Length: 9 Feet

Fabrication Instructions:

- Ensure that the winch harness kit (P/N 18402) has been installed on the vehicle.
- Obtain Winch Remote control switch from Winch Kit Part Number 17153
- Cut off metal connector and discard.
- Cut off all wires except the TBD wires.
- Obtain a 3 Pin Female Deutsch connector 18639.
- Crimp on three Amphenol Male Terminals AT62-16-0122 on the wires as shown above.
- Cut the wires such that they are 2 inches long beyond the black jacket.
- Insert Blue wire into pin A of the connector.
- Insert Brown wire into pin B of the connector.
- Insert Green / Yellow wire into pin C of the connector.
- Connect 3 pin circular connector to the winch harness 3 pin connector on the dash.
- Test that the winch operates correctly. Cable goes out when the **OUT** switch is depressed, cable goes in when the **IN** switch is depressed.



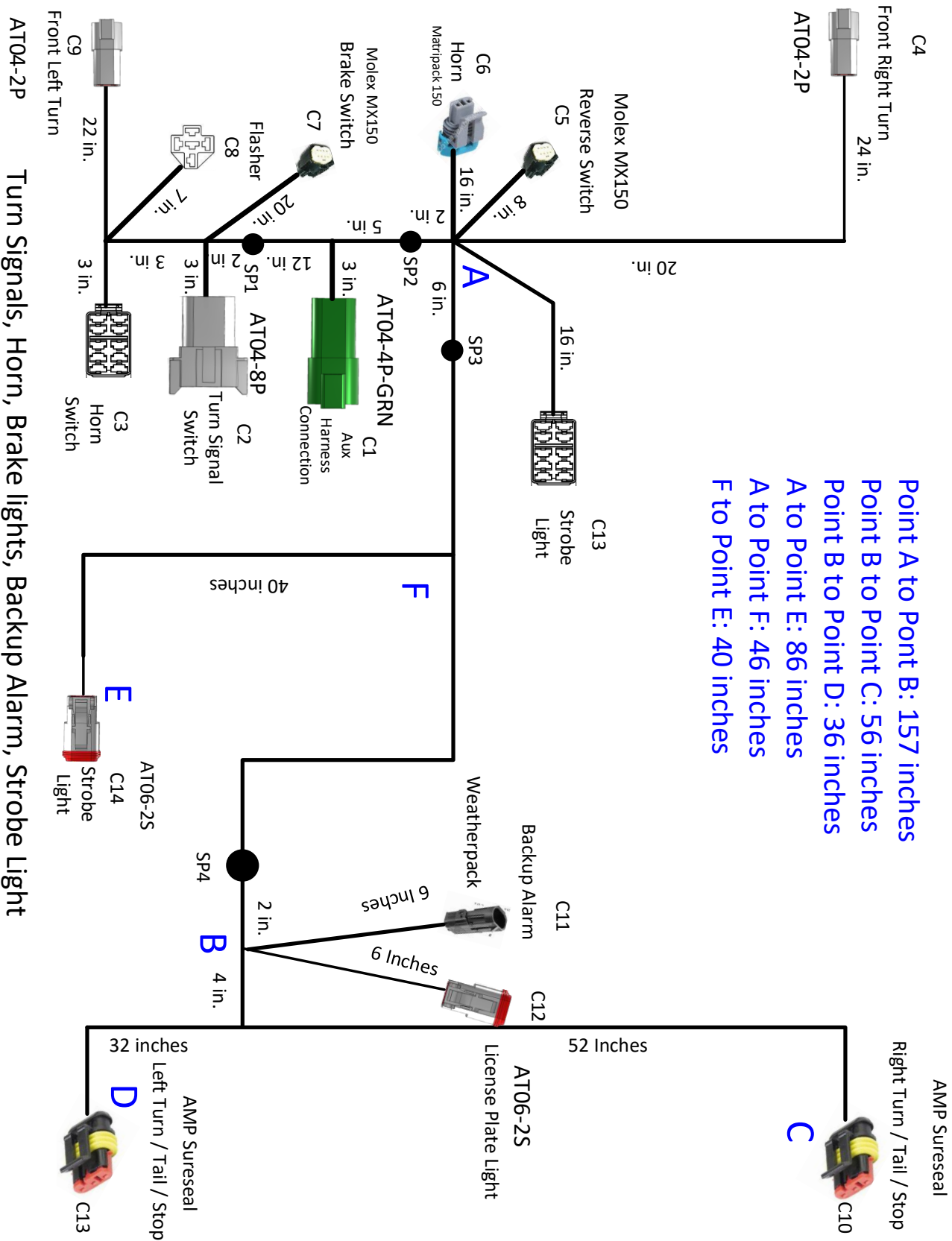


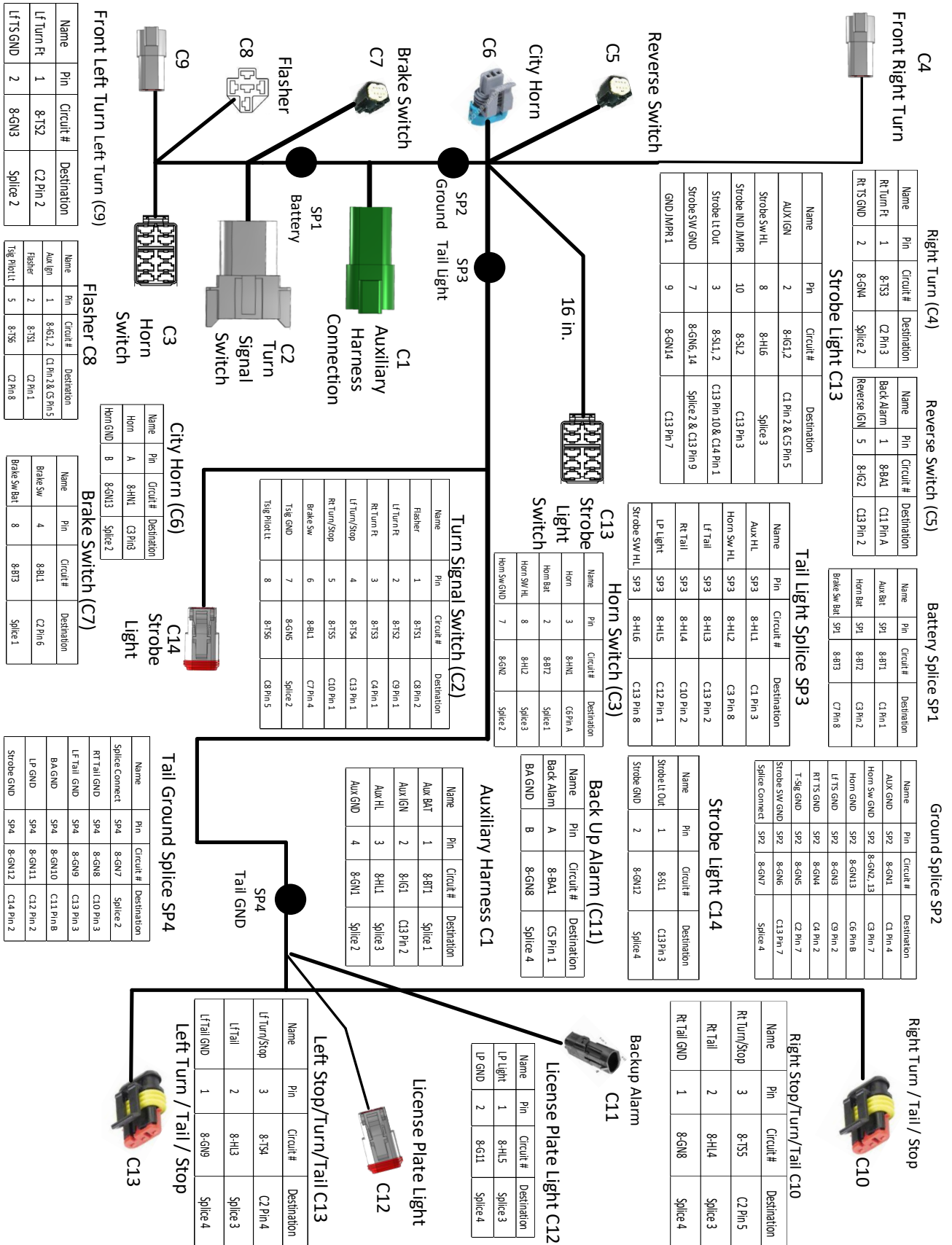


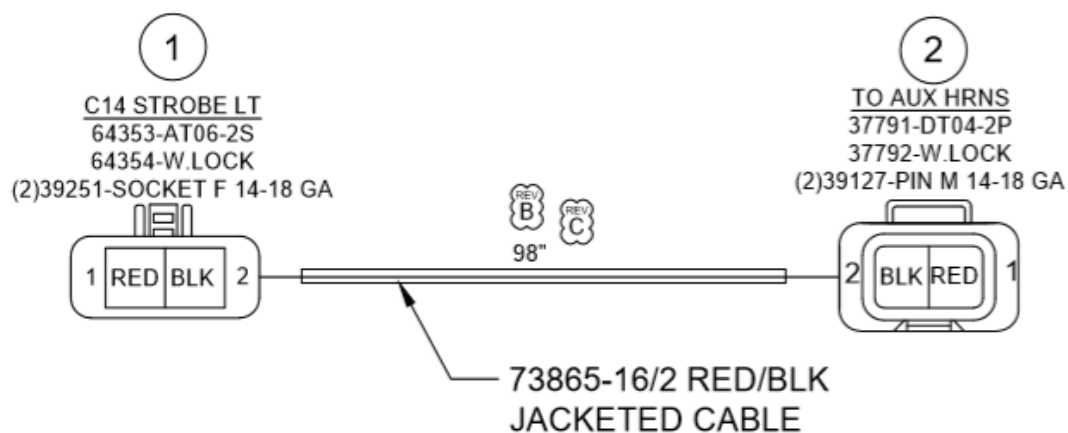
DETAIL A



DETAIL B



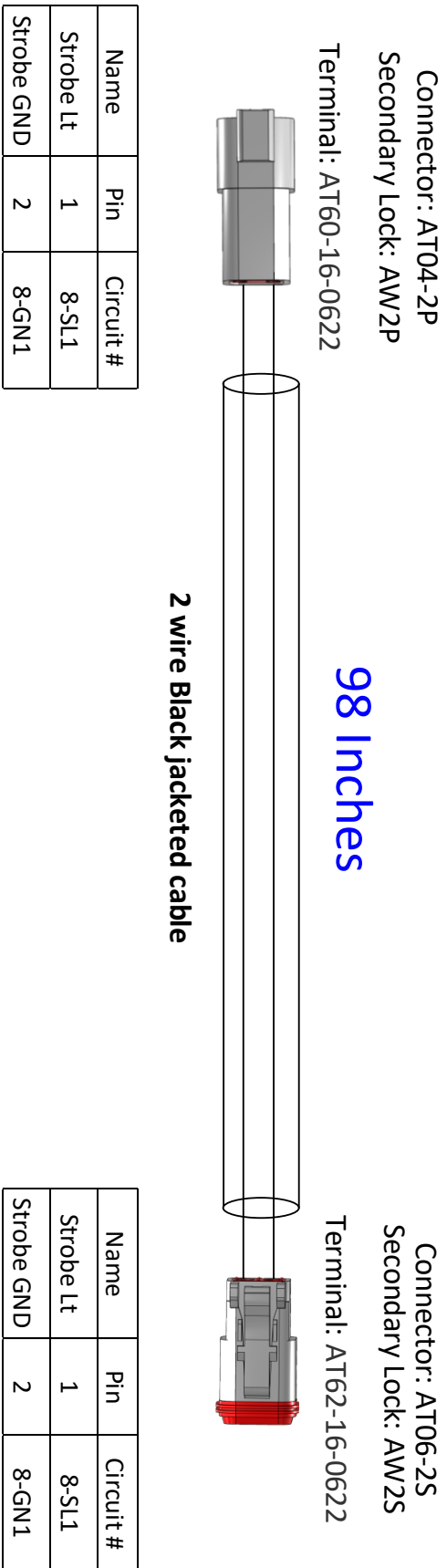


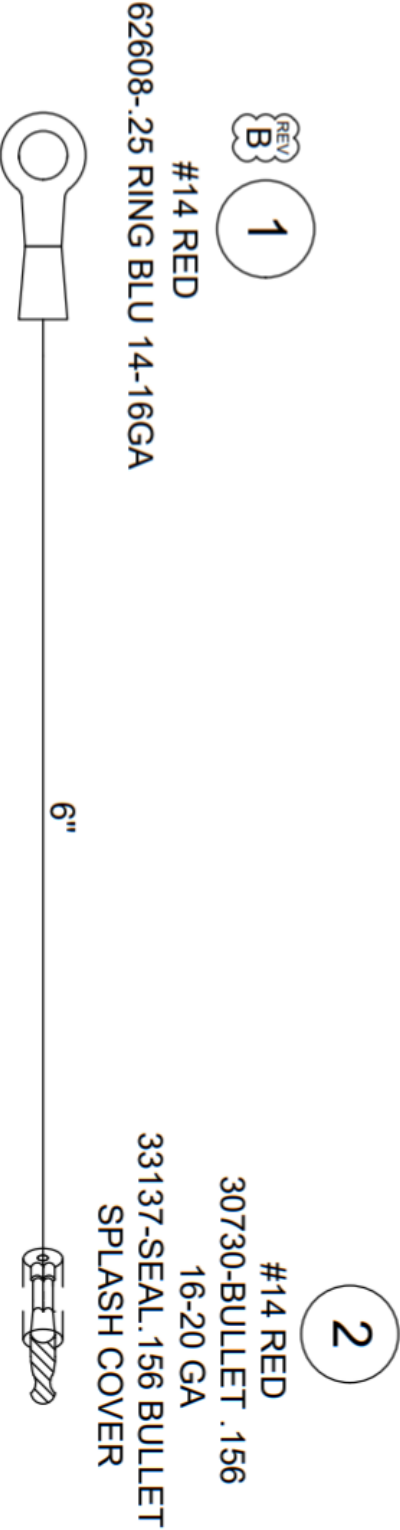


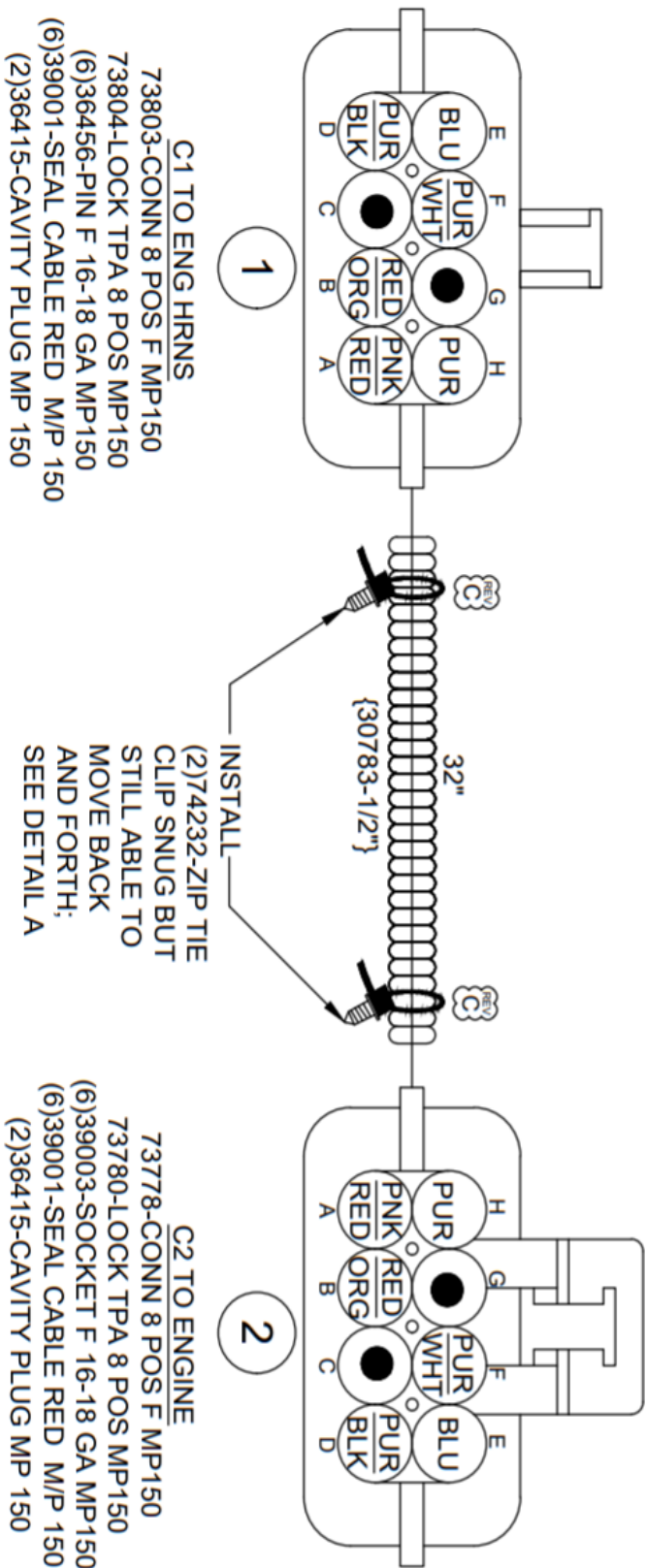
CRITICAL INFORMATION

- USE 32015-12" QTY 2 WHITE TWIST TIES TO TIE HARNESS; NOT MASKING TAPE









CRITICAL INFORMATION

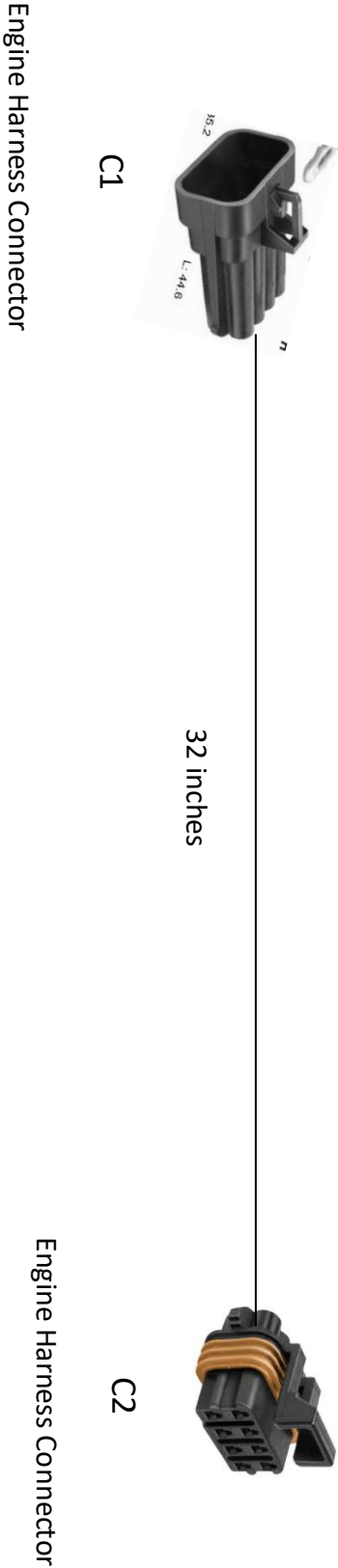
- USE 32015-12" QTY 2 WHITE TWIST TIES TO TIE HARNESS; NOT MASKING TAPE

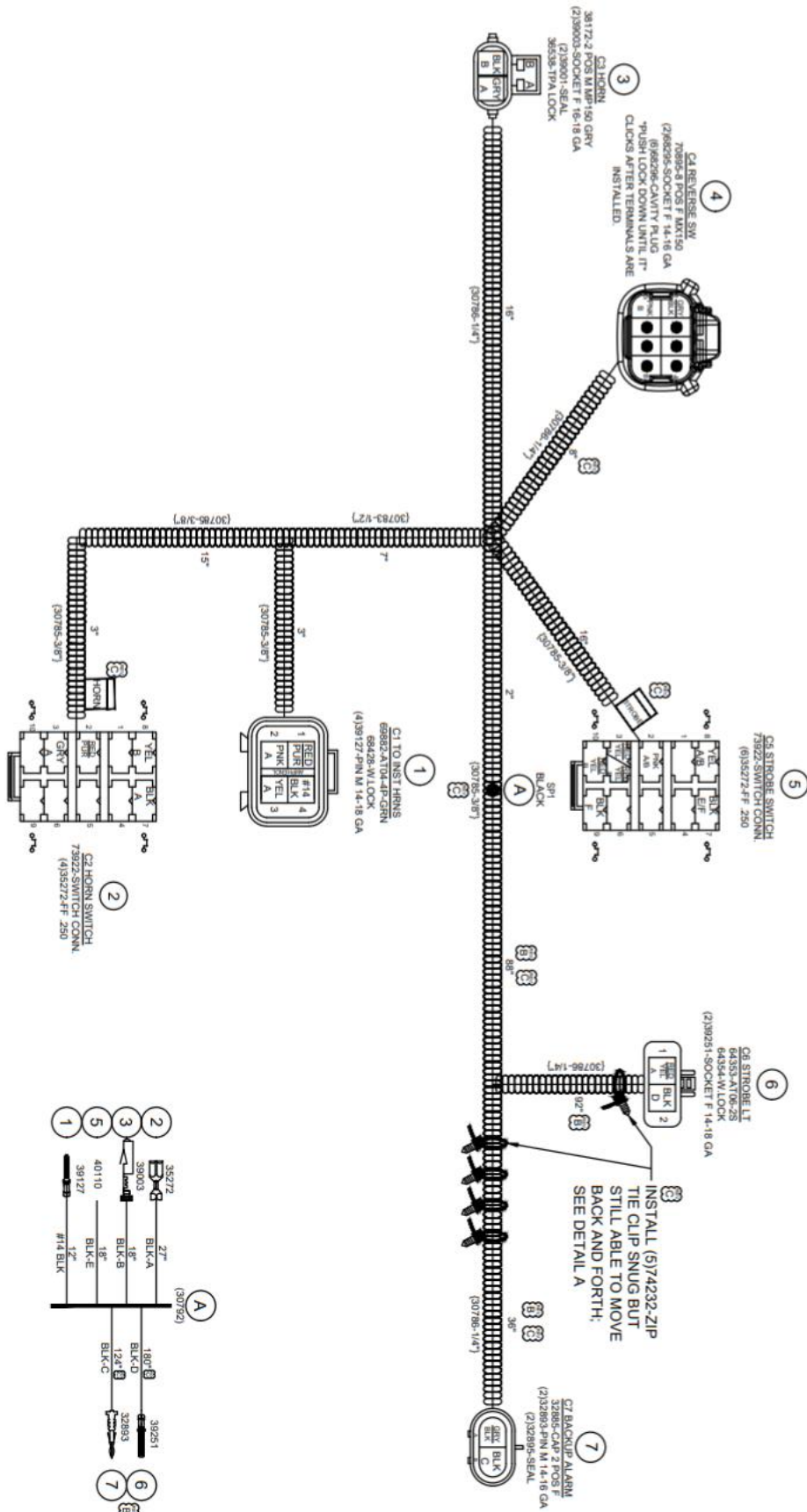
DETAIL A

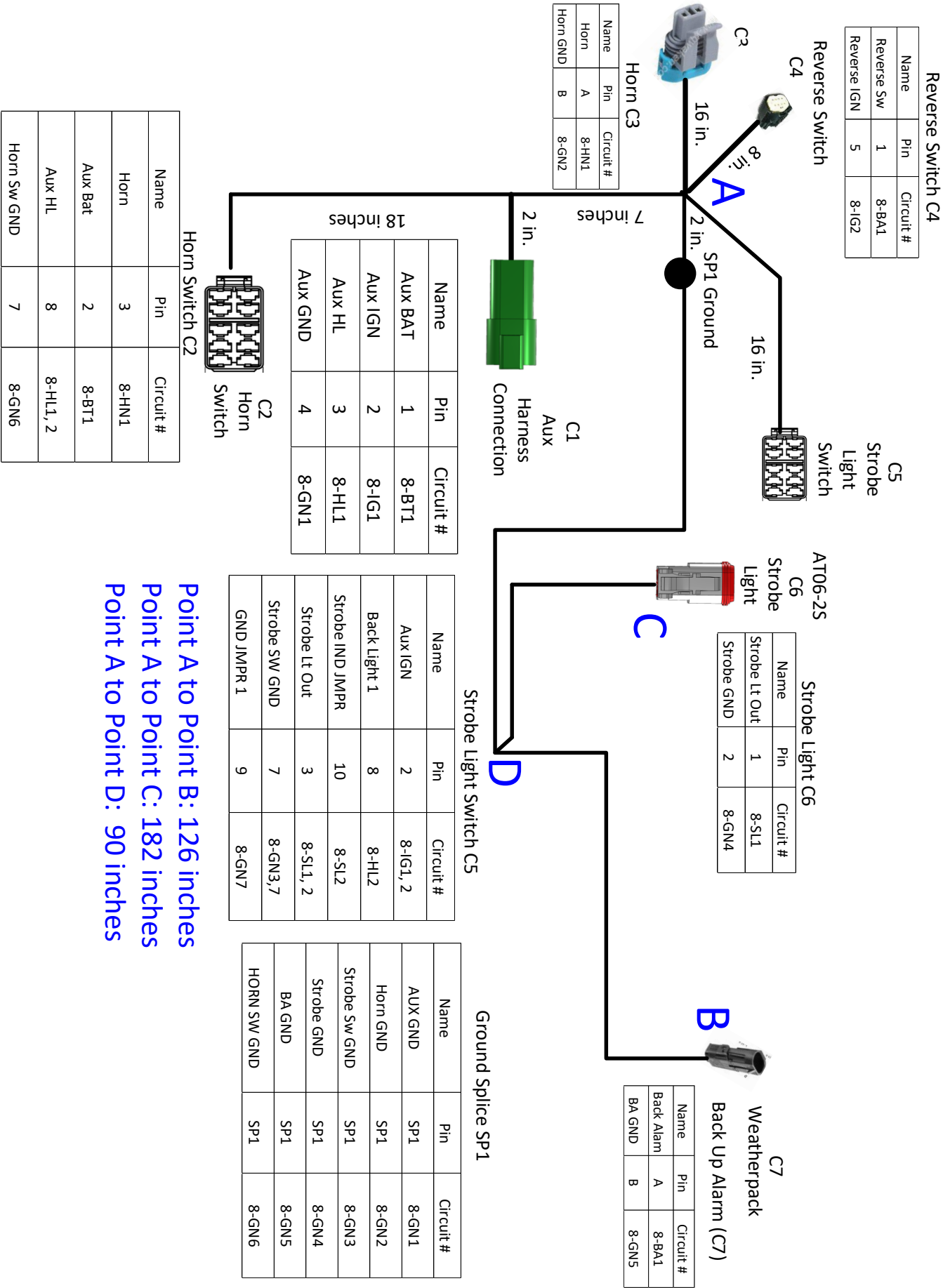


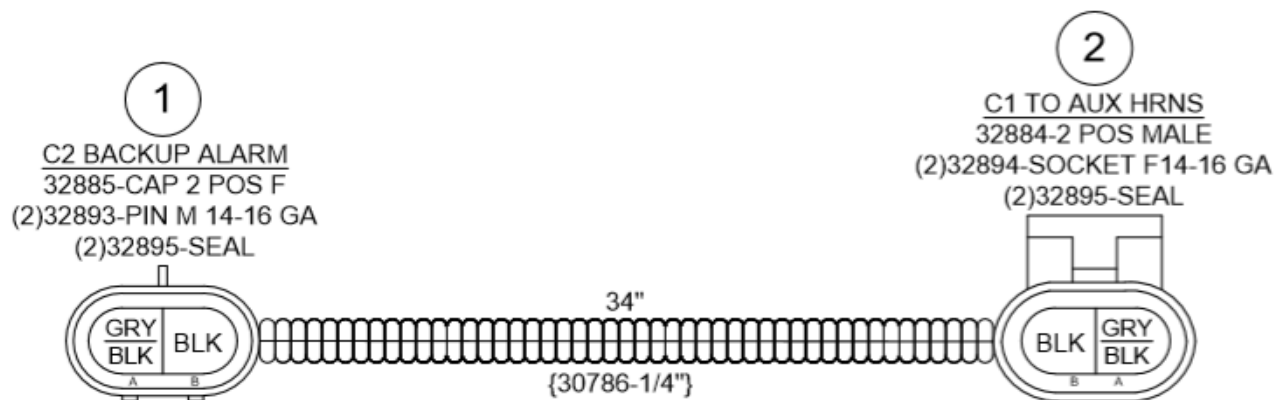
Name	Pin	Circuit #
ENG IGN	A	4-IG4
Battery	B	4-BT1
Plug	C	Plug
MIL-	D	4-EC1
ENG STOP	E	4-ES1
OIL -	F	4-EC2
Plug	G	Plug
NS to Starter	H	4-EC4

Name	Pin	Circuit #
ENG IGN	A	4-IG4
Battery	B	4-BT1
Plug	C	Plug
MIL-	D	4-EC1
ENG STOP	E	4-ES1
OIL -	F	4-EC2
Plug	G	Plug
NS to Starter	H	4-EC4





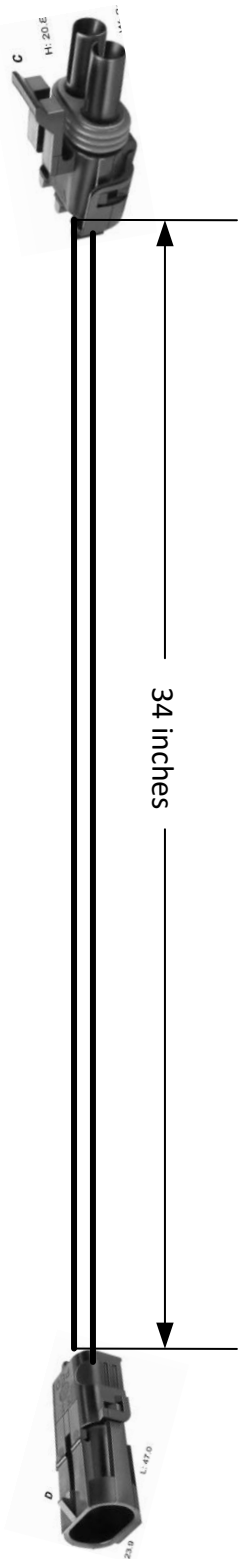




CRITICAL INFORMATION

- USE 32015-12" QTY 2 WHITE TWIST TIES TO TIE HARNESS; NOT MASKING TAPE

REV
B



C1

C2

Weatherpack
Back Up Alarm (C2)

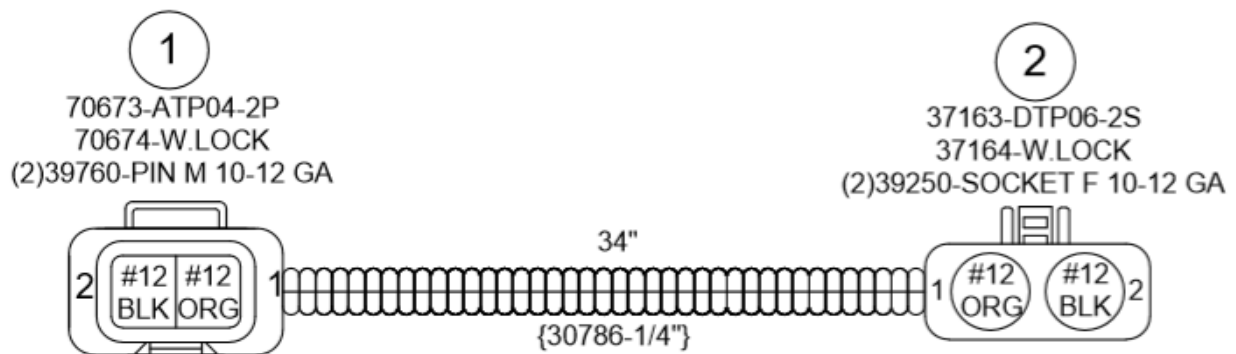
Weatherpack
Back Up Alarm (C2)

Name	Pin	Circuit #
Back Alarm	A	8-BA1
BA GND	B	8-GN5

Name	Pin	Circuit #
Back Alarm	A	8-BA1
BA GND	B	8-GN5

Aptiv Weatherpack	
Connector:	12015792
Terminal:	12124580
Seal:	15324982

Aptiv Weatherpack	
Connector:	12015792
Terminal:	12124582
Seal:	15324982



CRITICAL INFORMATION

- USE 32015-12" QTY 2 WHITE TWIST TIES TO TIE HARNESS; NOT MASKING TAPE

REV
B

