

**THE TRIUMPH GT6
ELECTRICAL
SYSTEM
FOR FHN548J**

DESIGNED BY PATRICK FALEUR (2019)

Original Wiring Diagram - GT6 Mark 2 - right hand steer with legend

6-302

ELECTRICAL

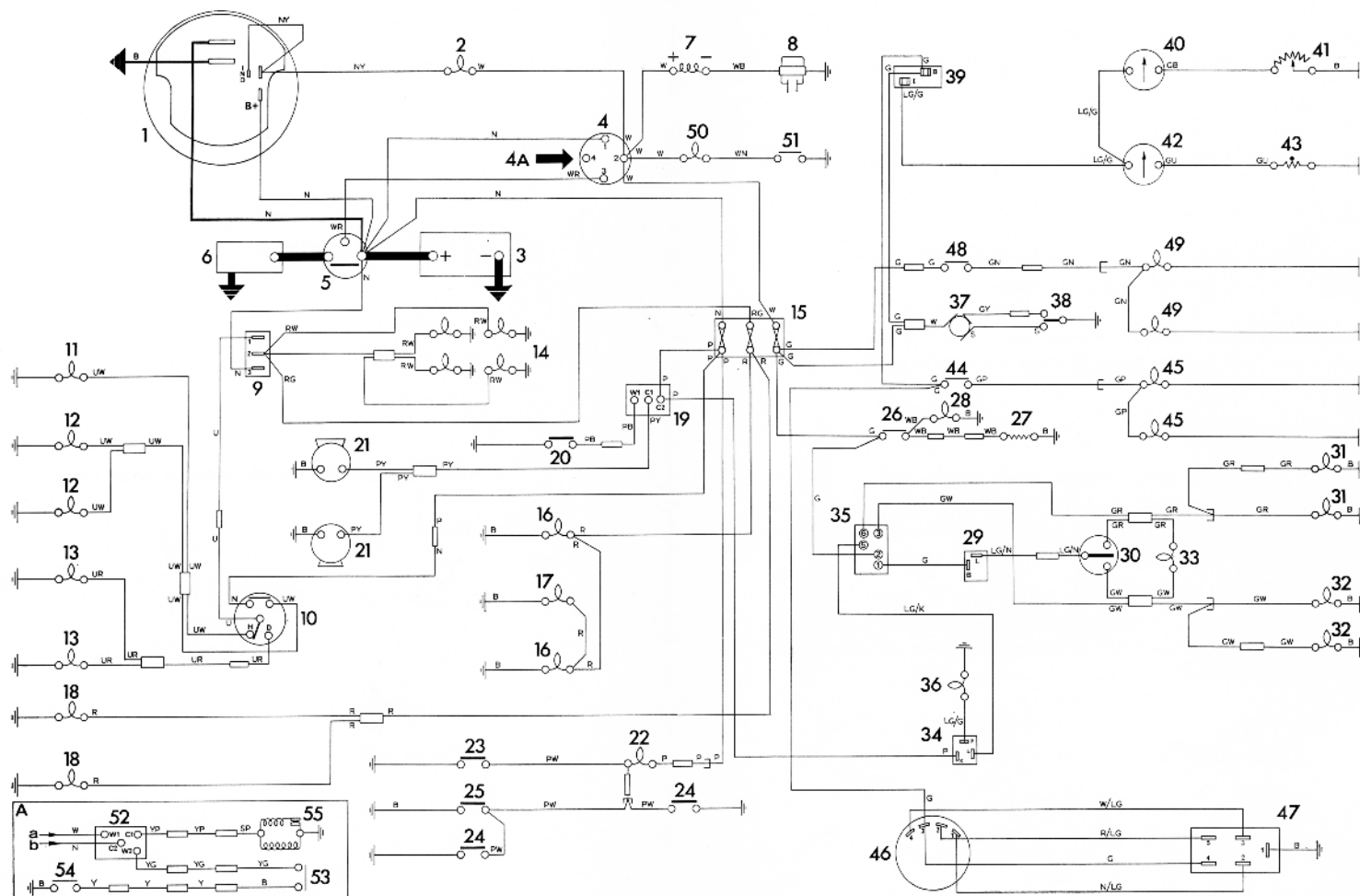


Fig. 1. Wiring diagram—GT6 Mark 2—right hand steer

- 1 Alternator
- 2 Ignition warning light
- 3 Battery
- 4 Ignition/starter switch
- 4A Radio supply conn.
- 5 Starter solenoid
- 6 Starter motor
- 7 Ignition coil
- 8 Ignition distributor
- 9 Master light switch
- 10 Column light switch
- 11 Main beam warning light
- 12 Main beam
- 13 Dip beam
- 14 Instrument illumination
- 15 Fuse assembly
- 16 Tail Lamp
- 17 Plate illumination lamp
- 18 Front parking lamp
- 19 Horn relay
- 20 Horn push
- 21 Horn
- 22 Roof lamp
- 23 Roof lamp tailgate switch
- 24 Roof lamp door switch
- 25 Roof lamp facia switch
- 26 Heated backlight switch
- 27 Heated backlight
- 28 Heated backlight warning light
- 29 Turn signal flasher unit
- 30 Turn signal flasher switch
- 31 L.H. Flasher lamp
- 32 R.H. Flasher lamp
- 33 Turn signal warning light
- 34 Hazard flasher unit
- 35 Hazard switch
- 36 Hazard warning light
- 37 Heater motor
- 38 Heater switch
- 39 Voltage stabilizer
- 40 Fuel indicator
- 41 Fuel tank unit
- 42 Temperature indicator
- 43 Temperature transmitter
- 44 Stop lamp switch
- 45 Stop lamp
- 46 Windscreen wiper switch
- 47 Windscreen wiper motor
- 48 Reverse lamp switch
- 49 Reverse lamp
- 50 Oil pressure warning light
- 51 Oil pressure switch

COLOUR CODE : N = Brown U = Blue R = Red P = Purple G = Green LG = Light Green W = White Y = Yellow S = Slate B = Black K = Pink

New Fuse Allocation

Loom	Circuit	Bank 1 (switched live - ignition)	Bank 2 (switched live - ignition)	Bank 3 (not used)	Bank 4 (permanently live)	Current draw *	Actual Fuse	Calculated Fuse	Cable amps	Cable spec.
Ignition	Ignition	n/a	n/a		n/a	n/a	n/a	n/a	33	44/0.30/3
Lighting	High Beam Relay				Fuse 2.11	200 mA	10	8	16.5	32/0.20/1
Lighting	Headlamp Flasher				Fuse 2.12	7 amps	15	12	16.5	32/0.20/1
Lighting	Master Light Switch		Fuse 1.11		Fuse 2.13	10 amps	20	18	25	28/0.30/2
Lighting	Low Beam Relay		Fuse 1.12			200 mA	10	8	16.5	32/0.20/1
Lighting	DRL Relay	Fuse 1.01				200 mA	10	8	16.5	32/0.20/1
Radio & USB Socket	Radio & USB Socket		Fuse 1.13			3 amps (radio)	15	14	25	28/0.30/2
Air Horns	Horn				Fuse 2.14	17 amps	25	25	33	44/0.30/3
Air Horns	Horn Relay				Fuse 2.15	200 mA	10	8	16.5	32/0.20/1
Roof Light	Roof Light				Fuse 2.16	800 mA	10	9	16.5	32/0.20/1
Heated Rear Window	Heated Rear Window	Fuse 1.02				20 amps	25	23	25	28/0.30/2
Heated Rear Window	HRW Relay	Fuse 1.03				200 mA	20	17	33	44/0.30/3
Indicator & Hazard	Hazard Switch	Fuse 1.04				7 amps	15	12	16.5	32/0.20/1
Indicator & Hazard	Hazard Relay				Fuse 2.17	7 amps	15	12	16.5	32/0.20/1
Heater Motor	Heater Motor	Fuse 1.05				10 amps	20	18	25	28/0.30/2
Fuel Gauge	Fuel Gauge	Fuse 1.06				1 amp	10	9	16.5	32/0.20/1
Brake Light	Brake Light	Fuse 1.07				3.5 amps	10	10	16.5	32/0.20/1
	Spare	Fuse 1.08								
	Spare	Fuse 1.09								
	Spare	Fuse 1.10								
Windscreen Washer & Wiper	Windscreen Washer & Wiper		Fuse 1.14			9 amps	20	17	25	28/0.30/2
			Fuse 1.15							
Reverse & Overdrive	Overdrive		Fuse 1.16			2 amps	10	9	16.5	32/0.20/1
Oil Pressure Warning Light	Oil Pressure Warning Light		Fuse 1.17			2 amps	10	9	16.5	32/0.20/1
Reverse & Overdrive	Reversing Light		Fuse 1.18			2 amps	10	9	16.5	32/0.20/1
	Spare		Fuse 1.19							
	Spare		Fuse 1.20							
	Spare				Fuse 2.18					
	Spare				Fuse 2.19					
	Spare				Fuse 2.20					
	Spare			Fuse 2.01						
	Spare			Fuse 2.02						
	Spare			Fuse 2.03						
	Spare			Fuse 2.04						
	Spare			Fuse 2.05						
	Spare			Fuse 2.06						
	Spare			Fuse 2.07						
	Spare			Fuse 2.08						
	Spare			Fuse 2.09						
	Spare			Fuse 2.10						

CABLES	
amps	cable
11	16/0.20/0.5
16.5	32/0.20/1
25	28/0.30/2
33	44/0.30/3
39	56/0.30
50	84/0.30
57	97/0.30
63	120/0.30
70	80/0.40

Mini blade fuses			
Continuous	Blow Rating	Colour	Quantity
2	4	Grey	-
3	6	Violet	-
4	8	Pink	-
5	10	Tan	-
7.5	15	Brown	-
10	20	Red	10
15	30	Light Blue	4
20	40	Yellow	4
25	50	White	2
30	60	Light Green	-

* Use 2.5-4mm terminals



List of cables

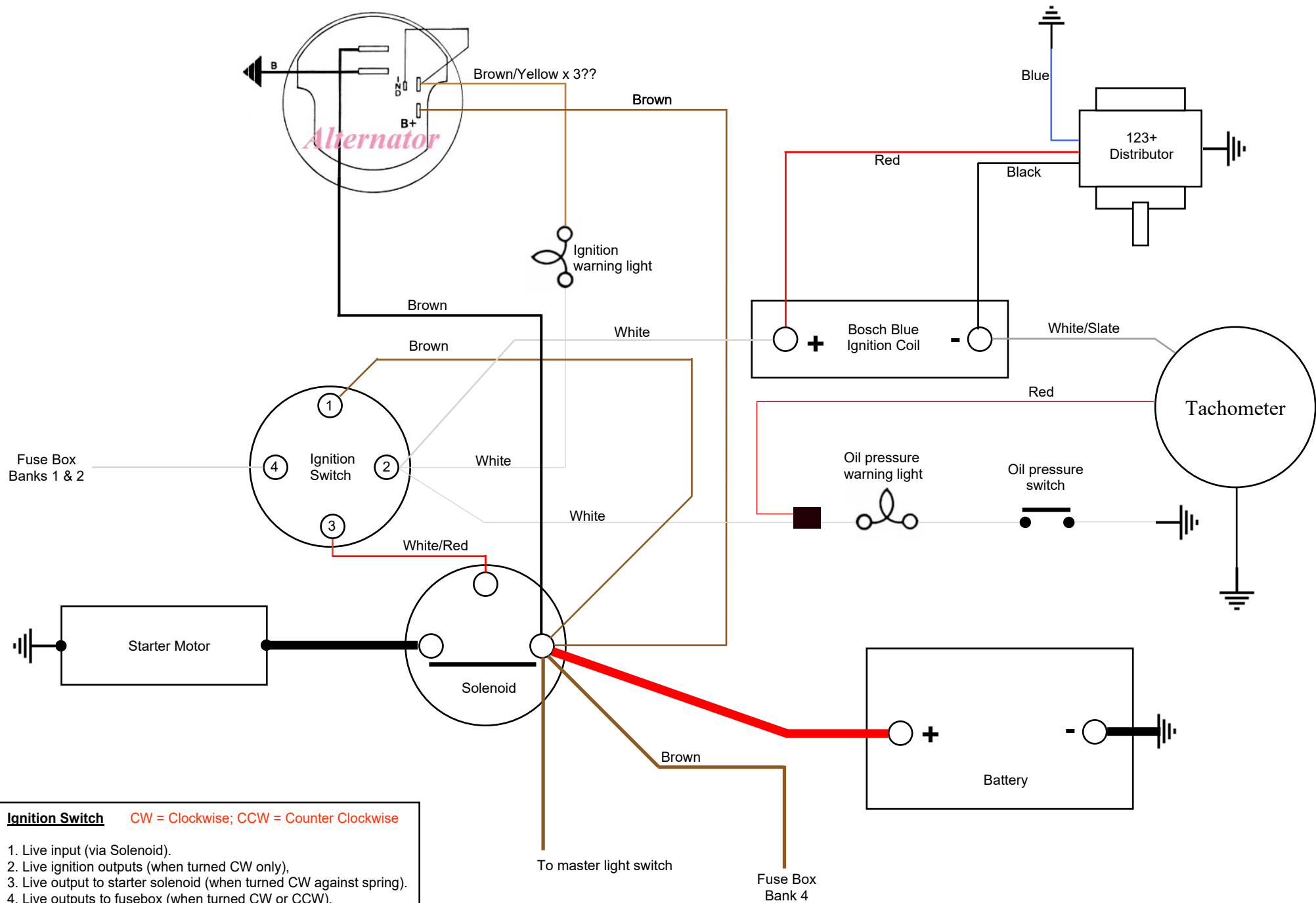
Front Loom	Cable No.	Cable Colour	Cable Size	Amps	VWP Prod. Code	For
Ignition	1	White/Red	3mm ²	33	33WR	Ignition Switch-3 to solenoid (starter switch)
	2	Brown	8.5mm ²	63	63N	Solenoid to Alternator
	3	Brown	3mm ²	33	33N	Solenoid live feed to Fusebox Bank 4 (perm live)
	4	Brown	3mm ²	33	33N	Solenoid to Alternator B+
	5	Brown	3mm ²	33	33N	Solenoid to Ignition Switch-1
	6	Brown/Yellow	2mm ²	25	25NY	Alternator to Ignition Warning Light
	7	White	1mm ²	16.5	16W	Ignition Switch-2 to Ignition Warning Light
	8	White	3mm ²	33	33W	Ignition Switch-2 to Coil (+ve)
	9	White	3mm ²	33	33W	Ignition Switch-4 to Fusebox bank 2
	10	White	3mm ²	33	33W	Ignition Switch-4 to Fusebox bank 1
	11	White/Slate	1mm ²	16.5	16WS	Tachometer to -ve terminal of coil
	12	White	1mm ²	16.5	16W	Ignition Switch-2 to Tachometer
	14	Black	Supplied	-	n/a	123+ Distributor to Coil -ve terminal
	15	Red	Supplied	-	n/a	123+ Distributor to Coil +ve terminal
	16	Blue	Supplied	-	n/a	123+ Distributor to Earth
Lighting	17	Black	2mm ²	25	25B	Earth from front DRLs, Headlights & Sidelights to bulkhead
	18	Red/Green	1mm ²	16.5	16RG	DRL live to DRL Relay (87a)
	19	Blue/Red	2mm ²	25	25UR	Dip beam live to Low Beam Relay (87)
	20	Blue/White	2mm ²	25	25UW	High beam live to High Beam Relay (87)
	21	Red/White	1mm ²	16.5	16RW	Front parking live to connector C
	22	Red/White	1mm ²	16.5	16RW	From connector C to Mate-N-Lok connector
	23	Red/White	1mm ²	16.5	16RW	From connector C to connector H
	24	Red/White	1mm ²	16.5	16RW	From connector H to connector G
	25	Red/White	1mm ²	16.5	16RW	From connector G to connector F
	26	Red/White	1mm ²	16.5	16RW	From connector F to connector E
	27	Red/White	1mm ²	16.5	16RW	From connector E to connector D
	28	Red/White	1mm ²	16.5	16RW	From connector D to DRL Relay (86)
	29	Blue/White	1mm ²	16.5	16UW	From High Beam Relay (86) to connector L (Flasher - Blue/White)
	30	Blue/Red	1mm ²	16.5	16UR	From Low Beam Relay (86) to connector K (Flasher - Blue/Red)
	31	Brown	1mm ²	16.5	16B	From Fuse 2.12 to connector J (Flasher - Brown)
	32	Blue	1mm ²	16.5	16U	From Master Light Switch (1) to connector I (Flasher - Brown/Red)
	33	Brown/Red	1mm ²	16.5	16NR	From Fuse 2.13 to Master Light Switch (3)
	34	Red/Black	2mm ²	25	25RB	From Fuse 1.12 to Low Beam Relay (30)
	35	Red/Blue	2mm ²	25	25RU	From Fuse 2.11 to High Beam Relay (30)
	36	Red/Brown	1mm ²	16.5	16RB	From Fuse 1.01 to DRL Relay (30)
	37	Black	2mm ²	25	25B	Earth (from each of 3 Relays)

Indicator & Hazard	38	Green/Red	1mm ²	16.5	16GR	Connector O to rear via Mate-N-Lok connector (Green/Red)
	39	Green/Red	1mm ²	16.5	16GR	Connector O to front via Old Fuse Box
	40	Green/White	1mm ²	16.5	16GW	Connector R to rear via Mate-N-Lok connector (Green/White)
	41	Green/White	1mm ²	16.5	16GW	Connector R to front via Old Fuse Box
	-	-	1mm ²	16.5	-	Diode Bridge 2 from connector Q to connector O (single Blue wire to O)
	42	Green/Light Green	1mm ²	16.5	16GL	Connector Q to connector M (Dash Hazard Warning Light - Green/Blue)
	43	Green/Red	1mm ²	16.5	16GR	Connector O to connector S
	44	Green/Red	1mm ²	16.5	16GR	Connector Q to Hazard Switch (6)
	45	Green/White	1mm ²	16.5	16GW	Connector R to Hazard Switch (3)
	46	Green/White	1mm ²	16.5	16GW	Connector R to connector T
	47	Green/White	1mm ²	16.5	16GW	Connector T to Steering Column (Green/White)
	48	Green/Red	1mm ²	16.5	16GR	Connector S to Steering Column (Green/Red)
	-	-	1mm ²	16.5	-	Diode Bridge 1 from S and T to Indicator Warning Light
	49	Green	1mm ²	16.5	16G	Fuse 1.04 to Hazard Switch (2)
	50	Green	1mm ²	16.5	16G	Flasher Relay (B+) to Hazard Switch (1)
	51	Brown/Light Green	1mm ²	16.5	16NL	Flasher Relay (L) to Steering Column (Light Green/Brown)
	52	Pink/Light Green	1mm ²	16.5	16KL	Hazard Relay (L) to Hazard Switch (5)
	53	Purple	1mm ²	16.5	16P	Hazard Relay (B+) to Fuse 2.17
	54	Black	1mm ²	16.5	16B	Earths (2) from Hazard Relays
	55	Black	1mm ²	16.5	16B	Earths (2) from both warning lights
Horn	56	Purple/Orange	2mm ²	25	25PO	Air Horns to Relay (87)
	57	Purple/Black	1mm ²	16.5	16PB	Relay (85) to Horn Push
	58	Red	2mm ²	25	25R	Relay (30) to Fuse 2.14 (Horn)
	59	Red/Black	1mm ²	16.5	16RB	Relay (86) to Fuse 2.15 (Horn Relay)
Heater Motor	60	Green	2mm ²	25	25G	From Fuse 1.05 to Heater Motor
	61	Slate	2mm ²	25	Use existing	From Heater Motor to Resistor in Matrix
	62	Green/Yellow	2mm ²	25	Use existing	From Resistor in Matrix to Heater Control (Low)
	63	Green/Slate	2mm ²	25	Use existing	From Resistor in Matrix to Heater Control (High)
Fuel Gauge	64	Green/Black	1mm ²	16.5	16GB	From Mate-N-Lok connector (sender) to fuel gauge
	65	Green	1mm ²	16.5	16G	From fuse 1.06 to voltage stabiliser
	66	Green/Light Green	1mm ²	16.5	16GL	From voltage stabilizer to fuel gauge
Brake Light	67	Green/Purple	1mm ²	16.5		Switch to Mate-N-Lok connector (brake lights)
	68	Green	1mm ²	16.5		Fuse 1.07 to switch
Radio & USB Socket	69	Black	2mm ²	25		Connector W to USB Socket
	70	Red	2mm ²	25		Fuse 1.13 to USB Socket
	71	Black	2mm ²	25		USB Socket to Radio (Earth)
	72	Red	2mm ²	25		USB Socket to Radio (Live)

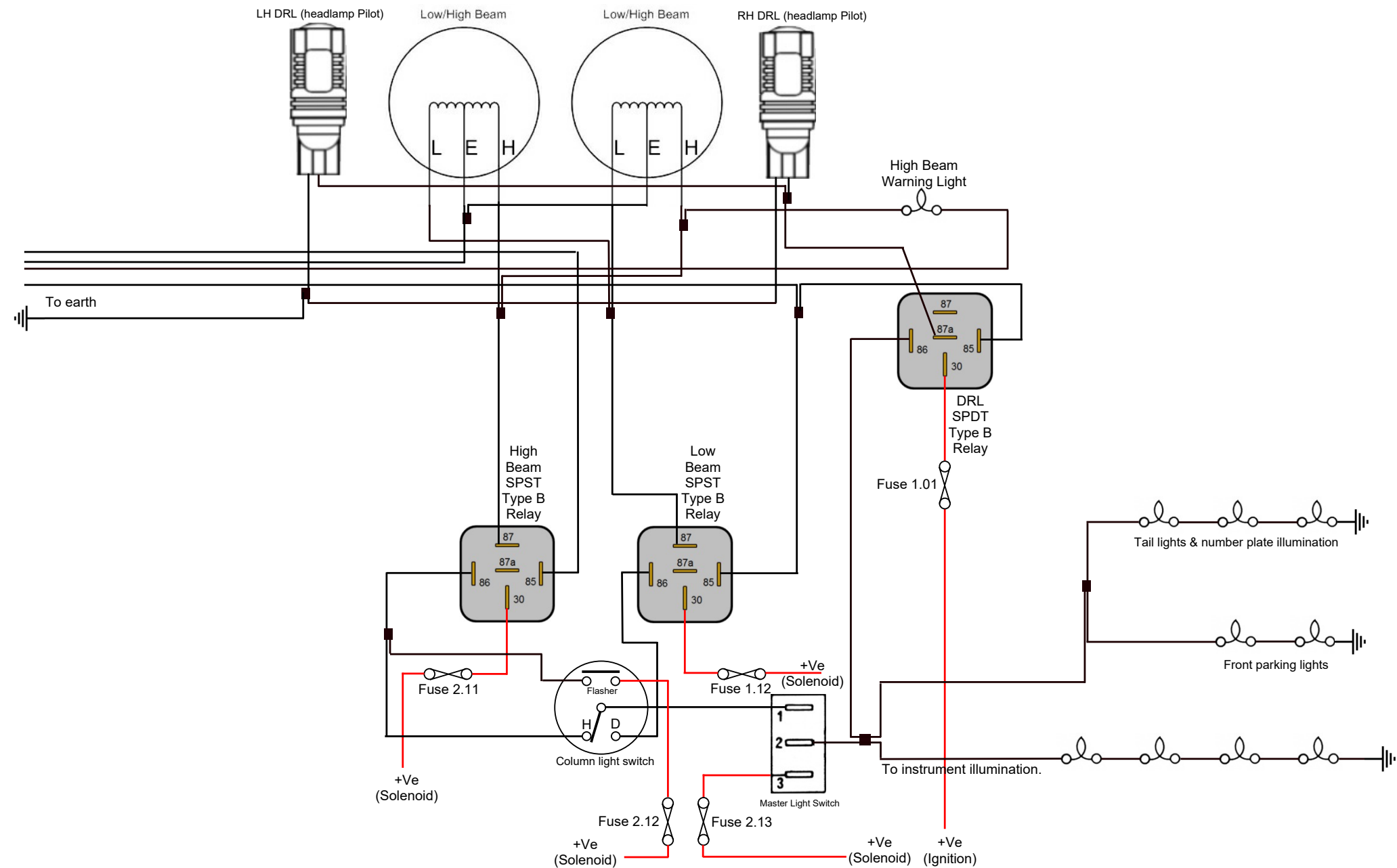
Roof light	73	Purple/White	1mm2	16.5		LH door switch to Connector U
	74	Purple/White	1mm2	16.5		RH door switch to Connector U
	75	Black	1mm2	16.5		Dashboard switch to Earth
	76	Black	1mm2	16.5		LH door switch to earth
	77	Black	1mm2	16.5		RH door switch to earth
	78	Purple/White	1mm2	16.5		Connector U to rear via Mate-N-Lok connector
	79	Purple/White	1mm2	16.5		Connector U to dashboard switch
	80	Purple	1mm2	16.5		Fuse 2.16 to rear via Mate-N-Lok connector
Heated Rear Window	81	White/Black	2mm2	25		Relay (87) to bullet connector U (HRW at rear)
	82	White/Black	1mm2	16.5		Relay (86) to HRW Switch
	83	Red	2mm2	25		Relay (30) to Fuse 1.02
	84	Green	1mm2	16.5		HRW Switch to Fuse 1.03
	85	White/Black	1mm2	16.5		HRW Switch to warning light in Tachometer
	86	Black	2mm2	25		Earth from Relay (85)
Windscreen Wiper	87	Green/Light Green	2mm2	25	25GL	Fuse 1.14 to Connector V
	88	White/Green	2mm2	25		Switch-4 to Motor-3 - fast speed
	89	Red/Green	2mm2	25		Switch-2 to Motor-5 - slow speed
	90	Green	2mm2	25		Motor-4 to Connector V
	91	Green	2mm2	25		Connector V to Washer Pump
	92	Brown/Green	2mm2	25		Switch-1 to Motor-2 - Park
	93	Green/Black	2mm2	25		Washer Pump to Washer Switch
	94	Green	2mm2	25		Connector V to Switch-3
	95	Black	2mm2	25		Washer Switch to Connector W (Earth)
	96	Black	2mm2	25		Motor-1 to Connector W (Earth)
	97	Black	2mm2	25		Connector to Earth
Reverse & Overdrive	98	Green/Brown	1mm2	16.5		Reverse switch to Mate-N-Lok connector (reversing light)
	99	Green/Brown	1mm2	16.5		Fuse 1.18 to reverse switch
	100	Green	2mm2	25		Fuse 1.16 to overdrive switch (in gear stick)
	101	Yellow/Red	2mm2	25		Overdrive switch to gearbox switch
	102	Yellow/White	2mm2	25		Gearbox switch to overdrive solenoid
Oil Pressure Warning Light	103	White	1mm2	16.5		Fuse 1.17 to light
	104	Red/Green	1mm2	16.5		Light to switch on engine

1. CIRCUITS

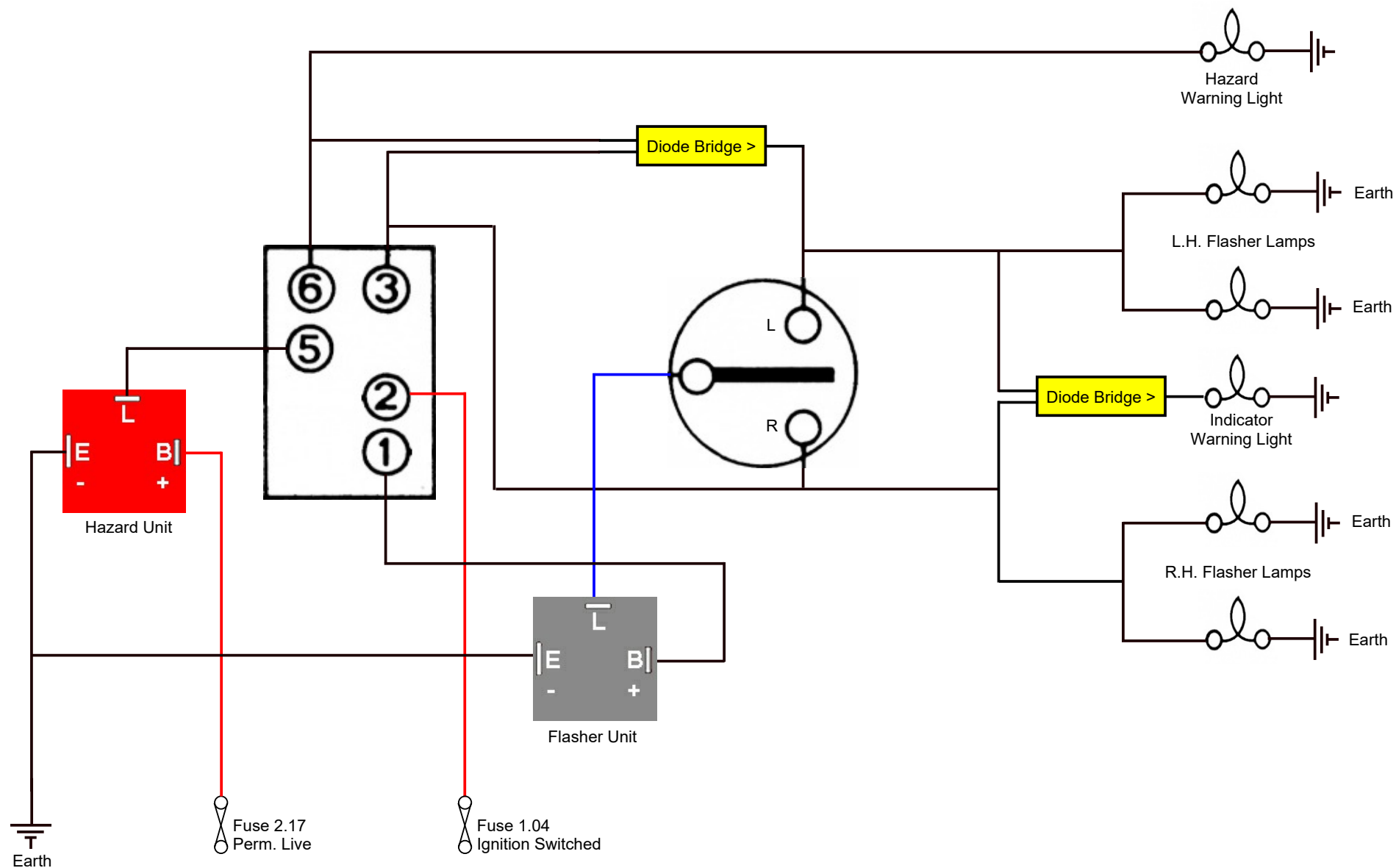
Ignition Circuit



Headlight/DRL/Parking/Tail light Circuit



Flasher & Hazard Circuit - Revised



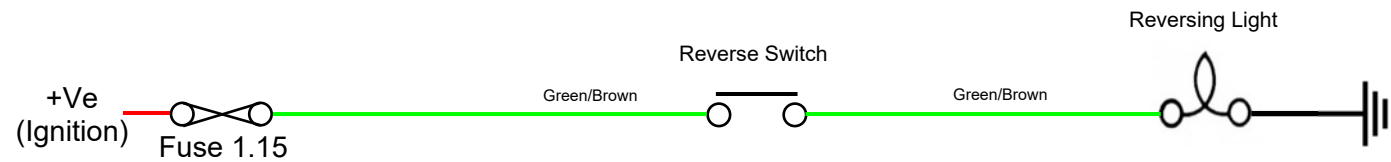
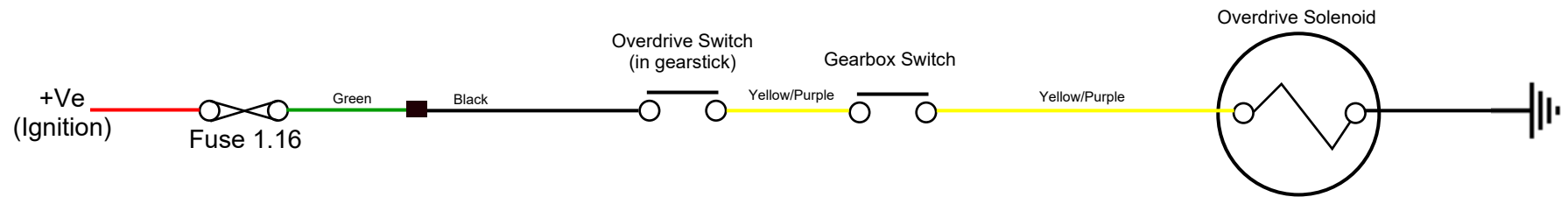
Hazard Switch Connections.

When the Hazard Switch is off, (1) and (2) are connected, allowing the Flasher circuit to complete,
When the Hazard Switch is on (1) and (2) are disconnected. (5) is connected to (6 - LH Flashers and the Dash Lamp)
and (3- RH Flashers).

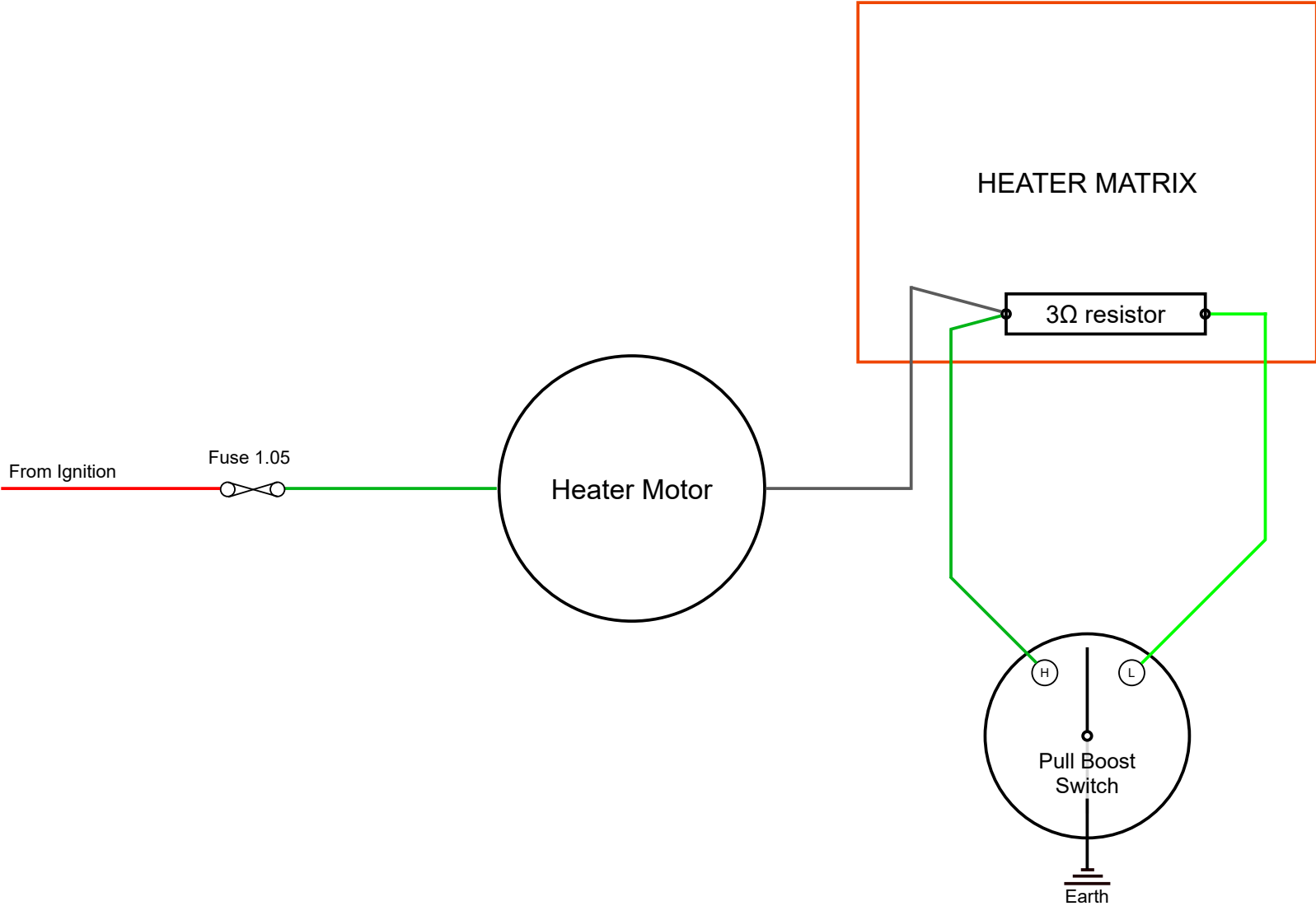
CF14 JL-02 Relay Connections:

+/B = Live In; L = To Switch; -/E = Earth

Reversing Light / Overdrive Circuit



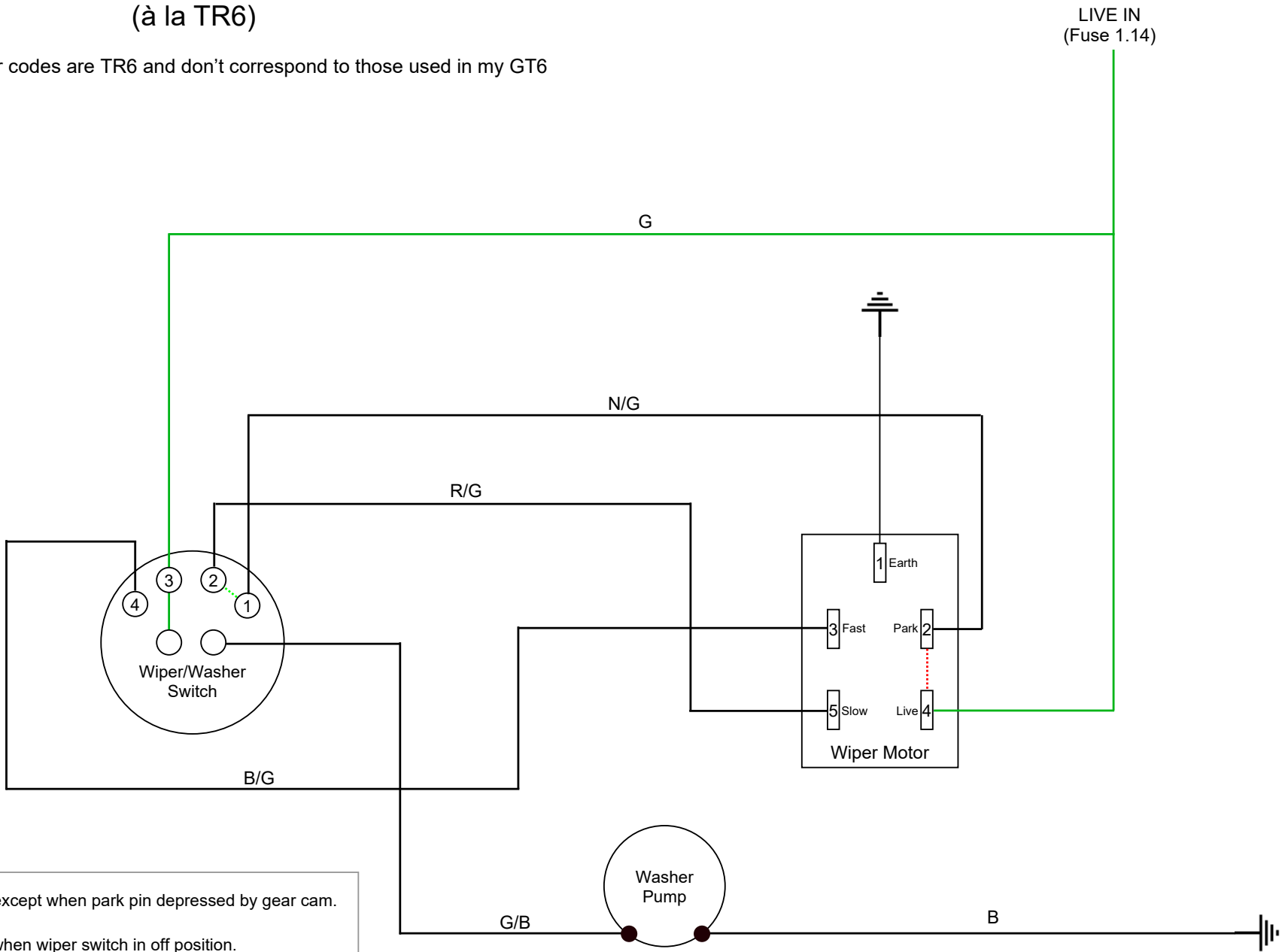
Heater Motor Circuit



Windscreen Wiper & Washer Circuit

(à la TR6)

Please note colour codes are TR6 and don't correspond to those used in my GT6



..... Connected except when park pin depressed by gear cam.

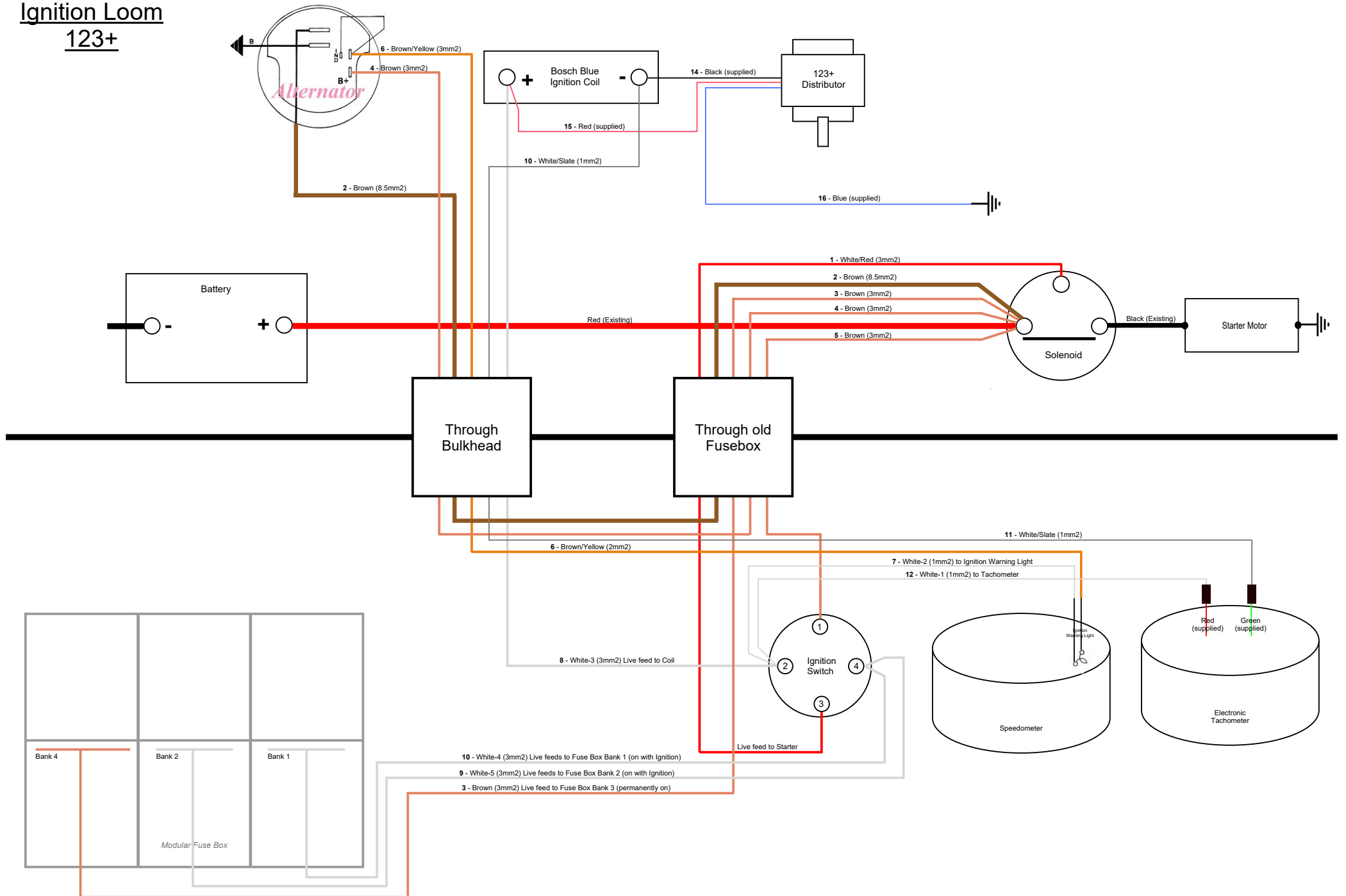
..... Connected when wiper switch in off position.

N.B. Live only when ignition is on.

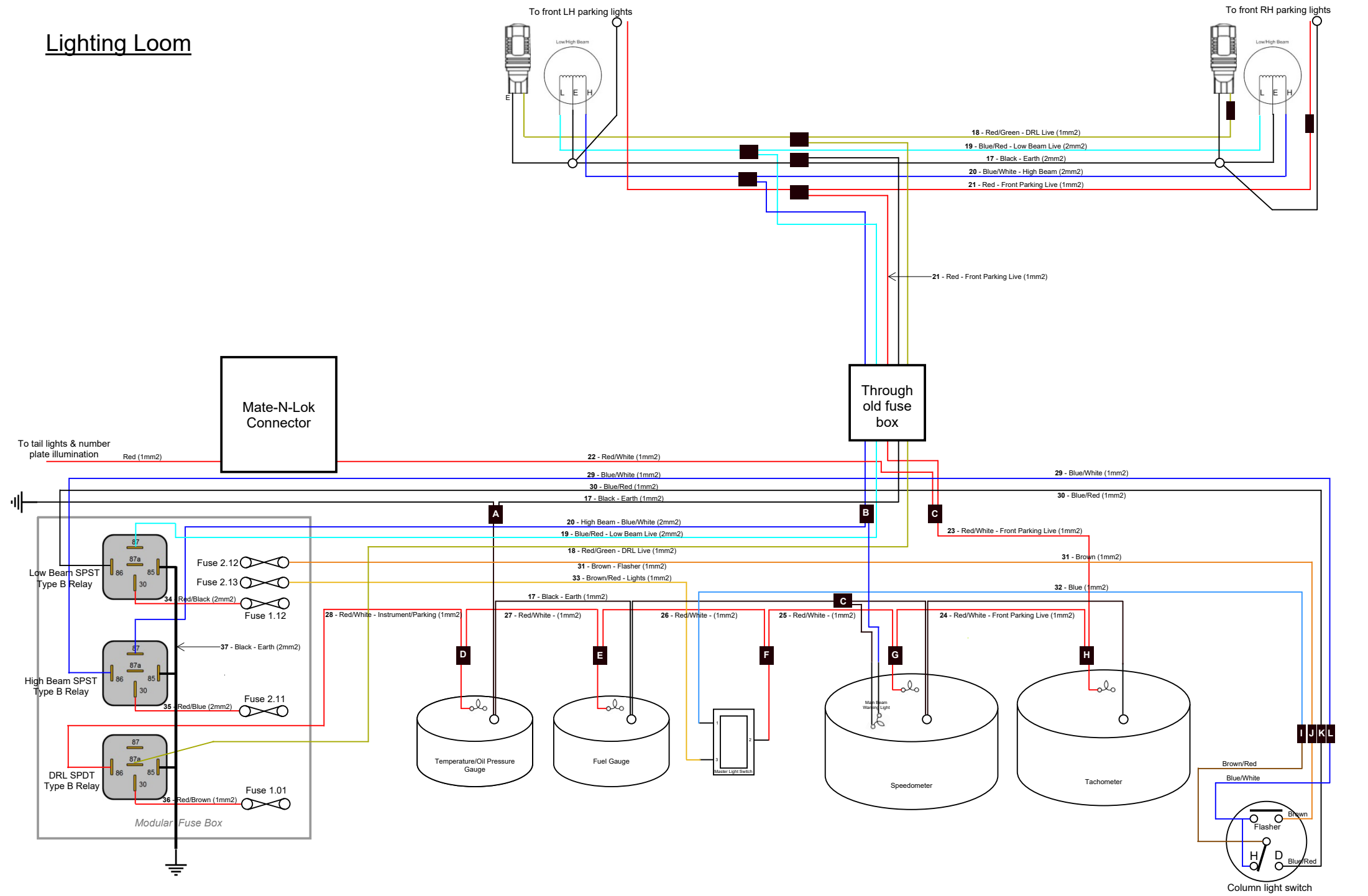
2. LOOM DIAGRAMS

Ignition Loom

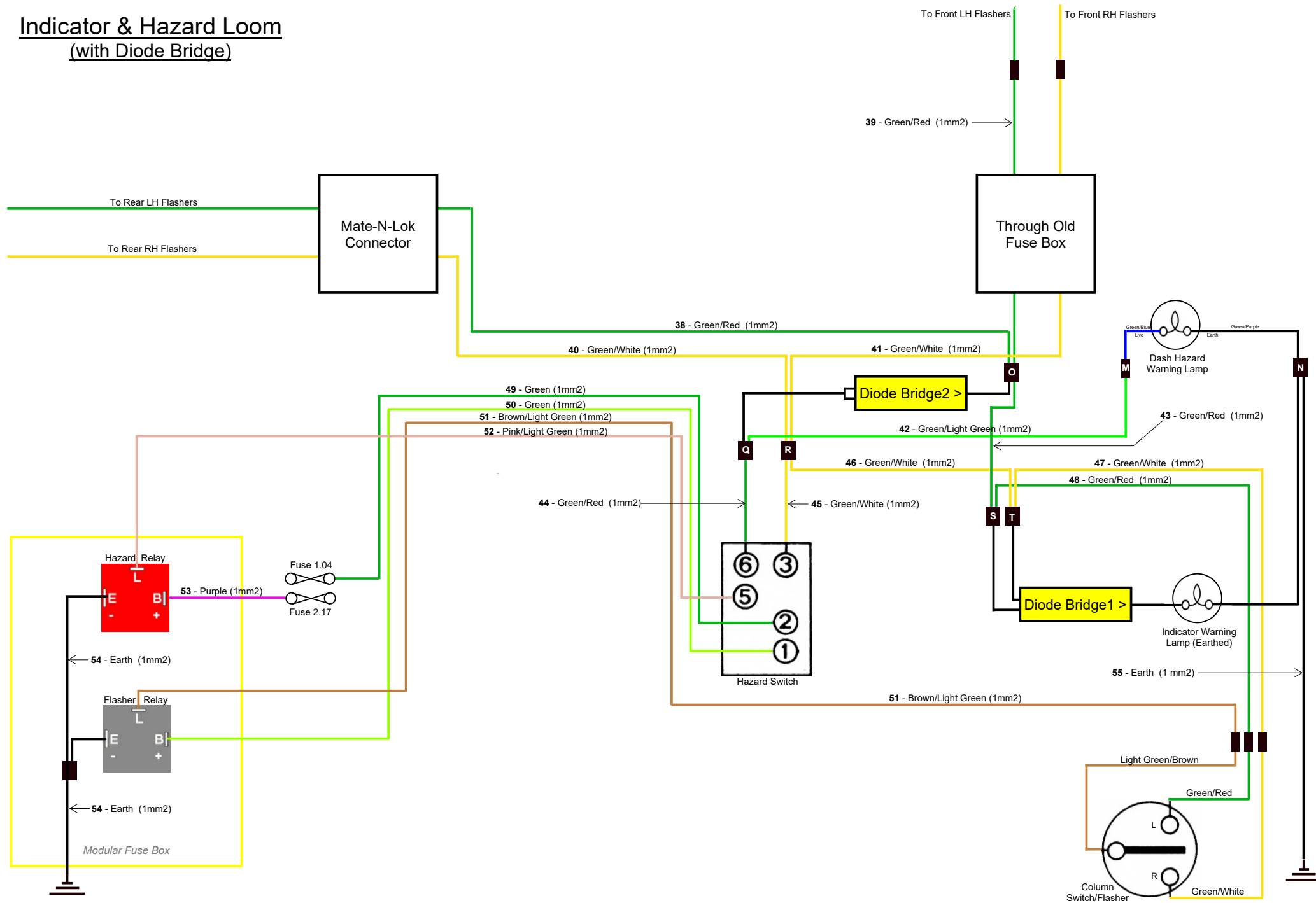
123+



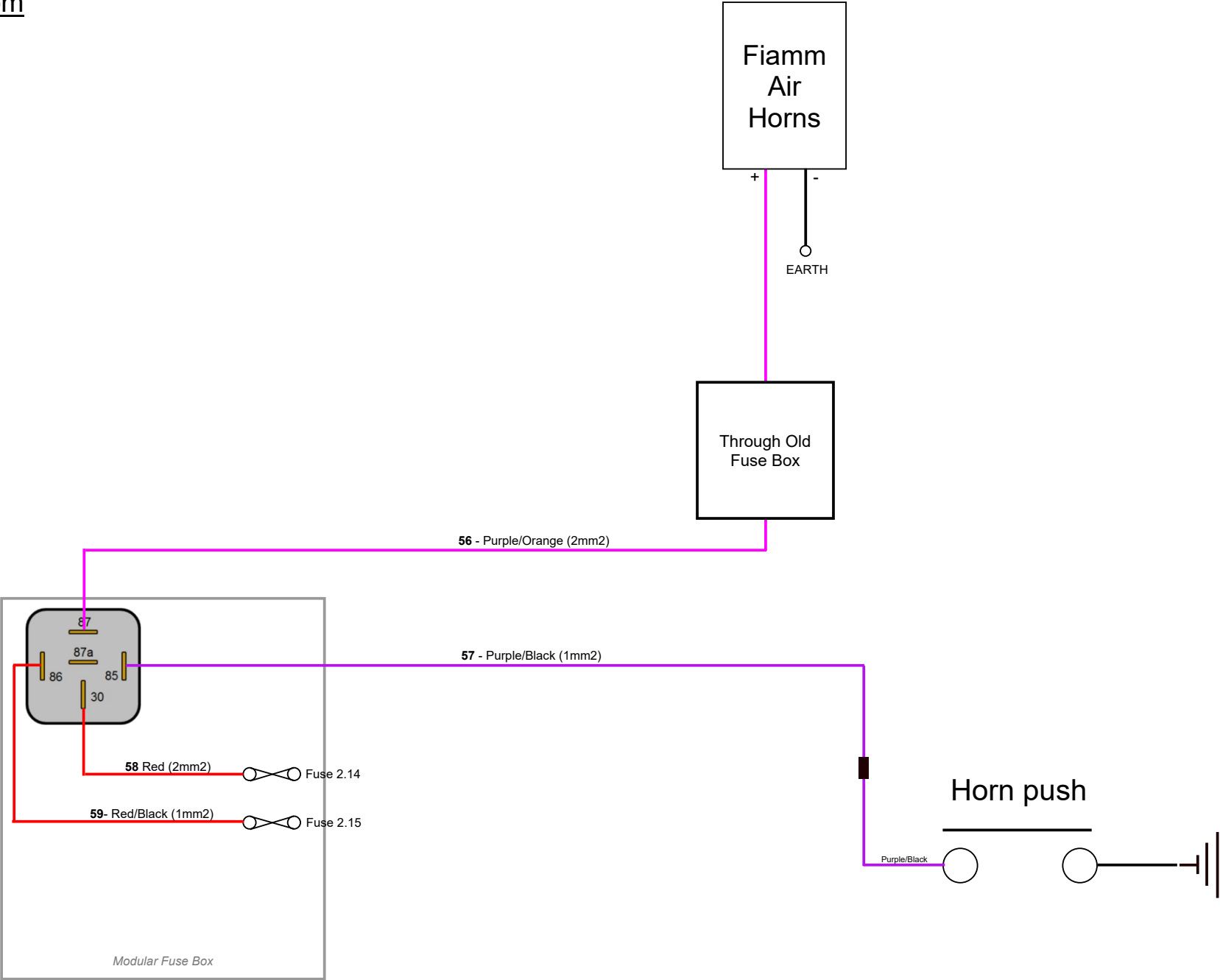
Lighting Loom



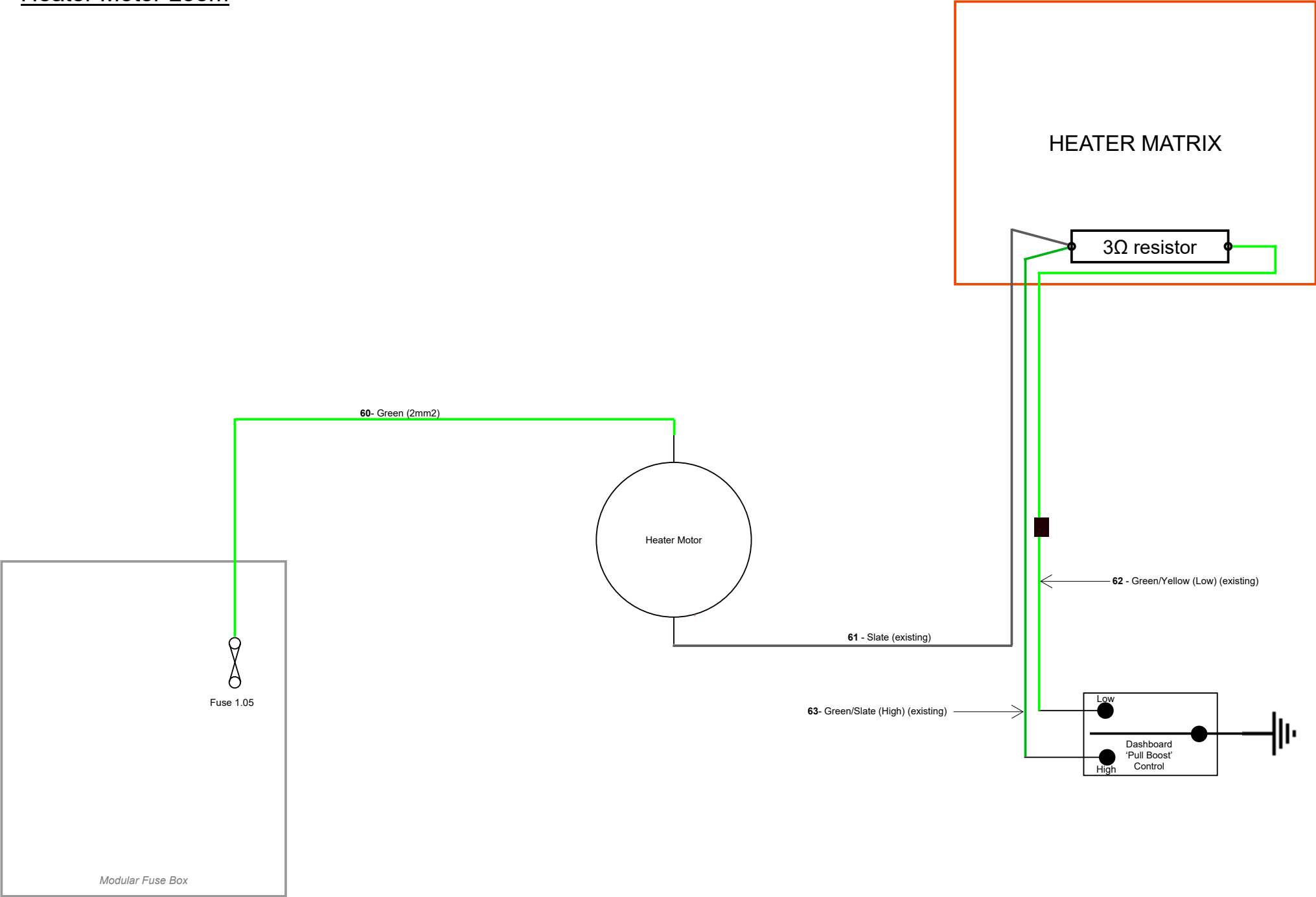
Indicator & Hazard Loom (with Diode Bridge)



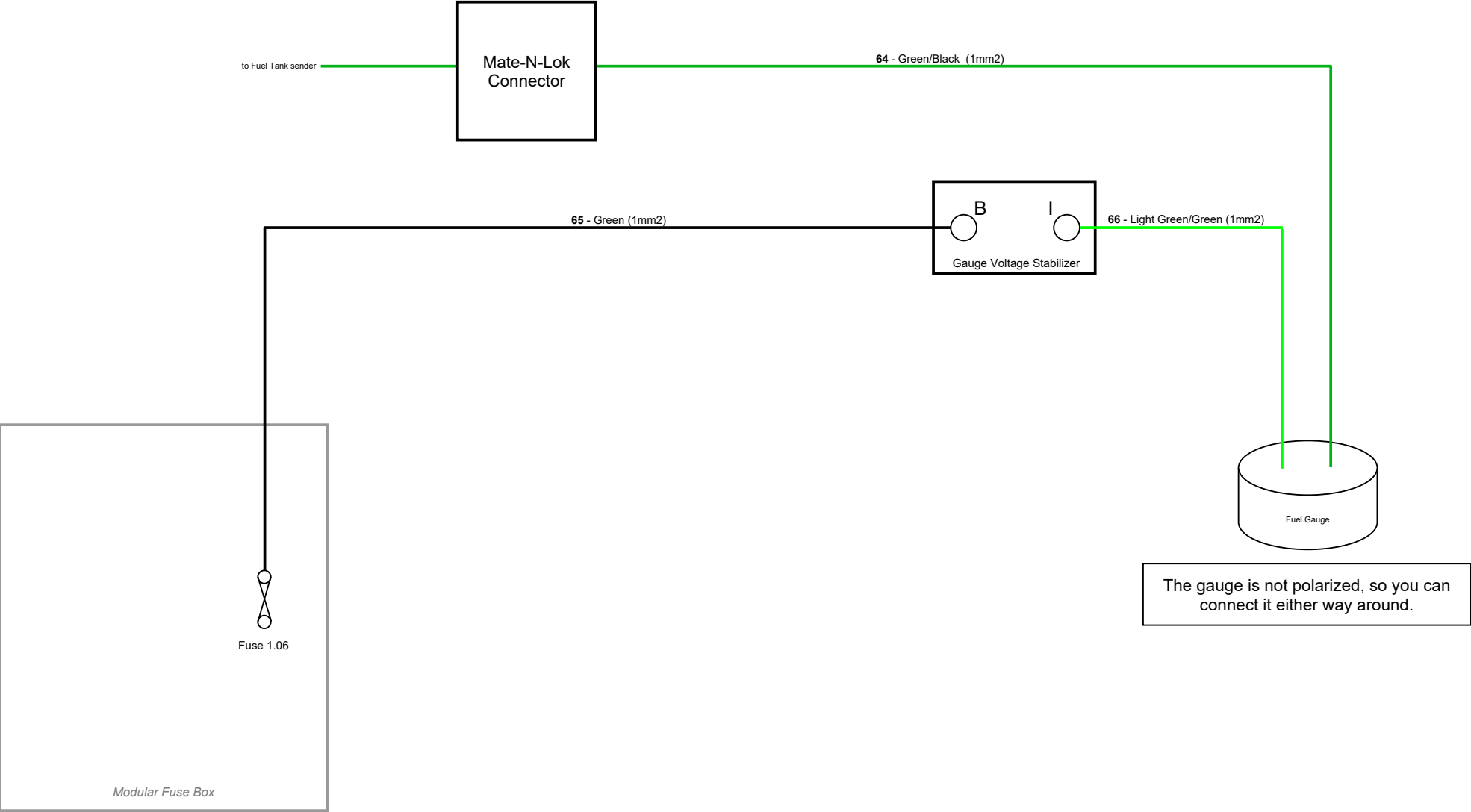
Horn Loom



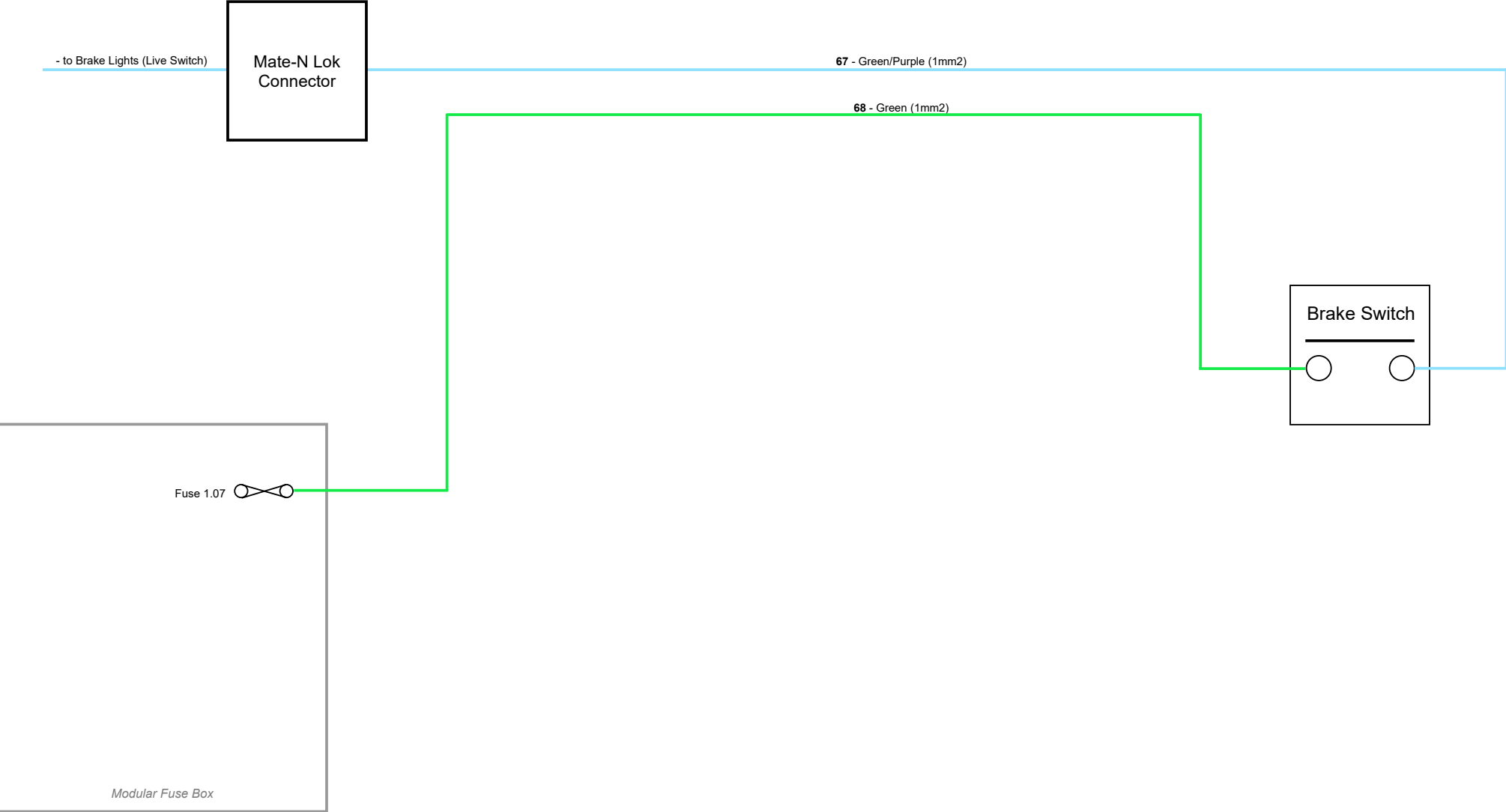
Heater Motor Loom



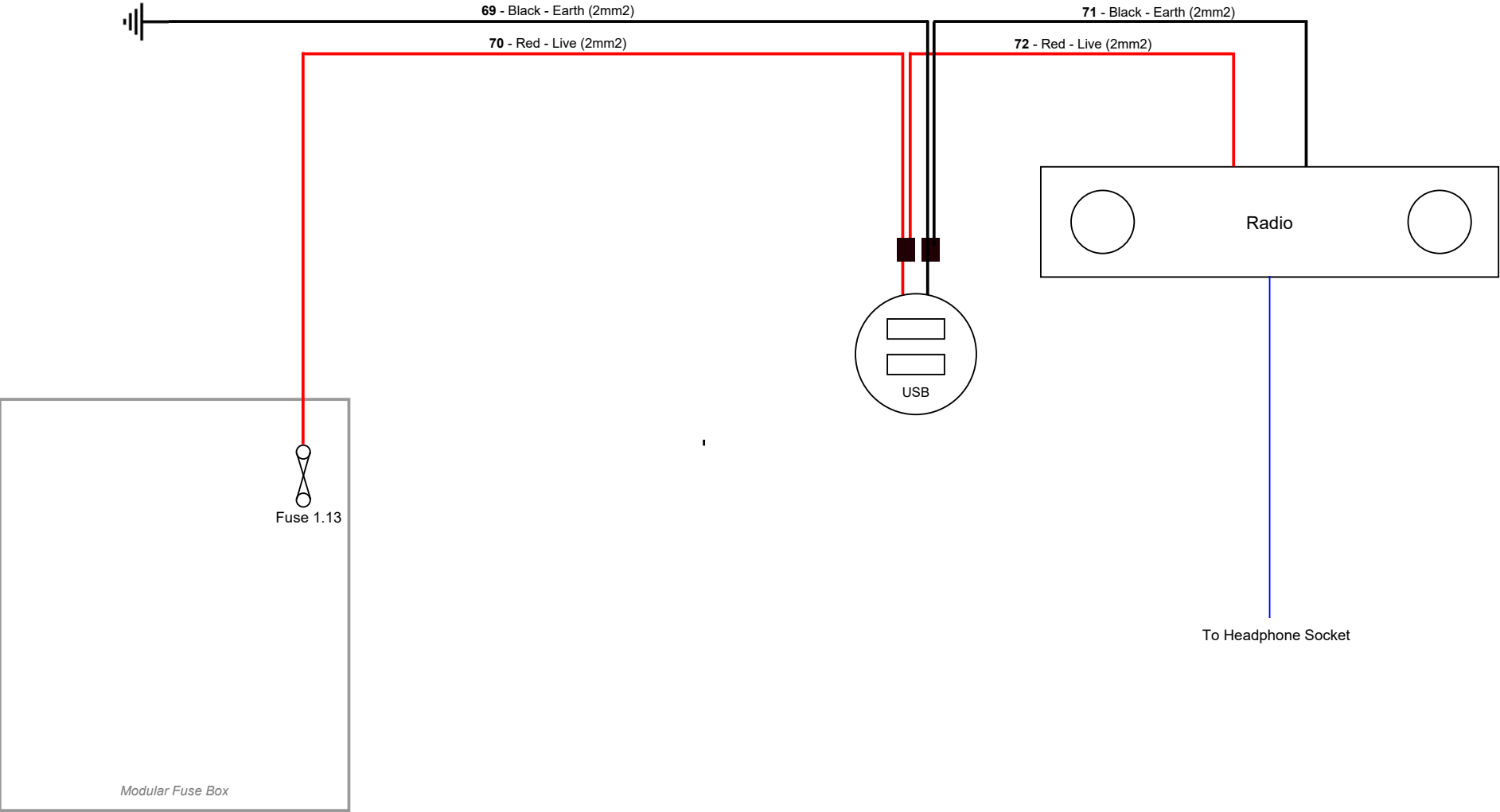
Fuel Gauge Loom



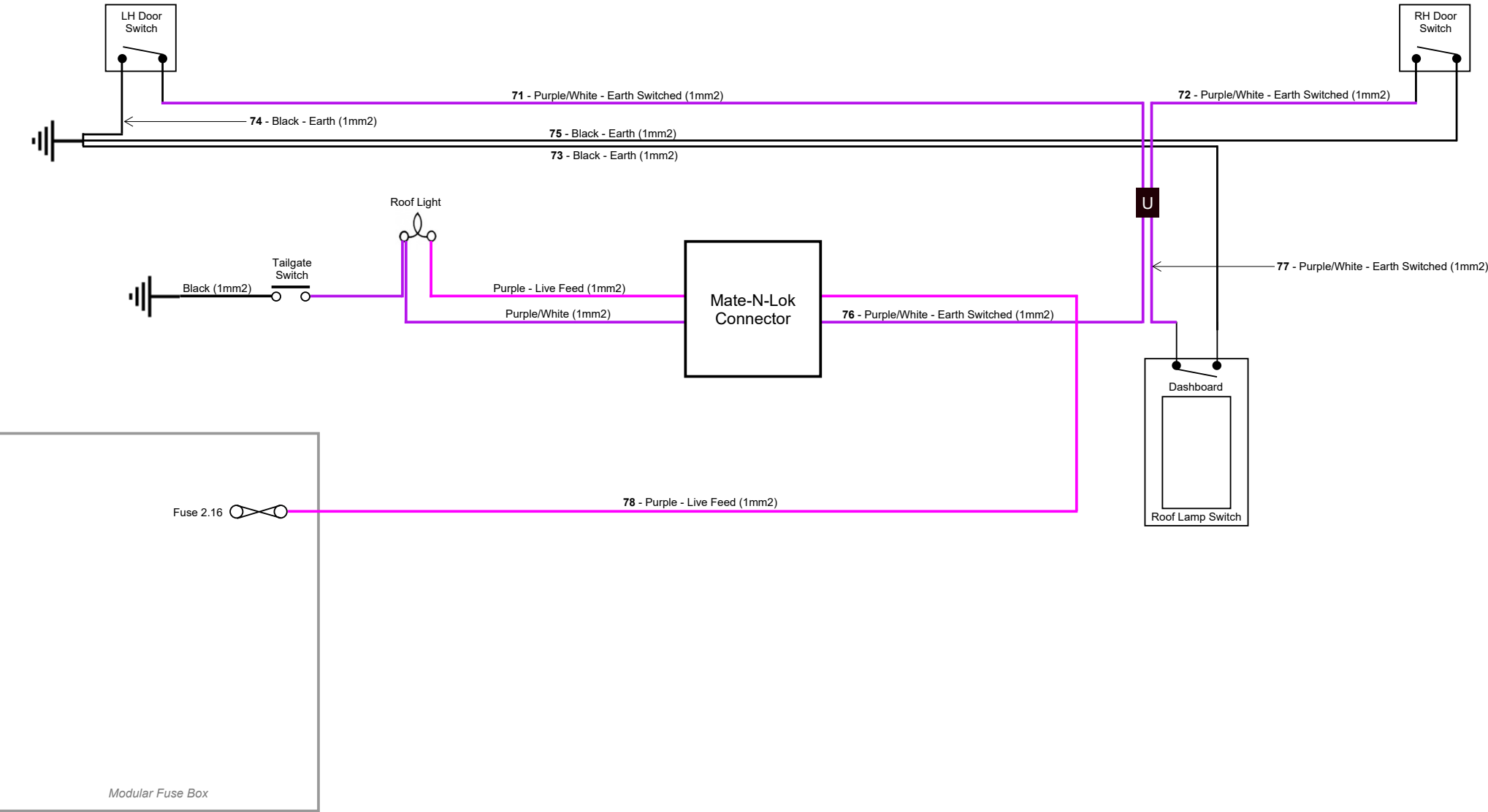
Brake Light Loom



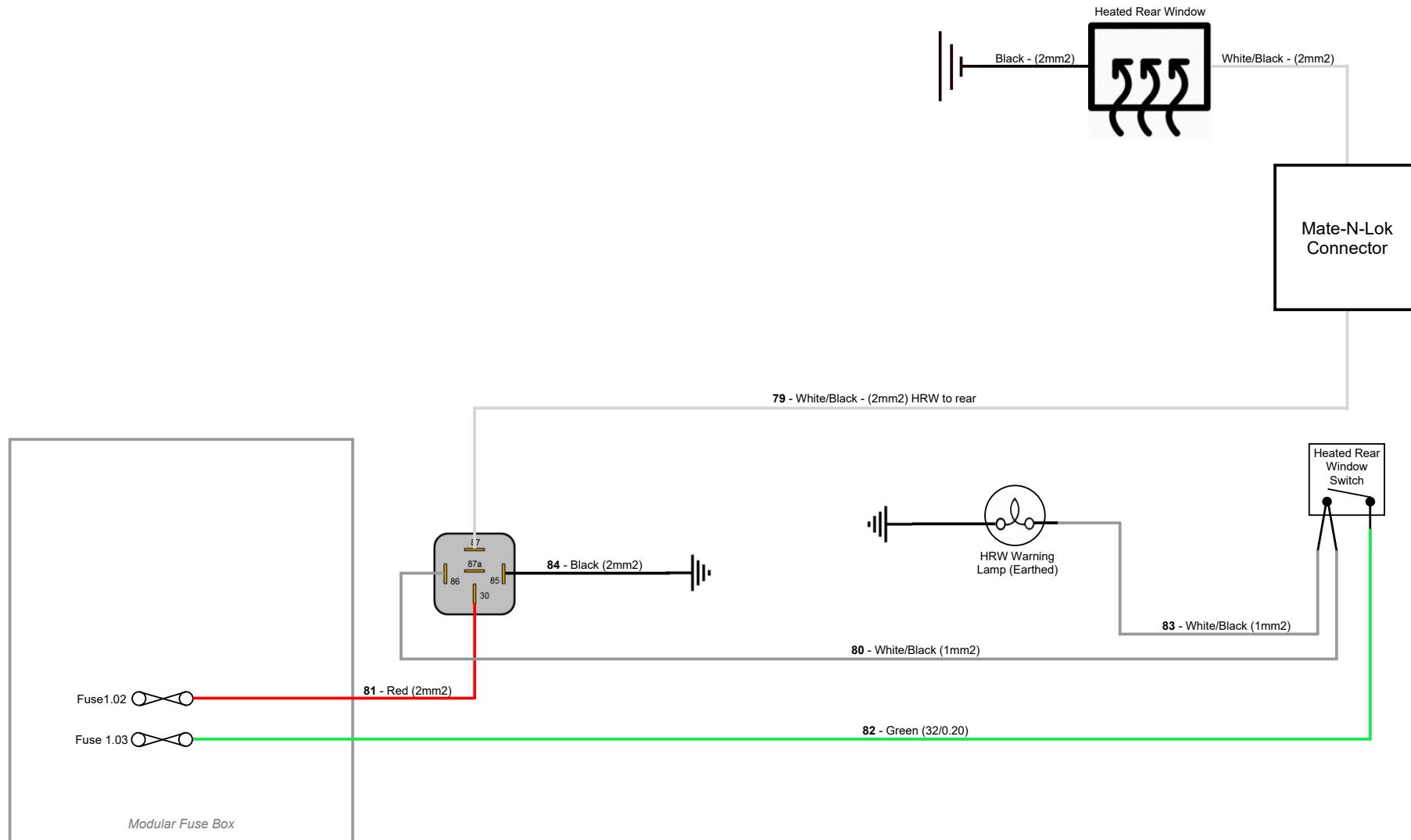
Radio & USB Socket Loom



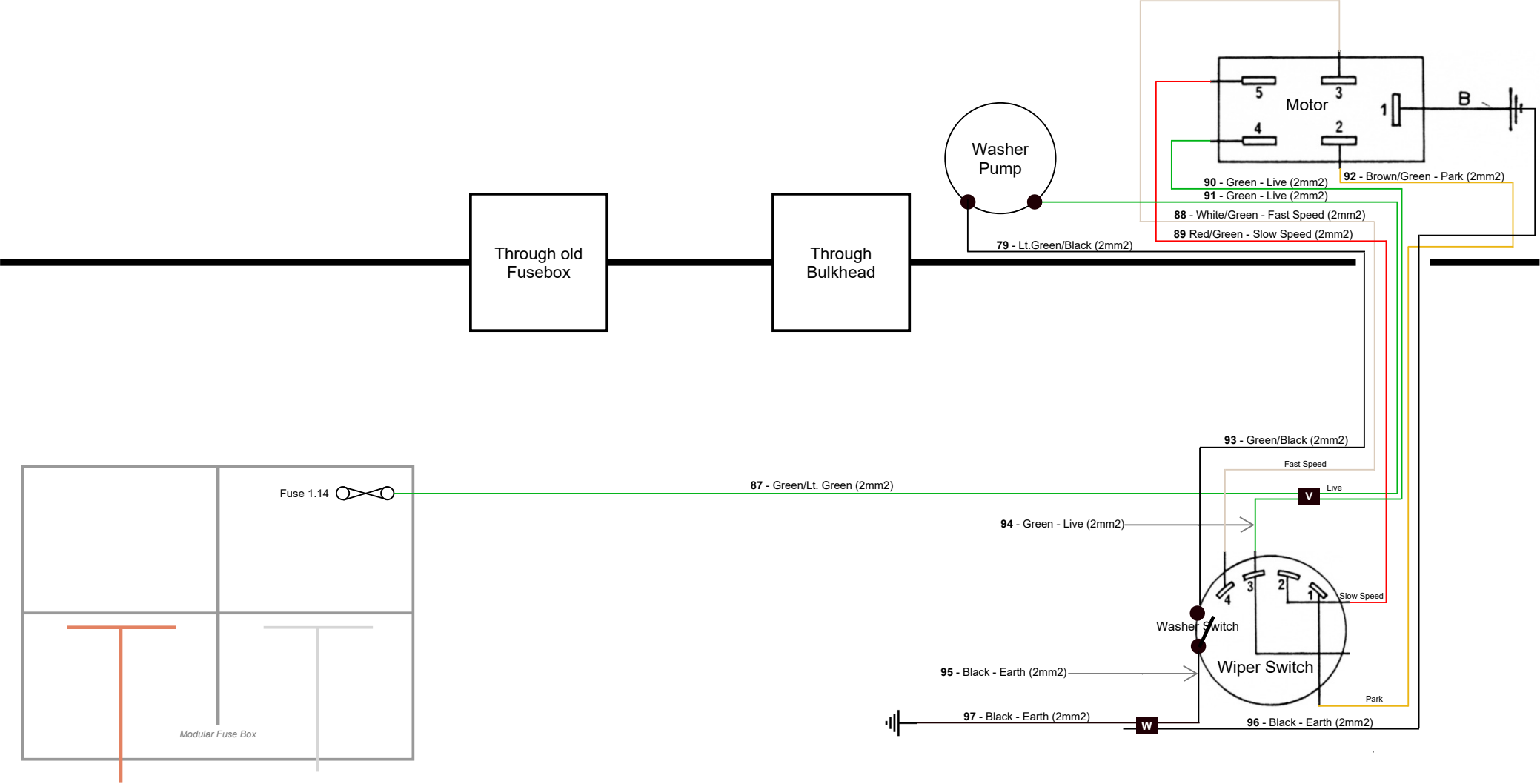
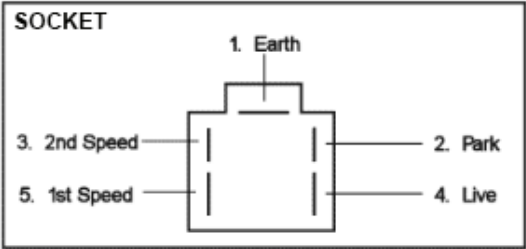
Roof Light Loom



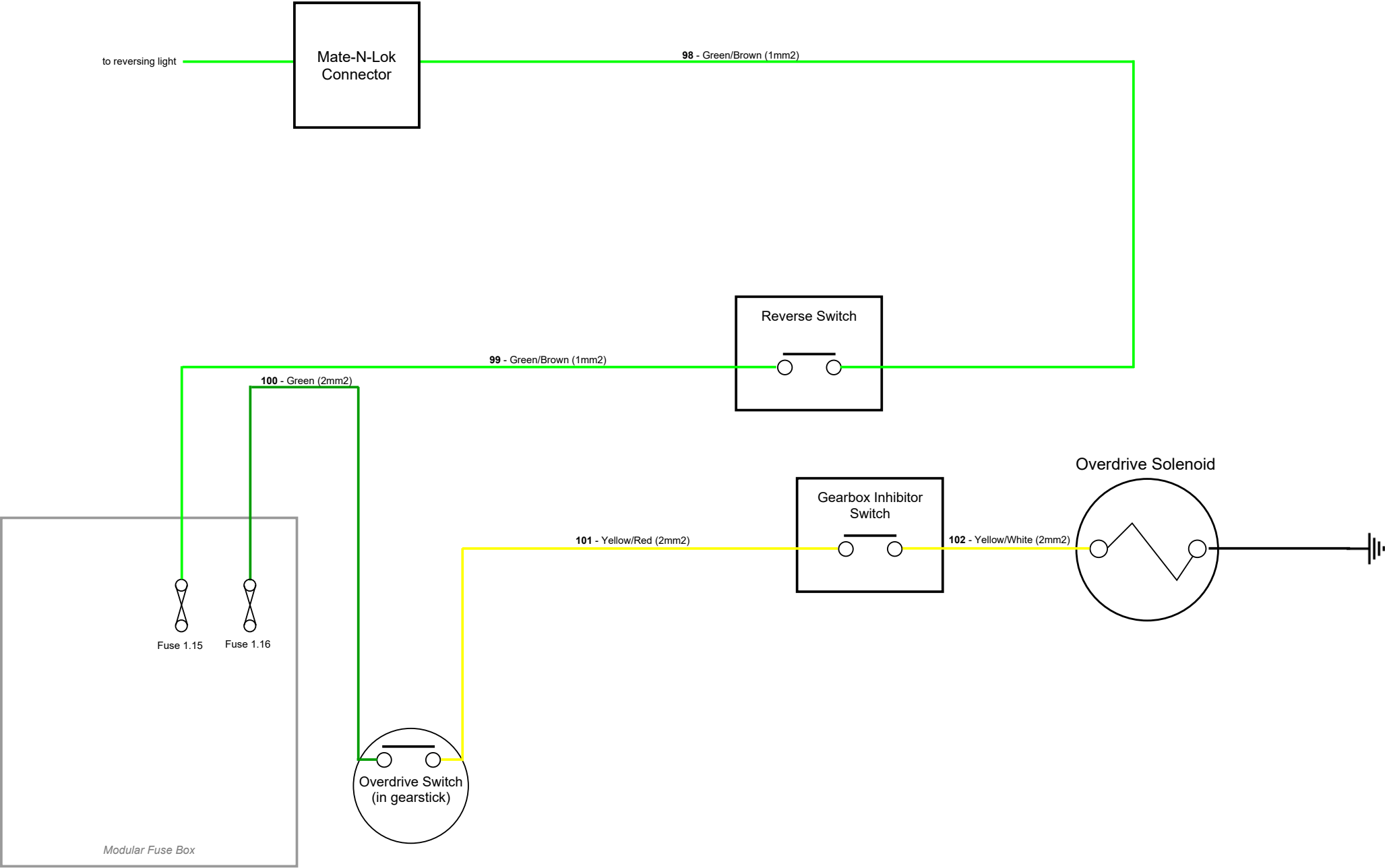
Heated Rear Window Loom



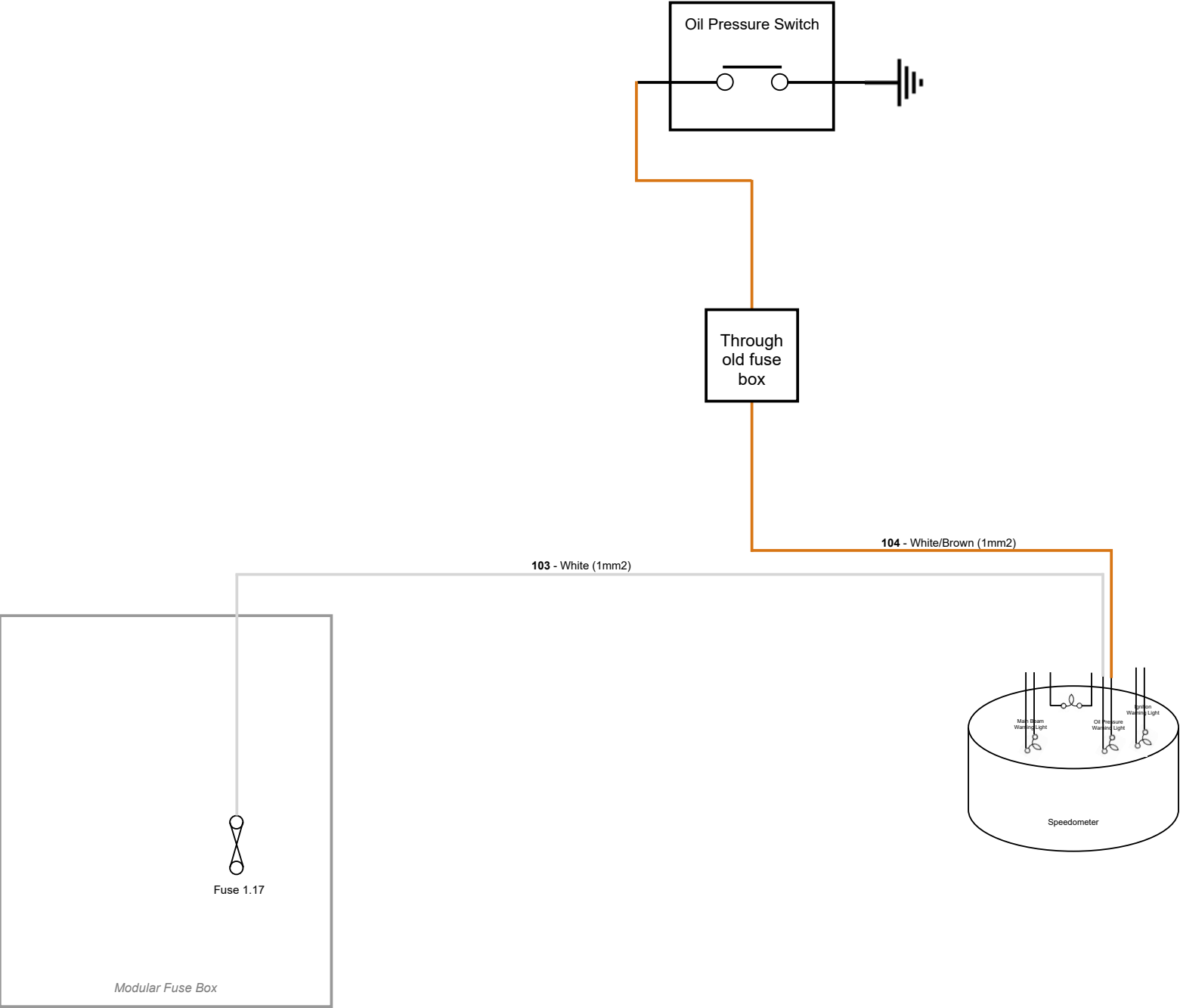
Windscreen Wiper & Washer Loom



Reverse & Overdrive Loom



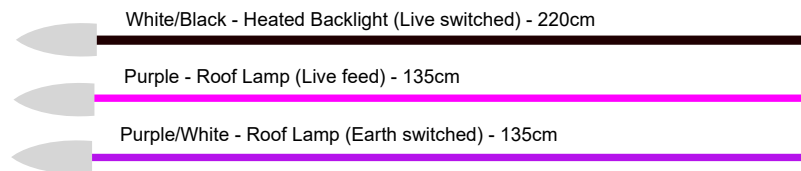
Oil Pressure Warning Light Loom



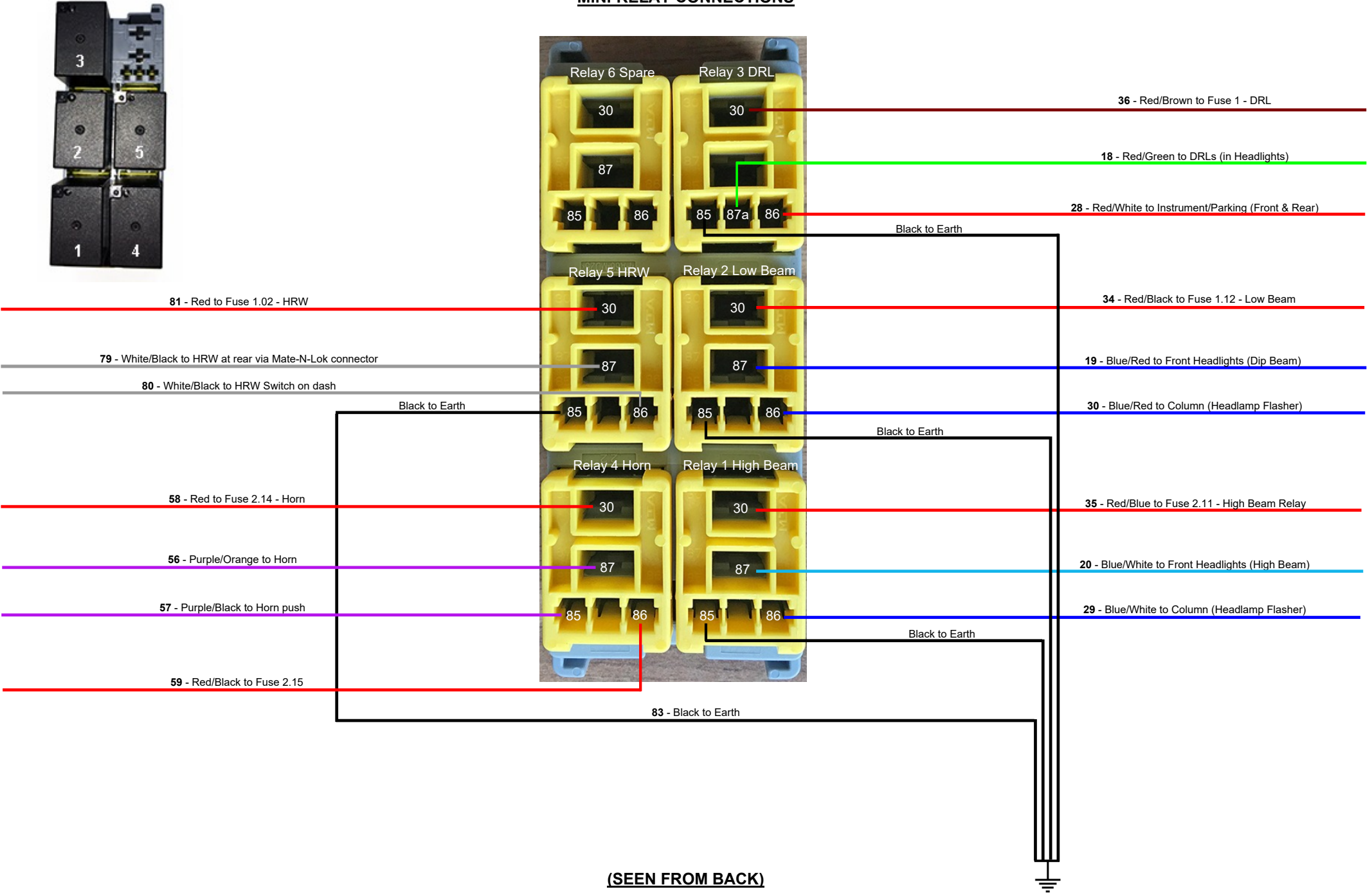
KEY

-  Bullet twin female connector
-  Bullet single female connector
-  Bullet male
-  Spade female

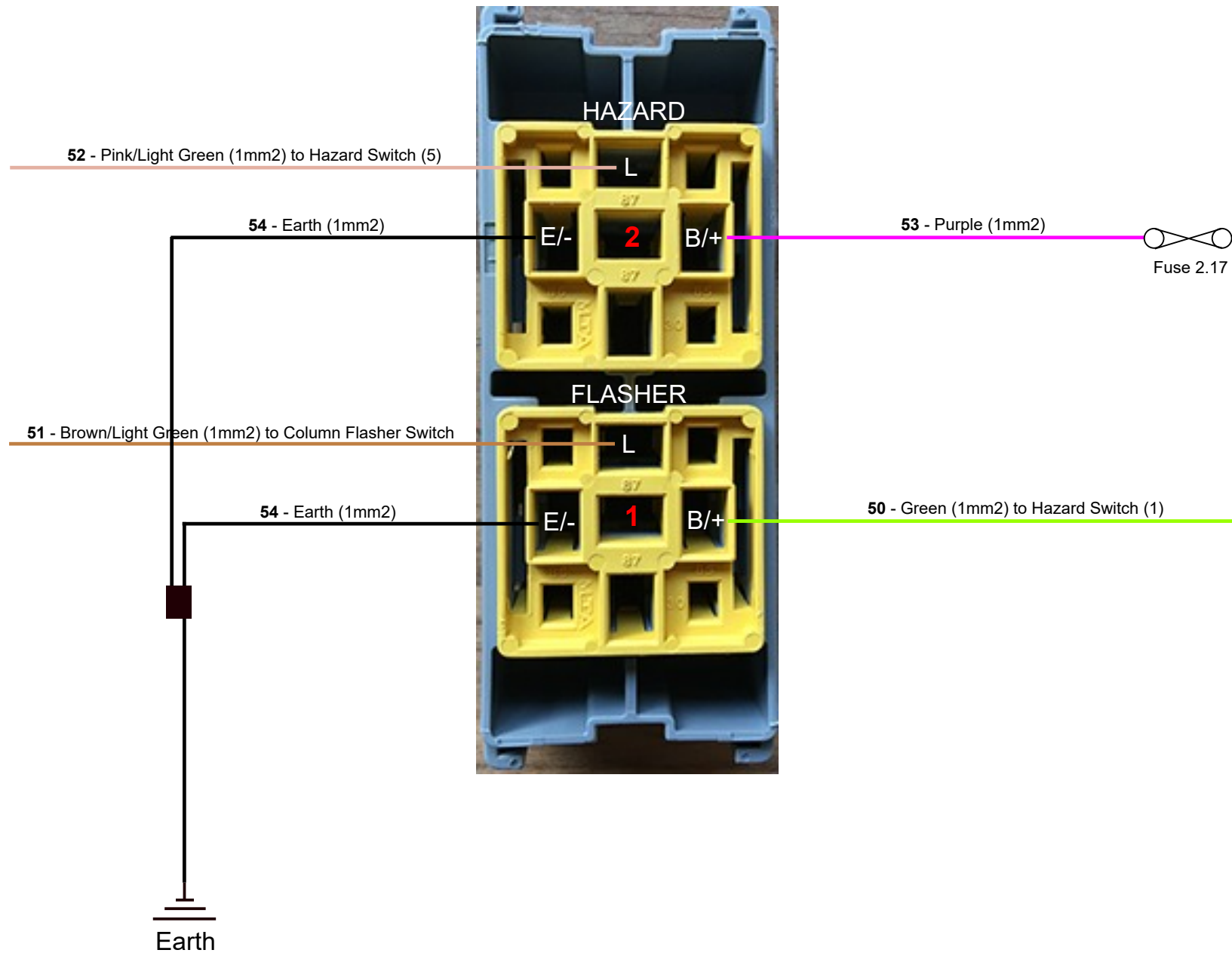
Mini Wiring Loom (to H



MINI-RELAY CONNECTIONS



FLASHER RELAY CONNECTIONS (FROM BACK)



Fuses (front)

Fuse Module 1					
Bank 1			Bank 2		
Switched - Live with Ignition on			Switched - Live with Ignition on		
DRL Relay	1.01	10	1.20		
Heated Rear Window	1.02	25	1.19		
HRW Relay	1.03	20	1.18	Reversing Light	
Hazard Switch	1.04	15	1.17	Oil Pressure Warning Light	
Heater Motor	1.05	20	1.16	Overdrive	
Fuel Gauge	1.06	10	1.15	Not used	
Brake Light	1.07	10	1.14	Windscreen Washer & Wiper	
	1.08		1.13	Radio & USB Socket	
	1.09		1.12	Low Beam Relay	
	1.10		1.11	Not used	

Fuse Module 2					
Bank 3			Bank 4		
Not Used			Permanently Live		
	2.01		2.20		
	2.02		2.19		
	2.03		2.18		
	2.04		15	2.17	Hazard Relay
	2.05		10	2.16	Roof Light
	2.06		10	2.15	Horn Relay
	2.07		25	2.14	Horn
	2.08		20	2.13	Master Light Switch
	2.09		15	2.12	Headlamp Flasher
	2.10		10	2.11	High Beam Relay

Was Master Light Switch. Moved to 2.13

Fuses (rear)

Fuse Module 1					
Bank 1			Bank 2		
Switched - Live with Ignition on			Switched - Live with Ignition on		
	1.10		1.11	Not used	
	1.09		1.12	Low Beam Relay	
	1.08		1.13	Radio & USB Socket	
Brake Light	1.07		1.14	Windscreen Washer & Wiper	
Fuel Gauge	1.06		1.15	Reversing Light	
Heater Motor	1.05		1.16	Overdrive	
Hazard Switch	1.04		1.17	Oil Pressure Warning Light	
HRW Relay	1.03		1.18		
Heated Rear Window	1.02		1.19		
DRL Relay	1.01		1.20		

Fuse Module 2					
Bank 3			Bank 4		
Not Used			Permanently Live		
	2.10		2.11	High Beam Relay	
	2.09		2.12	Headlamp Flasher	
	2.08		2.13	Master Light Switch	
	2.07		2.14	Horn	
	2.06		2.15	Horn Relay	
	2.05		2.16	Roof Light	
	2.04		2.17	Hazard Relay	
	2.03		2.18		
	2.02		2.19		
	2.01		2.20		

Was Master Light Switch. Moved to 2.13