



Fitting Instructions

TOWBARS R48
For MG-GS R48Q
R48QF
R48S

MATERIALS

A	1	Cross Bar
B	2	Bracket
C	1	Brace
D	4	M10 x 40 x 1.5 bolts, lock washers, Dia.30 flat washers, Cage Nut Retainer and Square Cage Nut.
E	2	M8 Spigot Nut, M10 lock washers, and M10, Dia.30 flat washers.
F	4	M8 x 35 x 1.25 bolts, lock washers, and Dia.30 flat washers.
G	1	M12 x 40 x 1.75 bolts, lock washers, Nuts, and Plain Washers (for use as spacers)
ZE	1	Retractable electrical plate kit.
ZN	1	Neck Kit.
SCP	1	Safety Chain Plate Kit – includes M12 x 35 bolts (H)
X	2	Existing M8 Bolts from Towing Loop Bracket

FITTING

1. Remove Bumper.
2. Remove Inner Bumper Beam.
3. Remove Towing Loop Bracket from Right Hand Side chassis rail.
4. Remove rear boot trim and loosen each boot side panel to gain access to holes for fastener (D) through the boot floor.
5. Pre-Assemble the M10 Cage Nuts (fasteners D) to each Bracket (B), using Cage Nut fitting instructions.
6. Insert each Bracket (B) into each chassis rail via the opening in the vehicles rear panel.
7. Loosely secure to the boot floor using fastener (D)
8. Loosely assemble Brace (C) to the side of the right hand chassis rail using the existing Towing Loop Bracket holes and fasteners (X).
9. Assemble Cross Bar (A) to the vehicle rear panel using fasteners (E & F)., locating over the existing Inner Bumper Beam studs.
10. Secure each Bracket (B) to Cross Bar (A) using remaining fasteners (D) through slotted holes in Cross Bar (A).
11. Secure Brace (C) to Cross Bar (A) using fasteners (G) and Spacer Washers as required between Cross Bar and Brace.
12. Assemble the chosen Neck Kit (ZN) and Retractable Electrical Plate (ZE) and Safety Chain Plate (SCP) to Cross Bar (A) using fasteners and instructions from each kit. **(Note the use of M12 x 35 long bolts (H) on Safety Chain Plate side of neck)**
13. **Fully Tighten All Fasteners starting with (E) and (F)**

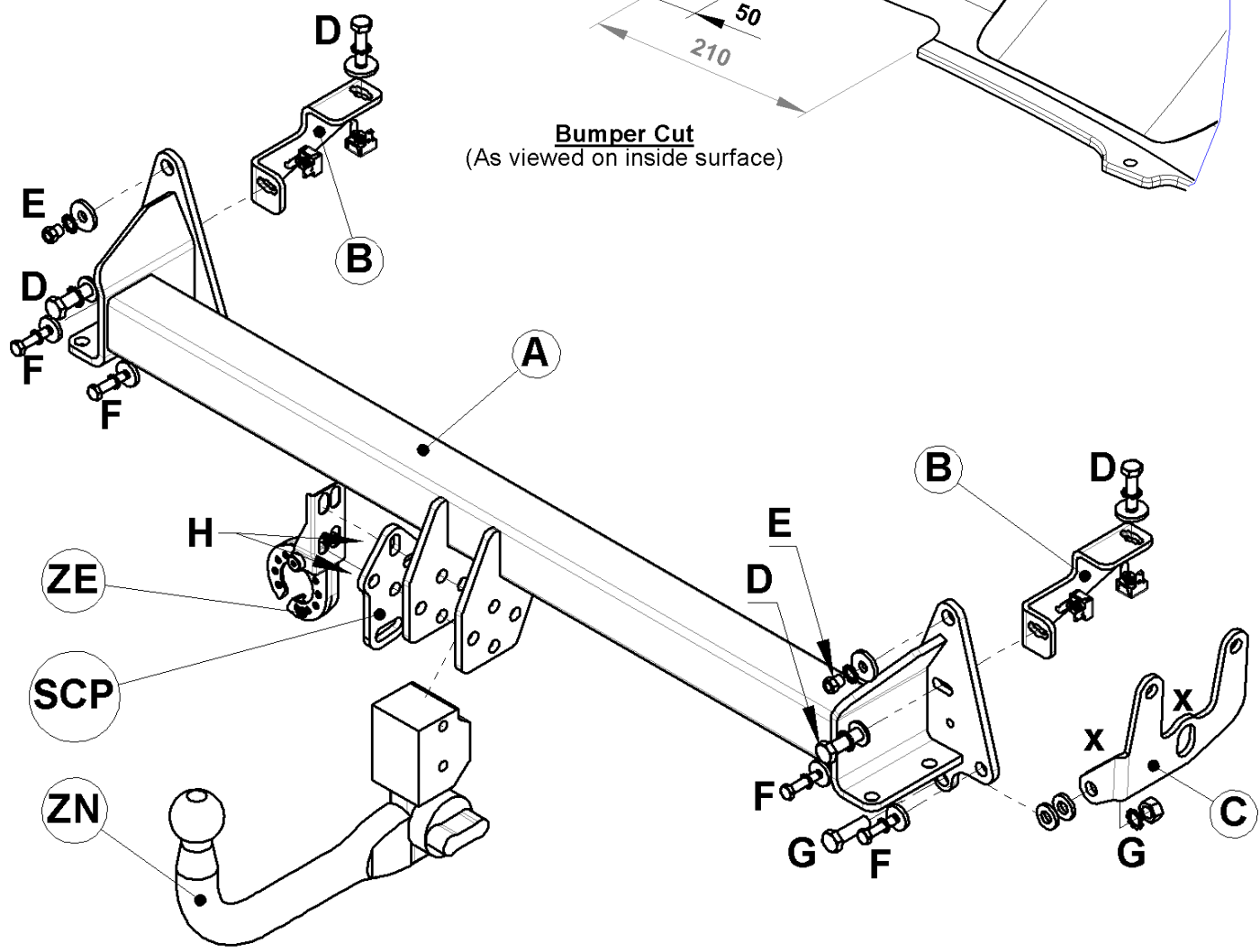
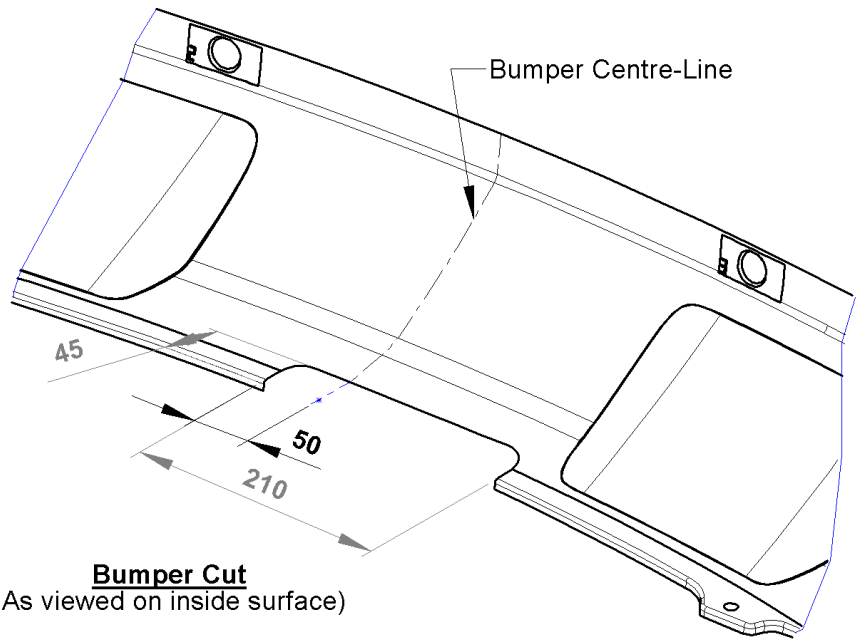
Recommended torque settings:

Grade 8.8 bolts: M8 - 24Nm, M10 - 52 Nm, M12 - 80 Nm, M14 - 130 Nm, M16 - 200 Nm

Grade 10.9: M12 – 120Nm, M10 – 70Nm, M8- 35Nm



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Notice de Montage

Attelage pour **R48**
MG-GS **R48Q**
R48QF
R48S

Désignation

A	1	Traverse principale
B	2	Bras latéraux
C	1	Taquet
D	4	Boulons M10 x 40 x 1.5, rondelles freins, rondelles Ø30, écrous prisonnier Witter.
E	2	Écrous a collerette M8, rondelles freins M10 et rondelles plates M10 Ø30.
G	1	Boulons M12 x 40 x 1.75, rondelles freins, écrous et rondelles plate (utilisées comme entretoises)
ZE	1	Plaque de support de prise escamotable.
ZN	1	Rotules choisie.
SCP	1	Platine pour chaîne de sécurité – M12 x 35 pour les rotules RDSO (H)
X	2	Boulons d'origine M8 de l'anneau de remorquage

Installation

1. Démontez le pare-chocs.
2. Démontez la traverse de pare-chocs.
3. Enlever l'anneau de remorquage du côté droit.
4. Enlever le tapis de sol du coffre et bouger les garnitures latérales de façon à pouvoir accéder au point de fixation (D)
5. Positionner les écrous prisonniers (D) sur chaque bras latéral (B), à l'aide de la notice fournie séparément.
6. Insérer les bras latéraux (B) dans chaque longeron.
7. Attacher les sans serrer à l'aide de la visserie (D)
8. Sans serrer, attacher le taquet (C) du côté droit à l'aide des points de fixations de l'anneau de remorquage d'origine et de sa visserie (X).
9. Attacher la traverse principale (A) au véhicule à l'aide de la visserie (E & F).
10. Sans serrer, attacher les bras latéraux (B) à la traverse principale (A) à l'aide de la visserie (D).
11. Sans serrer, attacher les taquets (C) à la traverse principale (A) à l'aide de la visserie (G) et si nécessaire en utilisant les rondelles comme entretoises entre la traverse principale et les taquets.
12. Positionner la rotule choisie, la plaque de chaîne de sécurité et la plaque de support de prise à la traverse (A) comme indiqué dans les notices fournies séparément. **(Remarque: Utiliser la visserie longue M12 x 35 pour les rotules RDSO et la platine de chaîne de sécurité)**
13. **Serrer toutes la visserie au couple de serrage recommandé en commençant par (E) et (F)**

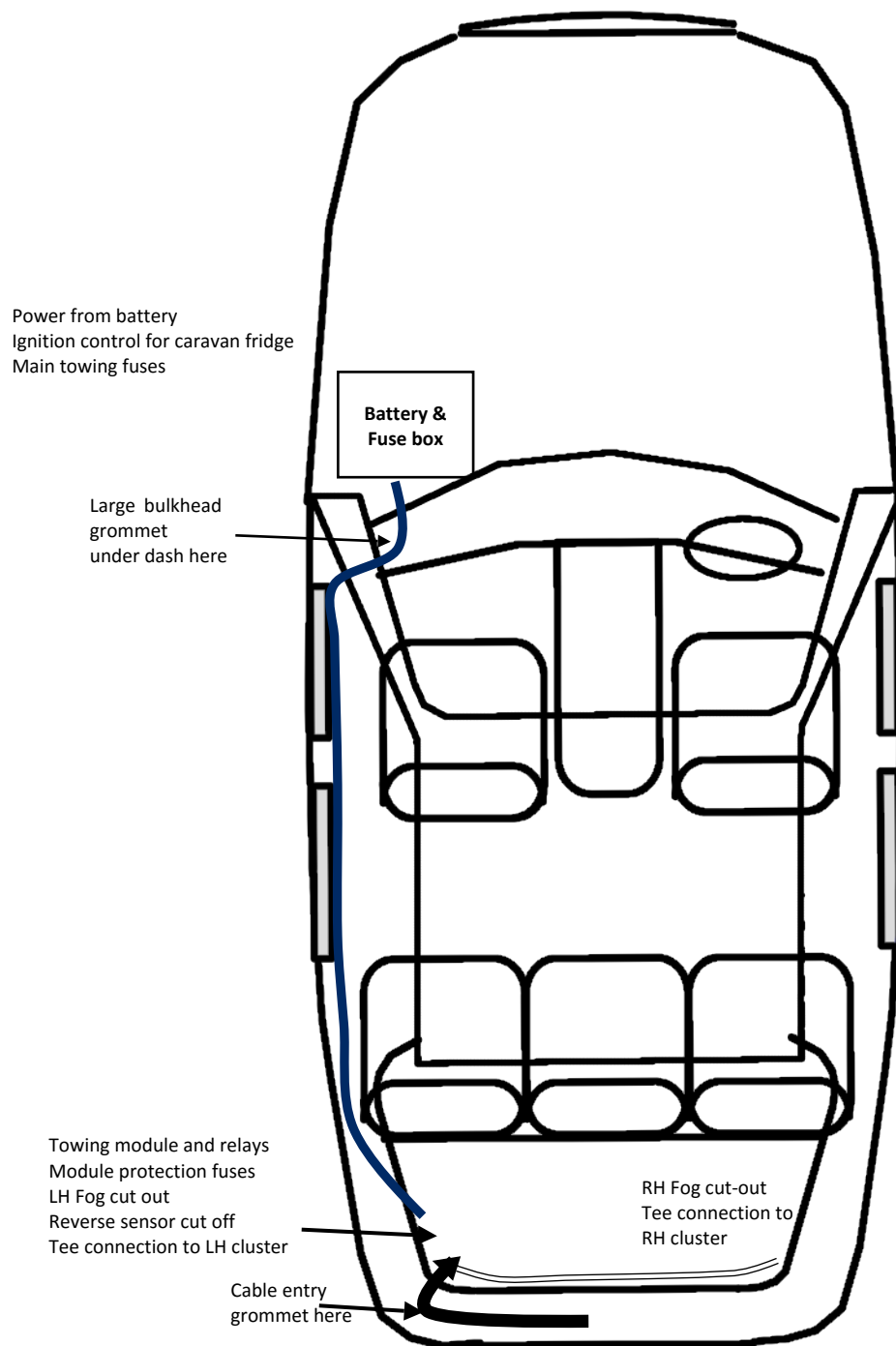
Couple de serrage:

Boulons de Classe 8.8: M8 - 24Nm, M10 - 52 Nm, M12 - 80 Nm, M14 - 130 Nm, M16 - 200 Nm

Classe 10.9: M12 – 120Nm, M10 – 70Nm, M8- 35Nm



GS



**MG GS 2016
Towing Electrical Kit**

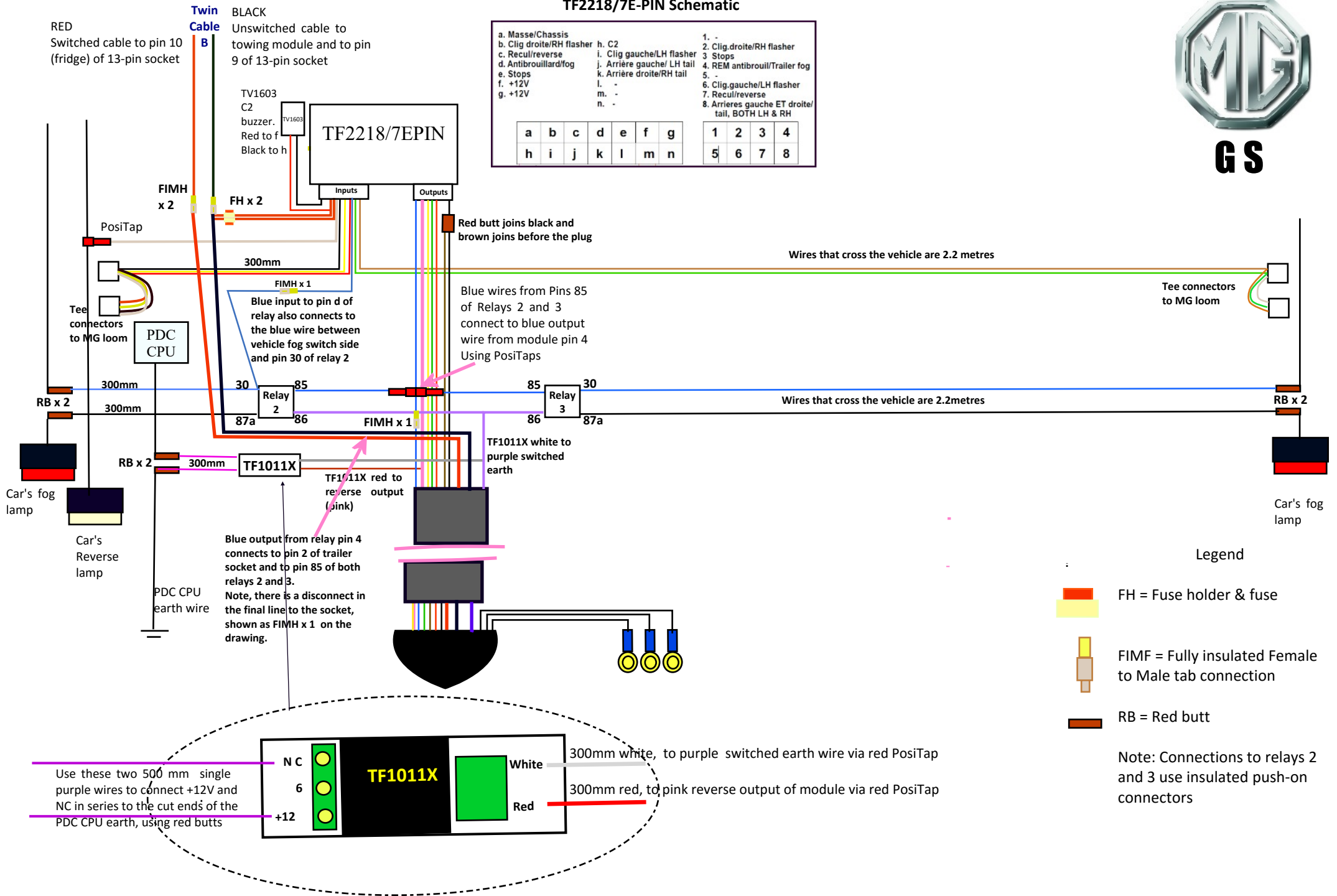


TF2218/7E-PIN Schematic

a. Masse/Chassis	h. C2	1. -
b. Clig droite/RH flasher	i. Clig gauche/LH flasher	2. Clig.droite/RH flasher
c. Recul/reverse	j. Arrière gauche/ LH tail	3. Stops
d. Antibrouillard/fog	k. Arrière droite/RH tail	4. REM antibrouil/Trailer fog
e. Stops	l. -	5. -
f. +12V	m. -	6. Clig.gauche/LH flasher
g. +12V	n. -	7. Recul/reverse
		8. Arrières gauche ET droite/ tail, BOTH LH & RH

a	b	c	d	e	f	g
h	i	j	k	l	m	n

1	2	3	4
5	6	7	8

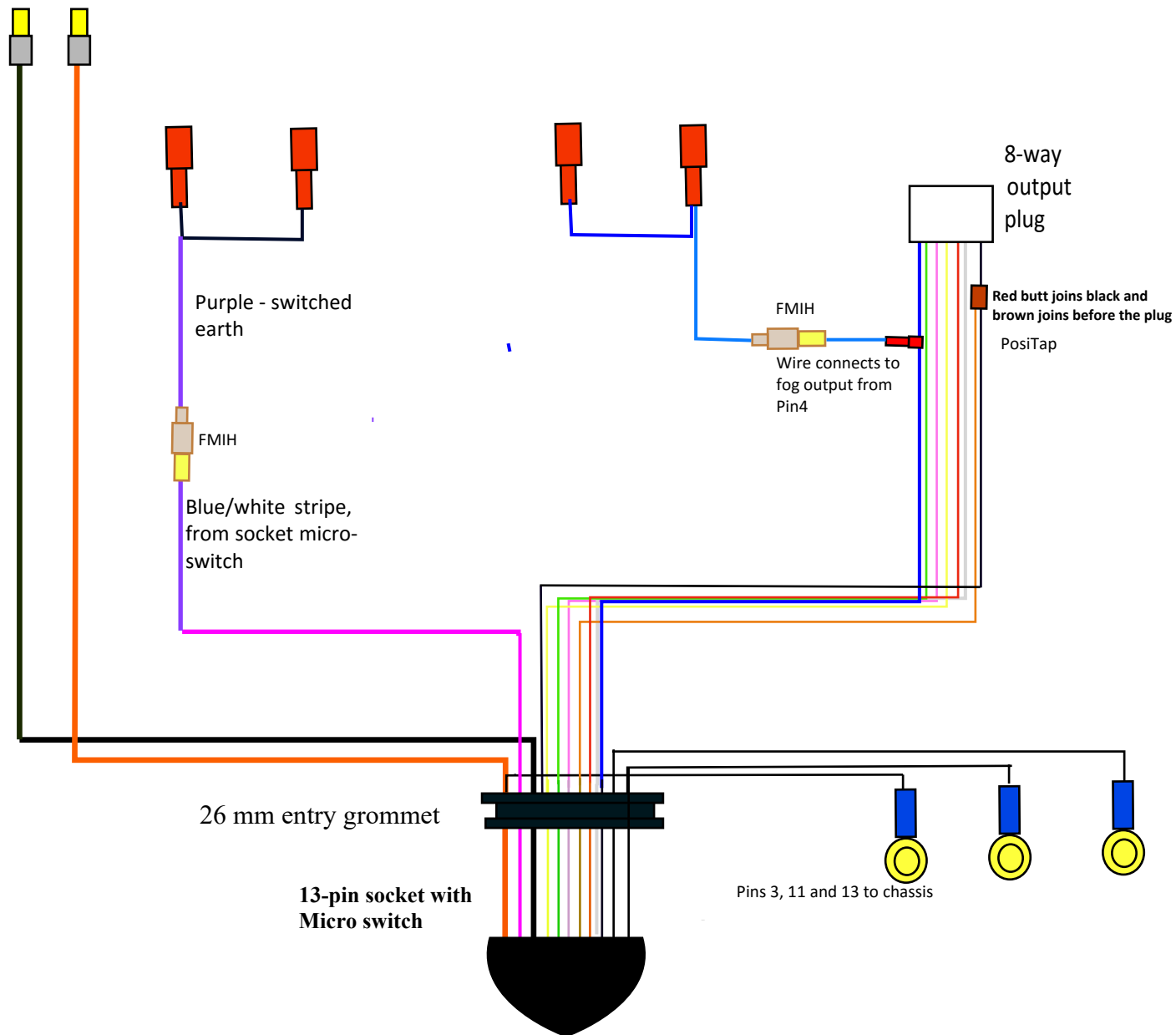


Legend

- FH = Fuse holder & fuse
- FIMF = Fully insulated Female to Male tab connection
- RB = Red butt

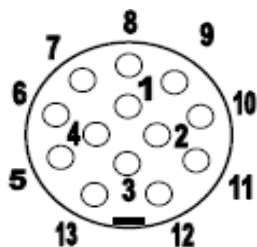
Note: Connections to relays 2 and 3 use insulated push-on connectors

MG6 Kit 2016 13-pin socket assembly





13-pin wiring



* the colours from 8 to 13 are not standard across all suppliers

Pin	Cable colour*	Function	8-pin relay plug - pin:	
1	Yellow	LH flasher	6	
2	Blue	Fog light	4	
3	White	Earth (For 12N)	0	
4	Green	RH flasher	2	
5	Brown	RH tail light	8	
6	Red	Brake lights	3	
7	Black	LH tail light	8	
8	<i>Pink</i>	Reversing light	7	Splice in red from TF1011X
9	<i>Orange</i>	Constant live	Unswitched 12V	Yellow butts
10	<i>Grey</i>	Ignition-controlled power supply	Switched 12V	
11	<i>White/black</i>	Earth (for pin 10)	-	Ring
-	<i>Blue/white</i>	<i>Micro switch to Purple switched earth (Relays, pins 86)</i>	-	-
13	<i>White/red</i>	Earth (for pin 9)	-	Ring



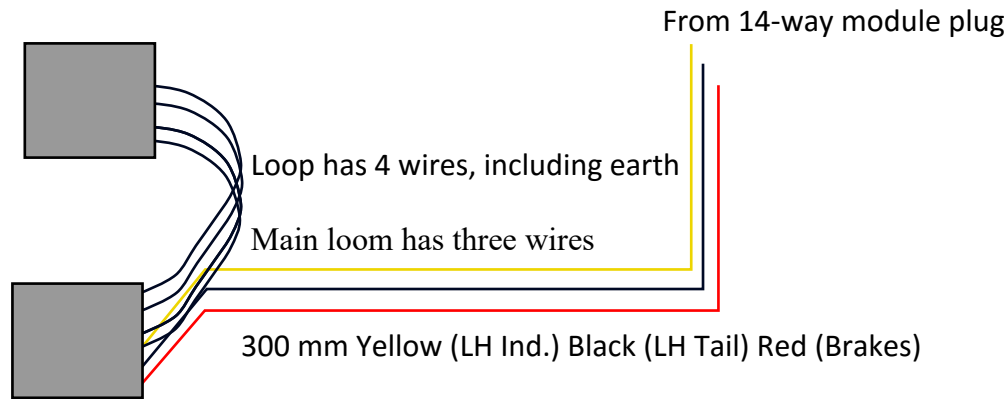
GS

14-way relay plug				
Pin	Cable colour*	Function	in MG6 kit	
a	White	Chassis		
b	Green	RH Flasher		
c	Grey	Reverse		
d	Blue	Fog		
e	Red	Brakes		
f	Orange	Power in, fused	To unswitched power line	Also to positive (red) of mini buzzer TV1603
g	Orange	Power in, fused	To unswitched power line	
h	C2	To Neg of mini buzzer TV1603		
i	Red	LH Flasher		
j	Black	LH Tail		
k	Brown	RH Tail		

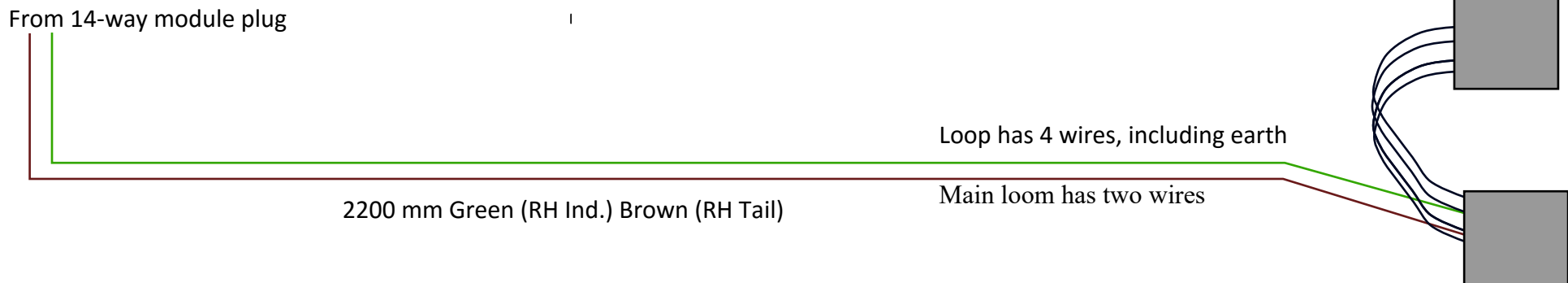
MG6 Kit 2016 Tee assembly to lamp clusters



Tee connection to LH cluster



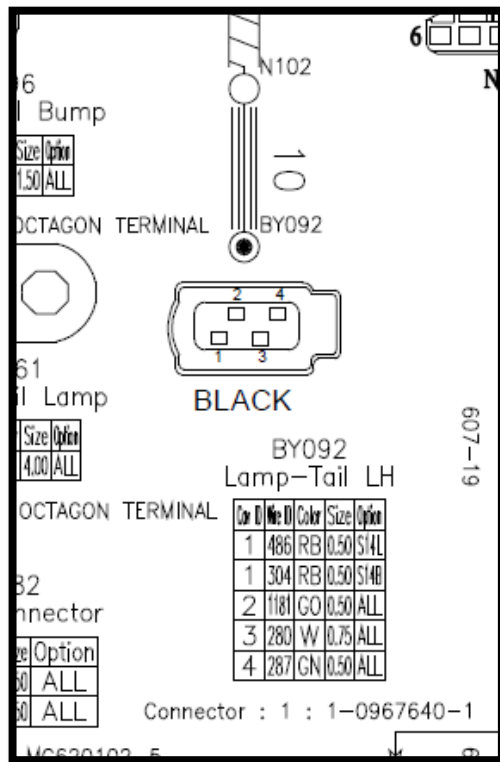
Tee connection to RH cluster





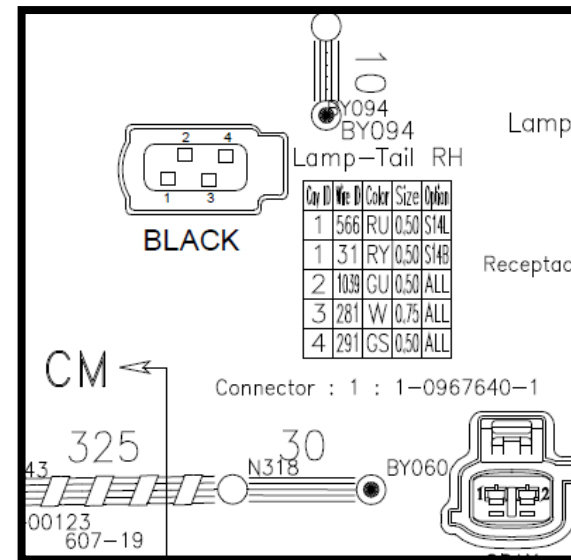
Harness connectors to the lamps

LH Tail Lamp Connector



- Cavity 1 = Side Lamps (Black)
- Cavity 2 = Brakes (Red)
- Cavity 3 = Earth (White)
- Cavity 4 = Indicators (Yellow)

RH Tail Lamp Connector



- Cavity 1 = Side Lamps (Brown)
- Cavity 2 = Brakes (Not used)
- Cavity 3 = Earth (White)
- Cavity 4 = Indicators (Green)



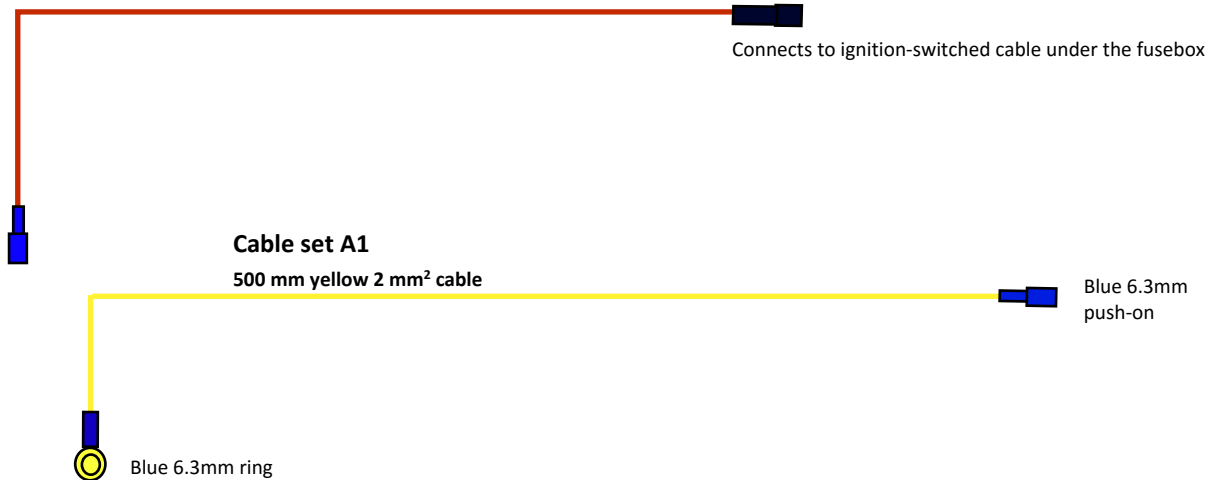
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Cable set A

300mm red 2 mm² cable

Black PosiTap

Connects to ignition-switched cable under the fusebox



Cable set A1

500 mm yellow 2 mm² cable

Blue 6.3mm push-on

Blue 6.3mm ring

Cable set B1

700 mm

220mm

Waterproof fuse holder
25 AMP FUSE

220mm

Blue 6.3mm ring

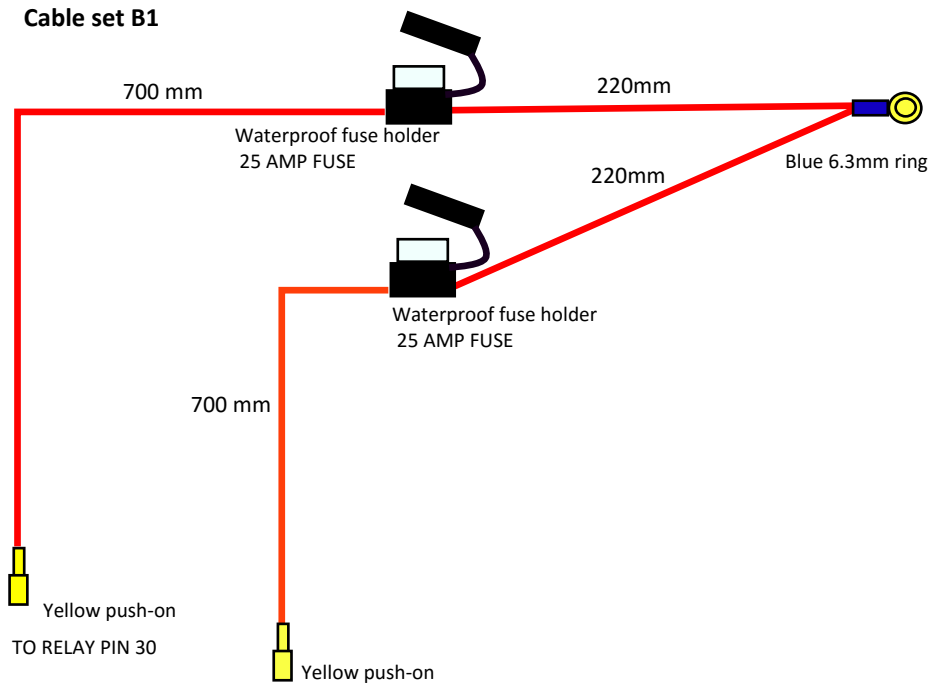
Waterproof fuse holder
25 AMP FUSE

700 mm

Yellow push-on

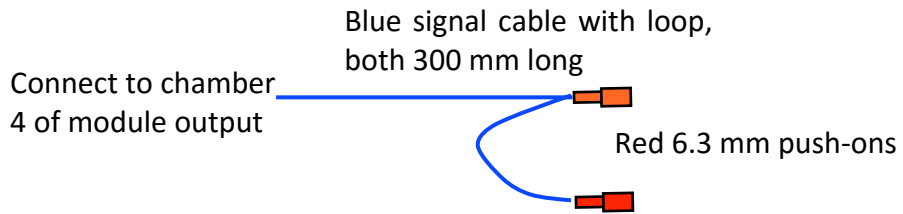
TO RELAY PIN 30

Yellow push-on

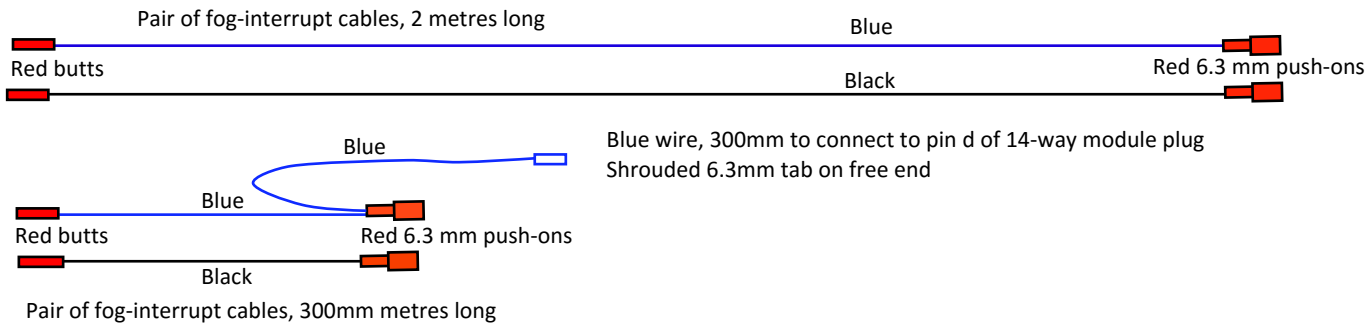


MG6 kit 2016 Looms (1)

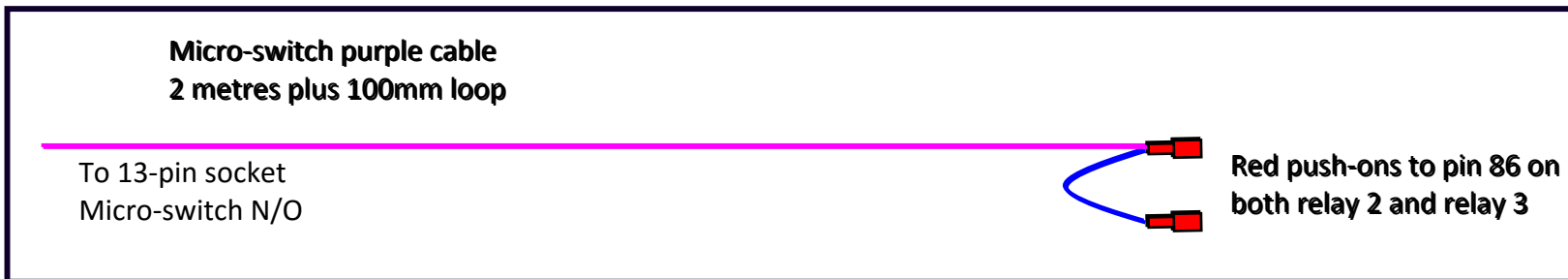
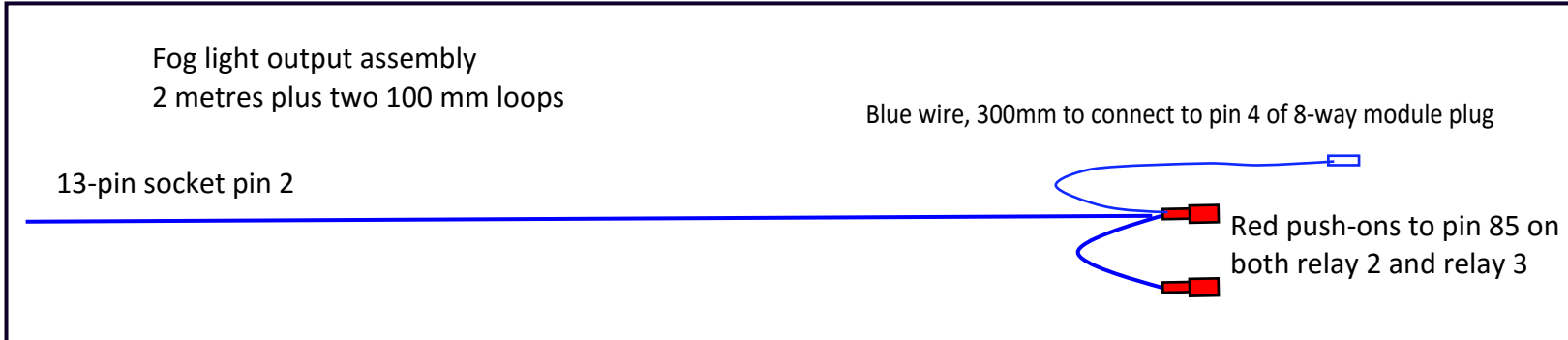
Connect blue output (fog light) to pin 85 of both changeover relays



Cut cables to car's fog lamps and connect cables from pins 30 and 87a of each relay in series. Use red butts.



MG6 kit 2016: Looms (2)



Connectors required:

- Posi-Taps, Black 1
- Posi-Taps, Red 2
- Red 6.3 fully-insulated 6.3 push-on receptacles 15
- 6.3mm shrouded crimped male push-on tabs 5
- Blue 6.3 fully-insulated 6.3 push-on receptacles 5
- Yellow 6.3 fully-insulated push-on receptacles 1
- Blue 6.3mm ring terminals 4
- Red 6.3mm ring terminals 4
- Yellow 6.3mm ring terminals 1
- ATO fuses 25 amp 2
- Mini fuses 25 amp 2
- MG-specific T connectors + crimps pairs 2

Cable loom

- Twin 2.5mm² 6 m
- Single 0.5mm² 8 x 2.2m
- Single 2.5mm² What's this for? 5 x 2.2m

Relays/module

- TF2218/7EPIN 1
- TF2550 5-pin relay 3

MG6 kit 2016

Fitting notes

Ignition-switched feed to relay 1

Unclip the fuse box at A4 to access multi-plugs on the underside.

Use a black PosiTap connector to join Cable A to Red/Slate cable to Chamber 14, as shown in picture on page 3

Bulkhead Grommet

There is a large grommet with cells under the dash at B7 (LH front bulkhead)

Use a long probe to pierce it and pass Twin Cable B through into to engine compartment. The long probe will enable you to see and grab the probe between the battery and the bulkhead.

Unswitched feed to Towing Module

This feed is taken from the unswitched black core of Twin Cable B,

Cutting out the reversing sensor

This is done by cutting the earth wire of the little CPU that controls the reversing sensors. TF1011X is a cut-out relay connected to the reverse fed to the trailer and to a micro-switch in the 13-pin socket. It works when a trailer is connected.

Finding the wire to the reverse light

The reverse light is in the boot lid and all the cables in the lighting loom are white.

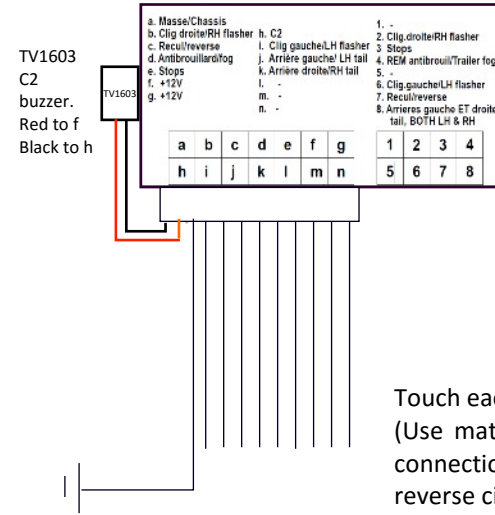
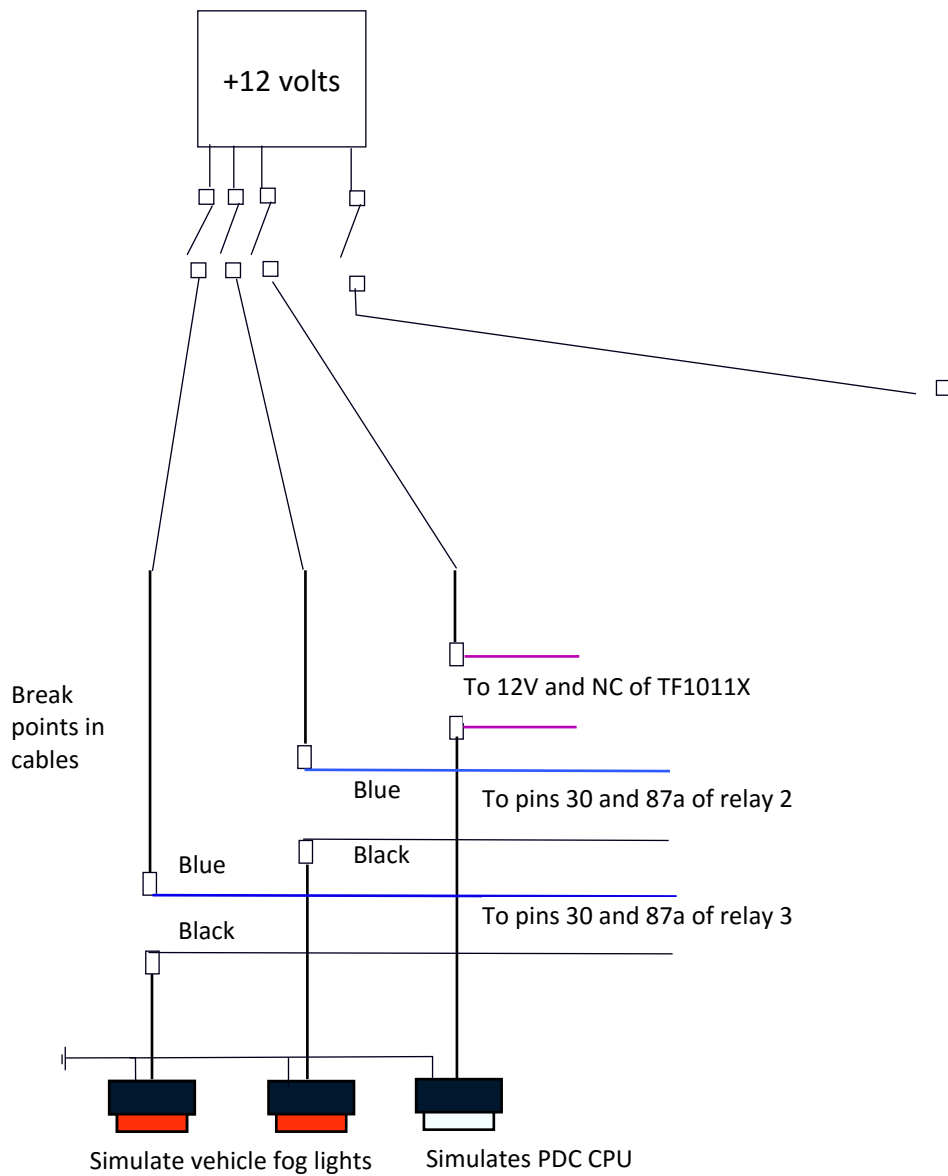
Find the white cables just behind the LH cluster and probe for the reverse using an LED tester.

The reverse wire is not cut. Only the PDC is deactivated for towing.

Other Notes:



Test rig



Touch each signal wire to +12V
(Use mating Tee plugs to make connections to Indicator, tail and reverse circuits)

