



10 - Electrical equipment

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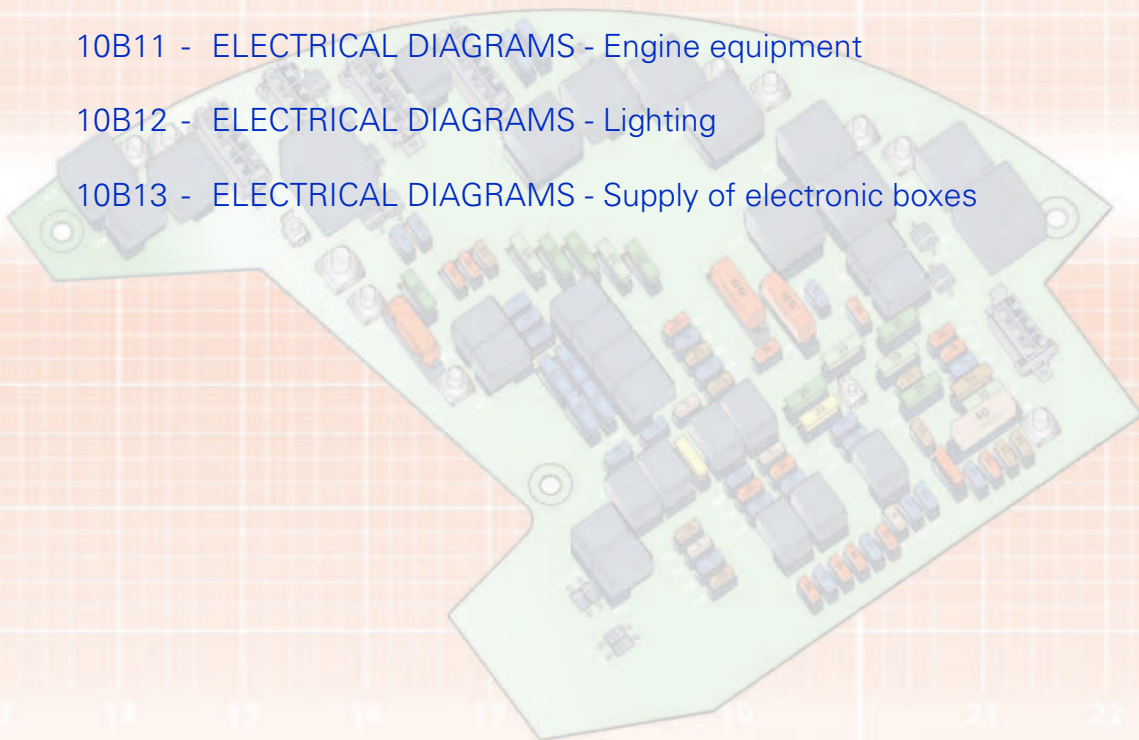
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Electrical equipment



6400



10A10- Fuse boxes

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A . General

The fuse box elements are named depending on their function:

F Fuse

SH Shunt (shunts are fuses)

R Relay

The fuses used are of different powers and sizes:

Amperage	Size	Colour
3	normal	
5	min.	
7,5	min.	
10	min.	
10	normal	
15	min.	
15	normal	
20	normal	
25	normal	
30	normal	
40	max.	
50	max.	

Fuse boxes

B . Version for Europe

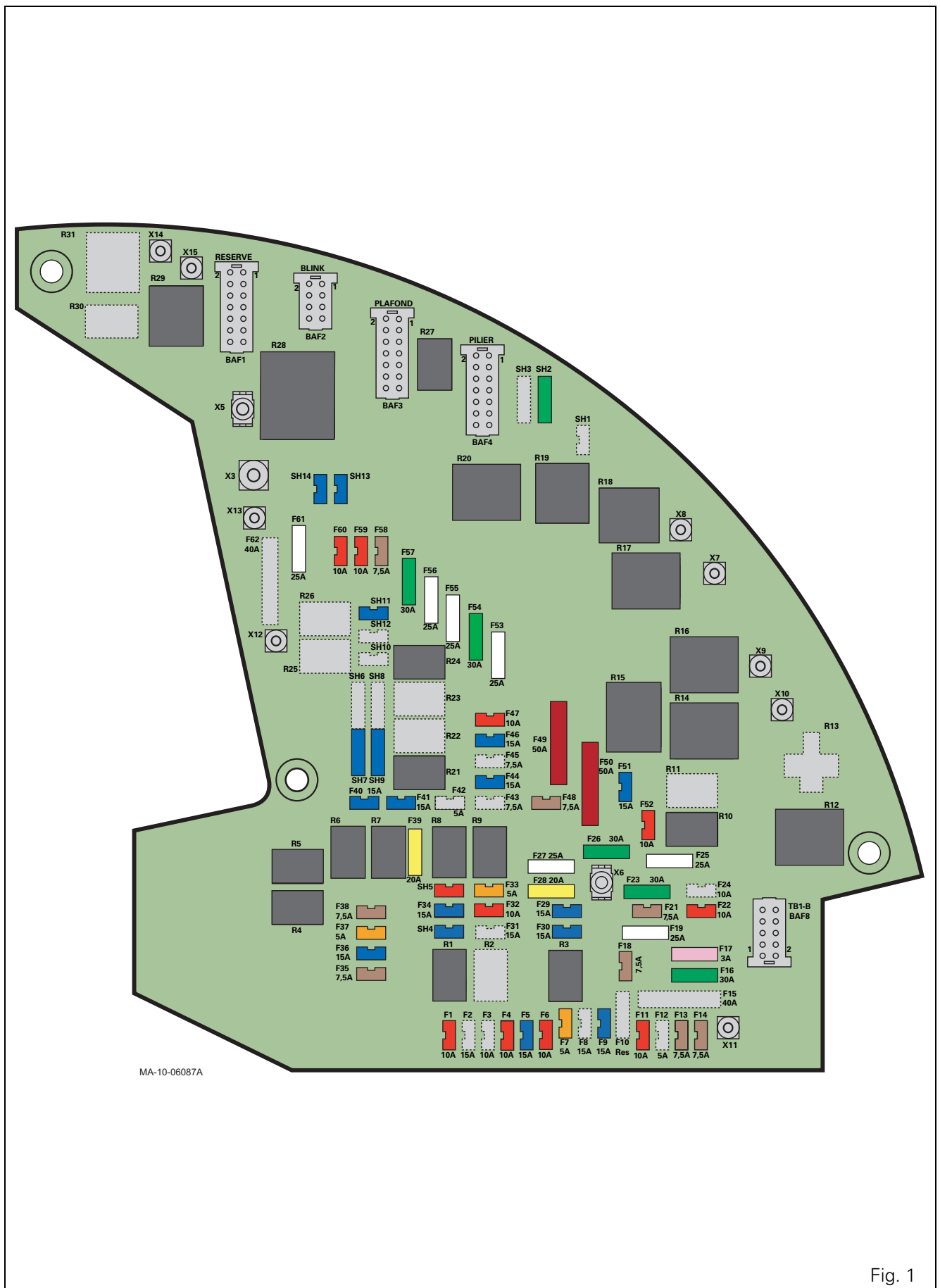
Dynashift and Dyna-6 with Perkins Engine (Fig. 1)

Ref.	Amp.	Size	Protected function
F1	10	min.	Front right- and rear left-hand side lights, back-lighting of switches / console / cigarette lighter
F4	10	min.	Auto III (Dynashift), Auto V (Dyna-6), instrument panel, gearbox / differential / 4WD / PTO / creeper unit neutral switch
F5	15	min.	Stop lights
F6	10	min.	Controls on armrest (Dyna-6)
F7	5	min.	Electronic injection control unit (ECU) control relay, reversing light relay
F9	15	min.	Suspended front axle and front PTO
F11	10	min.	Air conditioning compressor (manual air conditioning)
F13	7,5	min.	Work headlights module
F14	7,5	min.	Electrical rear view mirrors
F16	30	normal	Injection pump stop solenoid valve, braking pressure sensor, alternator, booster pump
F17	3	normal	Brake switch
F18	7,5	min.	Linkage, diagnostics, braking circuit pressure sensor
F19	25	normal	Pneumatic seat, fuel heater
F21	7,5	min.	Linkage, Datatronic 3
F22	10	min.	TOC/BOC pedal switch, buzzer, start switch, reverse shuttle lever, throttle pedal position sensor, armrest, parameter display selector switch
F23	30	normal	Cigarette lighter, radio, roof light, 12 V socket
F25	25	normal	Hazard warning light switch, permanent 12 V
F26	30	normal	Power socket
F27	25	normal	Electronic injection control unit (ECU)
F28	20	normal	Electronic injection control unit (ECU)
F29	15	min.	Auto III and Auto V calculators (Dyna-6)
F30	15	min.	Electronic injection control unit (ECU)
F32	10	min.	Electronic injection control unit (ECU)
F33	5	min.	Electronic injection control unit (ECU) - Thermostart
F34	15	min.	Dipped lights
F35	7,5	min.	Horn
F36	15	min.	Headlights
F37	5	min.	Clutch safety start switch
F38	7,5	min.	Front left- and rear right-hand side light, instrument panel back lighting
F39	20	normal	Handrail side / road lights switch, rear windscreen wiper
F40	15	min.	Left-hand direction indicator
F41	15	min.	Joystick
F44	15	min.	Right-hand direction indicator
F46	15	min.	Rear windscreen wiper, heating
F47	10	min.	Radio
F48	7,5	min.	Suspended front axle
F49	50	max.	Cab suspension
F50	50	max.	Air conditioning, radio
F51	15	min.	Instrument panel
F52	10	min.	Power socket
F53	25	normal	Control unit
F54	30	normal	Front work headlights
F55	25	normal	Rear work headlights
F56	25	normal	Work headlights on rear fenders and/or handrails
F57	30	normal	Work headlights on footsteps and/or handrails
F58	7,5	min.	Work headlights module

F59	10	min.	Flashing beacon
F60	10	min.	+ ignition on relay control
F61	25	normal	Hazard warning lights
SH2	30	normal	Work headlights on fenders and/or handrails
SH4	15	min.	Road lights (B)
SH5	10	min.	Dipped lights (B)
SH7	15	normal	Direction indicator
SH9	15	normal	Direction indicator
SH11	15	min.	Direction indicator
SH13	15	min.	Direction indicator
SH14	15	min.	Direction indicator
R1			Handrail road lights (A)
R3			Electronic injection control unit (ECU)
R4			Reversing light
R5			Stop lights
R6			1 st additional ON/OFF spool valve
R7			2 nd additional ON/OFF spool valve
R8			Handrail dipped lights (A)
R9			Electronic injection control unit (ECU)
R10			Power socket
R12			Wiper timer
R14			Air conditioning
R15			+ ignition on
R16			Cab suspension
R17			Front work headlights
R18			Rear work headlights
R19			Rear fender work headlights
R20			Footstep work headlights
R21			Left-hand direction indicator
R24			Right-hand direction indicator
R27			Flashing beacon
R28			Hazard warning light
R29			Air conditioning compressor (manual air conditioning)

(A): Tractors with Germany specifications only.

(B) : All models except tractors with Germany specifications.



Fuse boxes

Dynashift with Sisu engine (Fig. 2)

Ref.	Amp.	Size	Protected function
F1	10	min.	Front right- and rear left-hand side lights, back-lighting of switches / console / cigarette lighter
F4	10	min.	Auto III or Auto V, instrument panel, gearbox / differential / 4WD / PTO / creeper unit neutral switch
F5	15	min.	Stop lights
F6	10	min.	Controls on armrest (with Auto V)
F7	5	min.	Electronic injection control unit (ECU) control relay, reversing light relay
F9	15	min.	Suspended front axle and front PTO
F11	10	min.	Air conditioning compressor
F13	7,5	min.	Work headlights module
F14	7,5	min.	Electrical rear view mirrors
F16	30	normal	Injection pump stop solenoid valve, braking pressure sensor, alternator, booster pump
F17	3	normal	Brake switch
F18	7,5	min.	Linkage, diagnostics, braking circuit pressure sensor
F19	25	normal	Pneumatic seat, fuel heater
F21	7,5	min.	Linkage, Datatronic 3
F22	10	min.	TOC/BOC pedal switch, buzzer, start switch, reverse shuttle lever, throttle pedal position sensor, armrest, parameter display selector switch
F23	30	normal	Cigarette lighter, radio, roof light, 12 V socket
F25	25	normal	Hazard warning light switch, permanent 12 V
F26	30	normal	Power socket
F28	20	normal	Electronic injection control unit (ECU)
F29	15	min.	Auto III or Auto V calculator
F30	15	min.	Electronic injection control module (ECU), Grid Heater
F31	15	min.	Sisu ECM module
F32	10	min.	Electronic injection control unit (ECU)
F34	15	min.	Dipped lights
F35	7,5	min.	Horn
F36	15	min.	Headlights
F37	5	min.	Clutch safety start switch
F38	7,5	min.	Front left- and rear right-hand side light, instrument panel back lighting
F39	20	normal	Handrail side / road lights switch, rear windscreen wiper
F40	15	min.	Left-hand direction indicator
F41	15	min.	Joystick
F42	5	min.	Sisu ECU
F44	15	min.	Right-hand direction indicator
F46	15	min.	Rear windscreen wiper, heating
F47	10	min.	Radio
F48	7,5	min.	Suspended front axle
F49	50	max.	Cab suspension
F50	50	max.	Air conditioning, radio
F51	15	min.	Instrument panel
F52	10	min.	Power socket
F53	25	normal	Control unit
F54	30	normal	Front work headlights
F55	25	normal	Rear work headlights
F56	25	normal	Work headlights on rear fenders and/or handrails
F57	30	normal	Work headlights on footsteps and/or handrails
F58	7,5	min.	Work headlights module
F59	10	min.	Flashing beacon
F60	10	min.	+ ignition on relay control
F61	25	normal	Hazard warning lights
SH2	30	normal	Work headlights on fenders and/or handrails

SH4	15	min.	Road lights (B)
SH5	10	min.	Dipped lights (B)
SH7	15	normal	Direction indicator
SH9	15	normal	Direction indicator
SH11	15	min.	Direction indicator
SH13	15	min.	Direction indicator
SH14	15	min.	Direction indicator
R1			Handrail road lights (A)
R2			Electronic injection control unit (ECU)
R3			Electronic injection control unit (ECU)
R4			Reversing light
R5			Stop lights
R6			1 st additional ON/OFF spool valve
R7			2 nd additional ON/OFF spool valve
R8			Handrail dipped lights (A)
R10			Power socket
R12			Wiper timer
R14			Air conditioning
R15			+ ignition on
R16			Cab suspension
R17			Front work headlights
R18			Rear work headlights
R19			Rear fender work headlights
R20			Footstep work headlights
R21			Left-hand direction indicator
R24			Right-hand direction indicator
R27			Flashing beacon
R28			Hazard warning light
R29			Air conditioning compressor

(A): Tractors with Germany specifications only.

(B): All models except tractors with Germany specifications.

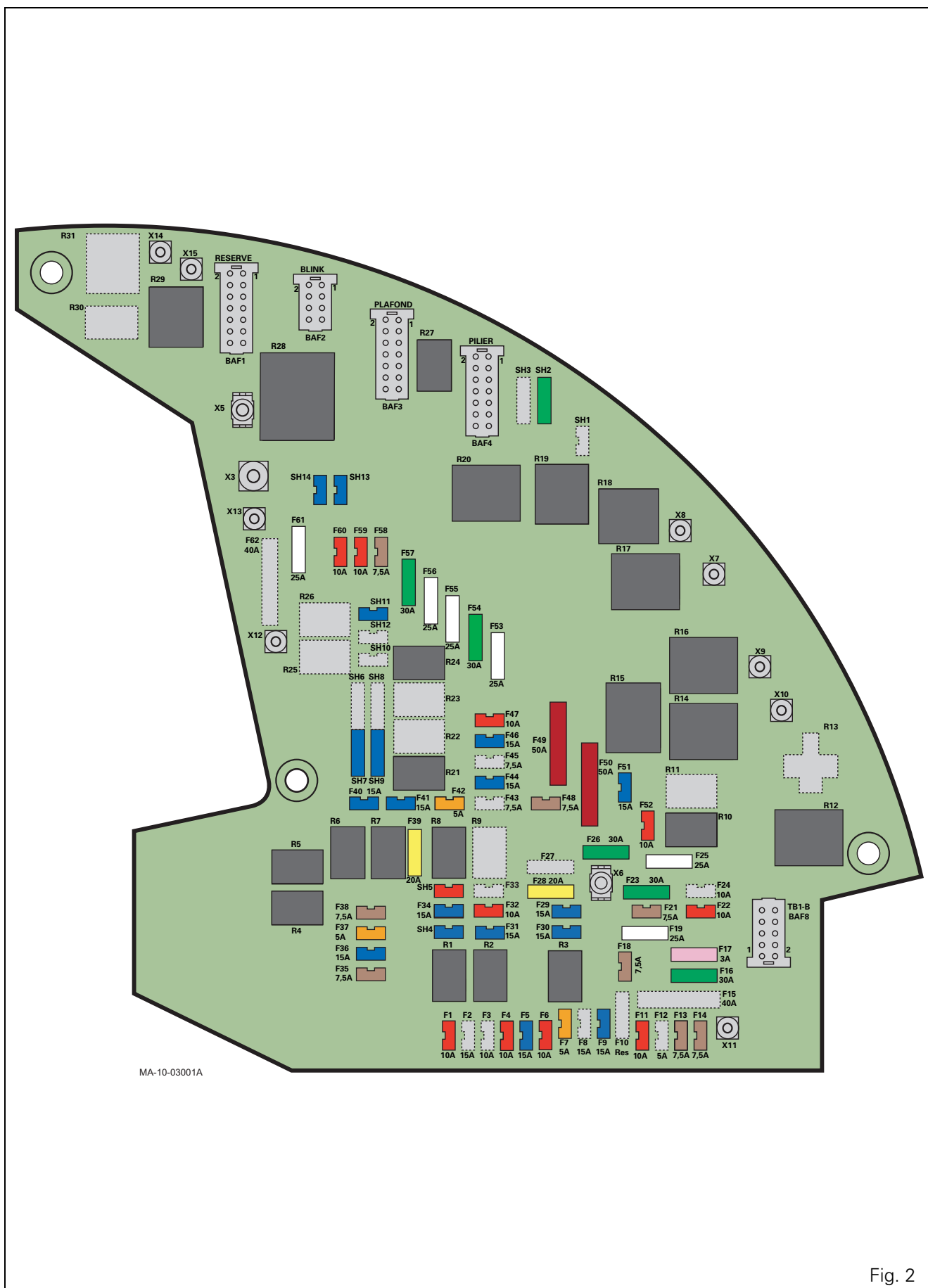


Fig. 2

Fuse boxes

C . Version for North America

Dynashift and Dyna-6 with Perkins Engine (Fig. 3)

Ref.	Amp.	Size	Protected function
F1	10	min.	Front right- and rear left-hand side lights, back-lighting of switches / console / cigarette lighter
F2	15	min.	Roof direction indicators
F3	10	min.	Left-hand fender extension direction indicator
F4	10	min.	Auto III (Dynashift), Auto V (Dyna-6), instrument panel, gearbox / differential / 4WD / PTO / creeper unit neutral switch
F5	15	min.	Stop lights
F6	10	min.	Controls on armrest (with Auto V)
F7	5	min.	Electronic injection control unit (ECU) control relay, reversing light relay
F9	15	min.	Suspended front axle and front PTO
F11	10	min.	Air conditioning compressor
F13	7,5	min.	Work headlights module
F14	7,5	min.	Electrical rear view mirrors
F16	30	normal	Injection pump stop solenoid valve, braking pressure sensor
F17	3	normal	Brake switch
F18	7,5	min.	Linkage, diagnostics, braking circuit pressure sensor
F19	25	normal	Pneumatic seat, fuel heater
F21	7,5	min.	Linkage, Datatronic 3
F22	10	min.	TOC/BOC pedal switch, buzzer, start switch, reverse shuttle lever, throttle pedal position sensor, armrest, parameter display selector switch
F23	30	normal	Cigarette lighter, radio, roof light
F24	10	min.	Right-hand fender extension direction indicator
F25	25	normal	Hazard warning light switch, permanent 12 V
F26	30	normal	Power socket
F27	25	normal	Electronic injection control unit (ECU)
F28	20	normal	Electronic injection control unit (ECU)
F29	15	min.	Auto III and Auto V calculators (Dyna-6)
F30	15	min.	Electronic injection control unit (ECU)
F32	10	min.	Electronic injection control unit (ECU)
F33	5	min.	Electronic injection control unit (ECU) - Thermostart
F34	15	min.	Dipped lights
F35	7,5	min.	Horn
F36	15	min.	Headlights
F37	5	min.	Clutch safety start switch
F38	7,5	min.	Front left- and rear right-hand side light, instrument panel back lighting
F39	20	normal	Side / road lights switch on handrails
F40	15	min.	Left-hand direction indicator
F41	15	min.	Joystick
F44	15	min.	Right-hand direction indicator
F46	15	min.	Rear windscreen wiper, heating
F47	10	min.	Radio
F48	7,5	min.	Suspended front axle
F49	50	max.	Cab suspension
F50	50	max.	Air conditioning
F51	15	min.	Instrument panel
F52	10	min.	Power socket
F53	25	normal	Front windscreen wiper
F54	30	normal	Front work headlights
F55	25	normal	Rear work headlights
F56	25	normal	Work headlights on rear fenders and/or handrails

F57	30	normal	Footstep work headlights
F58	7,5	min.	Work headlights module
F59	10	min.	Flashing beacon
F60	10	min.	+ ignition on relay control
F61	25	normal	Hazard warning lights
SH3	30	normal	Work headlights on footsteps and handrails
SH4	15	min.	Headlights
SH5	10	min.	Dipped lights
SH6	10	normal	Direction indicator
SH8	10	normal	Direction indicator
SH10	15	min.	Direction indicator
SH12	15	min.	Direction indicator
R1			Handrail road lights
R3			Electronic injection control unit (ECU)
R4			Reversing light
R5			Stop lights
R6			1 st additional ON/OFF spool valve
R7			2 nd additional ON/OFF spool valve
R9			Electronic injection control unit (ECU)
R10			Power socket
R12			Wiper timer
R14			Air conditioning
R15			+ ignition on
R16			Cab suspension (optional)
R17			Front work headlights
R18			Rear work headlights
R19			Rear fender work headlights
R20			Footstep work headlights
R21			Left-hand direction indicator
R22			Direction indicator and brake light on left-hand fender extension
R23			Direction indicator and brake light on right-hand fender extension
R24			Right-hand direction indicator
R25			Right-hand direction indicator on rear fender
R26			Left-hand direction indicator on rear fender
R27			Flashing beacon
R28			Hazard warning light
R29			Air conditioning compressor

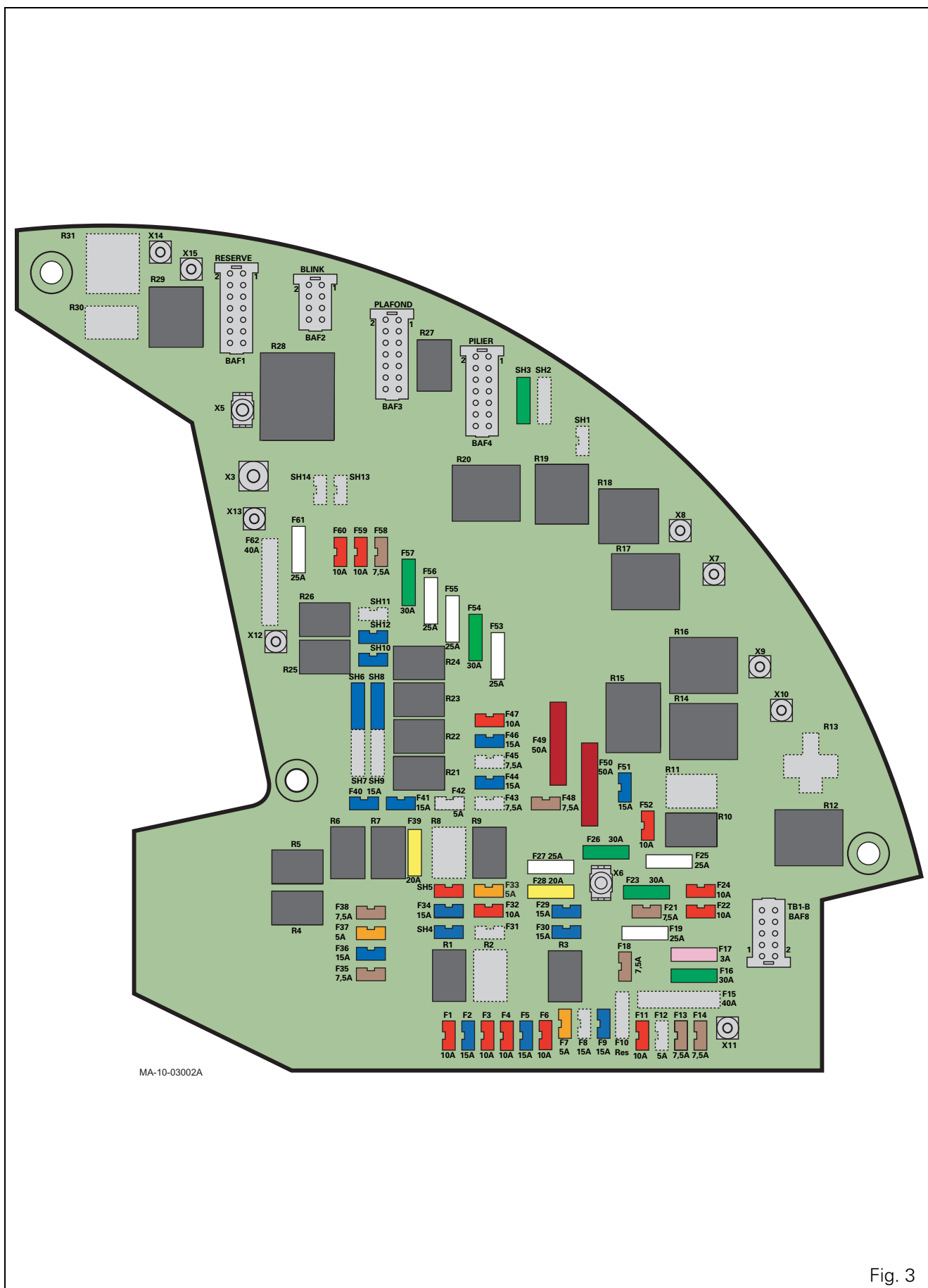


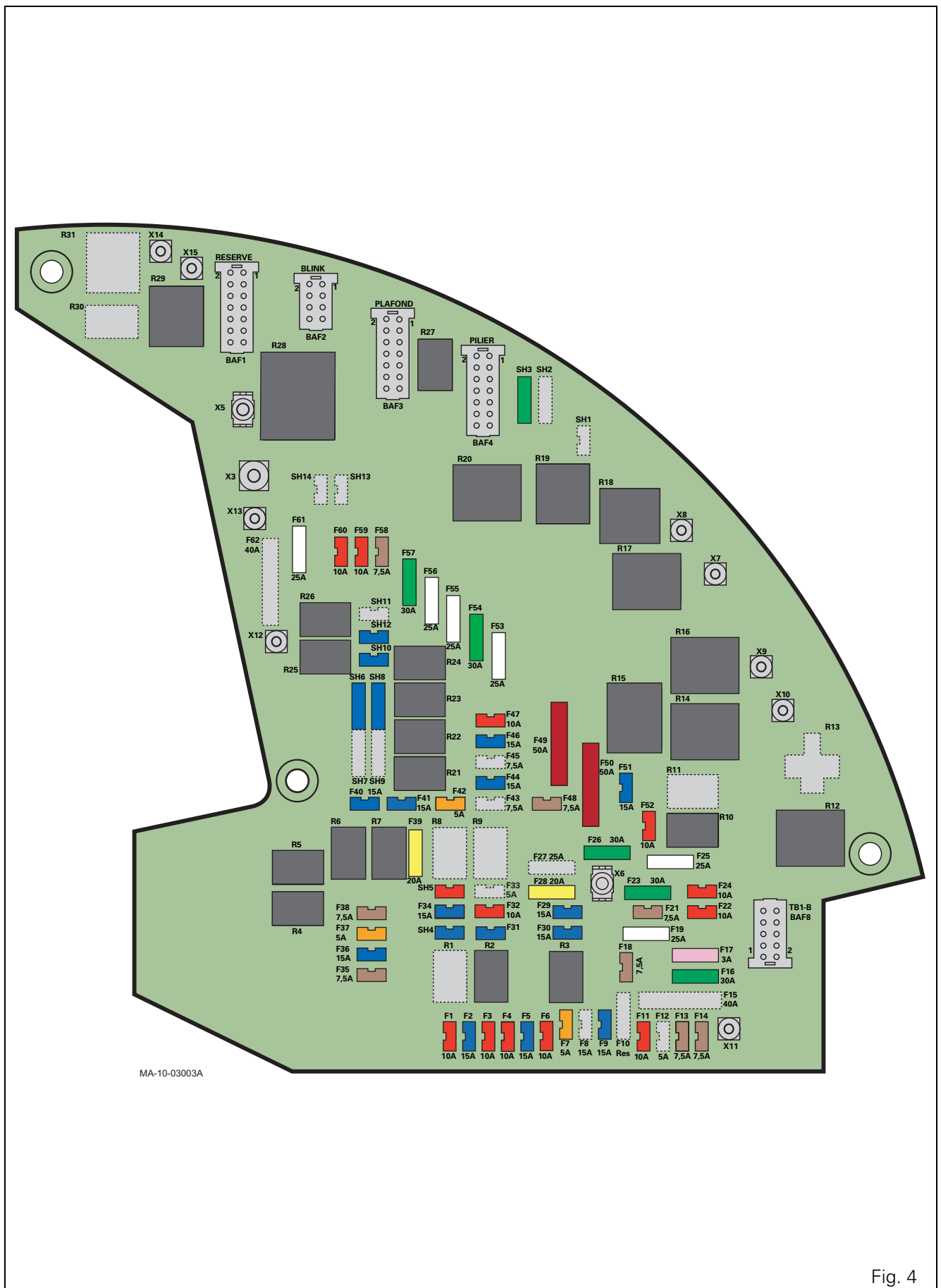
Fig. 3

Fuse boxes

Dynashift with Sisu engine (Fig. 4)

Ref.	Amp.	Size	Protected function
F1	10	min.	Front right- and rear left-hand side lights, back-lighting of switches / console / cigarette lighter
F2	15	min.	Roof direction indicators
F3	10	min.	Left-hand fender extension direction indicator
F4	10	min.	Auto III, instrument panel, gearbox / differential / 4WD / PTO / creeper unit neutral switch
F5	15	min.	Stop lights
F6	10	min.	Controls on armrest (with Auto V)
F7	5	min.	Electronic injection control unit (ECU) control relay, reversing light relay
F9	15	min.	Suspended front axle and front PTO
F11	10	min.	Air conditioning compressor
F13	7,5	min.	Work headlights module
F14	7,5	min.	Electrical rear view mirrors
F16	30	normal	Injection pump stop solenoid valve, braking pressure sensor
F17	3	normal	Brake switch
F18	7,5	min.	Linkage, diagnostics, braking circuit pressure sensor
F19	25	normal	Pneumatic seat, fuel heater
F21	7,5	min.	Linkage, Datatronic 3
F22	10	min.	TOC/BOC pedal switch, buzzer, start switch, reverse shuttle lever, throttle pedal position sensor, armrest, parameter display selector switch
F23	30	normal	Cigarette lighter, radio, roof light
F24	10	min.	Right-hand fender extension direction indicator
F25	25	normal	Hazard warning light switch, permanent 12 V
F26	30	normal	Power socket
F28	20	normal	Electronic injection control unit (ECU)
F29	15	min.	Auto III calculator
F30	15	min.	Electronic injection control unit (ECU)
F31	15	min.	Sisu ECM module
F32	10	min.	Electronic injection control unit (ECU)
F34	15	min.	Dipped lights
F35	7,5	min.	Horn
F36	15	min.	Headlights
F37	5	min.	Clutch safety start switch
F38	7,5	min.	Front left- and rear right-hand side light, instrument panel back lighting
F39	20	normal	Side / road lights switch on handrails
F40	15	min.	Left-hand direction indicator
F41	15	min.	Joystick
F42	5	min.	Sisu ECU
F44	15	min.	Right-hand direction indicator
F46	15	min.	Rear windscreen wiper, heating
F47	10	min.	Radio
F48	7,5	min.	Suspended front axle
F49	50	max.	Cab suspension
F50	50	max.	Air conditioning
F51	15	min.	Instrument panel
F52	10	min.	Power socket
F53	25	normal	Front windscreen wiper
F54	30	normal	Front work headlights
F55	25	normal	Rear work headlights
F56	25	normal	Work headlights on rear fenders and/or handrails
F57	30	normal	Footstep work headlights
F58	7,5	min.	Work headlights module
F59	10	min.	Flashing beacon
F60	10	min.	+ ignition on relay control
F61	25	normal	Hazard warning lights

SH3	30	normal	Work headlights on footsteps and handrails
SH4	15	min.	Headlights
SH5	10	min.	Dipped lights
SH6	10	normal	Direction indicator
SH8	10	normal	Direction indicator
SH10	15	min.	Direction indicator
SH12	15	min.	Direction indicator
R2			Electronic injection control unit (ECU)
R3			Electronic injection control unit (ECU)
R4			Reversing light
R5			Stop lights
R6			1 st additional ON/OFF spool valve
R7			2 nd additional ON/OFF spool valve
R10			Power socket
R12			Wiper timer
R14			Air conditioning
R15			+ ignition on
R16			Cab suspension (optional)
R17			Front work headlights
R18			Rear work headlights
R19			Rear fender work headlights
R20			Footstep work headlights
R21			Left-hand direction indicator
R22			Direction indicator and brake light on left-hand fender extension
R23			Direction indicator and brake light on right-hand fender extension
R24			Right-hand direction indicator
R25			Right-hand direction indicator on rear fender
R26			Left-hand direction indicator on rear fender
R27			Flashing beacon
R28			Hazard warning light
R29			Air conditioning compressor



10B10- ELECTRICAL DIAGRAMS - Cab equipment

CONTENTS

A . General	3
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A . General

Description

The harnesses fitted on the tractor allow data to be exchanged and power to be supplied to the electrical and electronic systems.

The tractor is fitted with 3 different types of power supply:

- +12V Battery (Permanent)
- +12V APC (Ignition key ON)
- +12V ACC (Accessories)

Most harnesses have a maximum of six different wire colours:

- Black: Ground
- Brown: +12V Permanent
- Red: +12V APC (Ignition key ON) and Accessories
- White: Information
- Yellow: CAN High
- Green: CAN Low

The CAN network wires (yellow and green) are twisted together.

- Components with only one connector are identified by the connector name:

CAB03 - Road lights switch (Fig. 1).

- All wires can be identified by the pins of the outgoing and incoming connectors of the harness:

CAB3.7/CAB28.1 : The wire connects pin 7 of the CAB03 connector to pin 1 of the CAB28 connector

- The detail of pins allocation for each connector is shown on the harness side
- The wire colour is indicated: CAB3.7/CAB28.1 N, the wire is black.

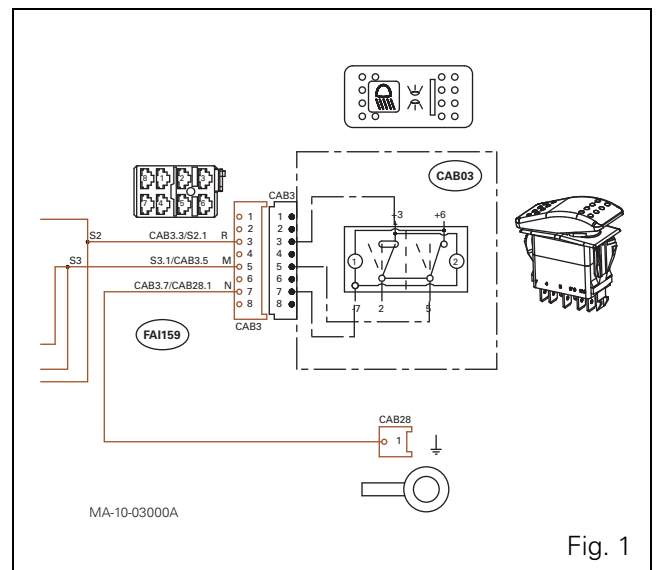
List of colours:

- N: Black
- M: Brown
- R: Red
- B: White
- J: Yellow
- V: Green

- The splices inside the harnesses are indicated by a dot and the letter S (S2).

In general, the components or connectors are named in order to indicate the corresponding elements of the tractor:

AC##	Armrest
BAF##	Fuse box
CA##	Automatic air conditioning
CAB##	Cab
ENG##	Engine
FA##	Suspended front axle
L##	Linkage - ParkLock (HA)
LIG##	Lighting
R##	Linkage and roof
ROOF##	Roof
TR##	Transmission
V#	Electrohydraulic spool valve
X#	Round battery cable terminal on fuse box



ELECTRICAL DIAGRAMS - Cab equipment

Layout

5 Deutsch connectors (31-way) are connected to the cab:

- 2 on the front panel (Fig. 2)
- 3 at the bottom rear right-hand side of the cab (Fig. 3).

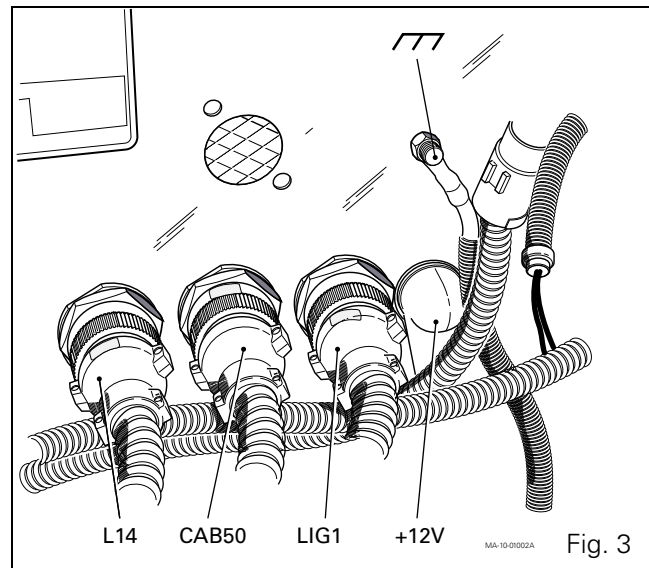
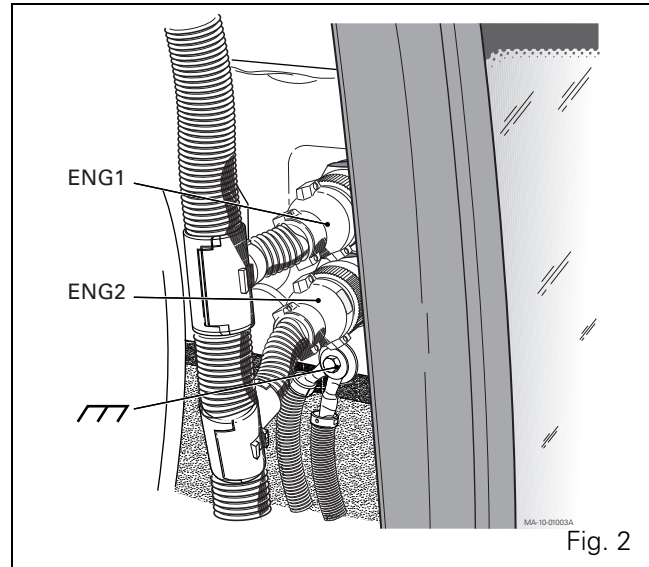
Fig. 2 :

All these connectors belong to the engine harness. ENG2 is dedicated to information concerning the electronic injection.

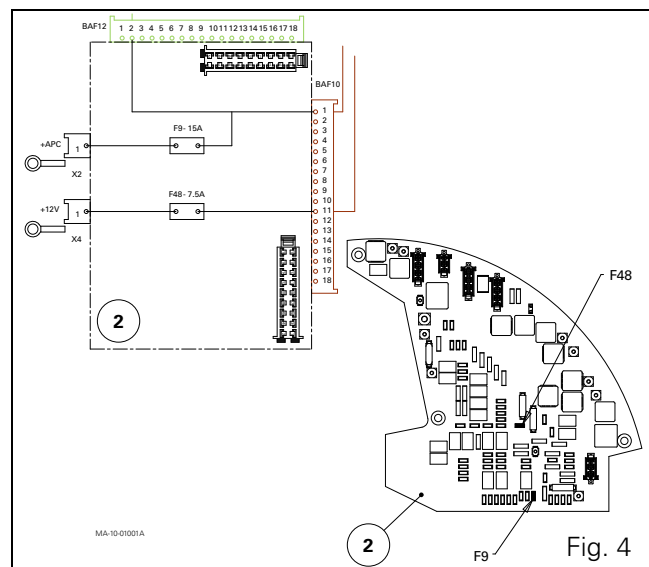
Fig. 3 :

Always in the following order (regardless of tractor configuration and options), from left to right:

- L14 Linkage harness junction
- CAB50 Transmission harness junction
- LIG1 Lighting harness junction



The fuses and relays of the electrical or electronic board (Fig. 4) are indicated by a black mark on their locations on the fuse box (2).



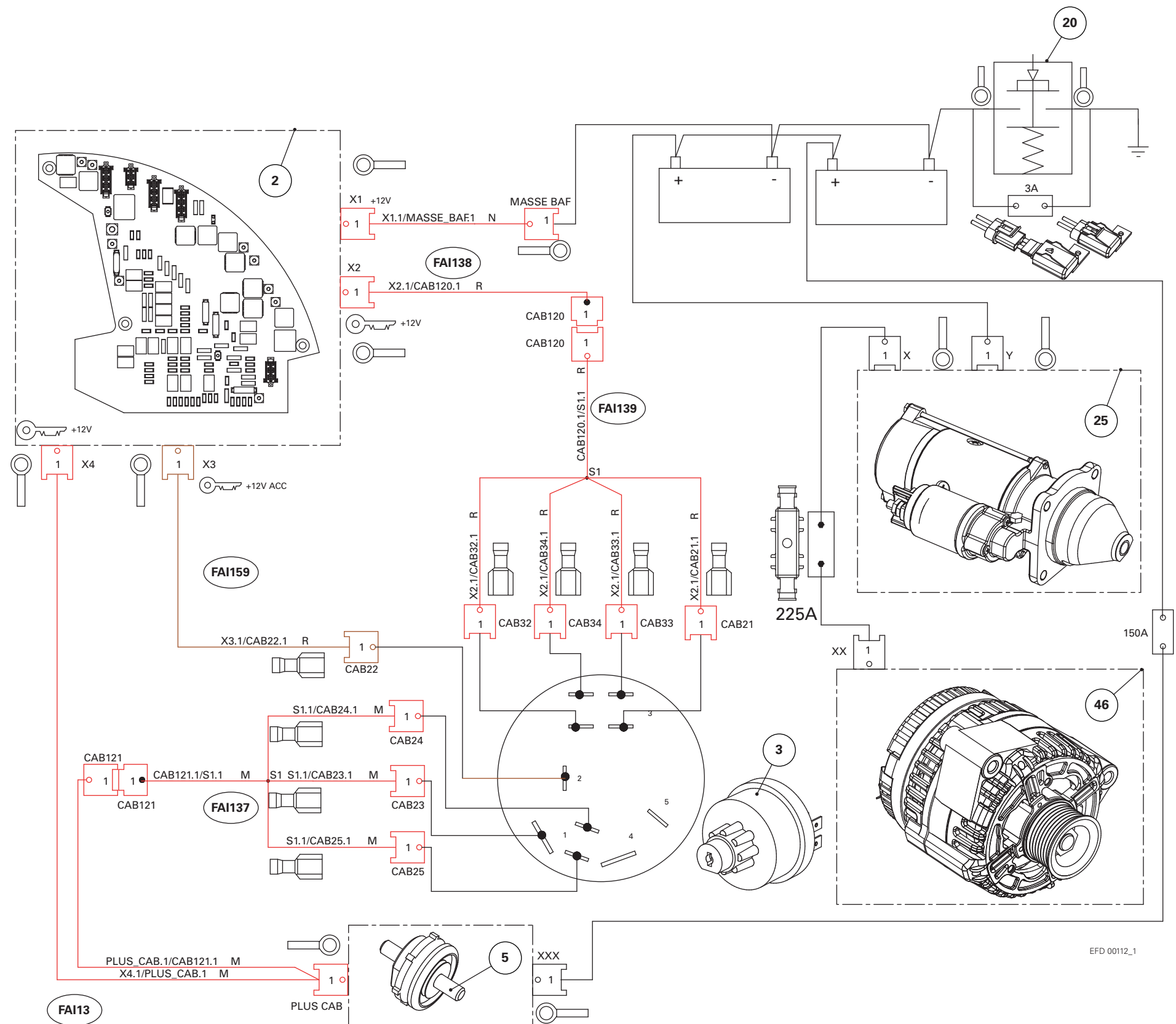
B . Electrical panels

General fuse box power supply with circuit breaker (GBA25 and GBA10-Auto5)	7	Automatic air conditioning unit supply (GBA25 and GBA10-Auto5)	37
General fuse box power supply without circuit breaker (GBA25 and GBA10-Auto5)	8	Automatic air conditioning (GBA25 and GBA10-Auto5)	38
General fuse box power supply (GBA20 and GBA10)	9	Automatic air conditioning without circuit breaker (GBA20 and GBA10)	39
Cigarette lighter on right-hand side (GBA25 and GBA10-Auto5)	10	Automatic air conditioning with circuit breaker (GBA20 and GBA10)	40
Cigarette lighter on left-hand side (GBA25 and GBA10-Auto5)	11	Standard ventilation—standard roof (GBA25 and GBA10-Auto5)	41
Cigarette lighter on left-hand side with circuit breaker (GBA20 and GBA10)	12	Standard ventilation—high-visibility roof (GBA25 and GBA10-Auto5)	42
Cigarette lighter on left-hand side without circuit breaker (GBA20 and GBA10)	13	Extreme cold weather ventilation (GBA25 and GBA10-Auto5)	43
EEC cab power socket (GBA25 and GBA10-Auto5)	14	Extreme cold weather ventilation (GBA20 and GBA10)	44
Power socket (GBA20 and GBA10)	15	Electric rear view mirrors (GBA25 and GBA10-Auto5)	45
SAE cab power socket (GBA25 and GBA10-Auto5)	16	Electric rear view mirrors (GBA20 and GBA10)	46
Horn (GBA25 and GBA10-Auto5)	17	Door switch (GBA25 and GBA10-Auto5)	47
Horn (GBA20 and GBA10)	18	Instrument panel controls (GBA25 and GBA10-Auto5)	48
Front windscreen wiper (GBA25 and GBA10-Auto5)	19	Instrument panel (GBA20 and GBA10)	49
Front windscreen wiper (GBA20 and GBA10)	20	Radar (GBA25 and GBA10-Auto5)	50
Rear windscreen wiper (GBA25 and GBA10-Auto5)	21	Fieldstar (GBA25 and GBA10-Auto5)	51
Rear windscreen wiper (GBA20 and GBA10)	22	Parking brake (GBA25 and GBA10-Auto5)	52
Cab suspension (GBA25 and GBA10-Auto5)	23	Parking brake (GBA25 and GBA10)	53
Cab suspension (GBA20 and GBA10)	24	Diagnostics connector power supply (GBA25 and GBA10-Auto5)	54
Pneumatic seat (GBA25 and GBA10-Auto5)	25	Headland mode switch (GBA25 and GBA10-Auto5)	55
Pneumatic seat (GBA20 and GBA10)	26	Front power take-off (GBA25 and GBA10-Auto5)	56
Radio—Europe (except Germany) (GBA25 and GBA10-Auto5)	27	Front power take-off (GBA20 and GBA10)	57
Radio—Europe (except Germany) (GBA20 and GBA10)	28		
Radio—North America (GBA25 and GBA10-Auto5)	29		
Radio—North America (GBA20 and GBA10)	30		
Radio—Germany (GBA25 and GBA10-Auto5)	31		
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Manual air conditioning—standard roof (GBA25 and GBA10-Auto5)	33		
Manual air conditioning—standard roof (GBA20 and GBA10)	34		
Manual air conditioning—high-visibility roof (GBA25 and GBA10-Auto5)	35		
Manual air conditioning—high-visibility roof (GBA20 and GBA10)	36		

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General fuse box power supply with circuit breaker (GBA25 and GBA10-Auto5)

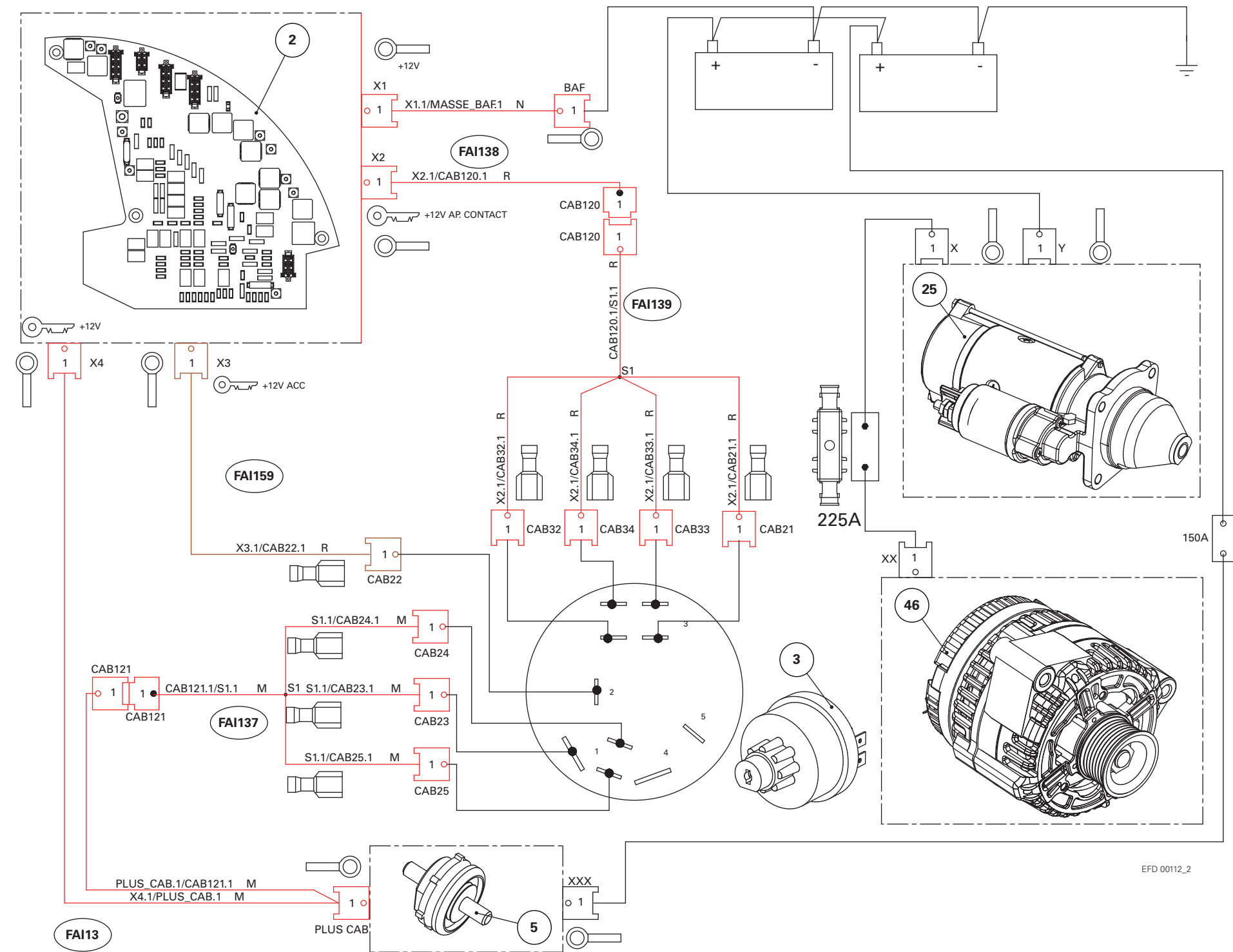
- 2 Fuse box
- 3 Start switch
- 5 Supply terminal
- 20 Circuit breaker
- 25 Starter
- 46 Alternator
- FAI 13 Fuse box supply harness
- FAI 137 Battery +12V fuse box supply harness
- FAI 138 Ignition on +12V APC fuse box supply harness
- FAI 139 Ignition on instrument panel + APC harness
- FAI 159 Instrument panel harness



ELECTRICAL DIAGRAMS - Cab equipment

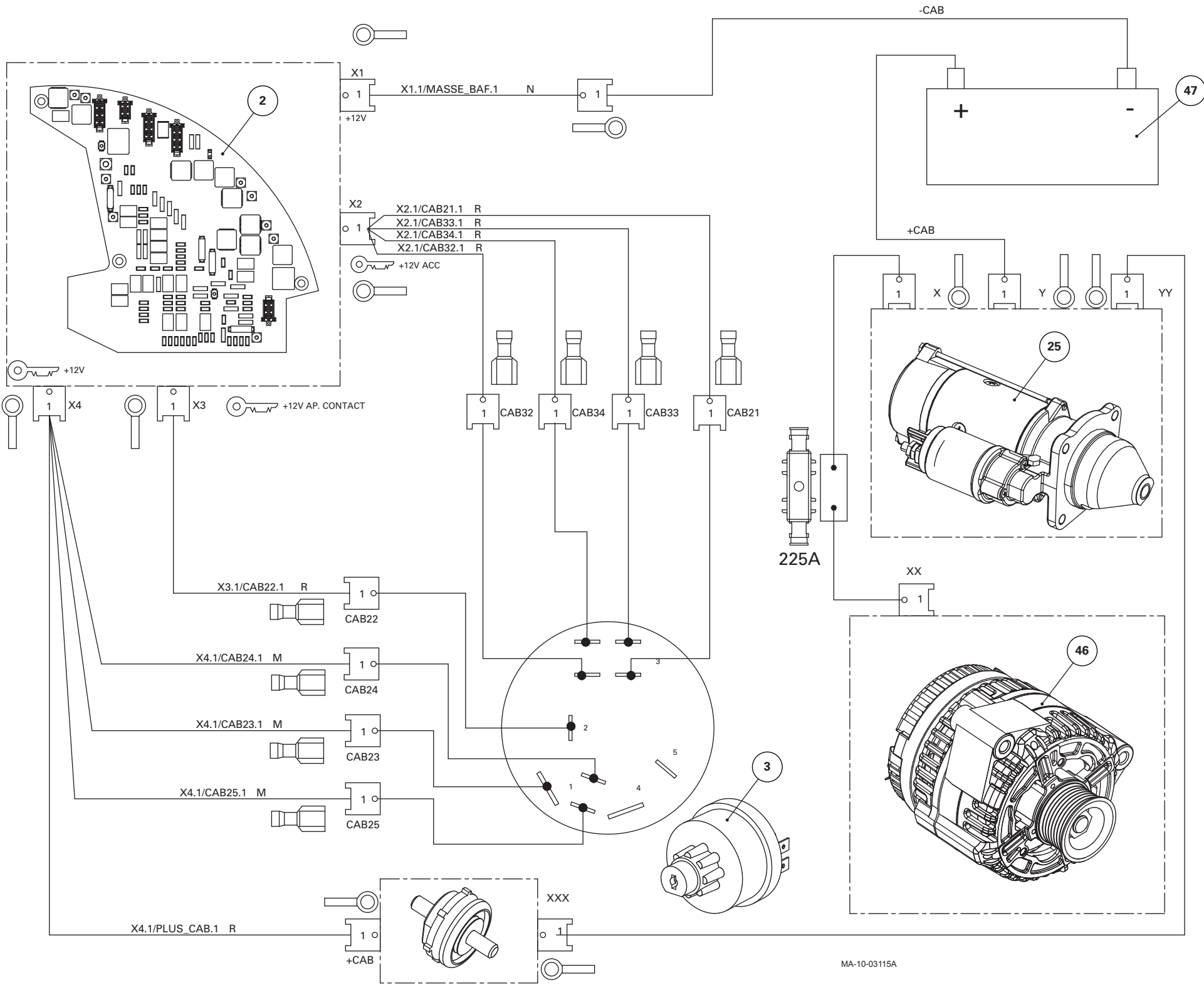
General fuse box power supply without circuit breaker (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 3 Start switch
- 5 Supply terminal
- 25 Starter
- 46 Alternator
- FAI 13 Fuse box supply harness
- FAI 137 Battery +12V fuse box supply harness
- FAI 138 Ignition on +12V APC fuse box supply harness
- FAI 139 Ignition on instrument panel + APC harness
- FAI 159 Instrument panel harness



General fuse box power supply (GBA20 and GBA10)

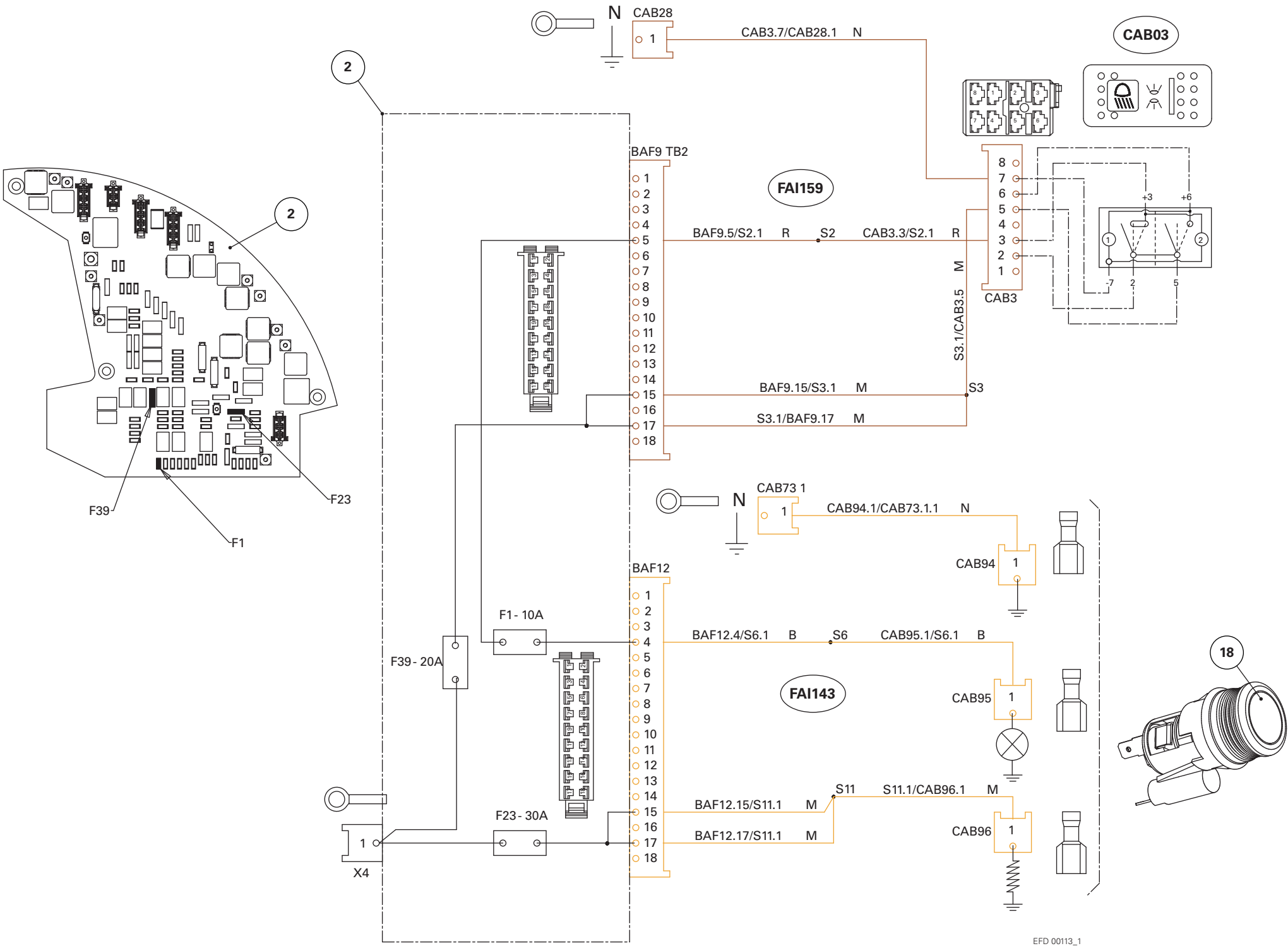
- 2 Fuse box
- 3 Start switch
- 25 Starter
- 46 Alternator
- 47 Battery



ELECTRICAL DIAGRAMS - Cab equipment

Cigarette lighter on right-hand side
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- 18 Cigarette lighter
- FAI 143 Dyna-6 cab transmission harness
- FAI 159 Instrument panel harness
- CAB03 Road lights switch

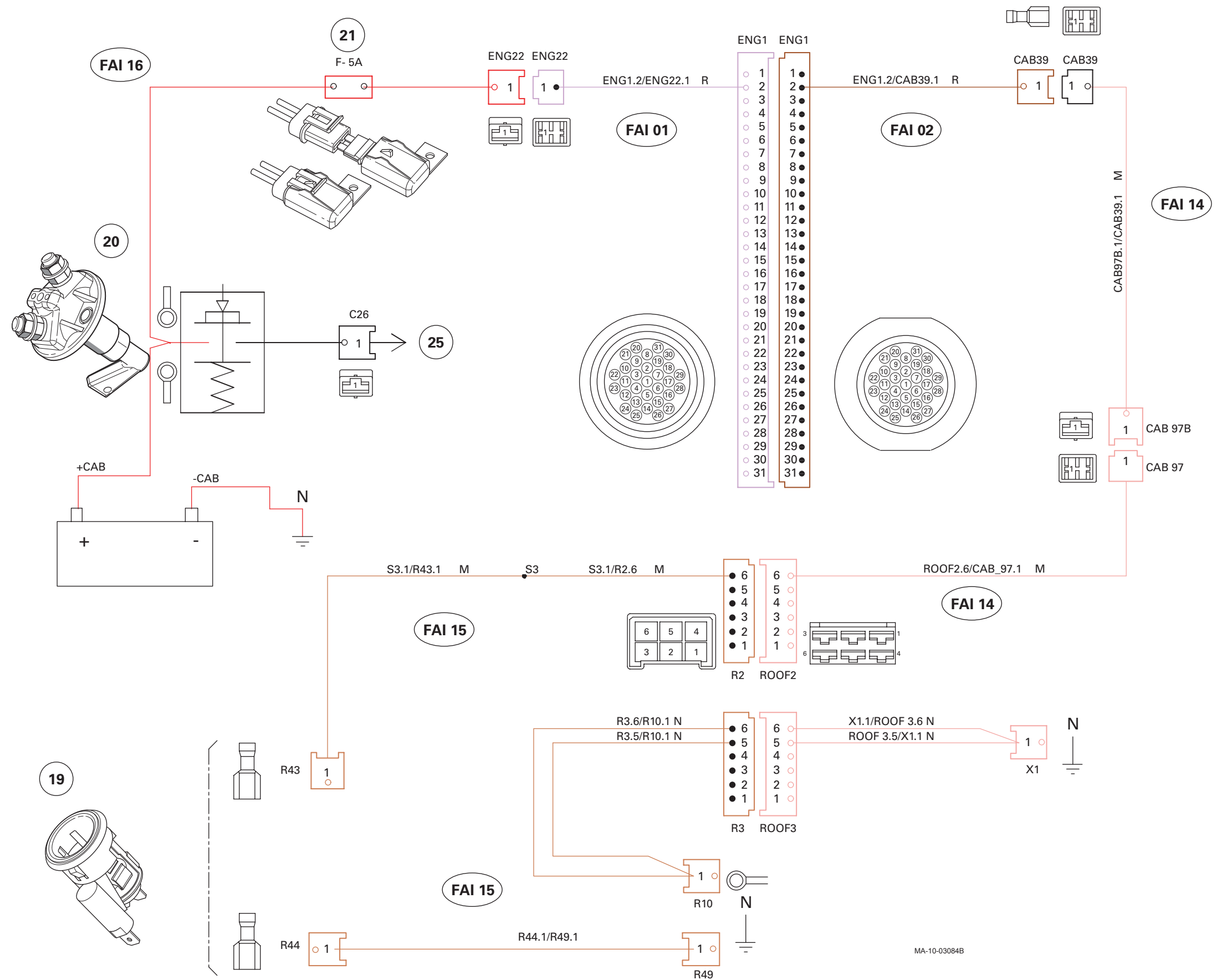


-
- Wiring diagram for the FAI143 control unit, showing connections to various components including a 30A fuse, terminal block BAF12, and multiple cable assemblies (CAB97, CAB103, CAB103.3). The diagram includes a physical layout of the FAI143 unit at the top right and a detailed wiring schematic below. Key components labeled include FAI143, FAI15, FAI166, FAI126, and FAI127.1.1. The schematic shows power lines (M, N, S) and signal lines connecting the FAI143 unit to other FAI units and external components like R10, R49, and R100.

ELECTRICAL DIAGRAMS - Cab equipment

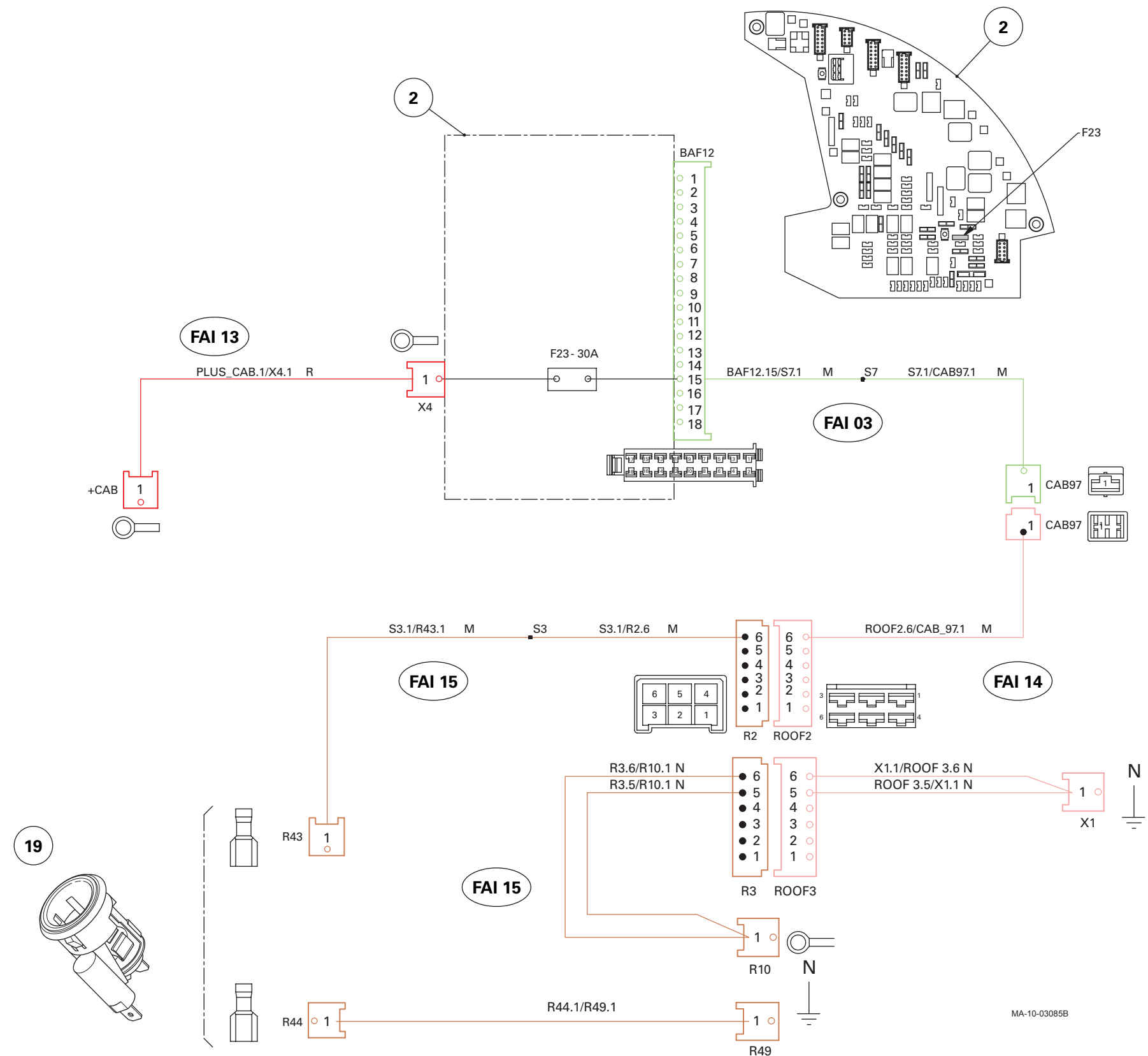
Cigarette lighter on left-hand side with circuit breaker (GBA20 and GBA10)

- | | |
|--------|--------------------------|
| 2 | Fuse box |
| 19 | Cigarette lighter socket |
| 20 | Circuit breaker |
| 21 | Line fuse |
| 25 | Starter |
| FAI 01 | Engine harness |
| FAI 02 | Instrument panel harness |
| FAI 14 | Pillar harness |
| FAI 15 | Roof harness |
| FAI 16 | Circuit breaker harness |



Cigarette lighter on left-hand side without circuit breaker (GBA20 and GBA10)

- 2 Fuse box
- 19 Cigarette lighter socket
- FAI 03 Dynashift console harness
- FAI 13 Fuse box supply harness
- FAI 14 Pillar harness
- FAI 15 Roof harness

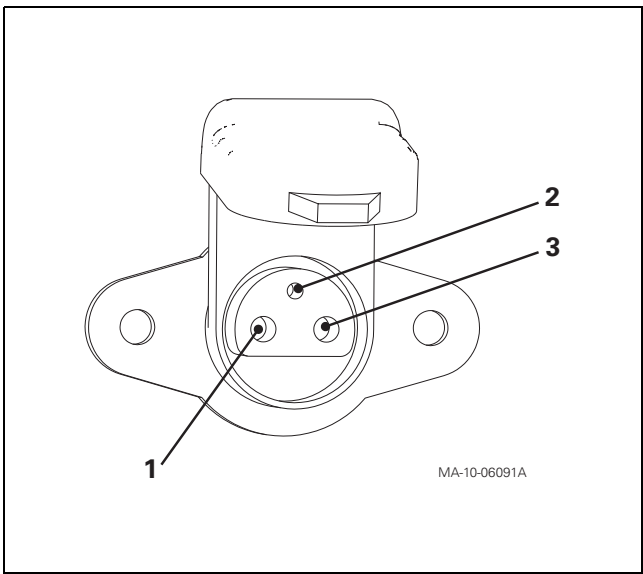


ELECTRICAL DIAGRAMS - Cab equipment

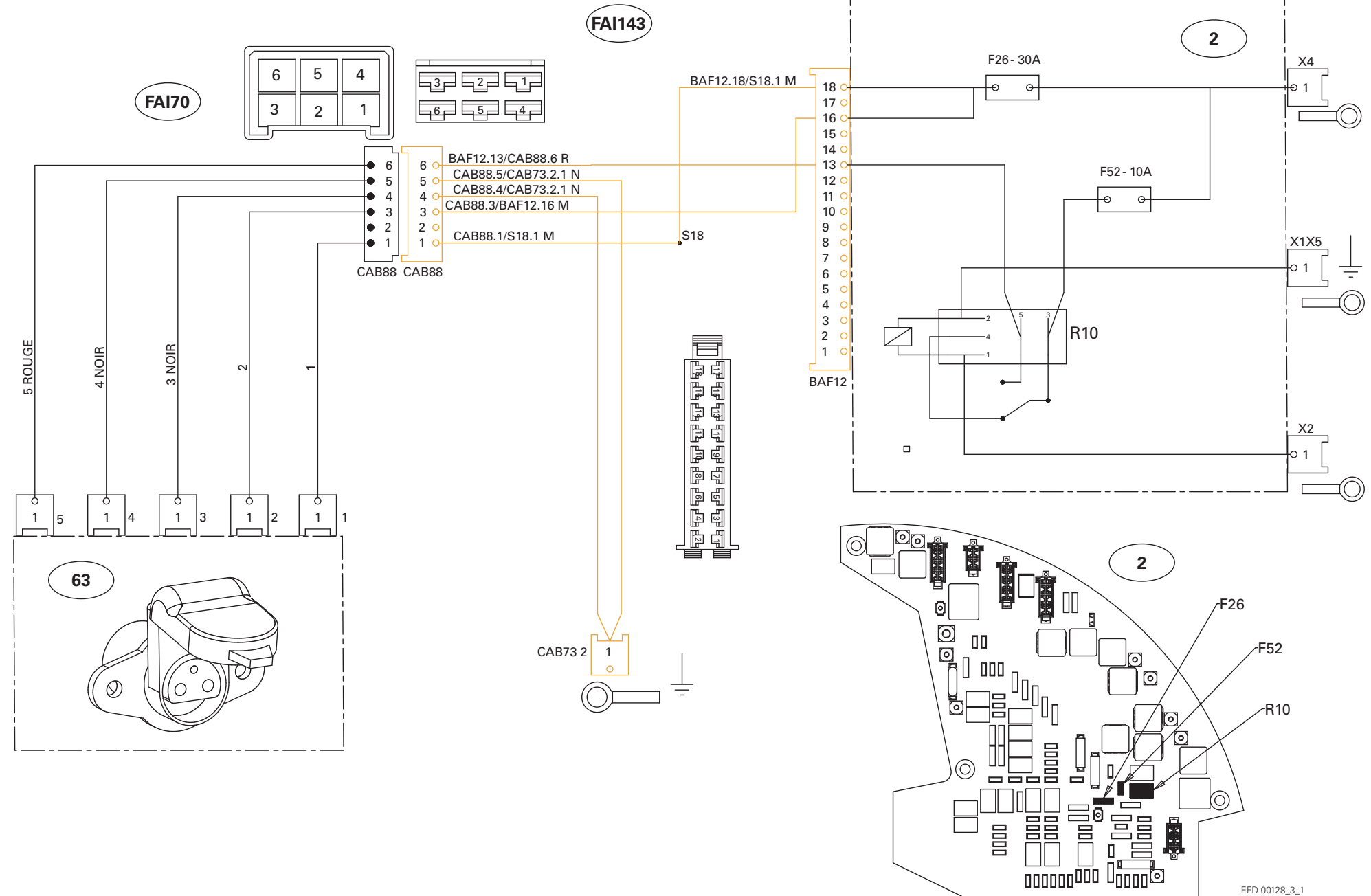
EEC cab power socket (GBA25 and GBA10-Auto5)

- | | |
|---------|-----------------------------------|
| 2 | Fuse box |
| 63 | EEC cab interior power socket |
| FAI 70 | Cab interior power socket harness |
| FAI 143 | Cab transmission harness |

Power socket connection



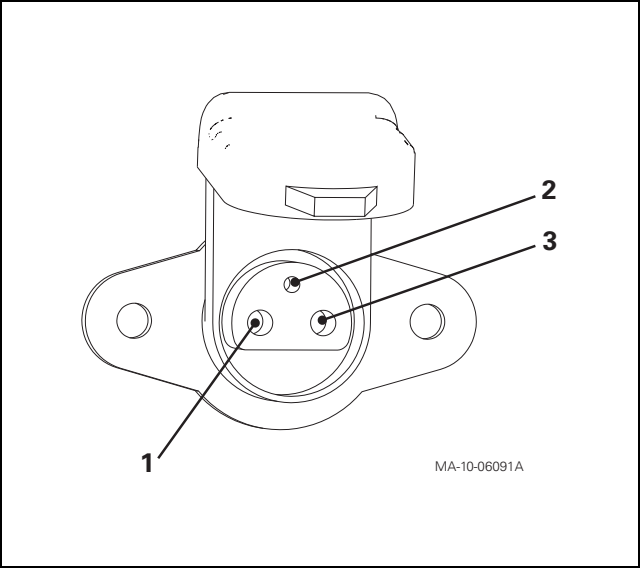
Terminal 1: +12V permanent (25A)
Terminal 2: +12V ignition on (5A)
Terminal 3: earth



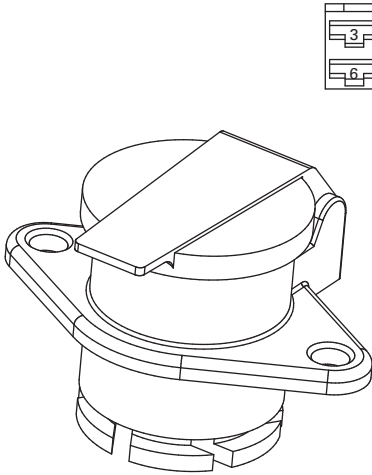
Power socket (GBA20 and GBA10)

- 2 Fuse box
- FAI 02 Instrument panel harness

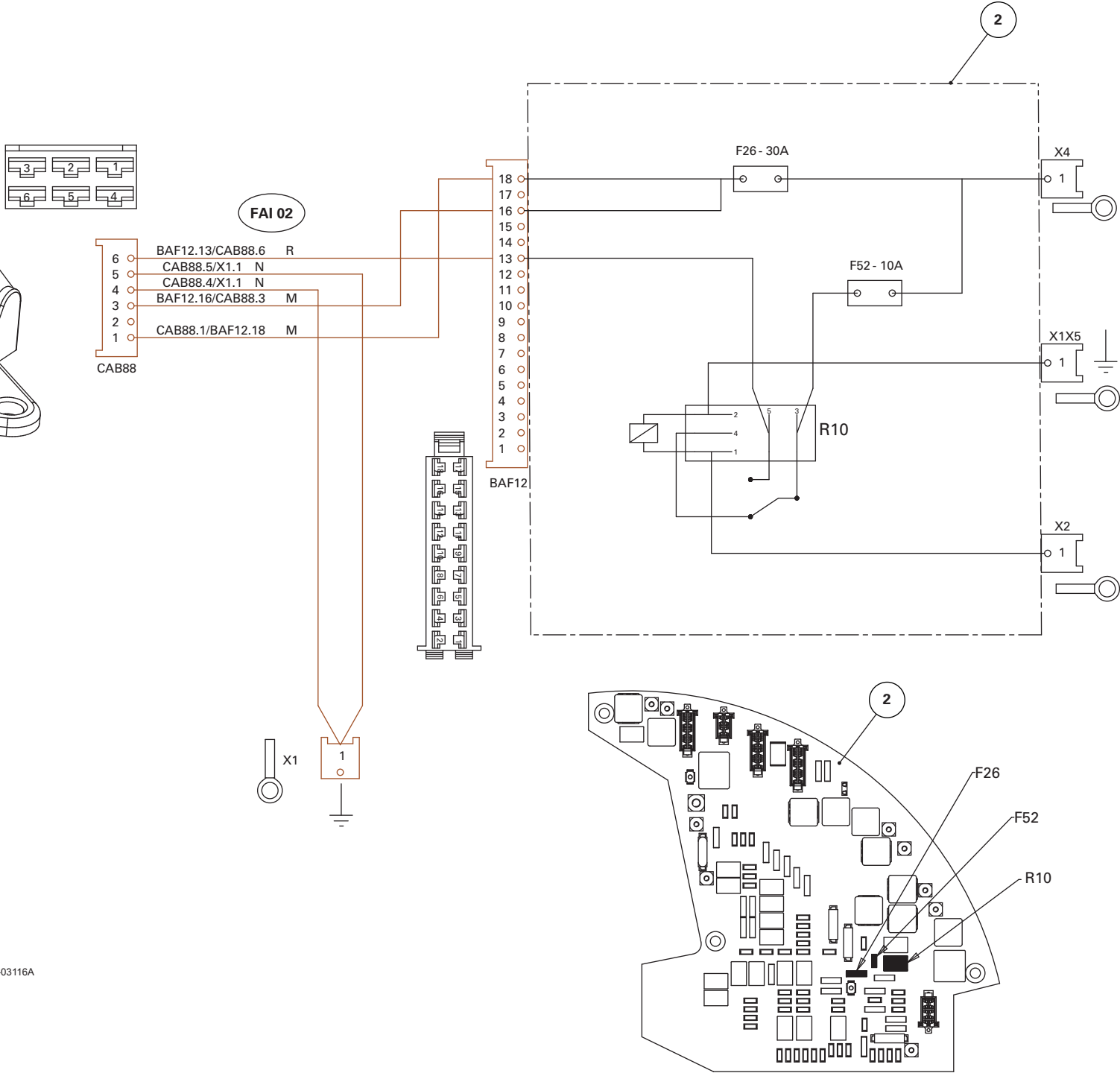
Power socket connection



Terminal 1: +12V permanent (25A)
Terminal 2: +12V ignition on (5A)
Terminal 3: earth



MA-10-03116A

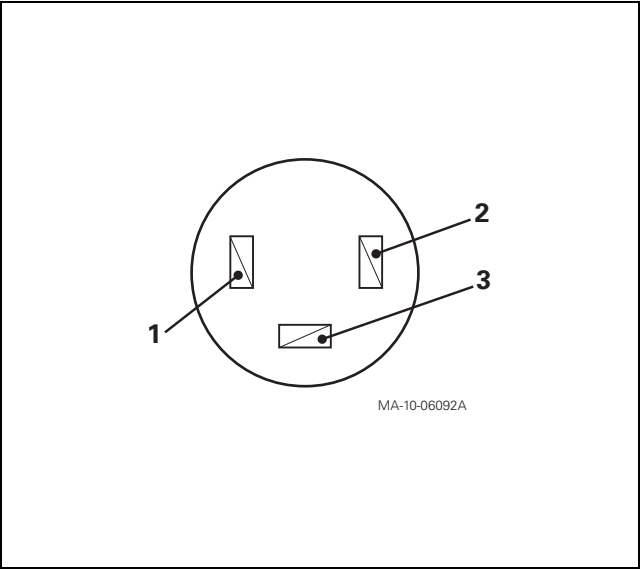


ELECTRICAL DIAGRAMS - Cab equipment

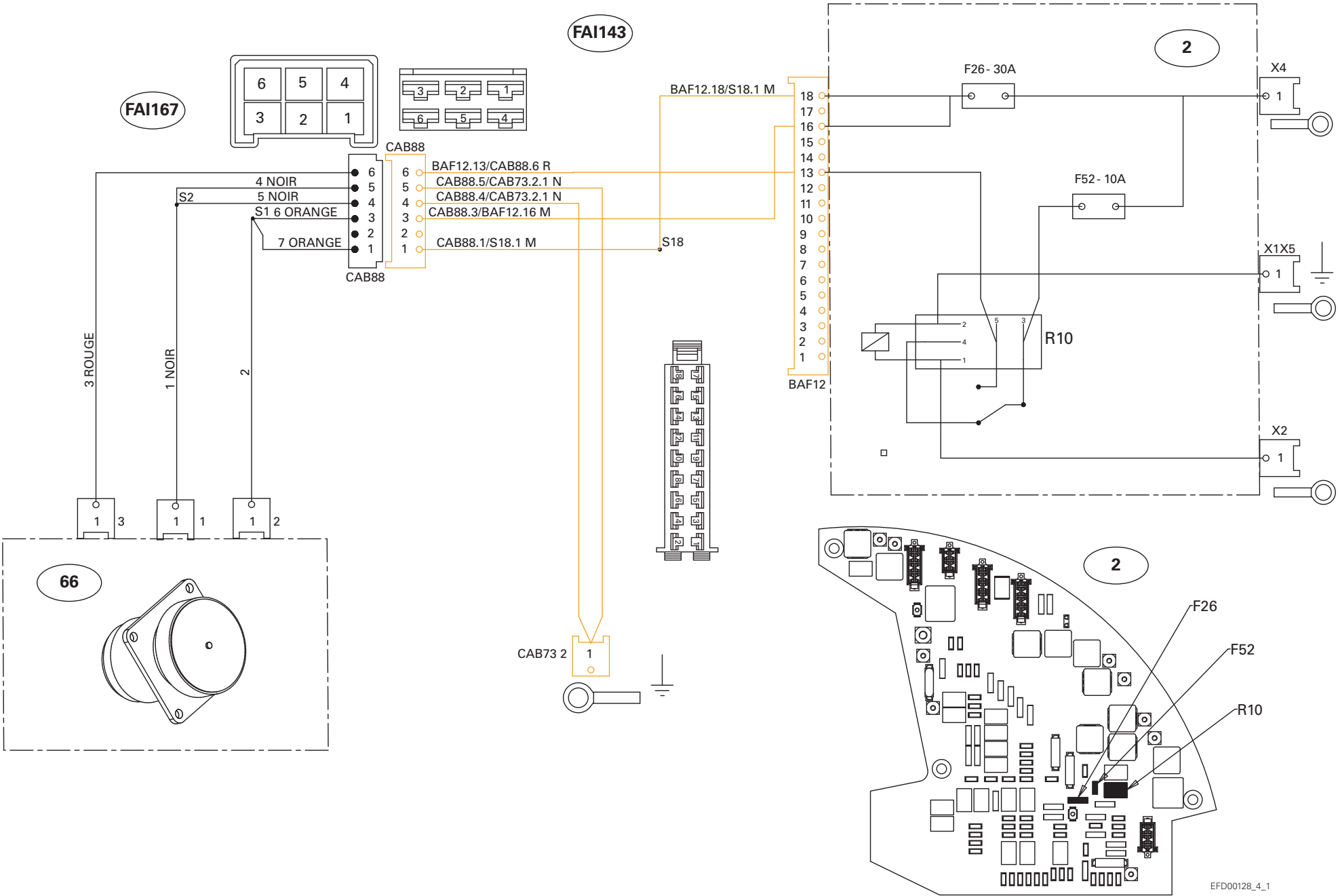
SAE cab power socket (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 66 SAE cab interior power socket
- FAI 143 Cab transmission harness
- FAI 167 Cab interior power socket harness—SAE standard

Power socket connection

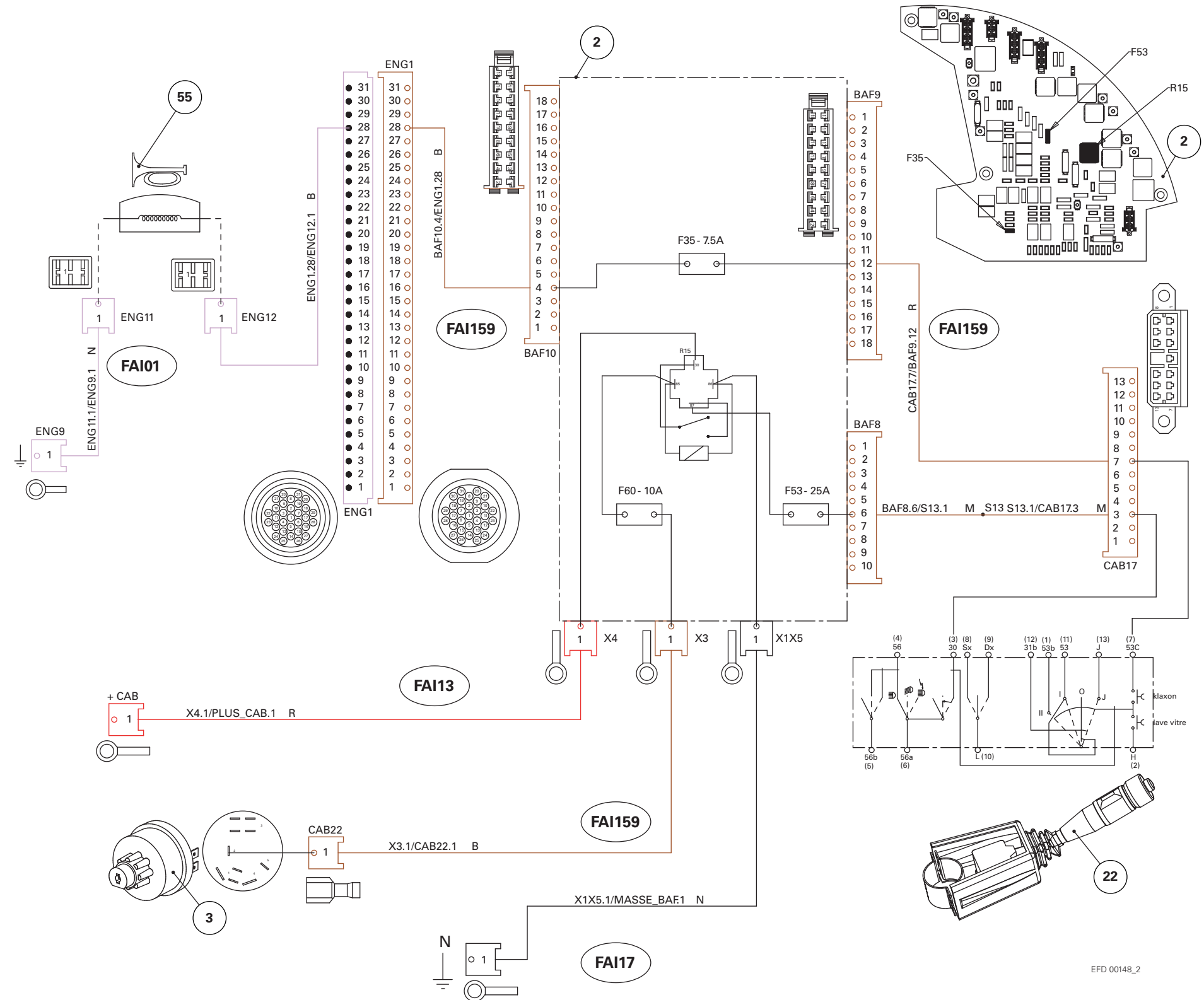


- Terminal 1: +12V permanent (30A)
- Terminal 2: +12V ignition on (5A)
- Terminal 3: earth



Horn (GBA25 and GBA10-Auto5)

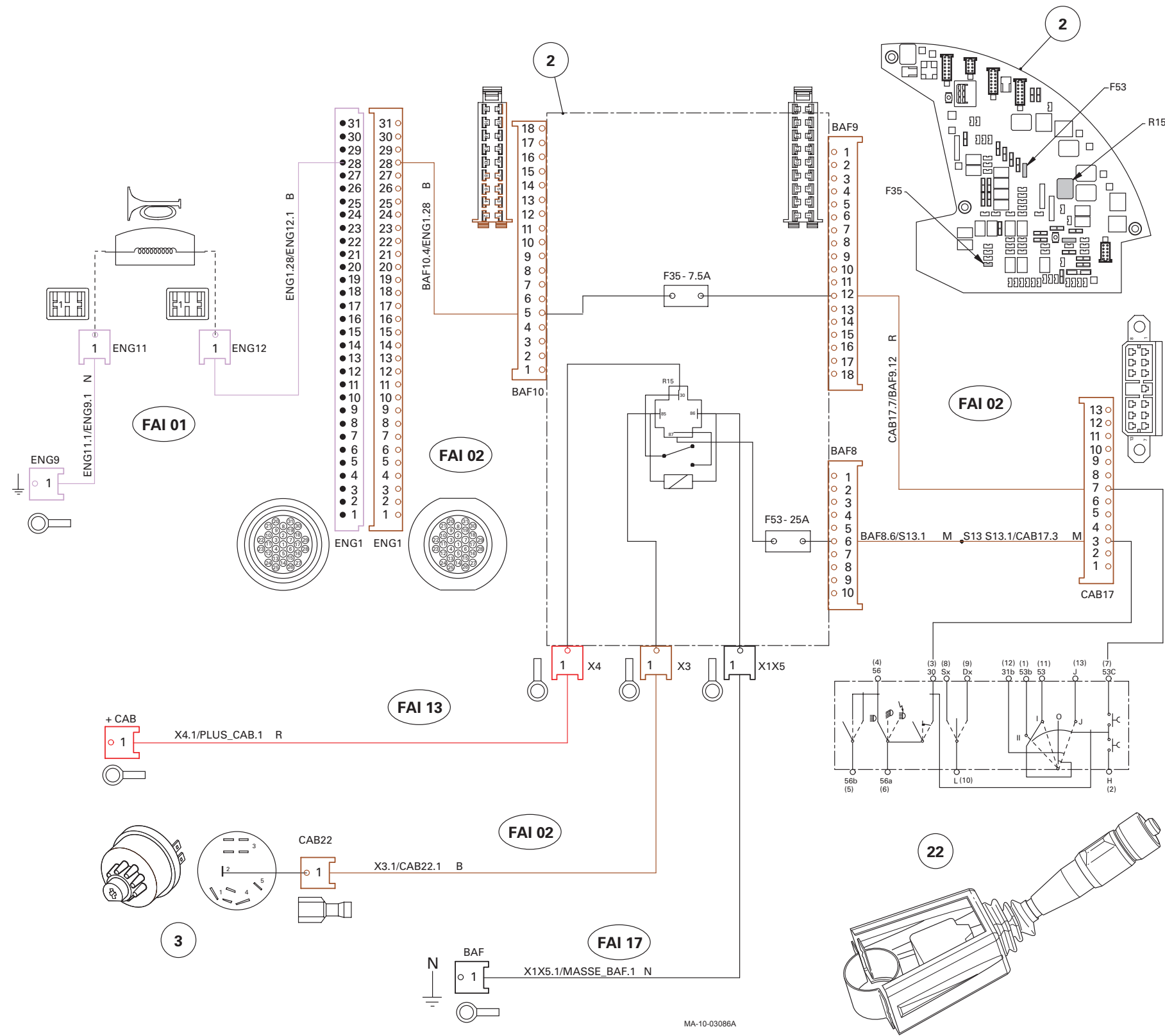
- 2 Fuse box
- 3 Start switch
- 22 Windscreen wiper controls
- 55 Horn
- FAI 01 Engine harness
- FAI 13 Fuse box supply harness
- FAI 17 BAF fuse box earth harness
- FAI 159 Instrument panel harness



ELECTRICAL DIAGRAMS - Cab equipment

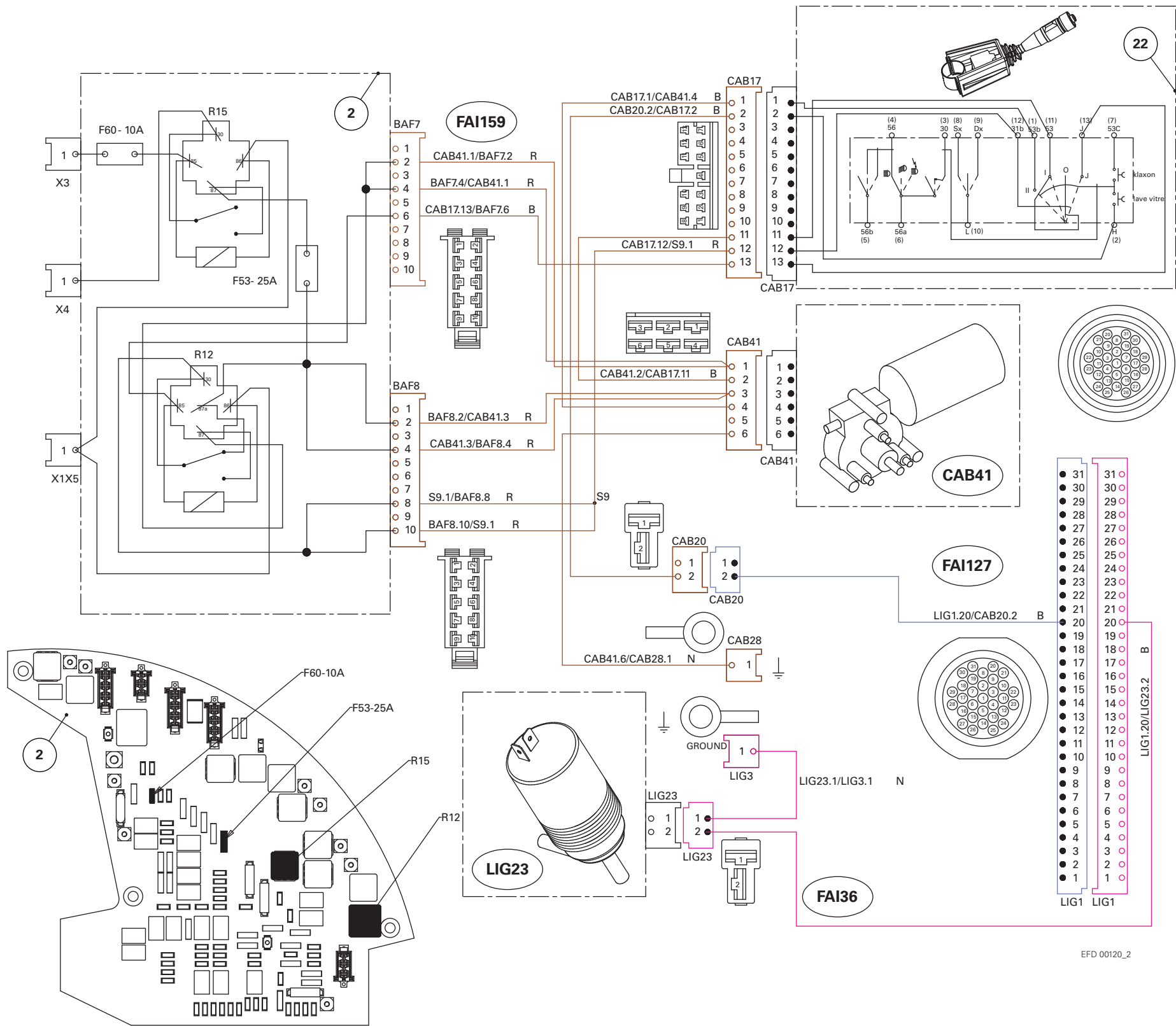
Horn (GBA20 and GBA10)

- 2 Fuse box
- 3 Start switch
- 22 Windscreen wiper controls
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 13 Fuse box supply harness
- FAI 17 BAF earth harness



Front windscreen wiper (GBA25 and GBA10-Auto5)

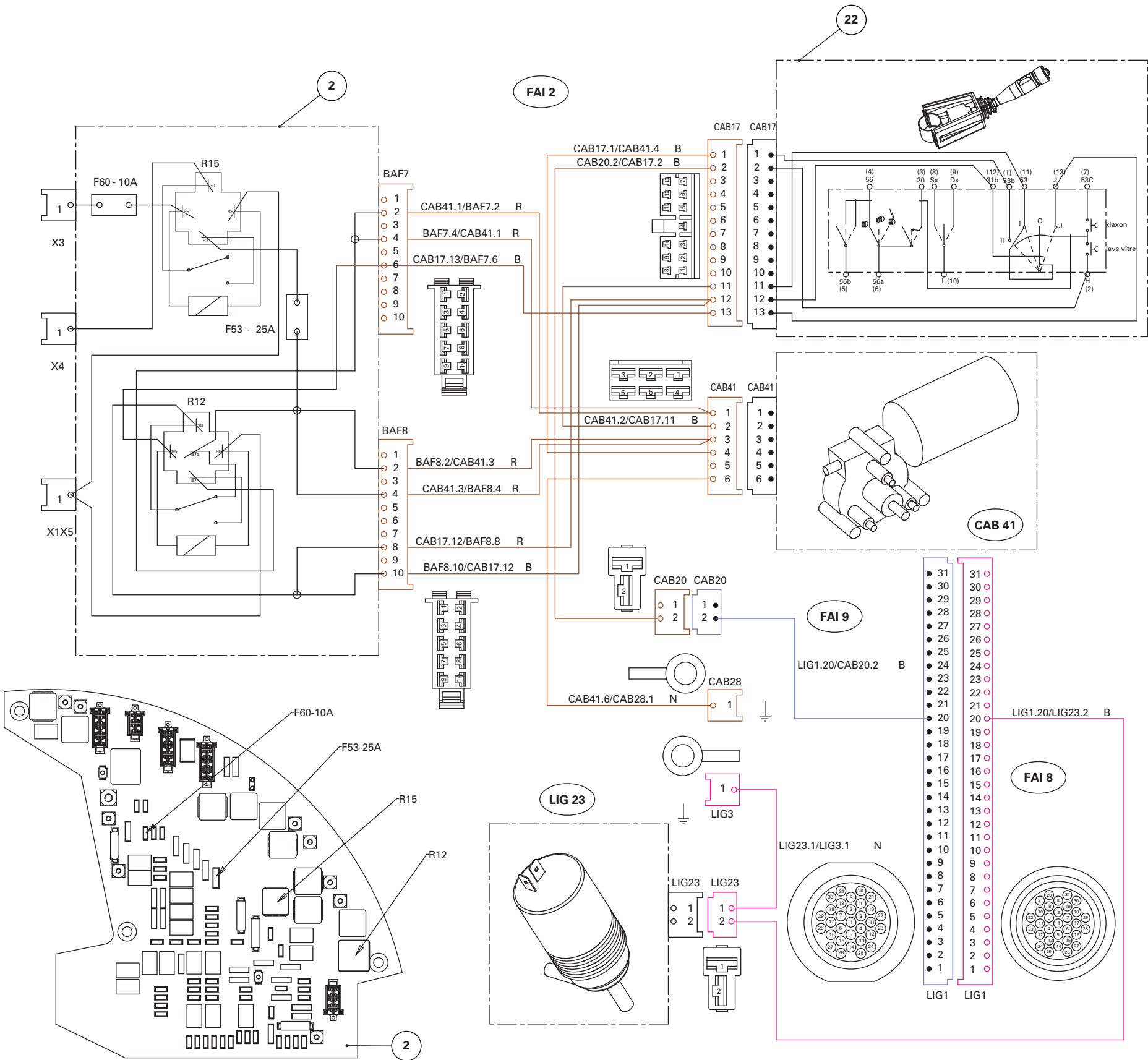
- 2 Fuse box
- 22 Windscreen wiper controls
- FAI 36 Fender lighting harness (US)
- FAI 127 Cab interior lighting harness—US
- FAI 159 Instrument panel harness
- CAB41 Front windscreen wiper motor
- LIG23 Windscreen washer pump



ELECTRICAL DIAGRAMS - Cab equipment

Front windscreen wiper (GBA20 and GBA10)

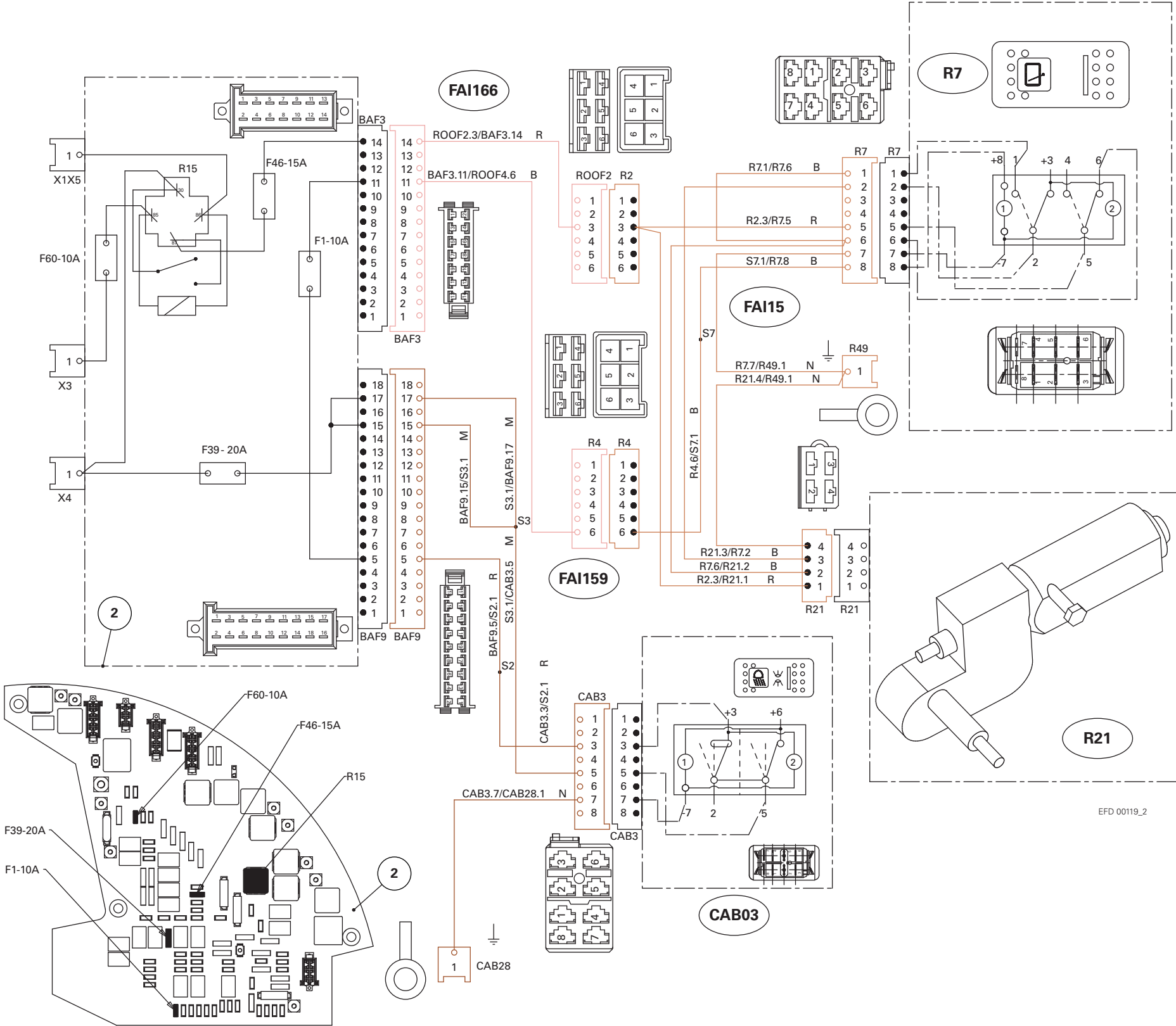
- 2 Fuse box
- 22 Windscreen wiper controls
- FAI 02 Instrument panel harness
- FAI 08 Lighting harness
- FAI 09 Cab interior lighting harness
- CAB41 Windscreen wiper motor
- LIG23 Windscreen washer pump



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Rear windscreen wiper (GBA25 and GBA10-Auto5)

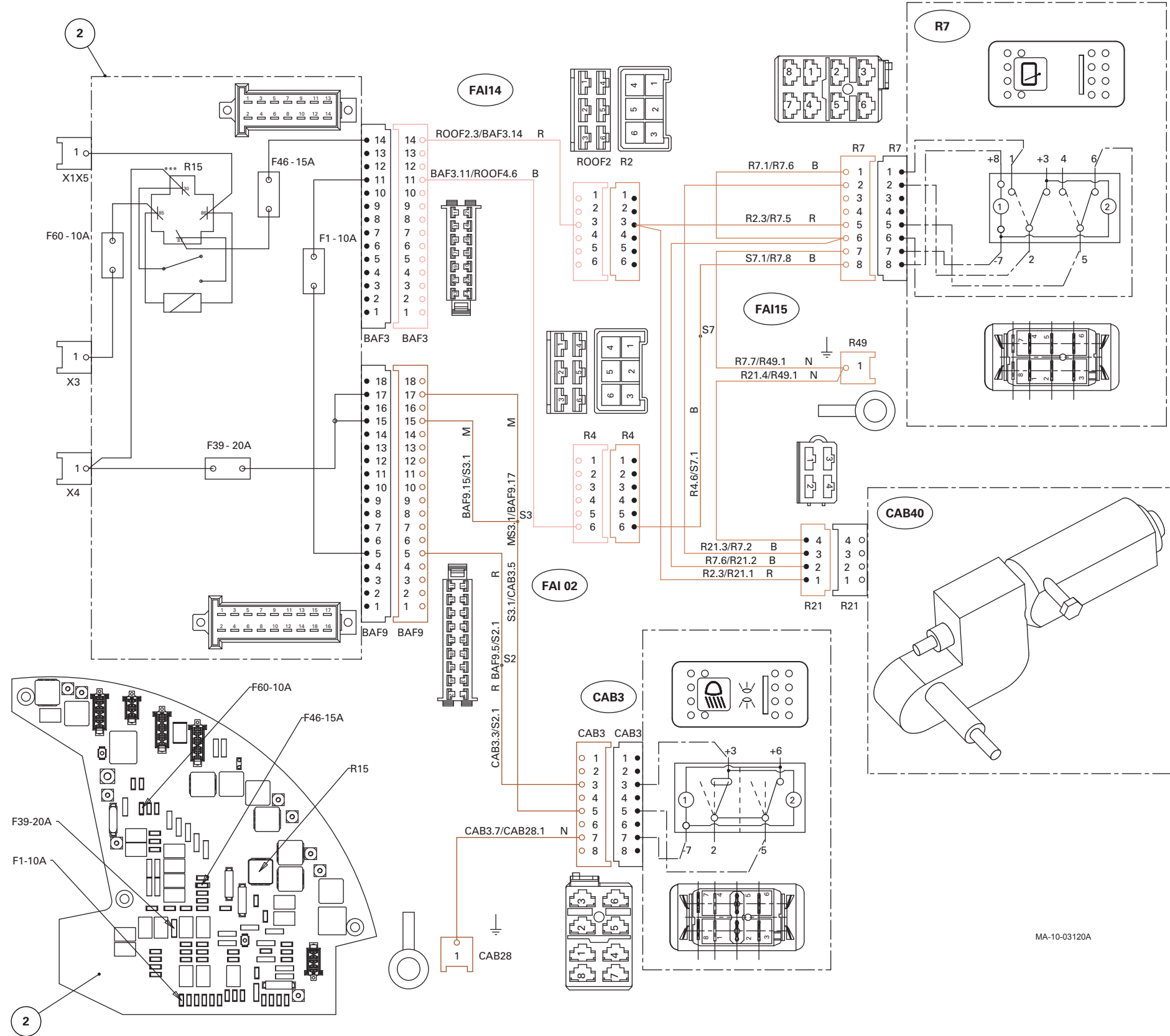
- 2 Fuse box
- FAI 15 Roof harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch
- R7 Rear windscreen wiper switch
- R21 Rear windscreen wiper motor



ELECTRICAL DIAGRAMS - Cab equipment

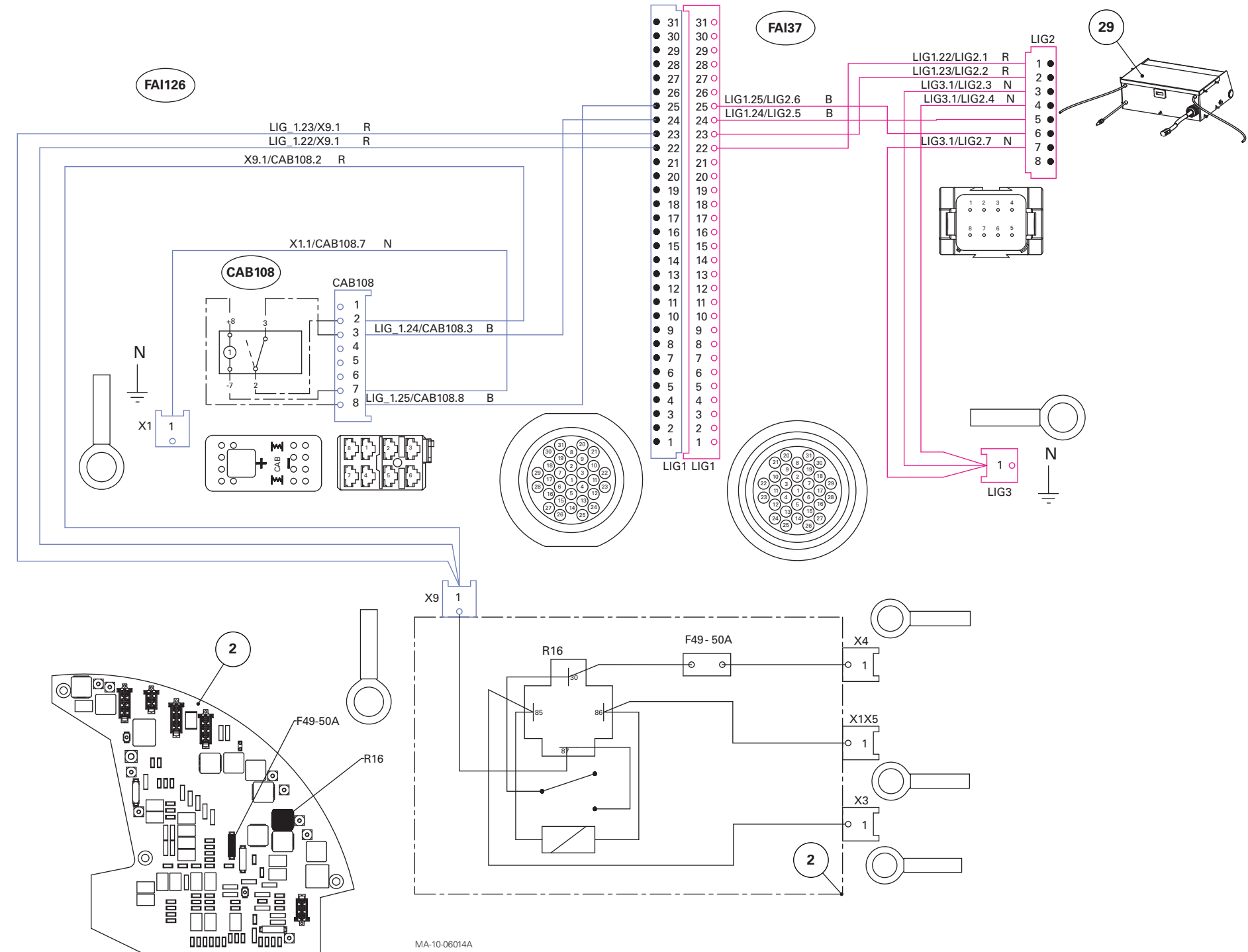
Rear windscreen wiper (GBA20 and GBA10)

- 2 Fuse box
- FAI 02 Instrument panel harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- CAB3 Road lights switch
- CAB40 Rear windscreen wiper motor
- R7 Rear windscreen wiper switch



Cab suspension (GBA25 and GBA10-Auto5)

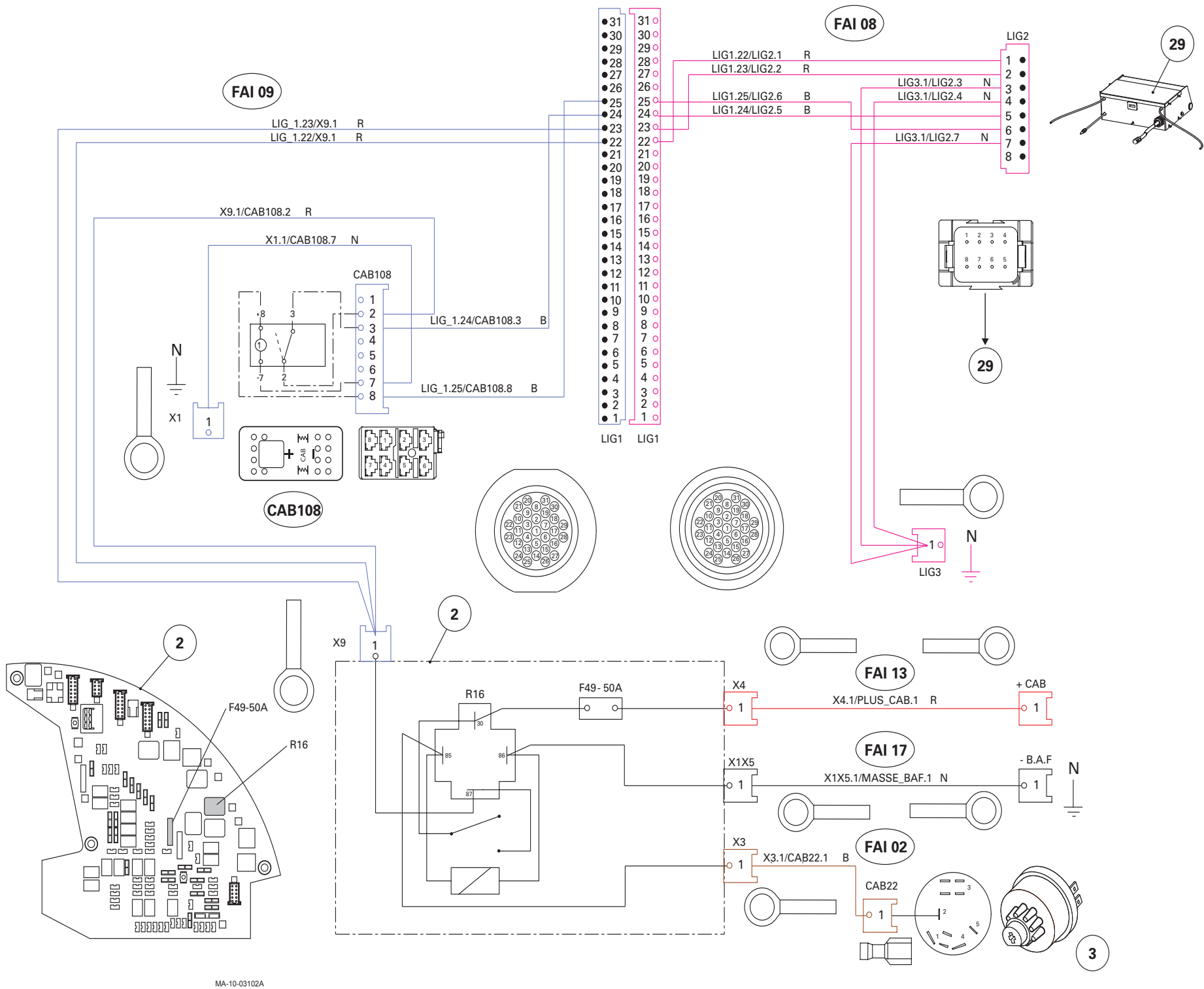
- 2 Fuse box
- 29 Control unit
- FAI 37 Fender lighting harness
- FAI 126 Lighting harness—Europe
- CAB108 Suspended cab switch



ELECTRICAL DIAGRAMS - Cab equipment

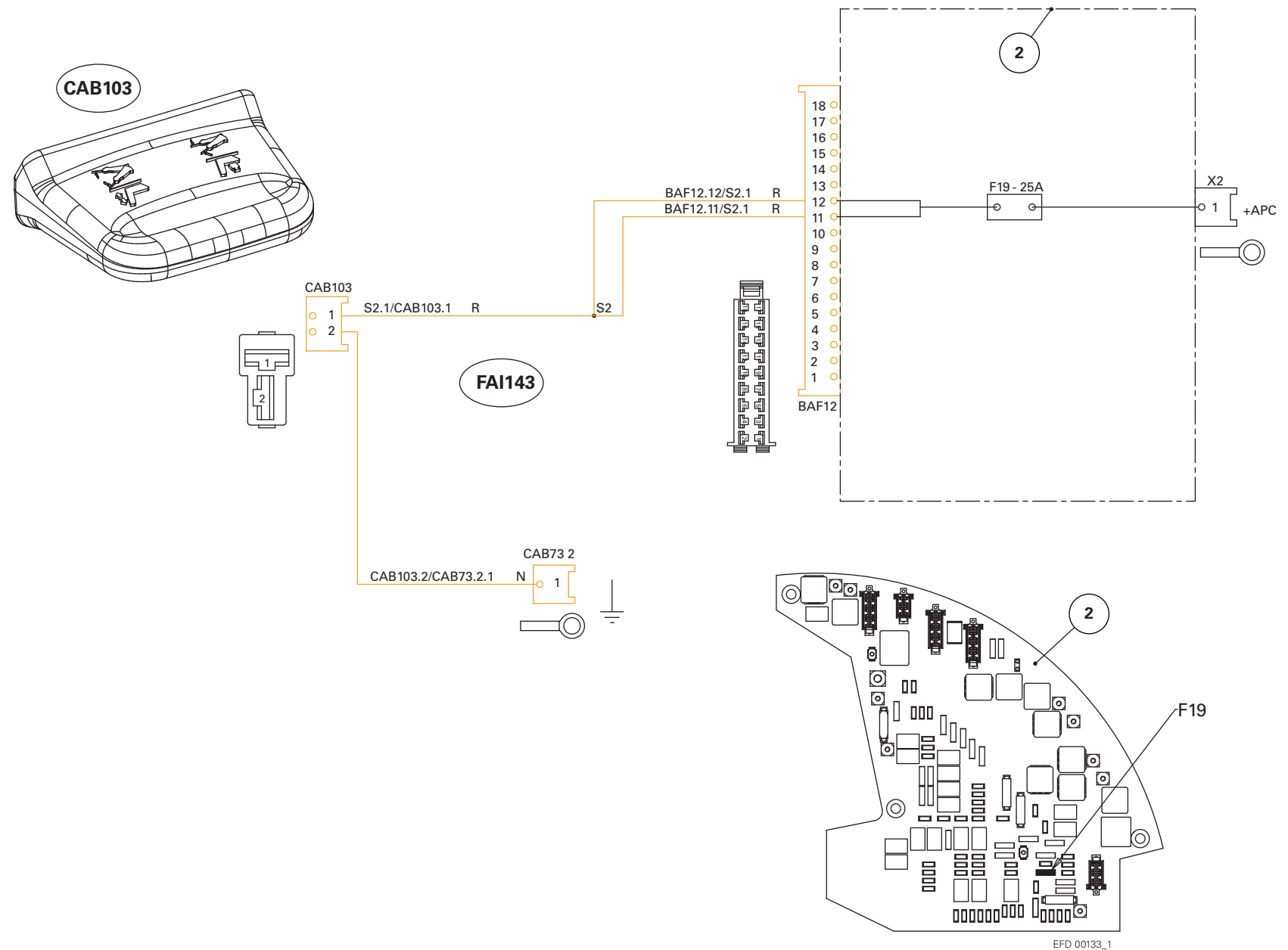
Cab suspension (GBA20 and GBA10)

- 2 Fuse box
- 3 Start switch
- 29 Control unit
- FAI 02 Instrument panel harness
- FAI 08 Lighting harness
- FAI 09 Cab interior lighting harness
- FAI 13 Fuse box supply harness
- FAI 17 BAF earth harness
- CAB108 Suspended cab switch



Pneumatic seat (GBA25 and GBA10-Auto5)

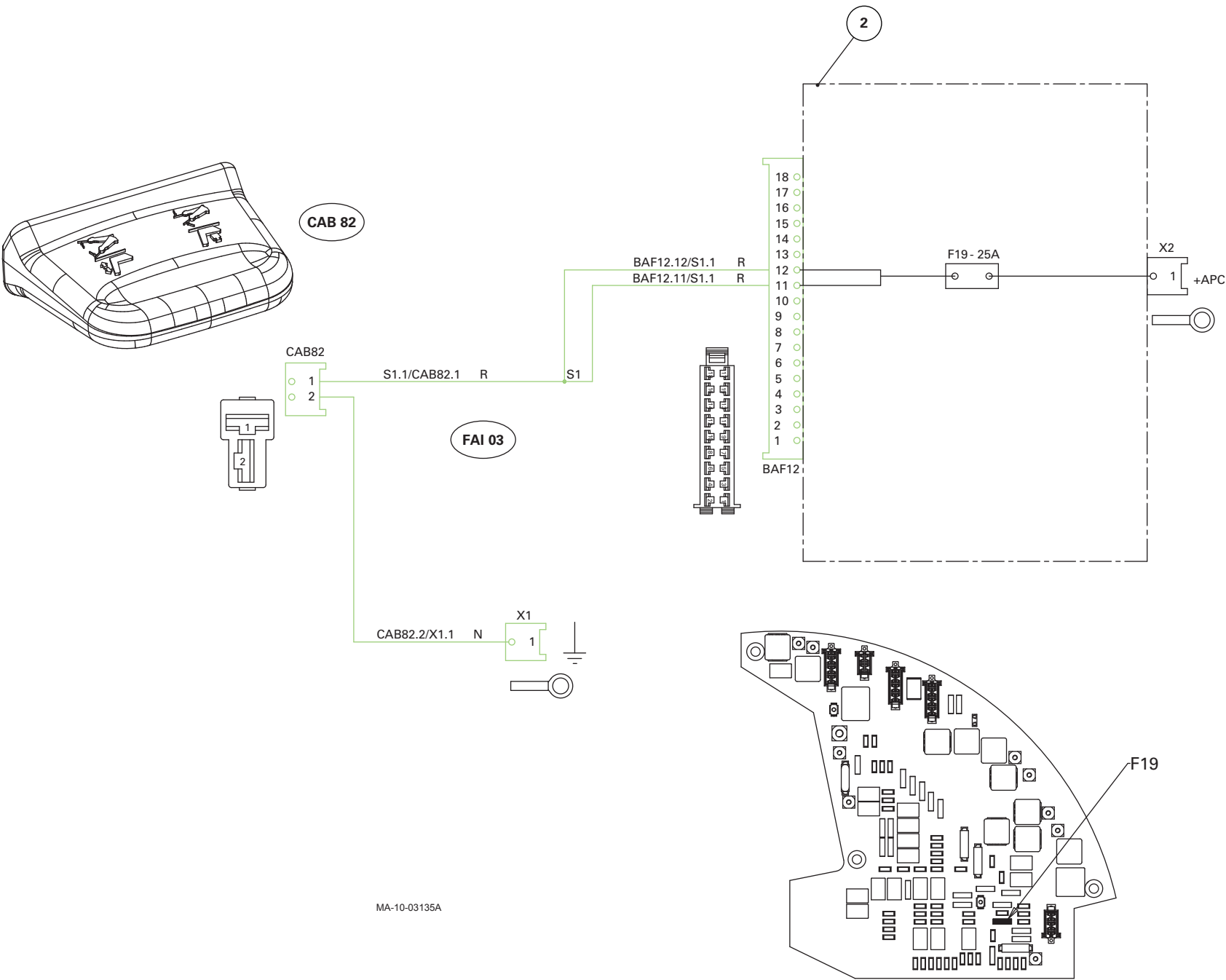
2 Fuse box
FAI 143 Dyna-6 cab transmission harness
CAB103 Pneumatic seat adjustment control



ELECTRICAL DIAGRAMS - Cab equipment

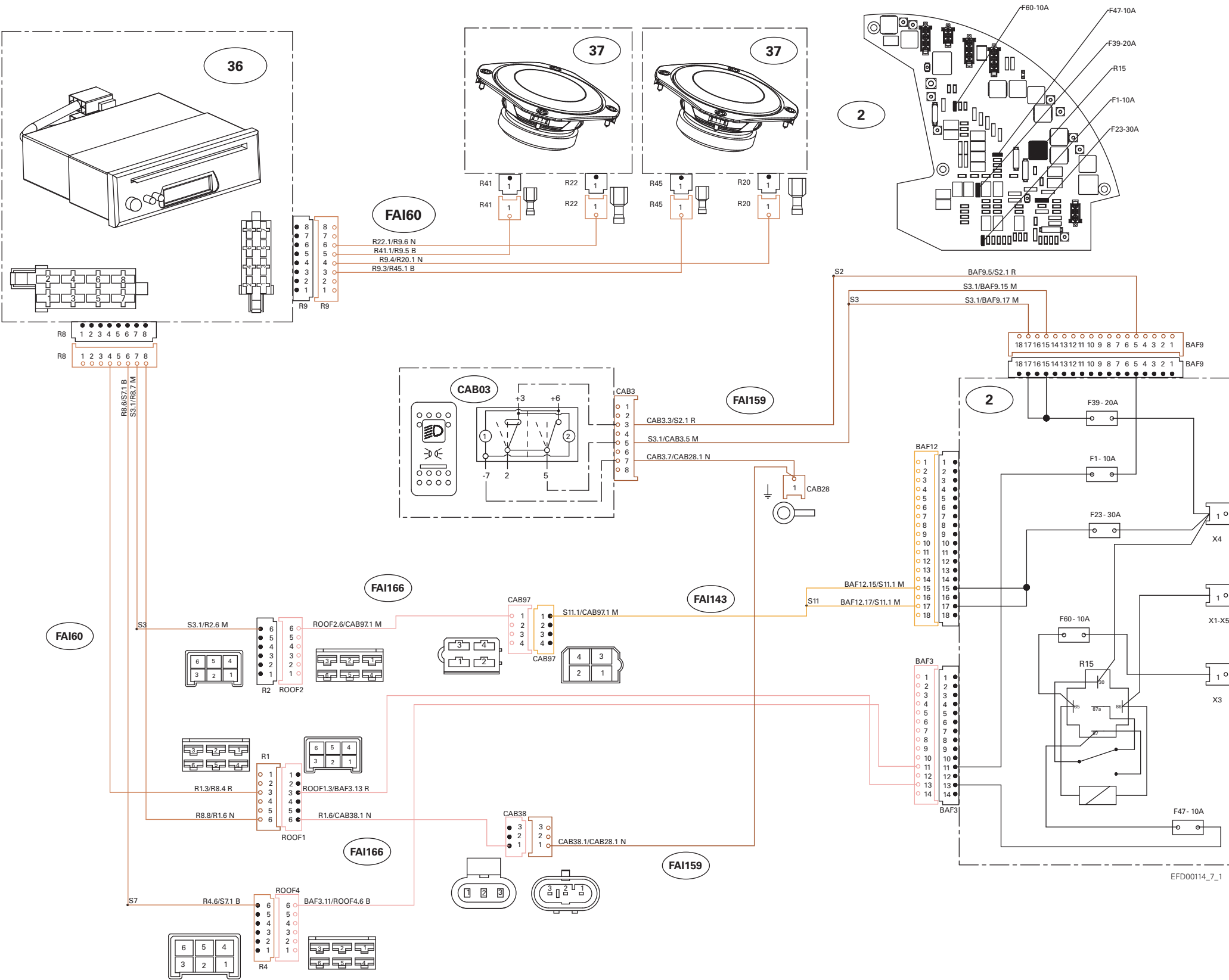
Pneumatic seat (GBA20 and GBA10)

- 2 Fuse box
- FAI 03 Dynashift console harness
- CAB82 Pneumatic seat adjustment control



Radio—Europe (except Germany) (GBA25 and GBA10-Auto5)

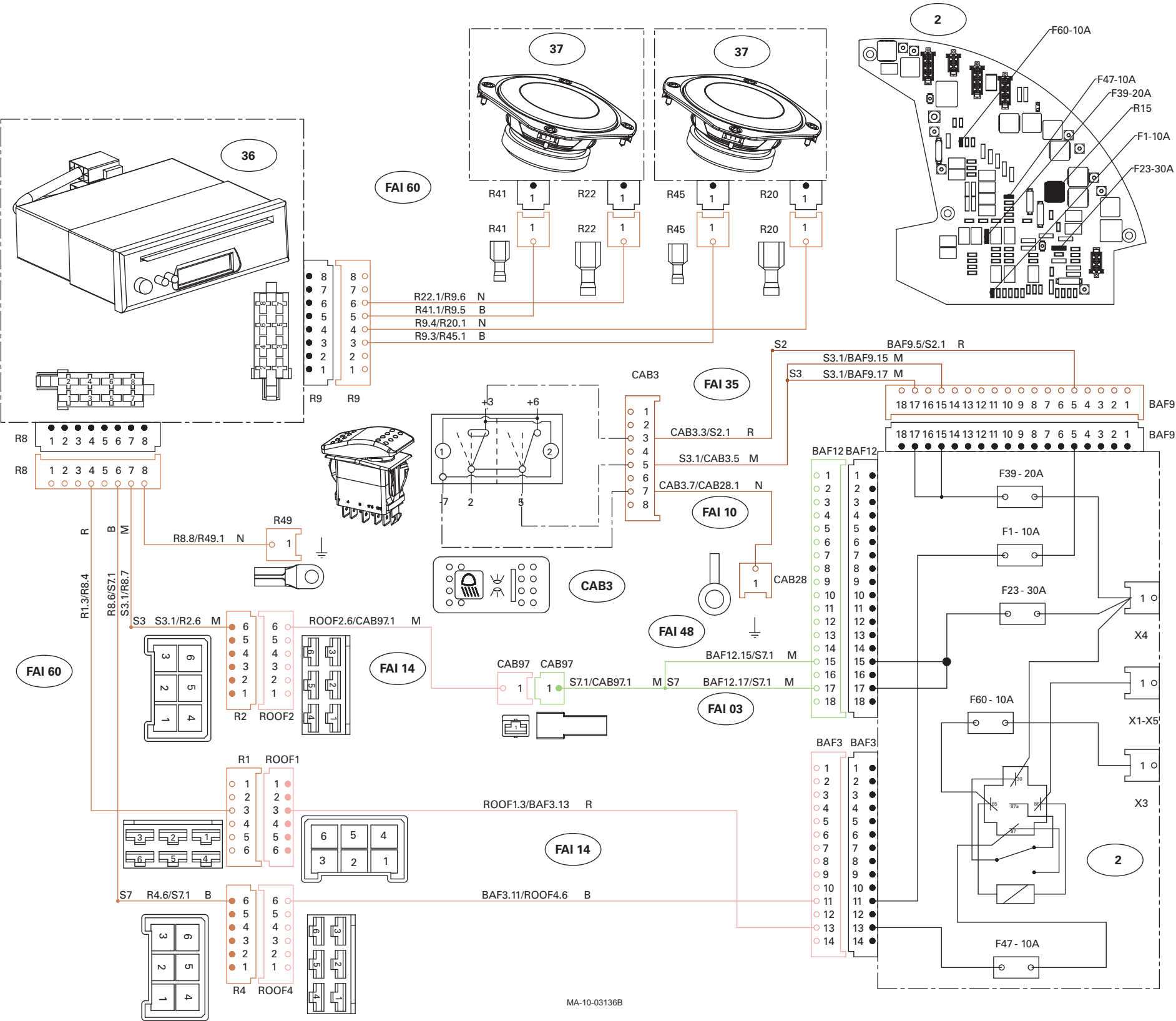
- 2 Fuse box
- 36 CD/radio
- 37 Speaker
- FAI 60 Roof harness (all countries except US)
- FAI 143 Cab transmission harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch



ELECTRICAL DIAGRAMS - Cab equipment

Radio—Europe (except Germany) (GBA20 and GBA10)

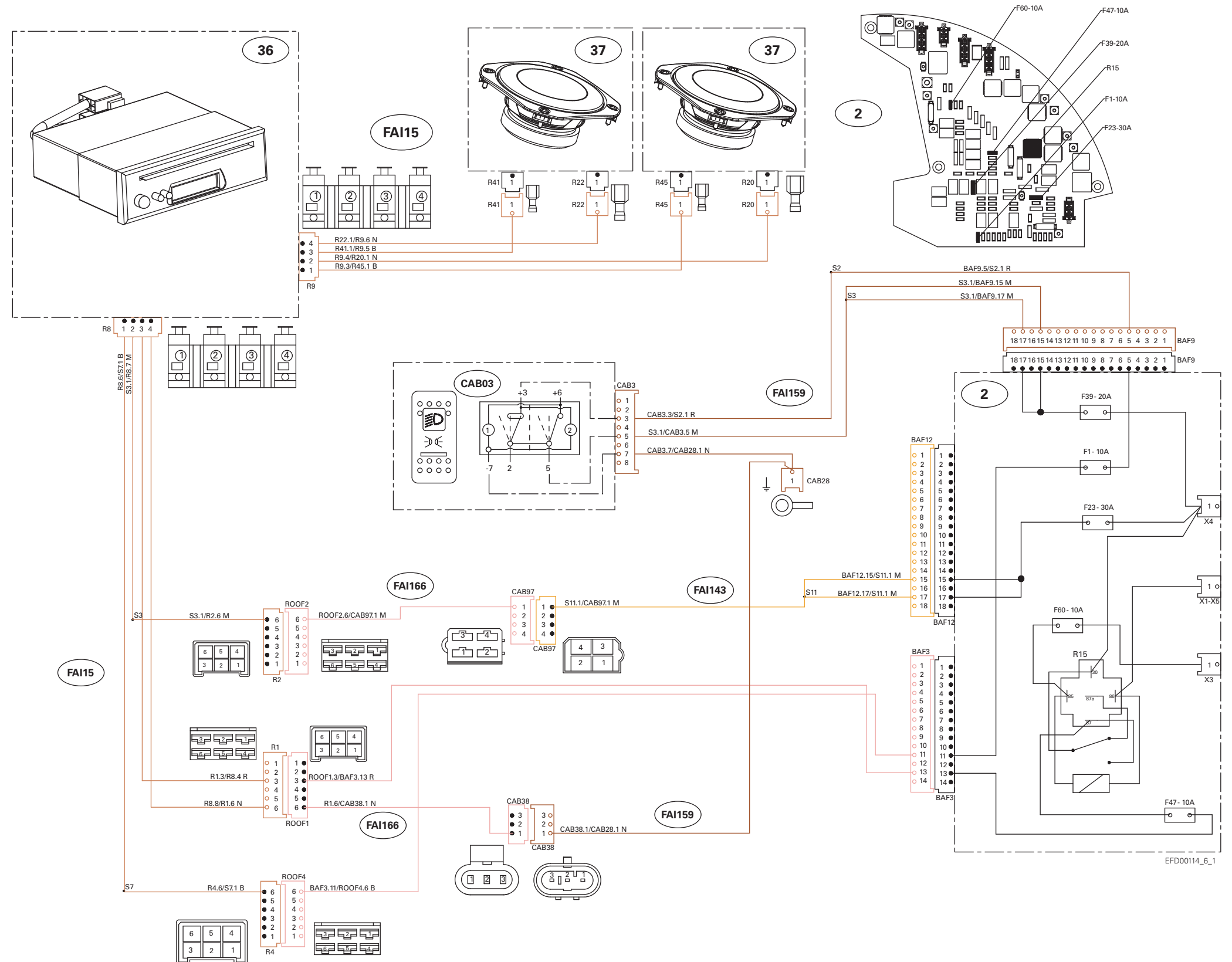
- 2 Fuse box
- 36 CD/radio
- 37 Speaker
- FAI 14 Pillar harness
- FAI 10 Dynashift with EEM instrument panel harness
- FAI 03 Dynashift console harness
- FAI 60 Roof harness (all countries except US)
- CAB3 Road lights switch



ELECTRICAL DIAGRAMS - Cab equipment

Radio—North America (GBA25 and GBA10-Auto5)

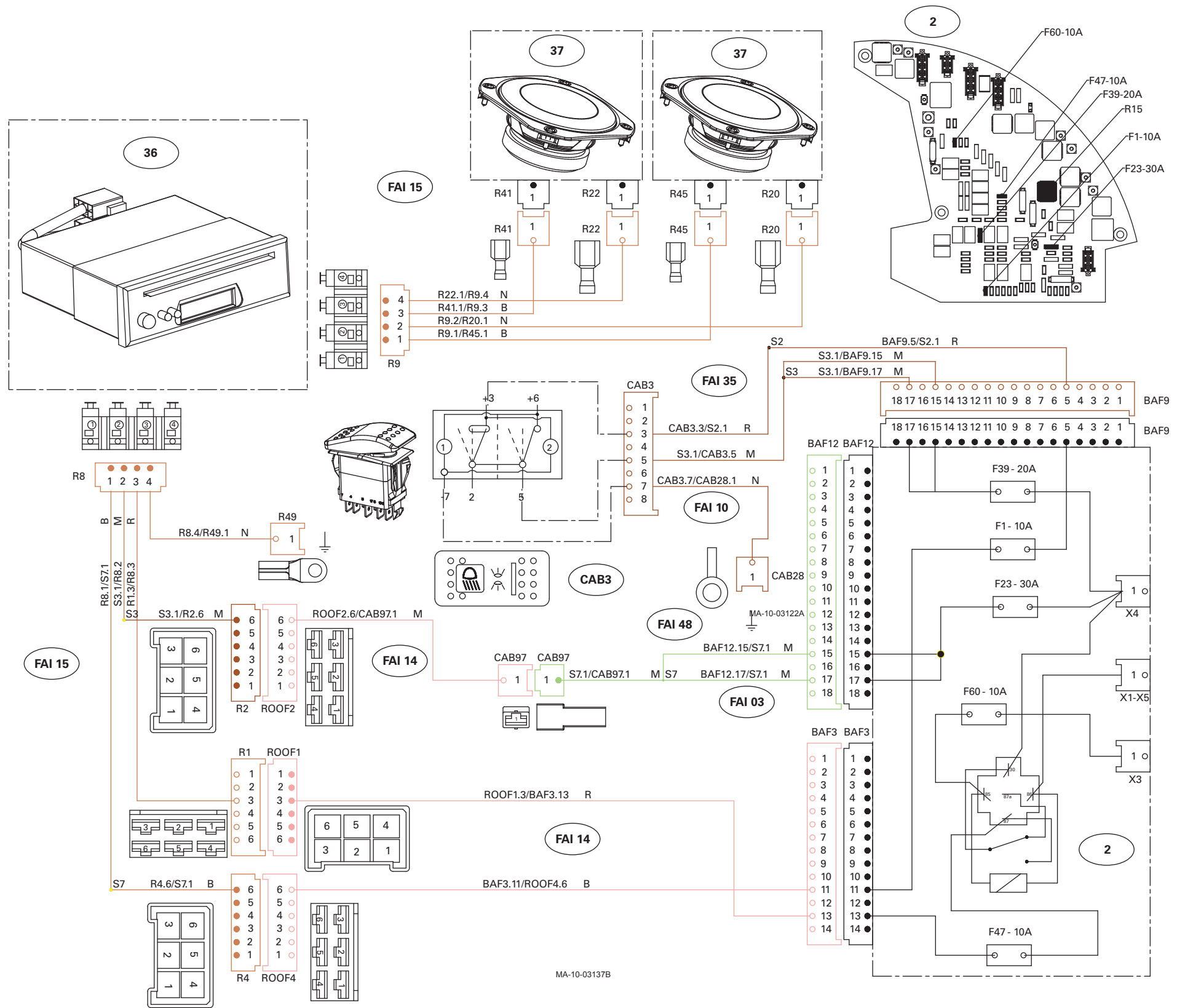
- | | |
|---------|--------------------------|
| 2 | Fuse box |
| 36 | CD/radio |
| 37 | Speaker |
| FAI 15 | Roof harness |
| FAI 143 | Cab transmission harness |
| FAI 159 | Instrument panel harness |
| FAI 166 | Pillar harness |
| CAB03 | Road lights switch |



ELECTRICAL DIAGRAMS - Cab equipment

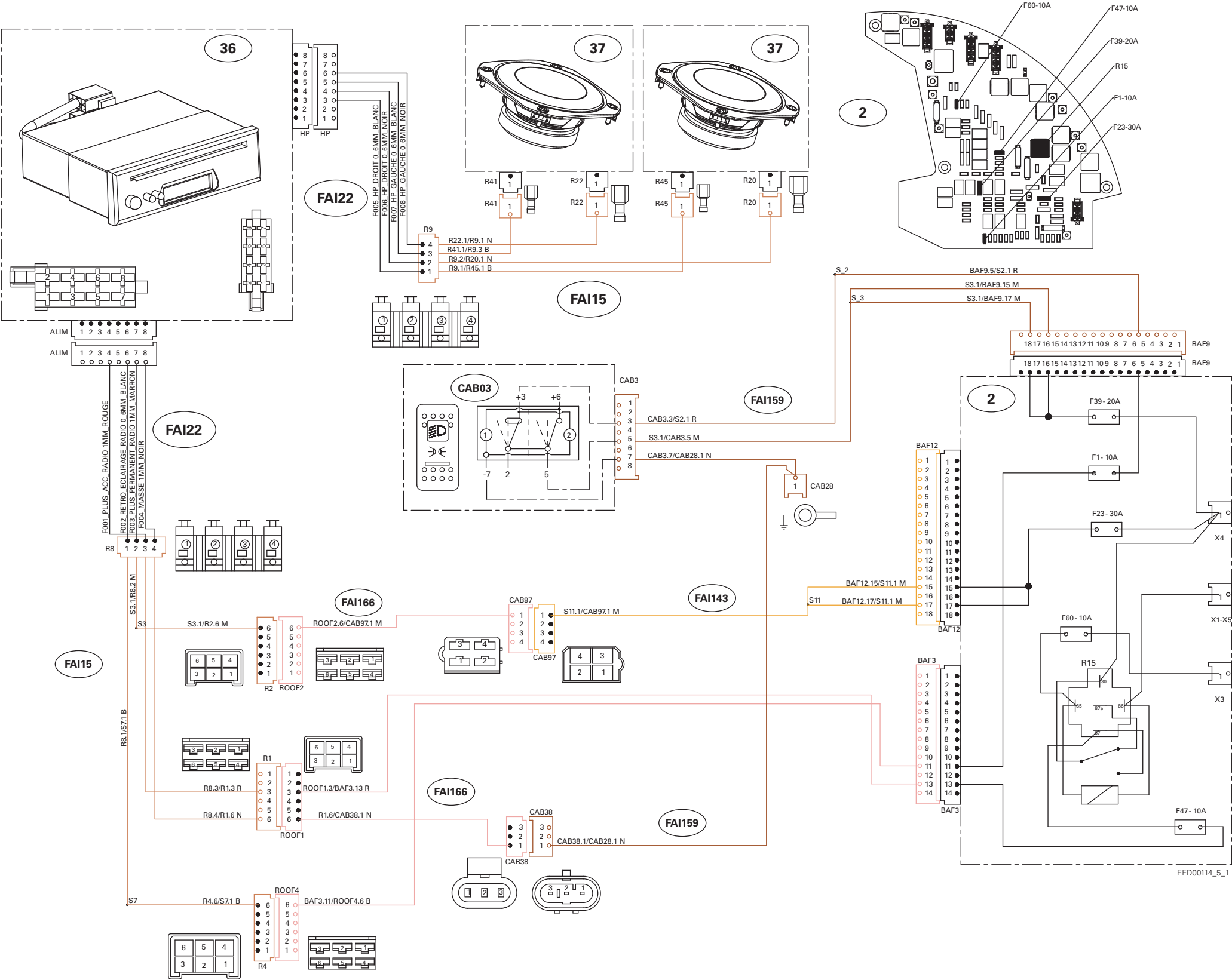
Radio—North America (GBA20 and GBA10)

- 2 Fuse box
- 36 CD/radio
- 37 Speaker
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 10 Dynashift with EEM—instrument panel harness
- FAI 03 Dynashift console harness
- CAB3 Road lights switch



Radio—Germany (GBA25 and GBA10-Auto5)

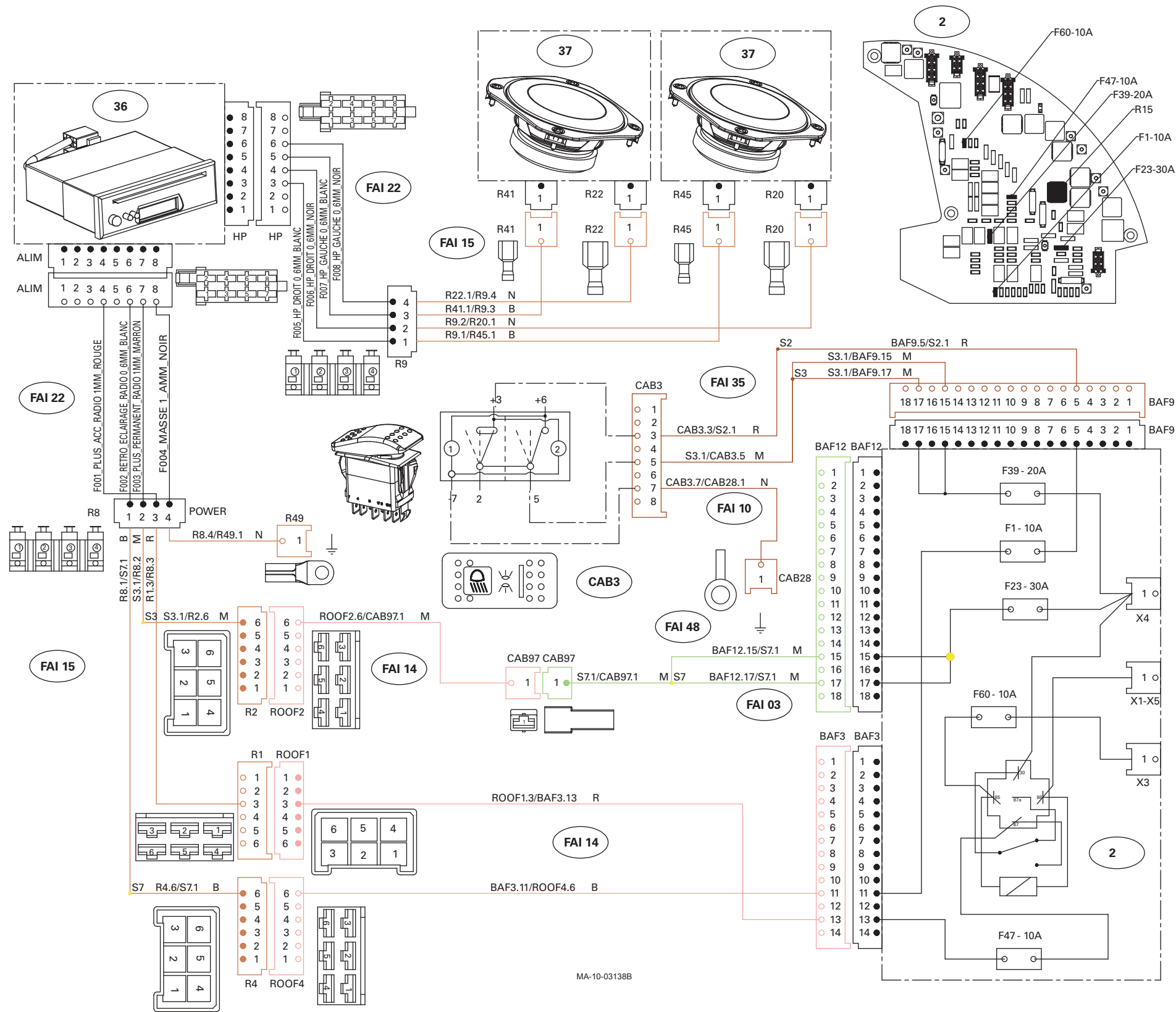
- 2 Fuse box
- 36 CD/radio
- 37 Speaker
- FAI 15 Roof harness
- FAI 22 Radio harness
- FAI 143 Cab transmission harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch



ELECTRICAL DIAGRAMS - Cab equipment

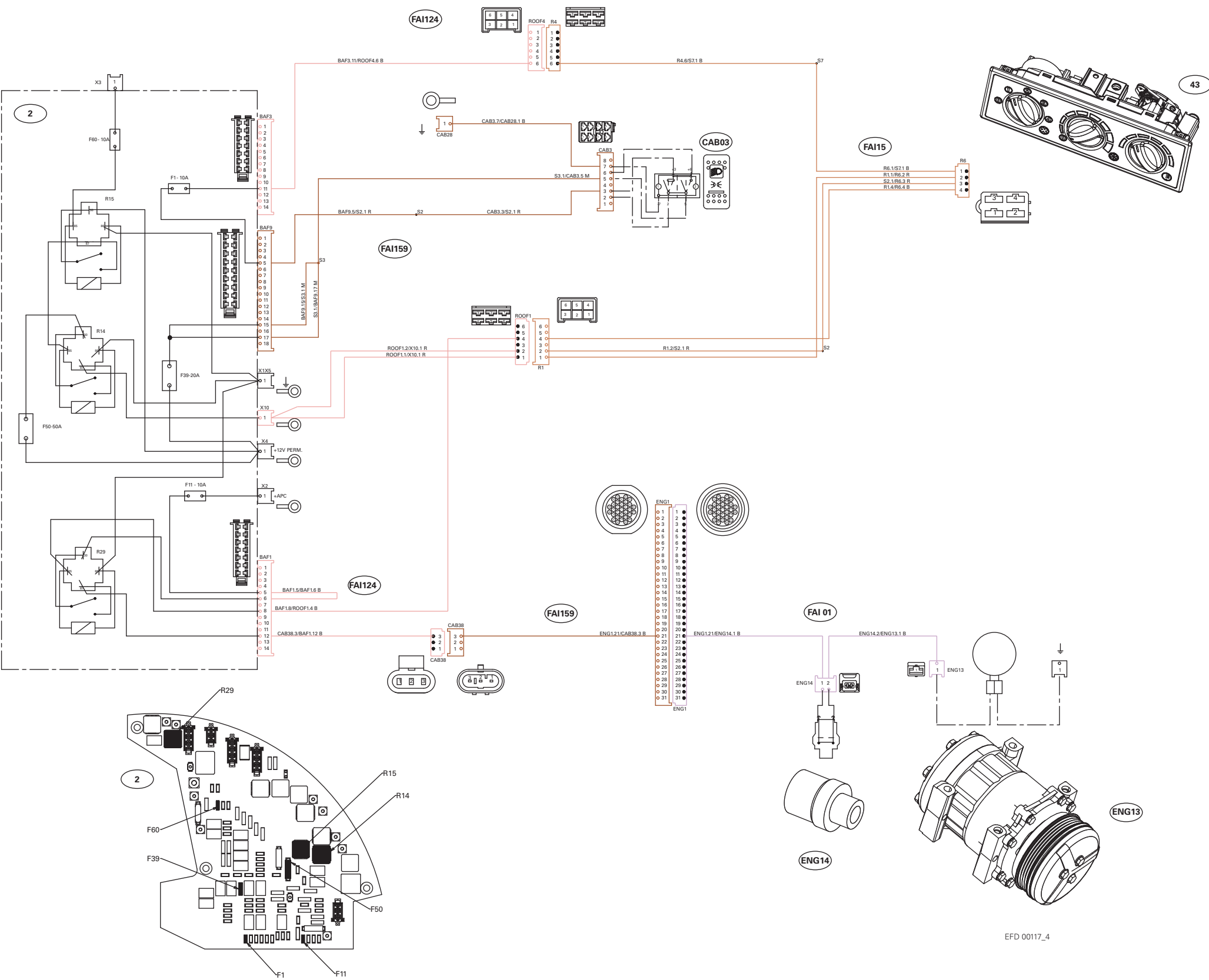
Radio—Germany (GBA20 and GBA10)

- 2 Fuse box
- 36 CD/radio
- 37 Speaker
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 22 Radio harness
- FAI 10 Dynashift with EEM instrument panel harness
- FAI 03 Dynashift console harness
- CAB3 Road lights switch



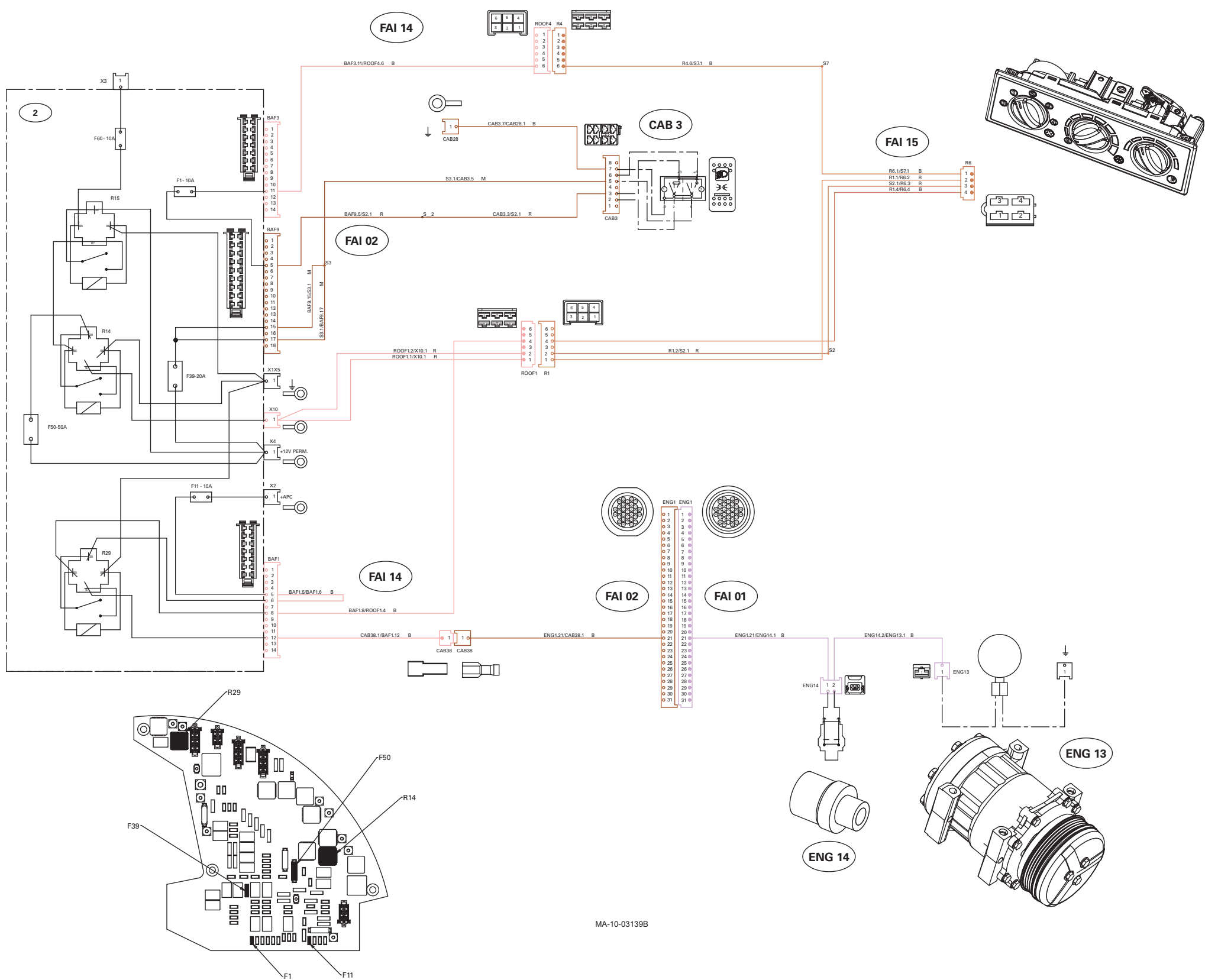
Manual air conditioning—standard roof
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- ENG13 Compressor electromagnetic clutch
- ENG14 Air conditioning condenser pressure switch
- R6 Air conditioning control



Manual air conditioning—standard roof
(GBA20 and GBA10)

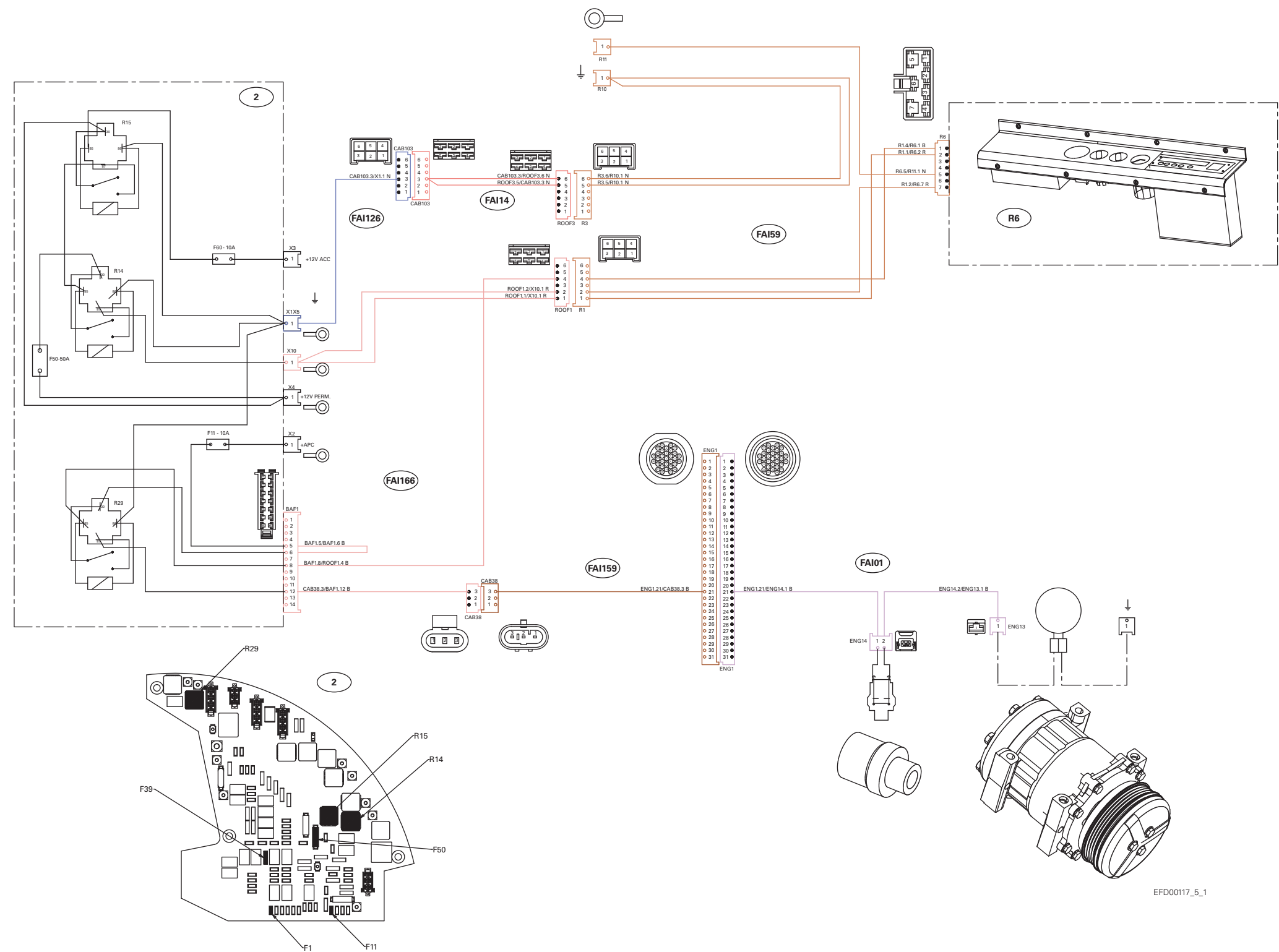
- 2 Fuse box
- 43 Manual air conditioning box
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- CAB3 Road lights switch
- ENG13 Compressor electromagnetic clutch
- ENG14 Air conditioning condenser pressure switch



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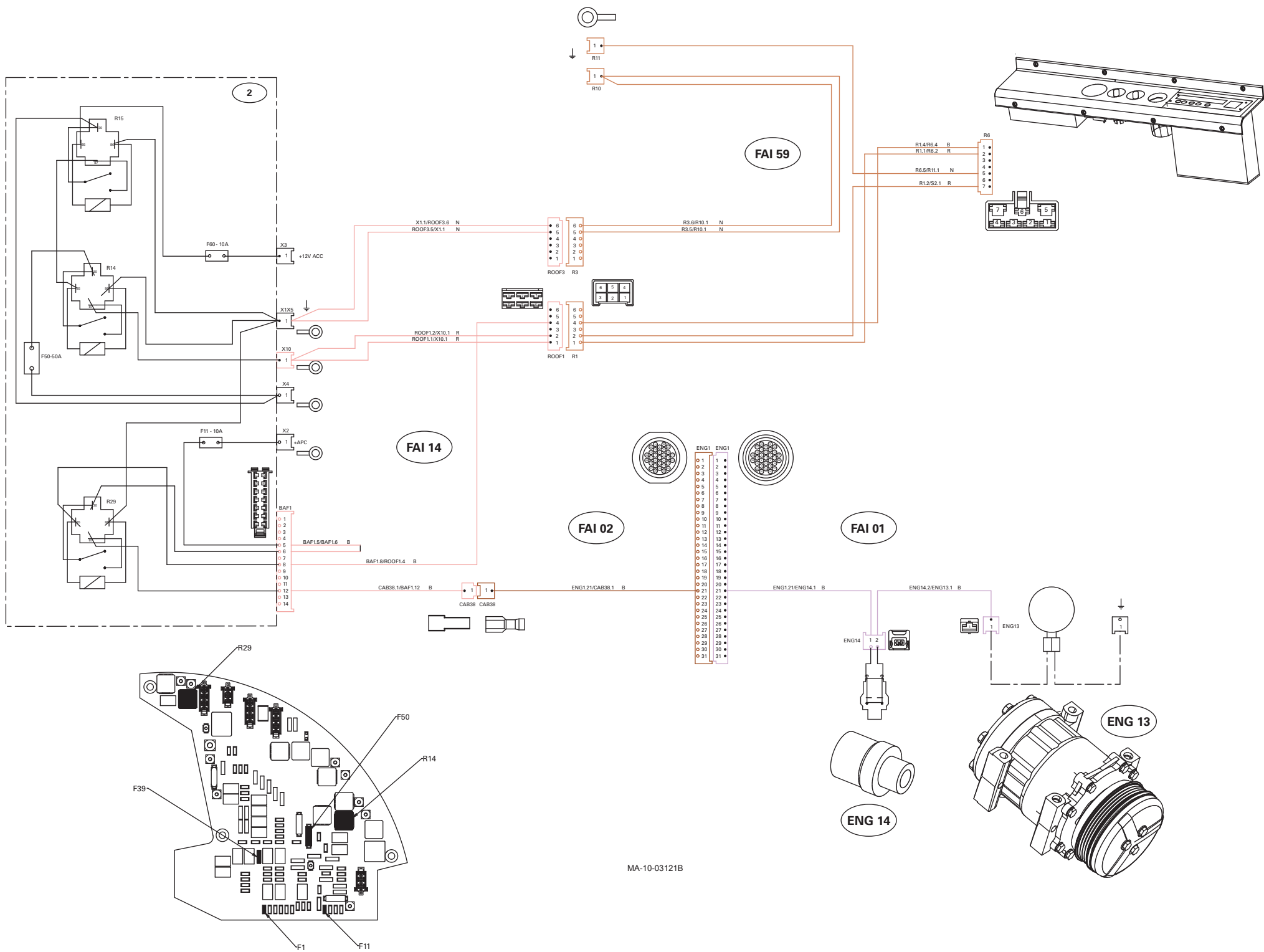
Manual air conditioning—high-visibility roof (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 14 Pillar harness
- FAI 59 High-visibility roof harness
- FAI 126 Cab interior lighting harness (all countries except US)
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- ENG13 Compressor electromagnetic clutch
- ENG14 Air conditioning condenser pressure switch
- R6 Air conditioning control



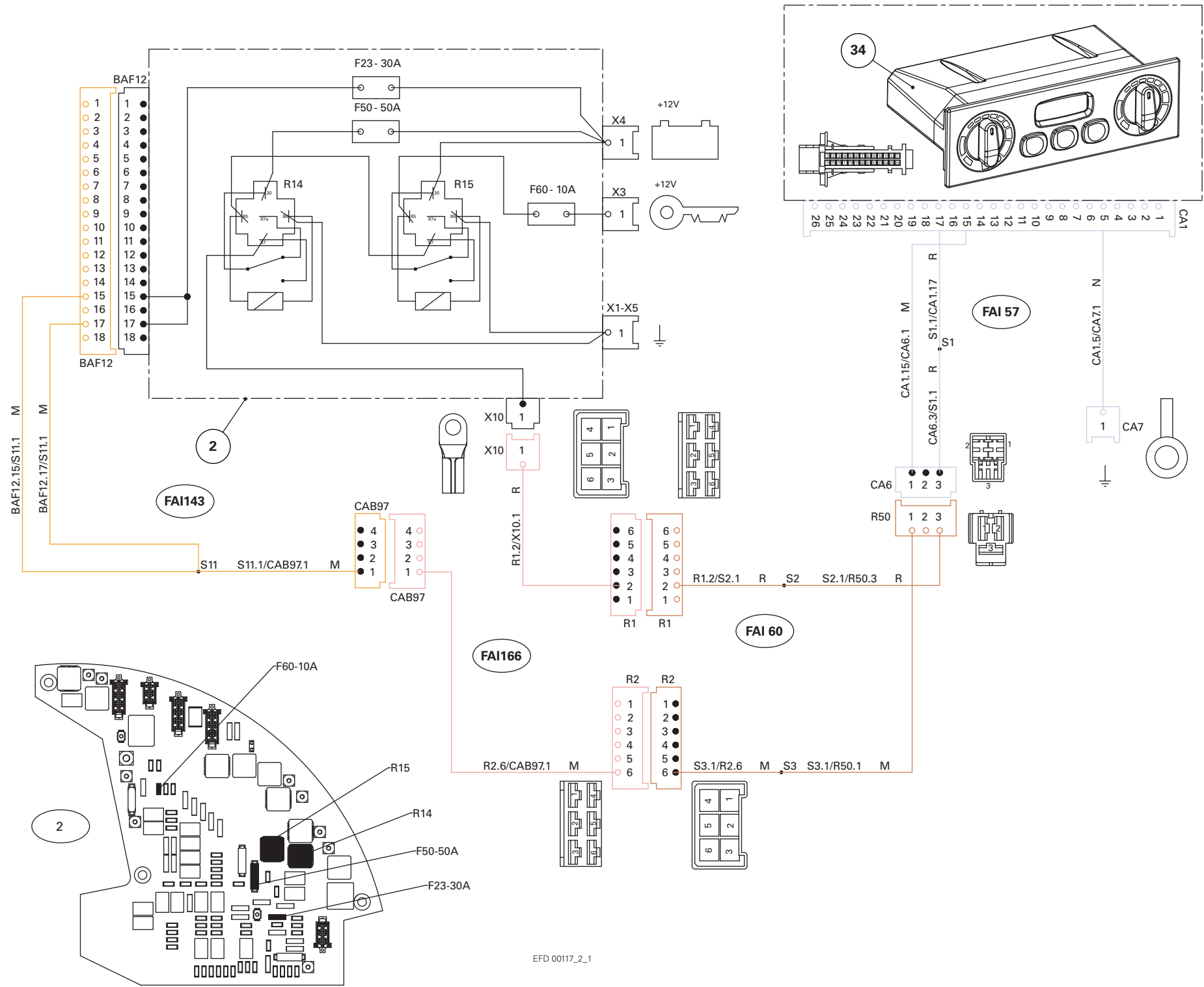
Manual air conditioning—high-visibility roof (GBA20 and GBA10)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 14 Pillar harness
- FAI 59 High-visibility roof harness
- CAB3 Road lights switch
- ENG13 Compressor electromagnetic clutch
- ENG14 Air conditioning condenser pressure switch



Automatic air conditioning unit supply
(GBA25 and GBA10-Auto5)

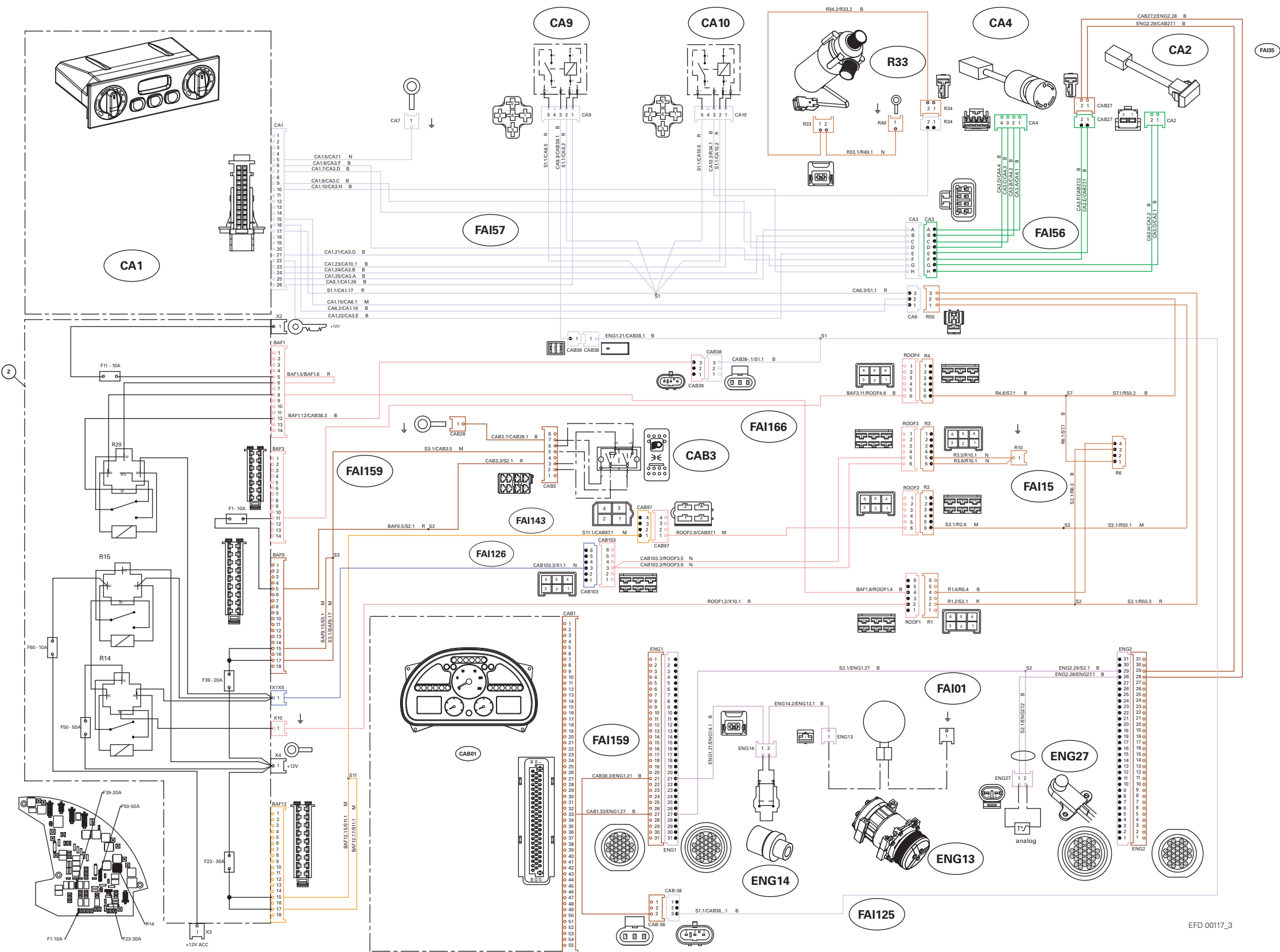
- 2 Fuse box
- 34 Automatic air conditioning control unit
- FAI 57 Automatic air conditioning harness—roof
- FAI 60 Roof harness (all countries except US)
- FAI 143 Cab transmission harness
- FAI 166 Pillar harness



ELECTRICAL DIAGRAMS - Cab equipment

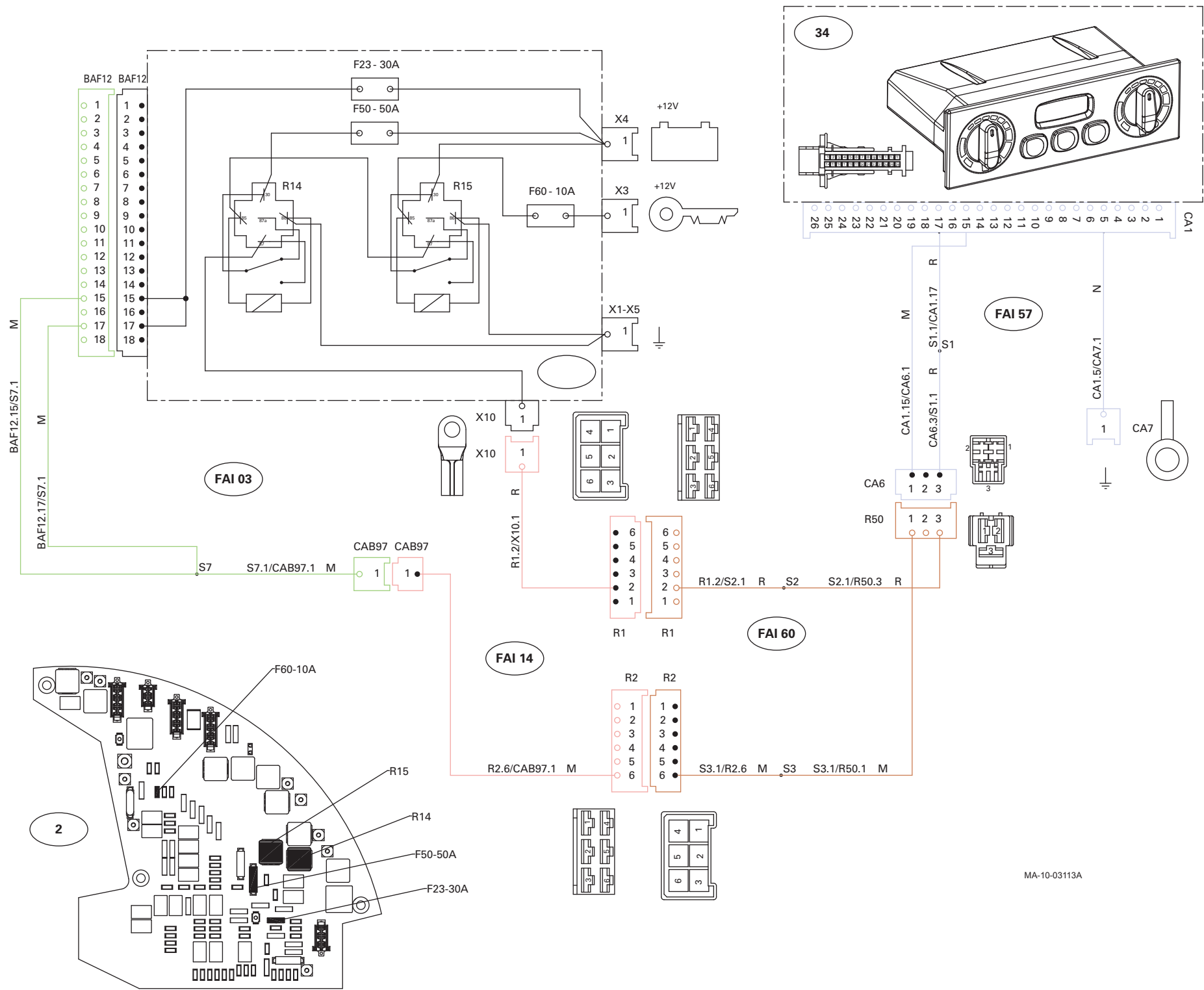
Automatic air conditioning (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 34 Automatic air conditioning control unit
- FAI 01 Engine harness
- FAI 15 Roof harness
- FAI 56 Automatic air conditioning harness—instrument panel
- FAI 57 Automatic air conditioning harness—roof
- FAI 60 Roof harness (all countries except US)
- FAI 125 Automatic air conditioning adapter harness
- FAI 126 Cab interior lighting harness (all countries except US)
- FAI 143 Dyna-6 cab transmission harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- ENG13 Compressor electromagnetic clutch
- ENG14 Air conditioning condenser pressure switch
- ENG27 Outside temperature sensor



Automatic air conditioning without circuit breaker (GBA20 and GBA10)

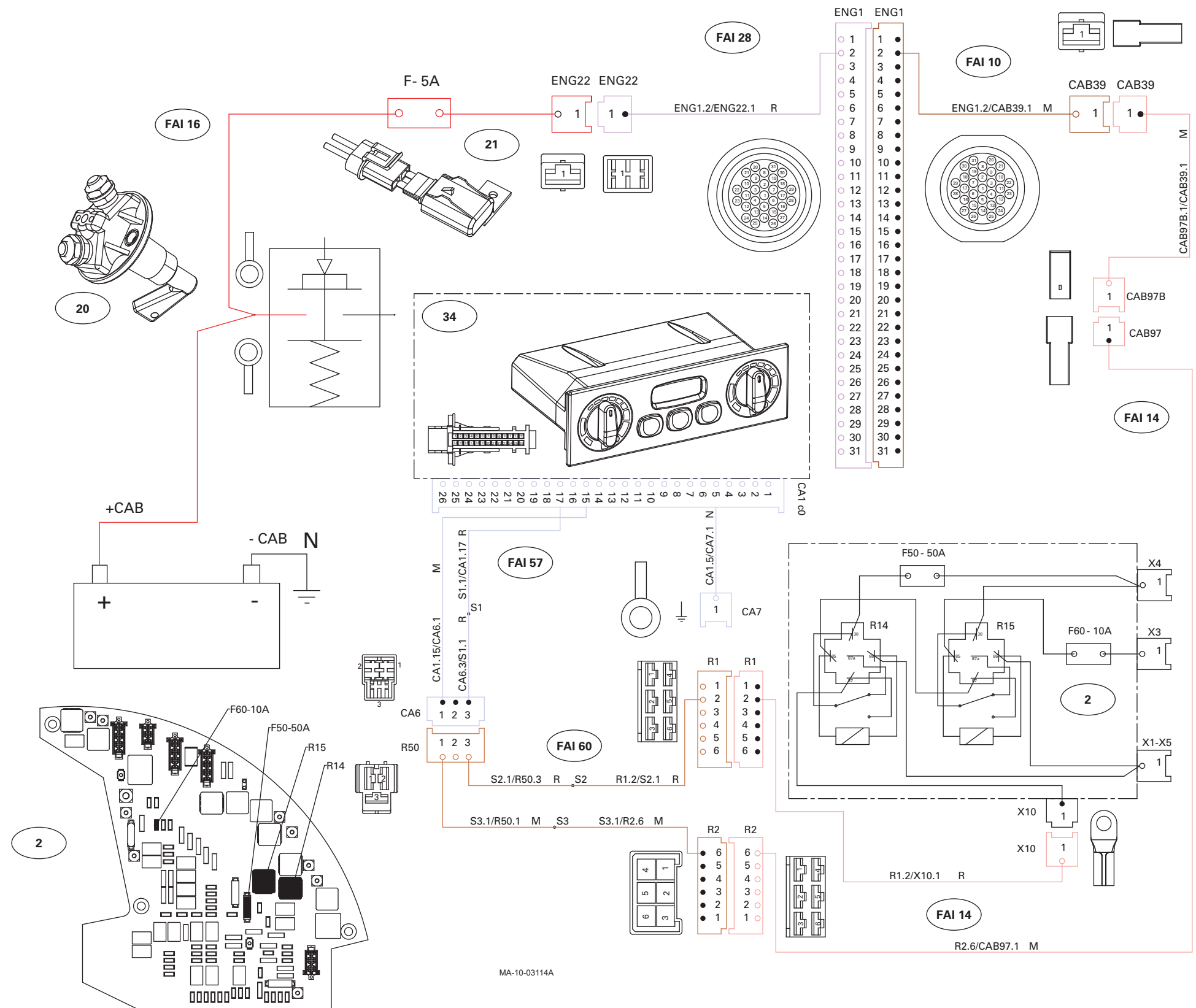
- 2 Fuse box
- 34 Automatic air conditioning control unit
- FAI 03 Dynashift console harness
- FAI 14 Pillar harness
- FAI 57 Automatic air conditioning harness—roof
- FAI 60 Roof harness (all countries except US)



ELECTRICAL DIAGRAMS - Cab equipment

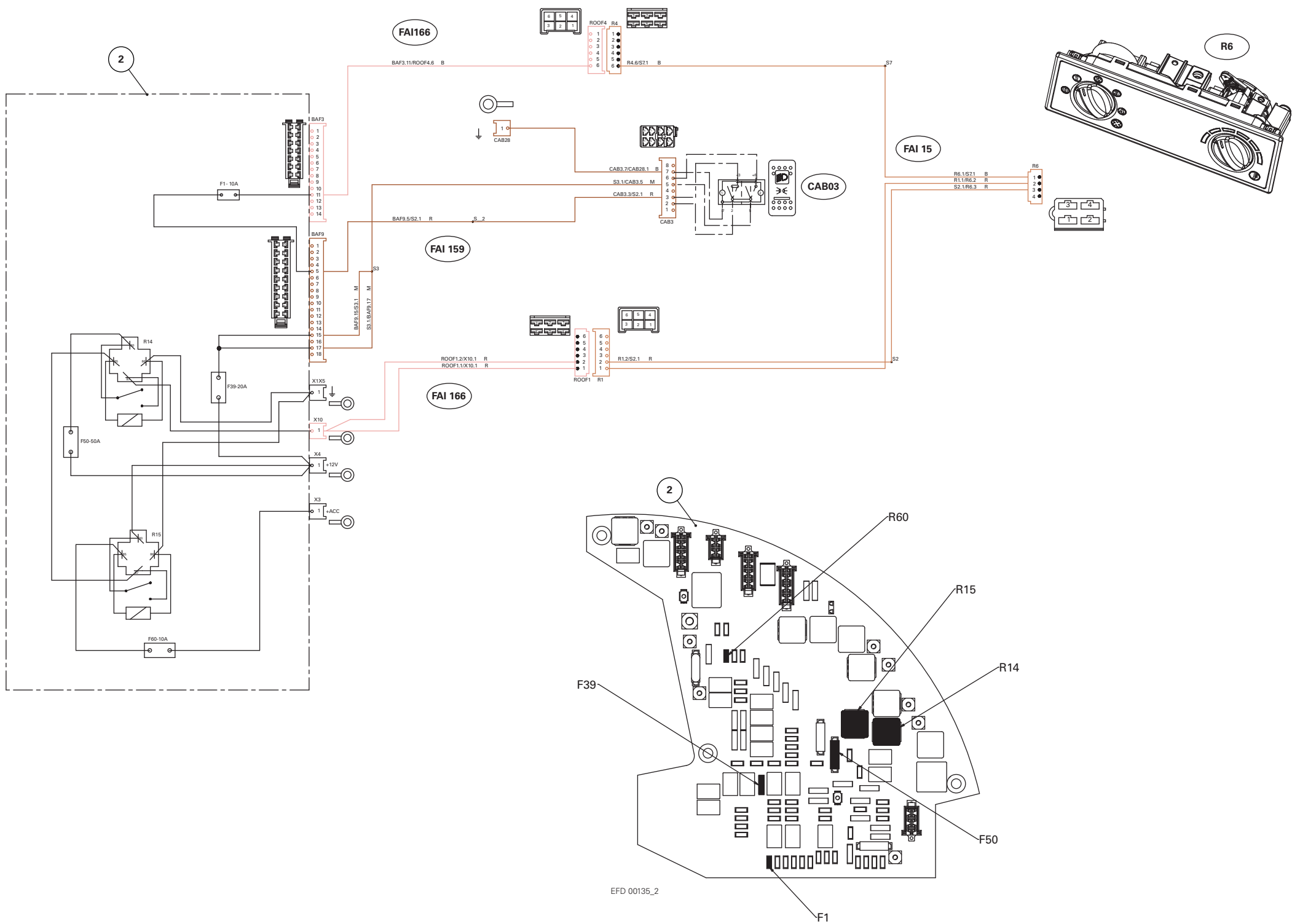
Automatic air conditioning with circuit breaker (GBA20 and GBA10)

- | | |
|--------|---|
| 2 | Fuse box |
| 20 | Circuit breaker |
| 21 | Line fuse |
| 34 | Automatic air conditioning control unit |
| FAI 10 | Dynashift with EEM—instrument panel harness |
| FAI 14 | Pillar harness |
| FAI 16 | Circuit breaker harness |
| FAI 28 | EEM Perkins engine harness |
| FAI 57 | Automatic air conditioning harness—roof |
| FAI 60 | Roof harness (all countries except US) |



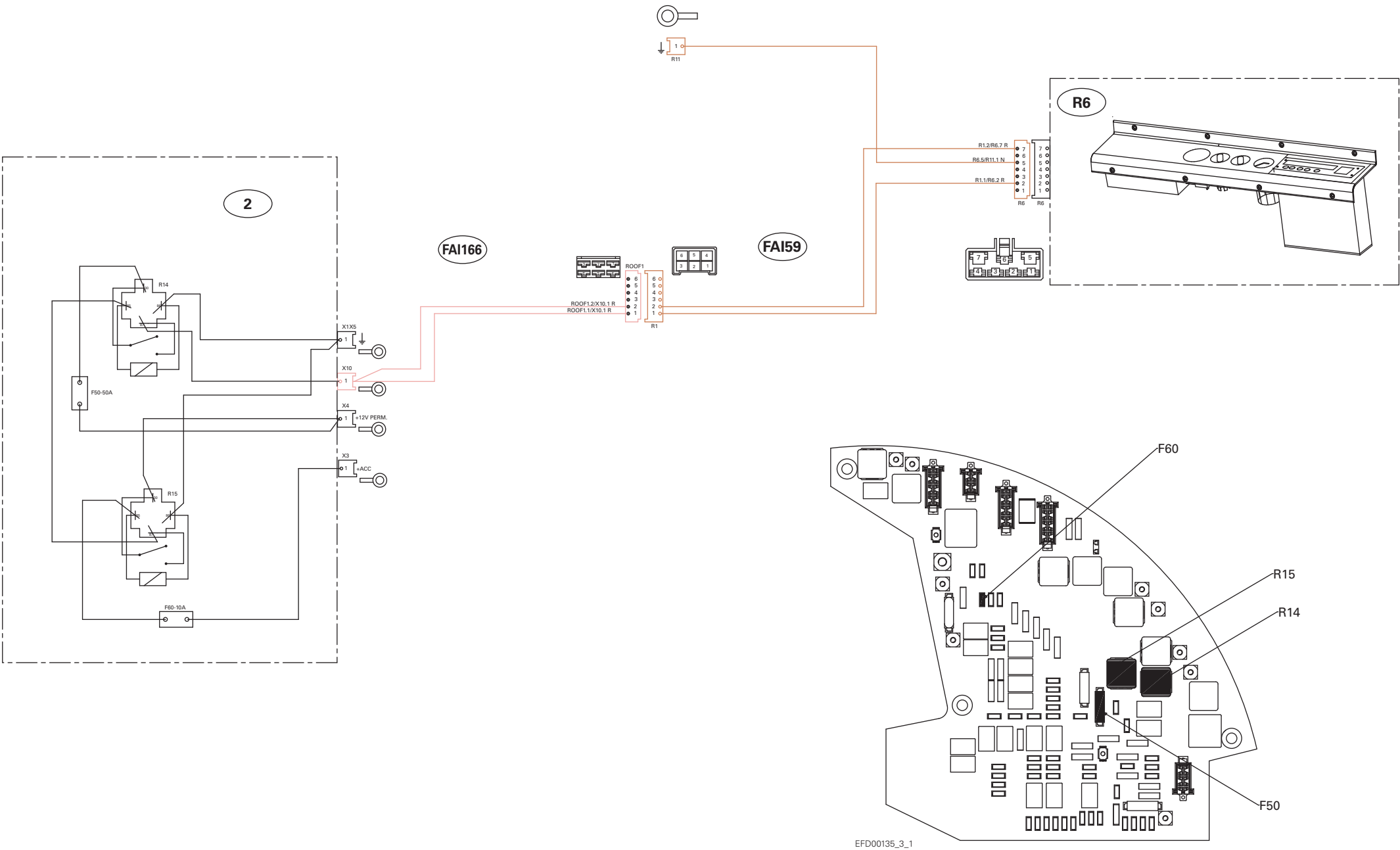
Standard ventilation—standard roof
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 15 Roof harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch
- R6 Ventilation control



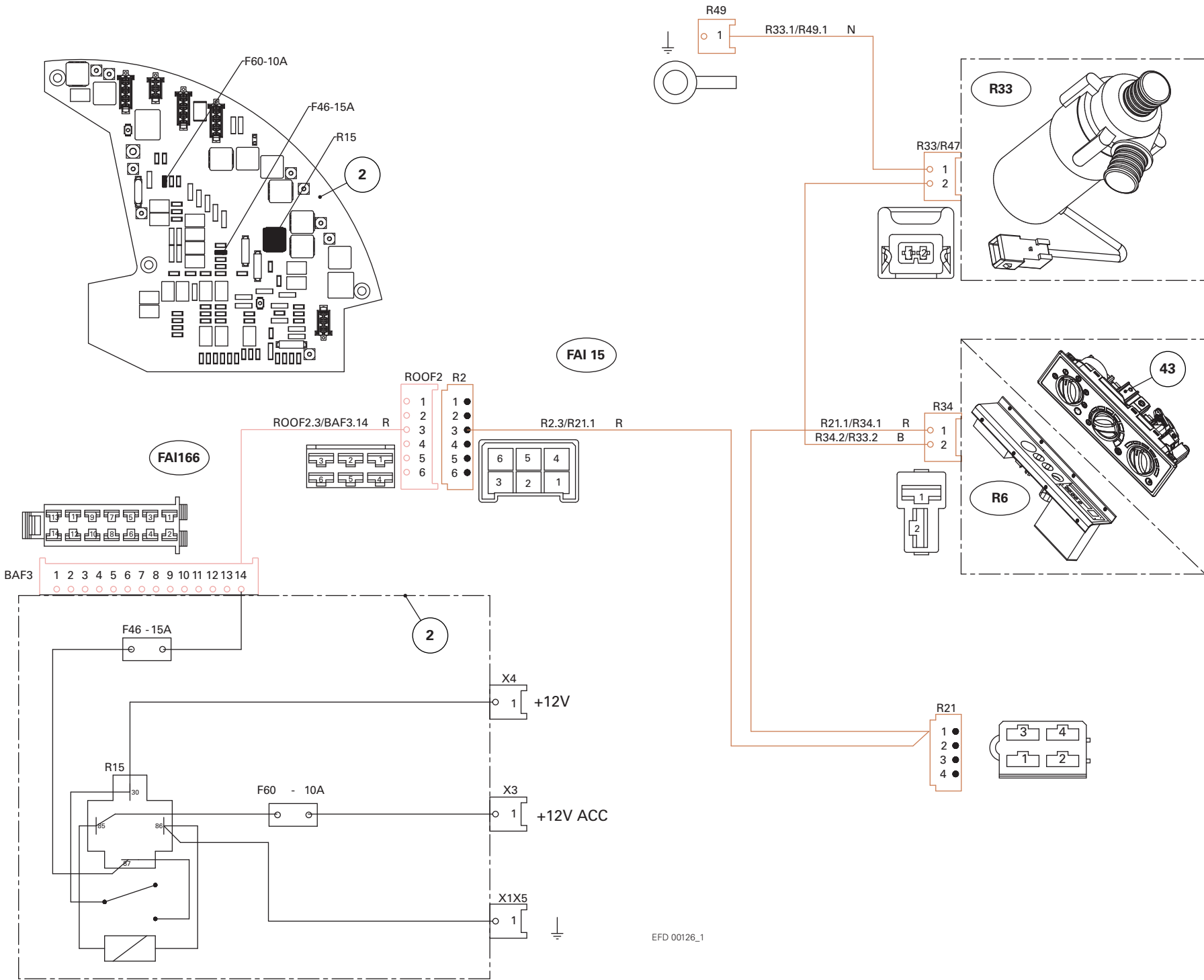
Standard ventilation—high-visibility roof
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 59 High-visibility roof harness
- FAI 166 Pillar harness
- R6 Ventilation control



Extreme cold weather ventilation (GBA25 and GBA10-Auto5)

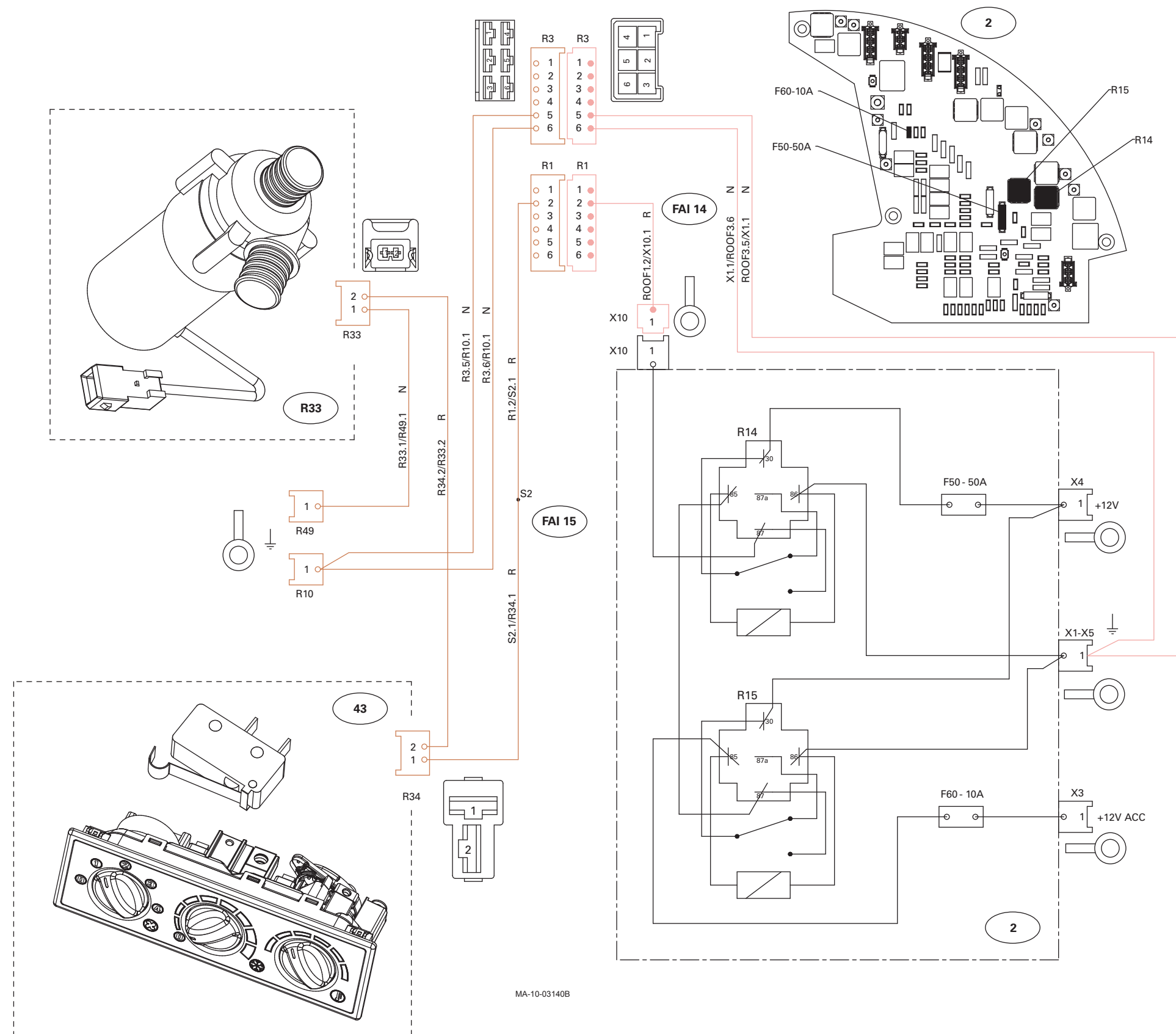
- 2 Fuse box
- 43 Manual air conditioning control unit
- FAI 15 Roof harness
- FAI 166 Pillar harness
- R6 Ventilation control
- R33 Water pump motor



ELECTRICAL DIAGRAMS - Cab equipment

Extreme cold weather ventilation (GBA20 and GBA10)

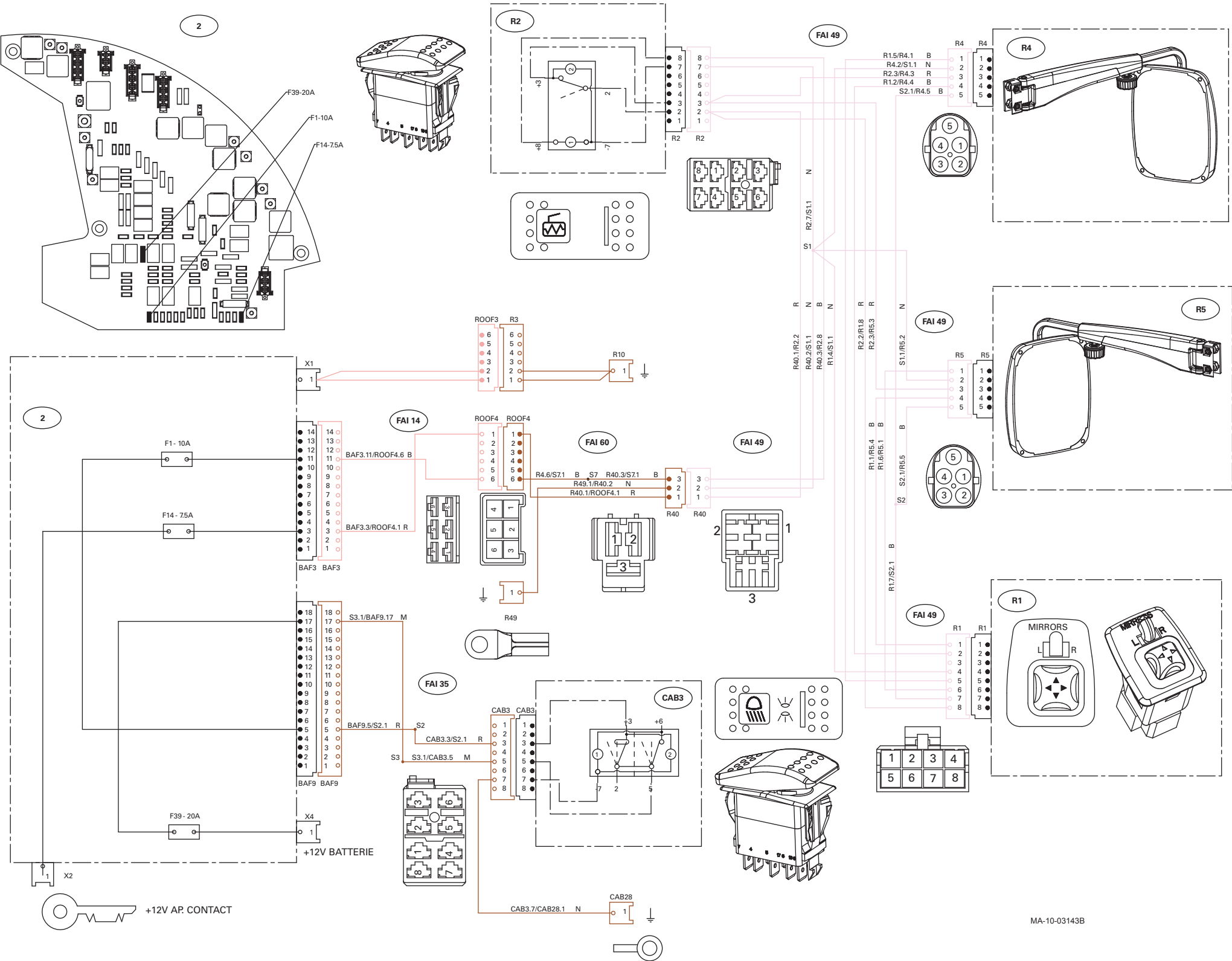
- | | |
|--------|-----------------------------|
| 2 | Fuse box |
| 43 | Manual air conditioning box |
| FAI 14 | Pillar harness |
| FAI 15 | Roof harness |
| R33 | Water pump motor |



-

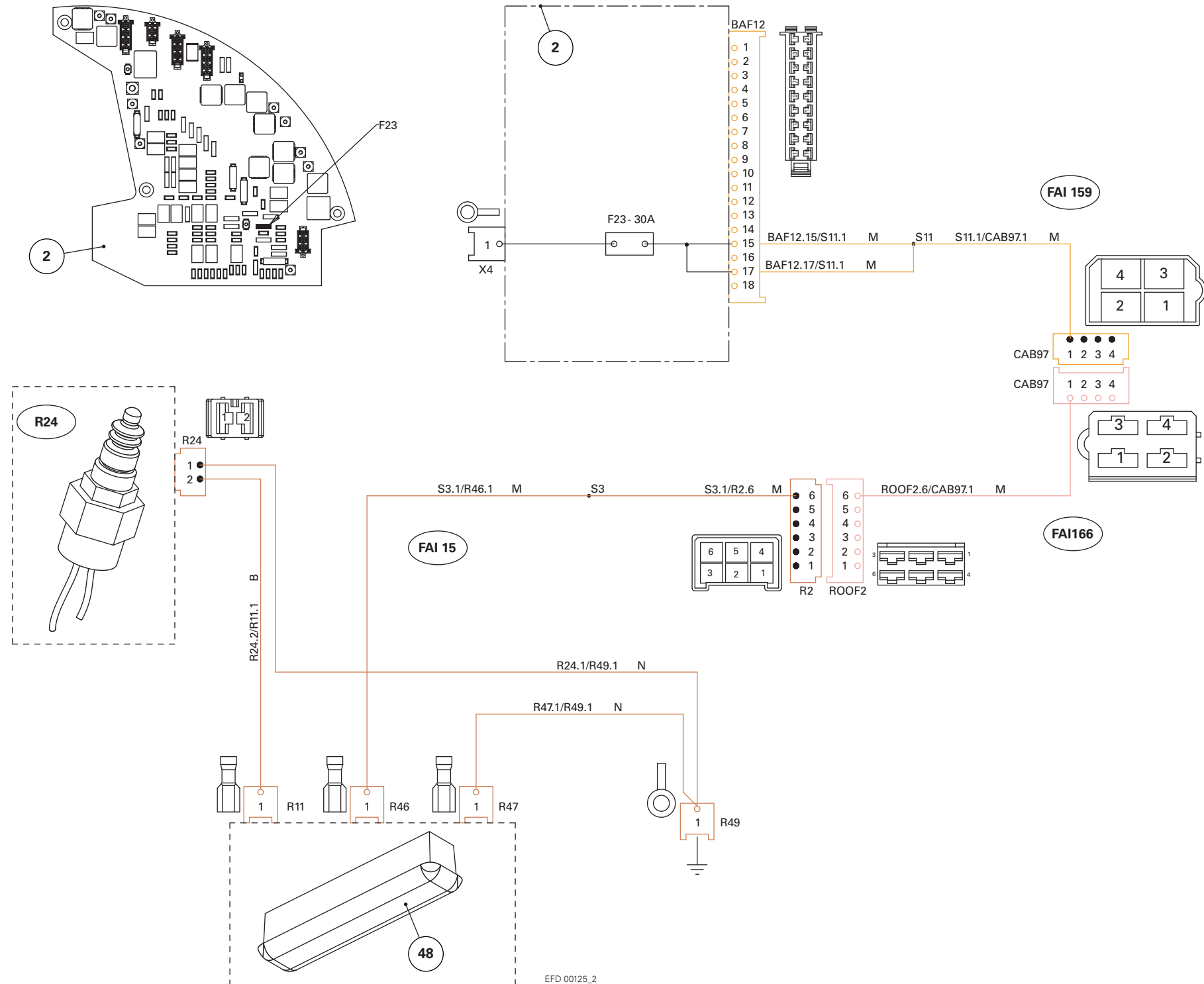
Electric rear view mirrors (GBA20 and GBA10)

- 2 Fuse box
- FAI 14 Pillar harness
- FAI 10 Dynashift with EEM—instrument panel harness
- FAI 49 Electric rear view mirror harness
- FAI 60 Roof harness (all countries except US)
- CAB3 Road lights switch
- R1 Rear view mirror adjustment switch
- R2 Rear view mirror defroster switch
- R4 Right-hand rear view mirror
- R5 Left-hand rear view mirror



Door switch (GBA25 and GBA10-Auto5)

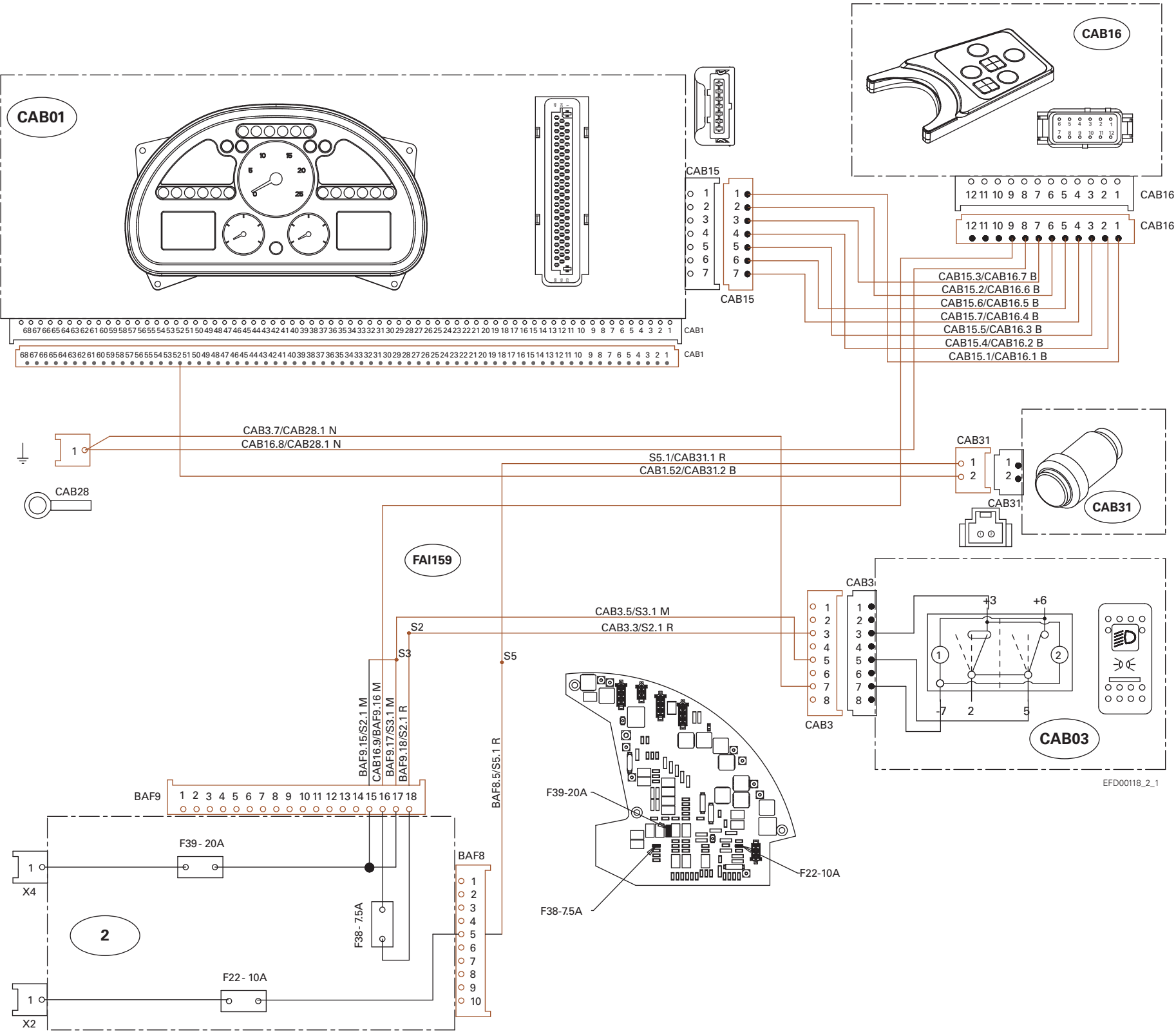
- 2 Fuse box
- 48 Roof light
- FAI 15 Roof harness
- FAI 143 Cab transmission harness
- FAI 166 Pillar harness
- R24 Door switch



ELECTRICAL DIAGRAMS - Cab equipment

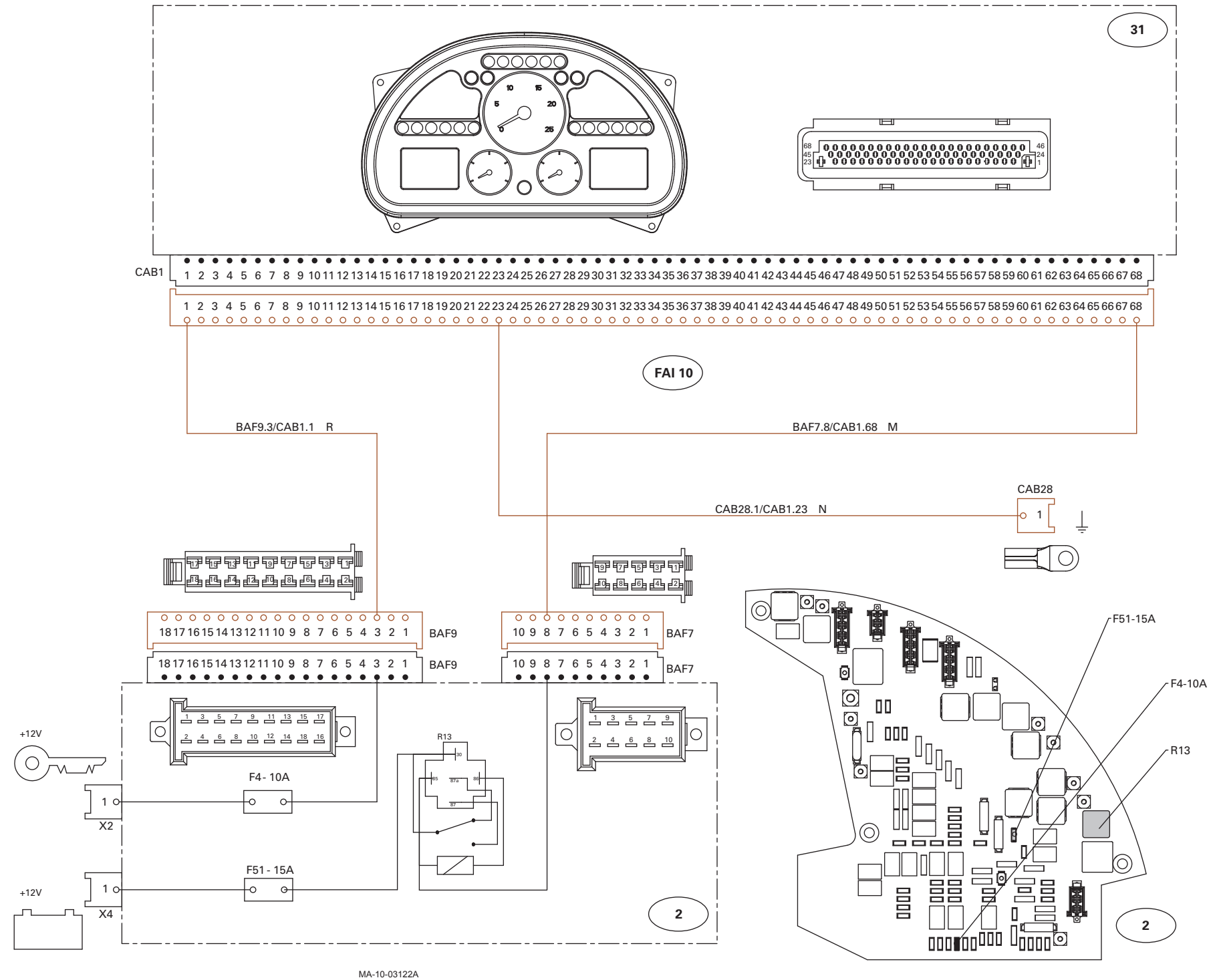
Instrument panel controls (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB16 DOT MATRIX control keyboard
- CAB31 Display selector switch



Instrument panel (GBA20 and GBA10)

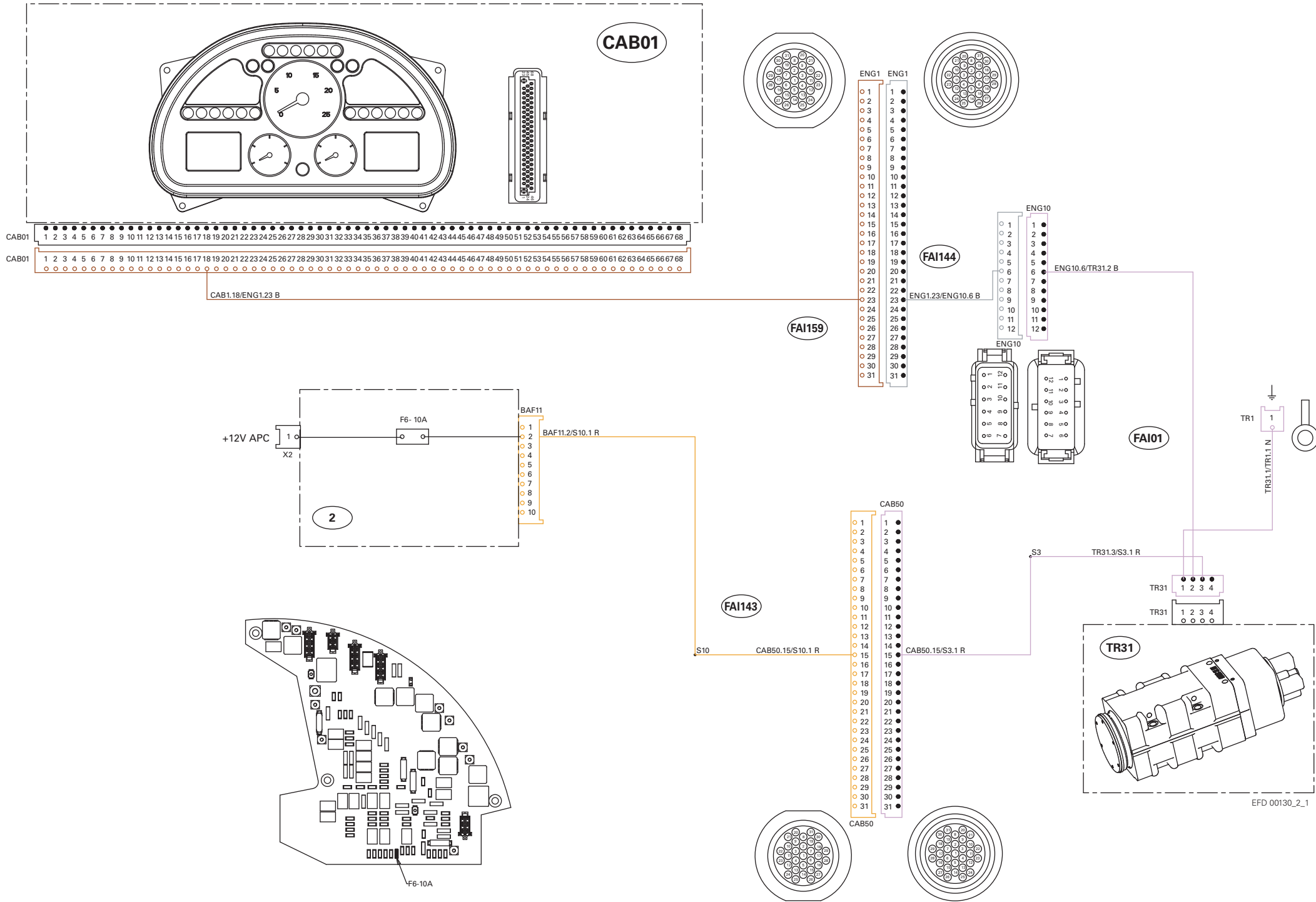
- | | |
|--------|---|
| 2 | Fuse box |
| 31 | DCC2 instrument panel |
| FAI 10 | Dynashift with EEM—instrument panel harness |



ELECTRICAL DIAGRAMS - Cab equipment

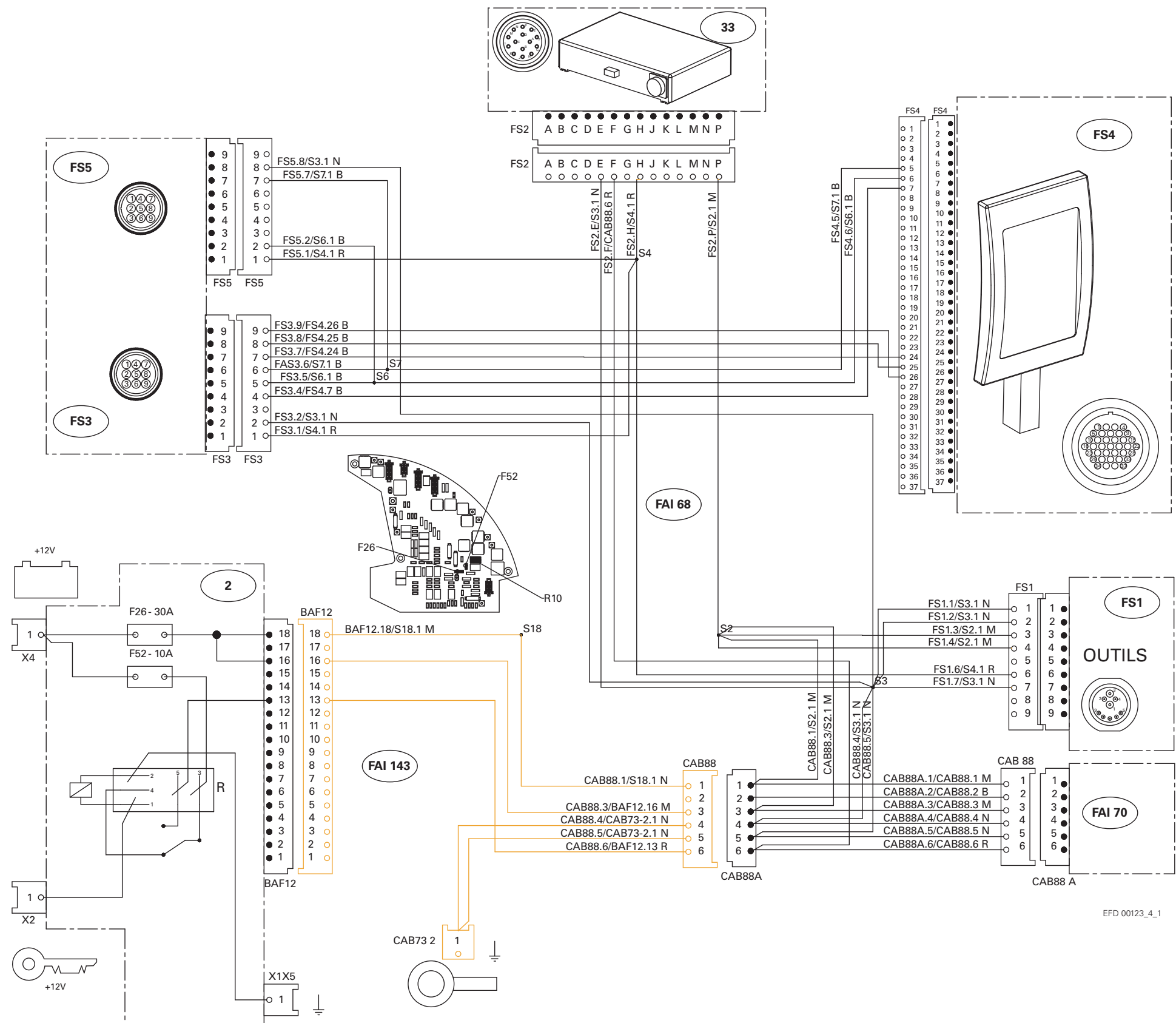
Radar (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 143 Cab transmission harness
- FAI 144 Cab linkage harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- TR31 Radar



Fieldstar (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 33 Fieldstar terminal
- FAI 68 Fieldstar harness
- FAI 70 Cab interior power socket harness
- FAI 143 Cab transmission harness
- FS1 Fieldstar LBS+ connector
- FS2 Fieldstar com unit
- FS3 Fieldstar RS232 connector
- FS4 Fieldstar GPS connector

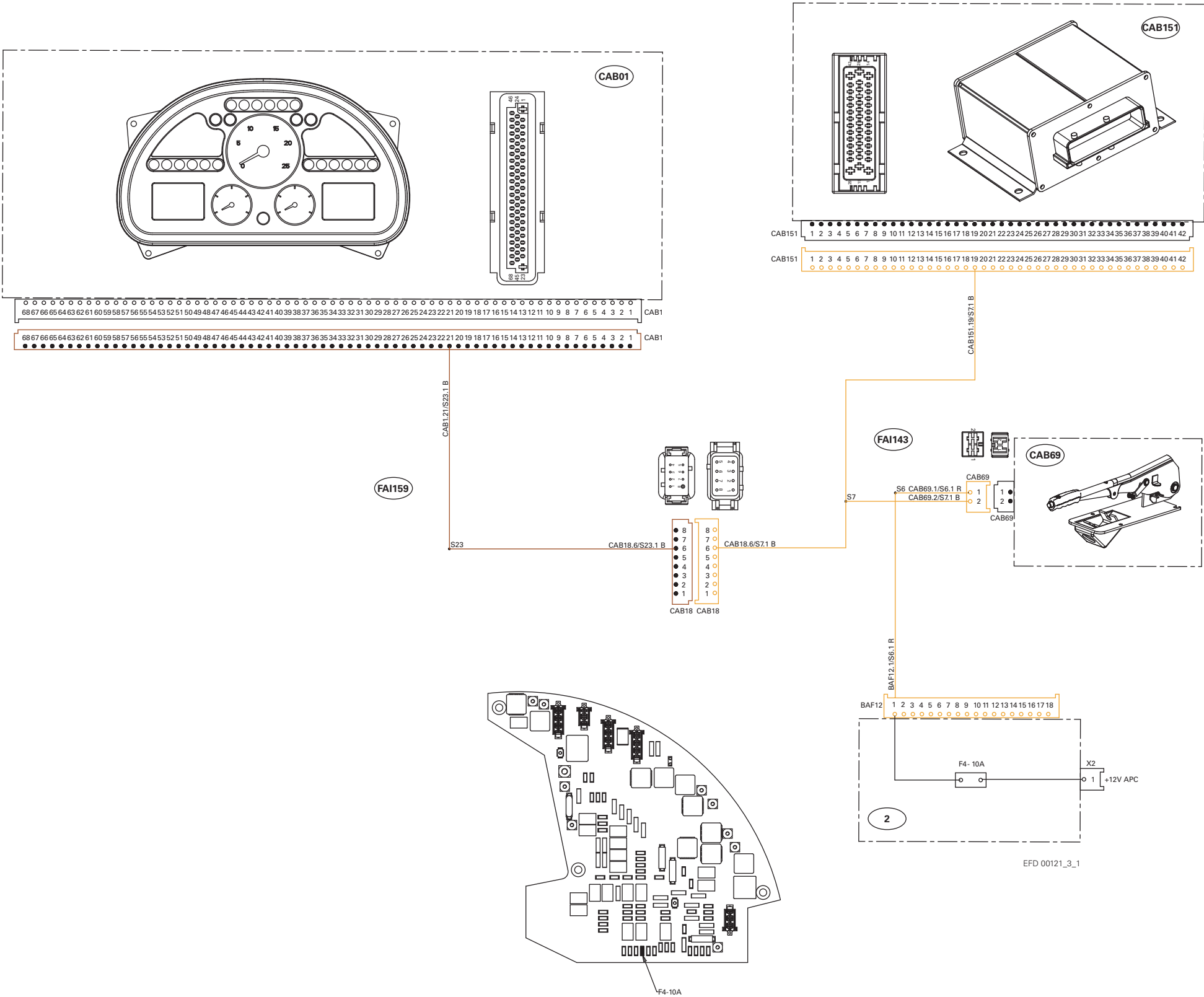


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ELECTRICAL DIAGRAMS - Cab equipment

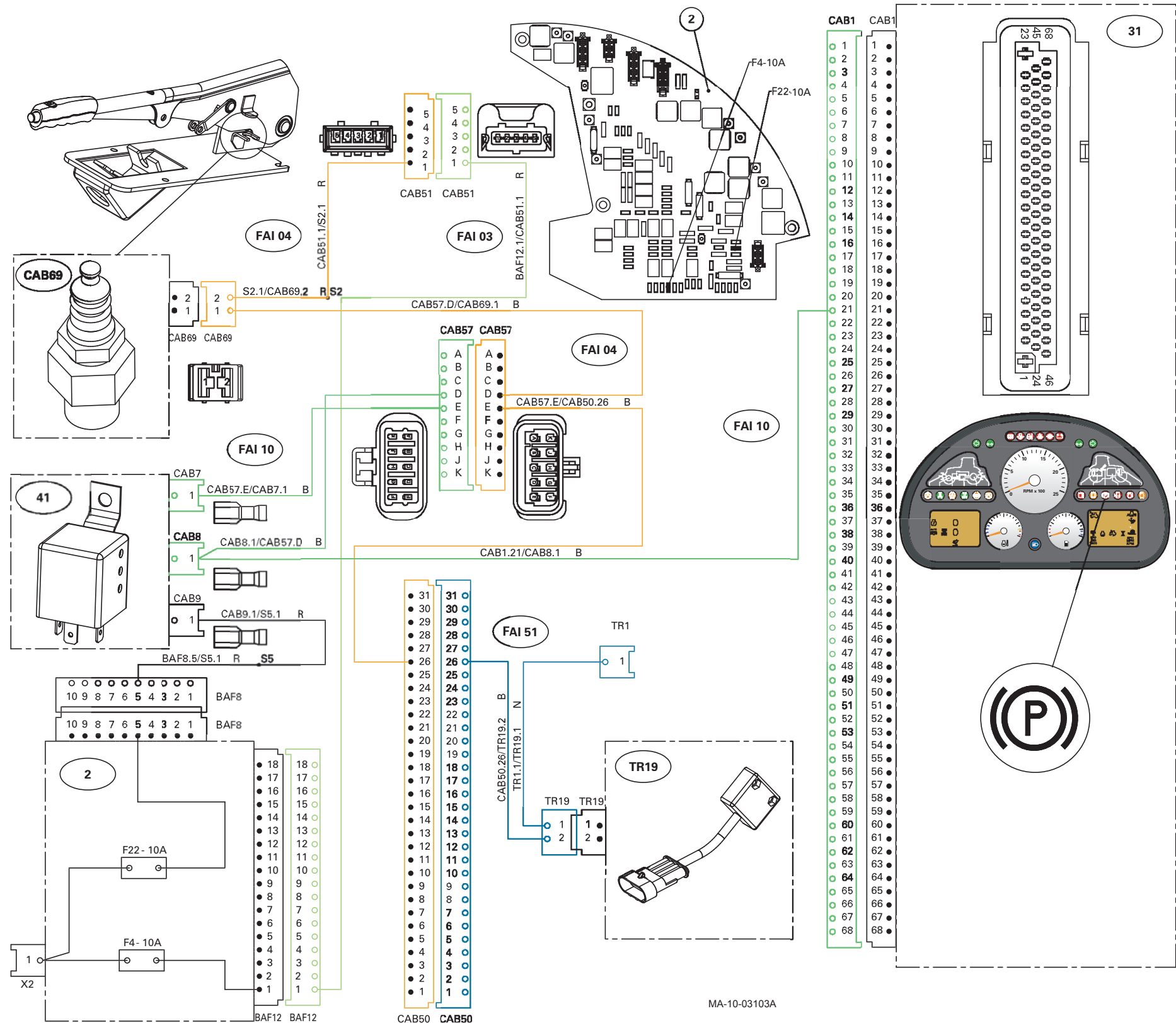
Parking brake (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 143 Cab transmission harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB69 Handbrake switch
- CAB151 Autotronic 5 transmission No.1



Parking brake (GBA25 and GBA10)

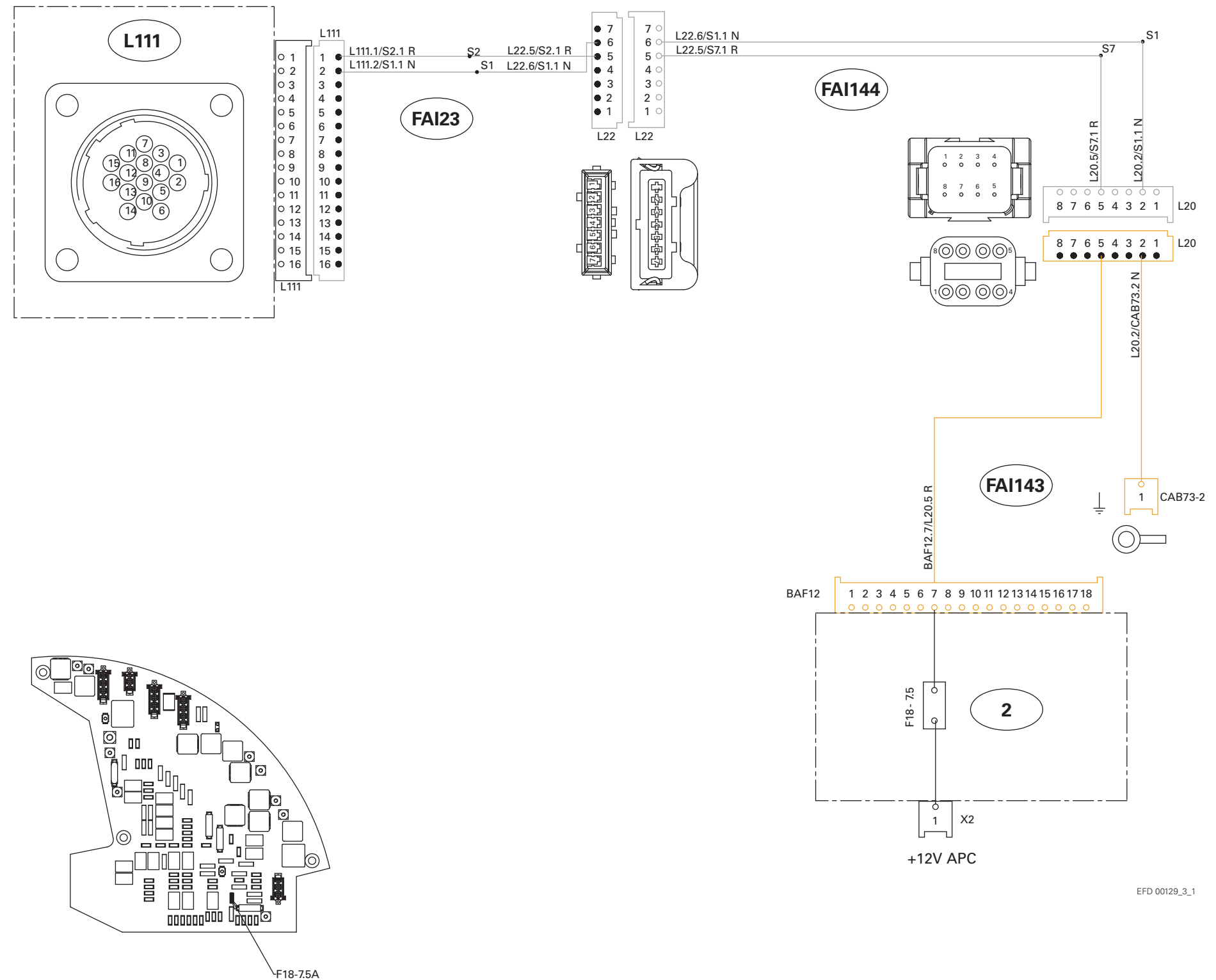
- 2 Fuse box
- 31 DCC2 instrument panel
- 41 Parking brake buzzer
- FAI 03 Dynashift console harness
- FAI 04 Cab Autotronic 3 harness
- FAI 10 Dynashift with EEM—instrument panel harness
- FAI 51 TFLS and Parklock hydraulics—GPA40 transmission harness
- CAB69 Handbrake switch
- TR19 Neutral switch



ELECTRICAL DIAGRAMS - Cab equipment

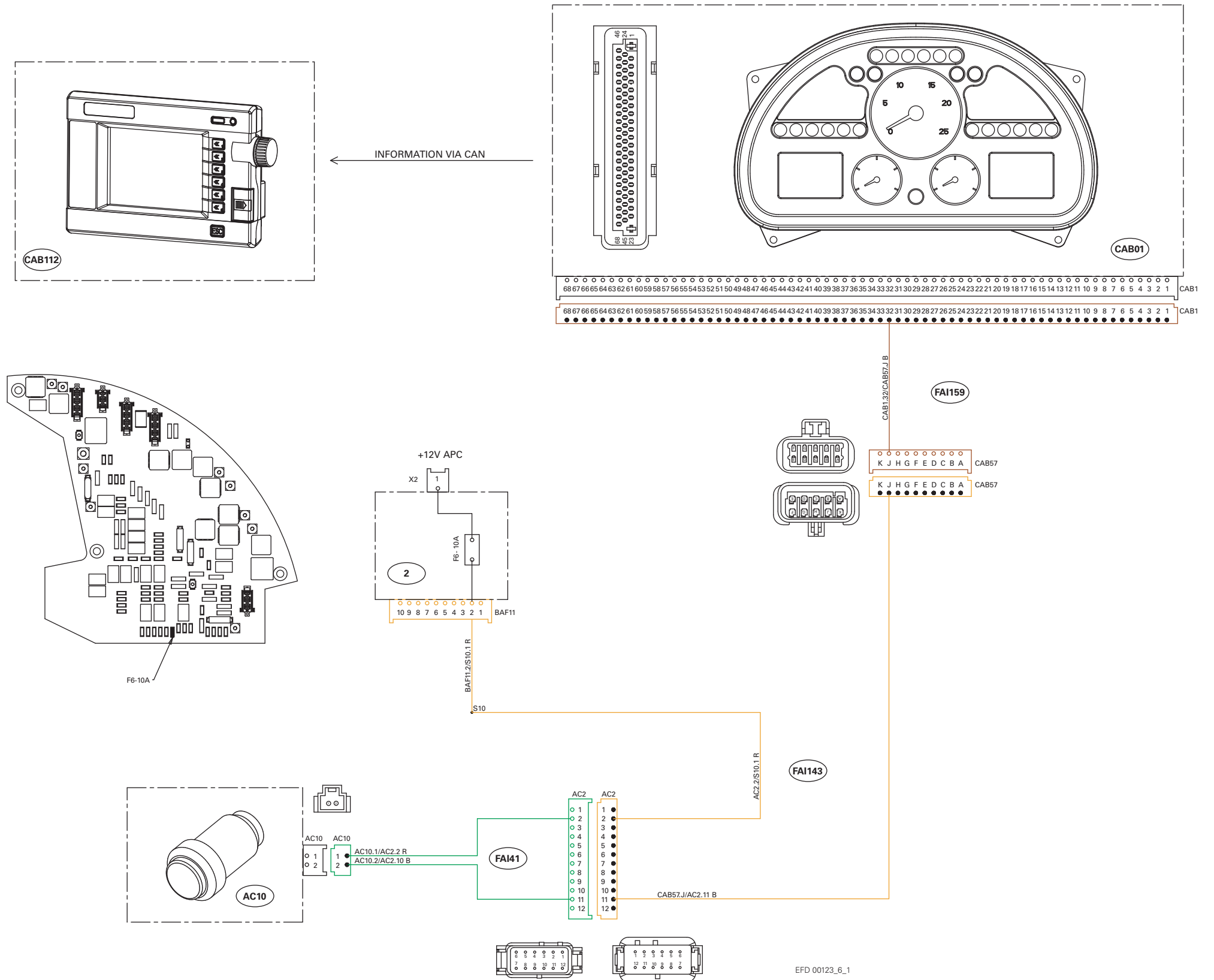
Diagnostics connector power supply (GBA25 and GBA10-Auto5)

- | | |
|---------|------------------------------|
| 2 | Fuse box |
| FAI 23 | Cab linkage harness |
| FAI 143 | Cab transmission harness |
| FAI 144 | Cab linkage harness |
| L111 | 16-pin diagnostics connector |



Headland mode switch (GBA25 and GBA10-Auto5)

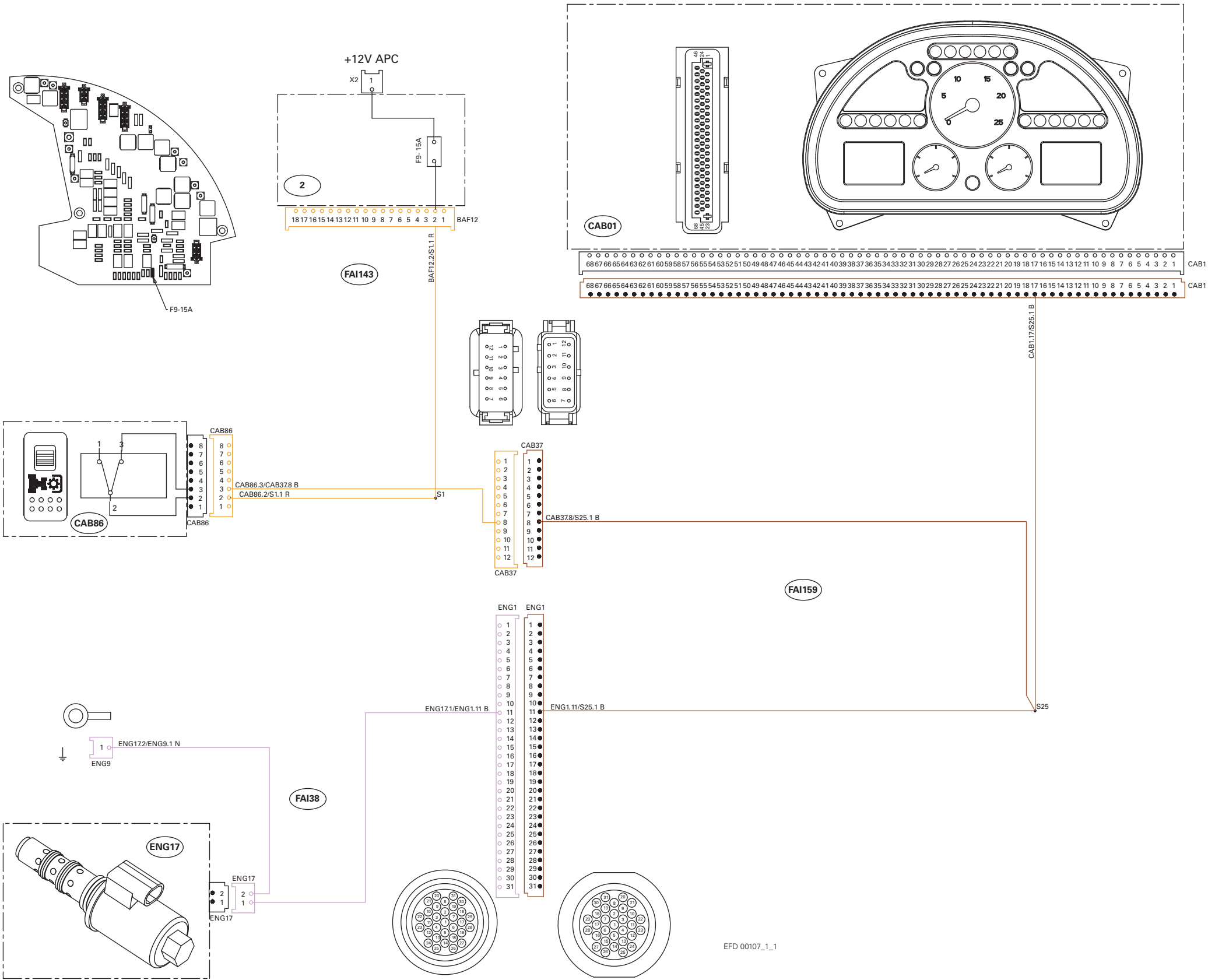
2	Fuse box
FAI 41	Armrest harness
FAI 143	Cab transmission harness
FAI 159	Instrument panel harness
AC10	Headland mode switch
CAB01	DCC2 instrument panel
CAB112	Datatronic 3



ELECTRICAL DIAGRAMS - Cab equipment

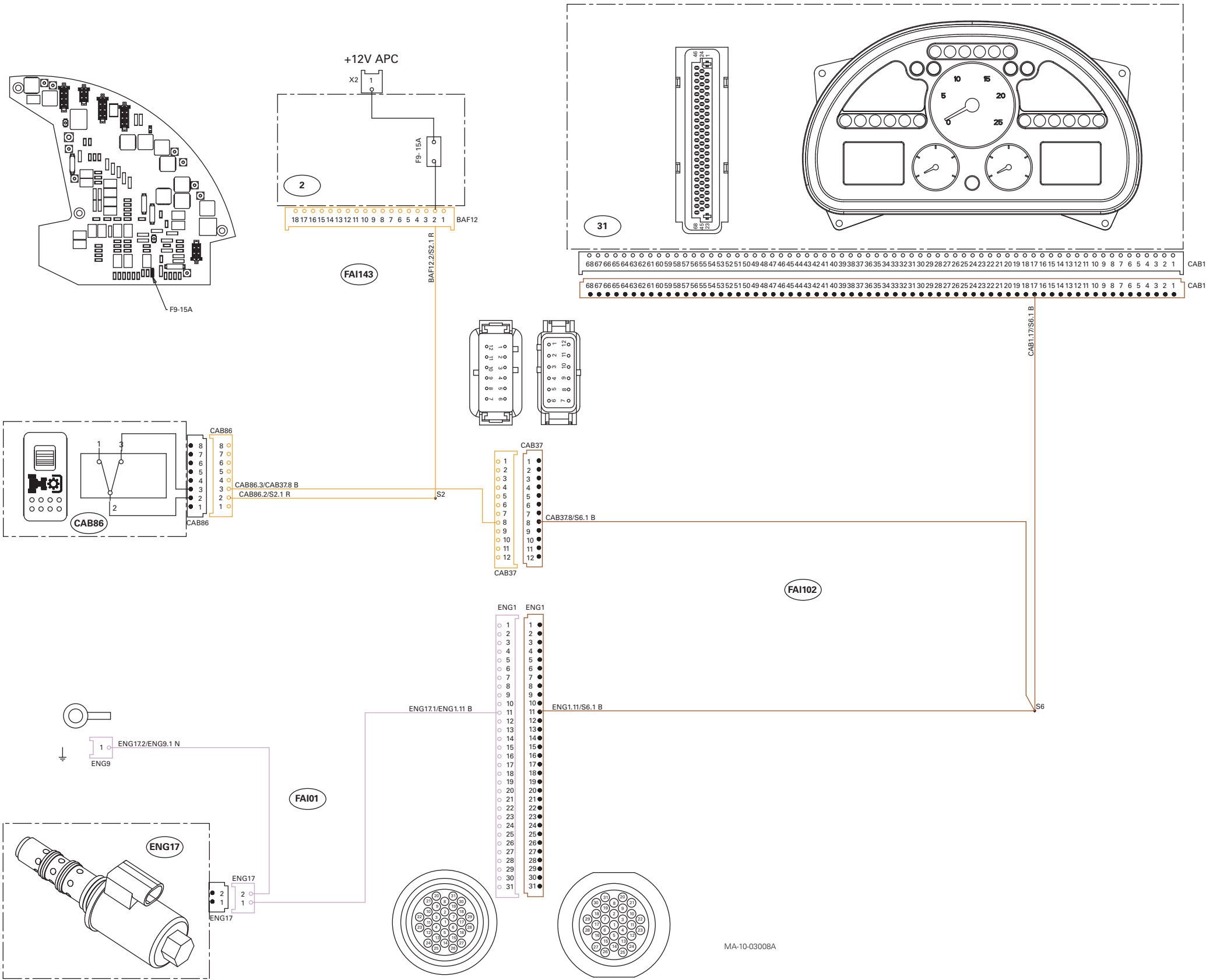
Front power take-off (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 143 Cab transmission harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB86 Front PTO switch
- ENG17 Front PTO solenoid valve



Front power take-off (GBA20 and GBA10)

- 2 Fuse box
- 31 DCC2 instrument panel
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 03 Console harness
- CAB86 Front PTO switch
- ENG17 Front PTO solenoid valve



10B11 - ELECTRICAL DIAGRAMS - Engine equipment

CONTENTS

A . General	3
B . Electrical panels	5

A . General

Description

The harnesses fitted on the tractor allow data to be exchanged and power to be supplied to the electrical and electronic systems.

The tractor is fitted with 3 different types of power supply:

- +12V Battery (Permanent)
- +12V APC (Ignition key ON)
- +12V ACC (Accessories)

Most harnesses have a maximum of six different wire colours:

- Black: Ground
- Brown: +12V Permanent
- Red: +12V APC (Ignition key ON) and Accessories
- White: Information
- Yellow: CAN High
- Green: CAN Low

The CAN network wires (yellow and green) are twisted together.

- Components with only one connector are identified by the connector name:

CAB03 - Road lights switch (Fig. 1).

- All wires can be identified by the pins of the outgoing and incoming connectors of the harness:

CAB3.7/CAB28.1 : The wire connects pin 7 of the CAB03 connector to pin 1 of the CAB28 connector

- The detail of pins allocation for each connector is shown on the harness side
- The wire colour is indicated: CAB3.7/CAB28.1 N, the wire is black.

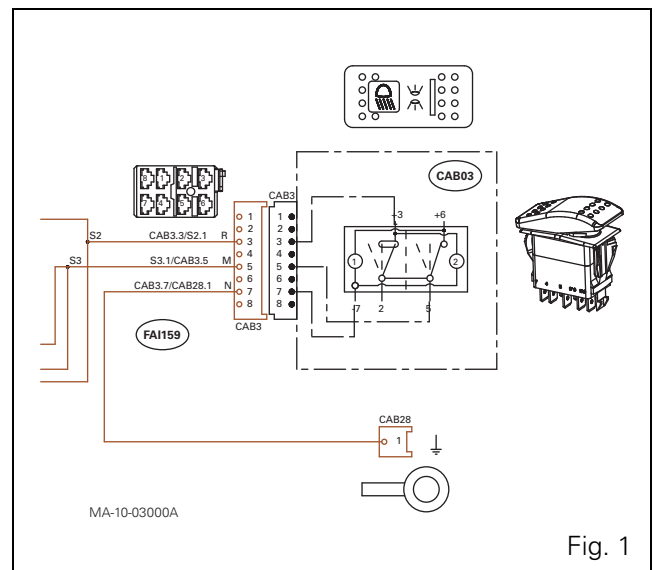
List of colours:

- N: Black
- M: Brown
- R: Red
- B: White
- J: Yellow
- V: Green

- The splices inside the harnesses are indicated by a dot and the letter S (S2).

In general, the components or connectors are named in order to indicate the corresponding elements of the tractor:

AC##	Armrest
BAF##	Fuse box
CA##	Automatic air conditioning
CAB##	Cab
ENG##	Engine
FA##	Suspended front axle
L##	Linkage - ParkLock (HA)
LIG##	Lighting
R##	Linkage and roof
ROOF##	Roof
TR##	Transmission
V#	Electrohydraulic spool valve
X#	Round battery cable terminal on fuse box



ELECTRICAL DIAGRAMS - Engine equipment

Layout

5 Deutsch connectors (31-way) are connected to the cab:

- 2 on the front panel Fig. 2)
- 3 at the bottom rear right-hand side of the cab (Fig. 3).

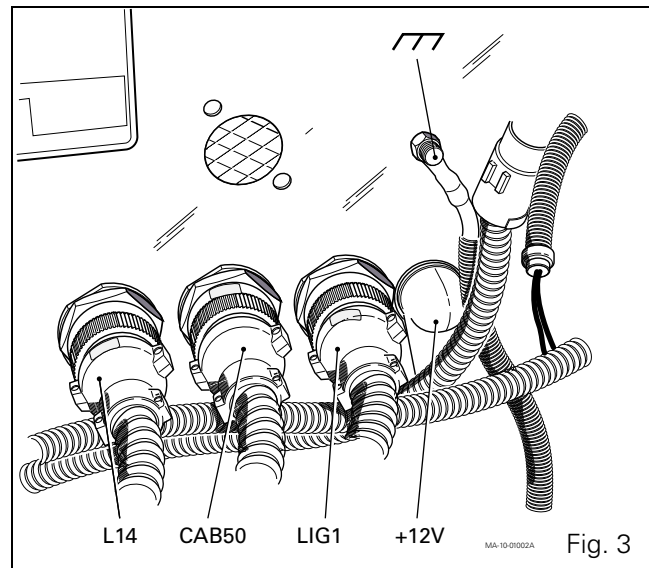
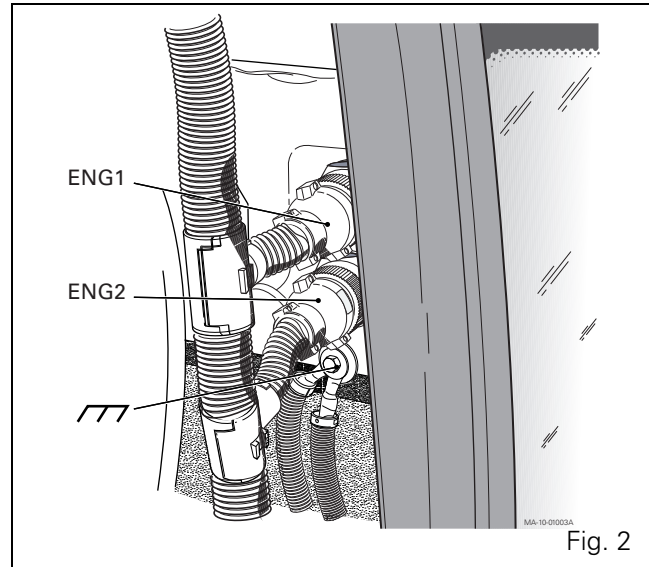
Fig. 2 :

All these connectors belong to the engine harness. ENG2 is dedicated to information concerning the electronic injection.

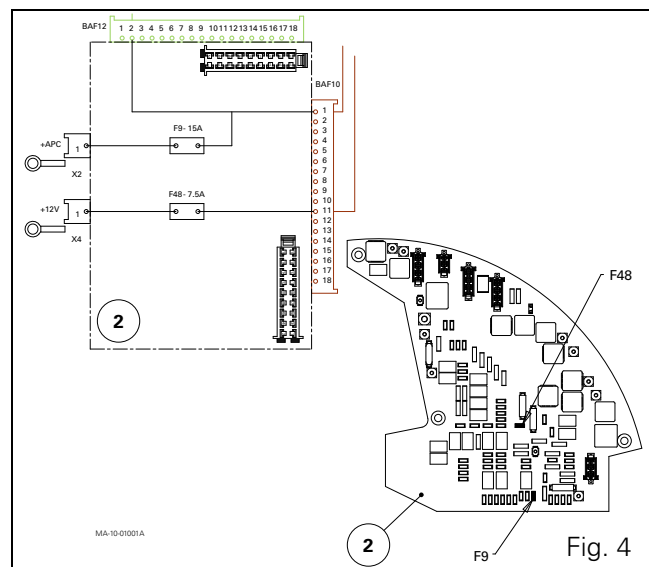
Fig. 3 :

Always in the following order (regardless of tractor configuration and options), from left to right:

- L14 Linkage harness junction
- CAB50 Transmission harness junction
- LIG1 Lighting harness junction



The fuses and relays of the electrical or electronic board (Fig. 4) are indicated by a black mark on their locations on the fuse box (2).



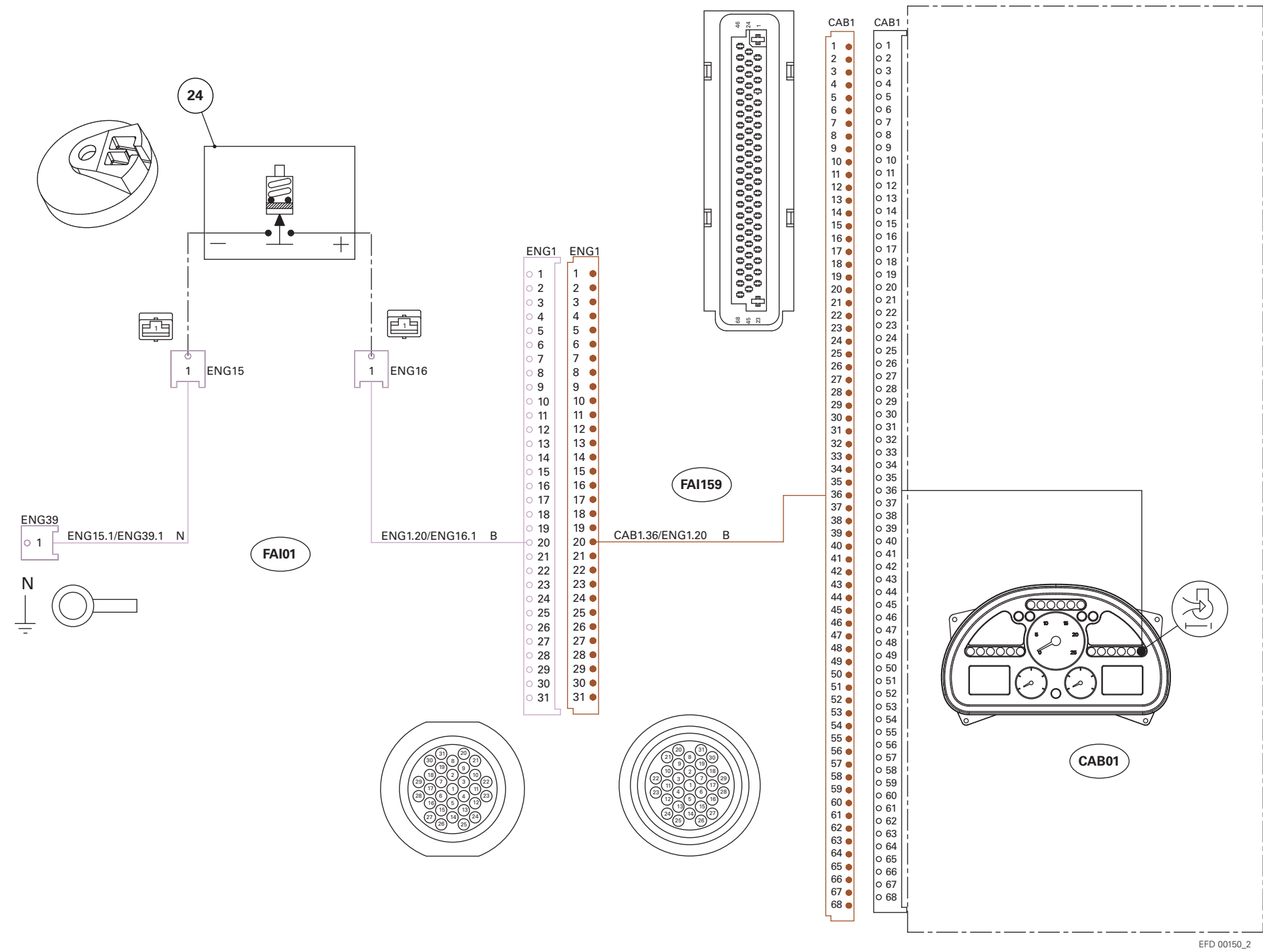
B . Electrical panels

Air filter vacuum sensor (GBA25 and GBA10-Auto5) .	7
Air filter vacuum sensor (GBA20 and GBA10).....	8
Engine oil pressure—four-cylinder Perkins engine with mechanical injection (GBA25)	9
Engine oil pressure sensor (GBA20 and GBA10)	10
Thermostart—Perkins engine with mechanical injection (GBA25)	11
Thermostart—Perkins electronic injection (GBA25) .	12
Thermostart—Perkins (GBA20) engine.....	13
Fuel preheater (GBA25 and GBA10-Auto5).....	14
Fuel preheater (GBA20 and GBA10)	15
Fuel gauge (GBA25 and GBA10-Auto5)	16
Fuel gauge (GBA20 and GBA10).....	17
Temperature switch—four-cylinder Perkins engine with mechanical injection (GBA25)	18
Booster pump—four-cylinder Perkins engine with mechanical injection (GBA25)	19
Mechanical injection pump solenoid valve—four-cylinder Perkins engine (GBA25).....	20
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Engine coolant temperature—four-cylinder Perkins engine with mechanical injection (GBA20).....	22
Vistronic fan	23
Battery charge and starting (GBA25 and GBA10-Auto5).....	24
Battery charge and starting (GBA20 and GBA10)	25
SISU engine power relay (GBA10)	26

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Air filter vacuum sensor (GBA25 and GBA10-Auto5)

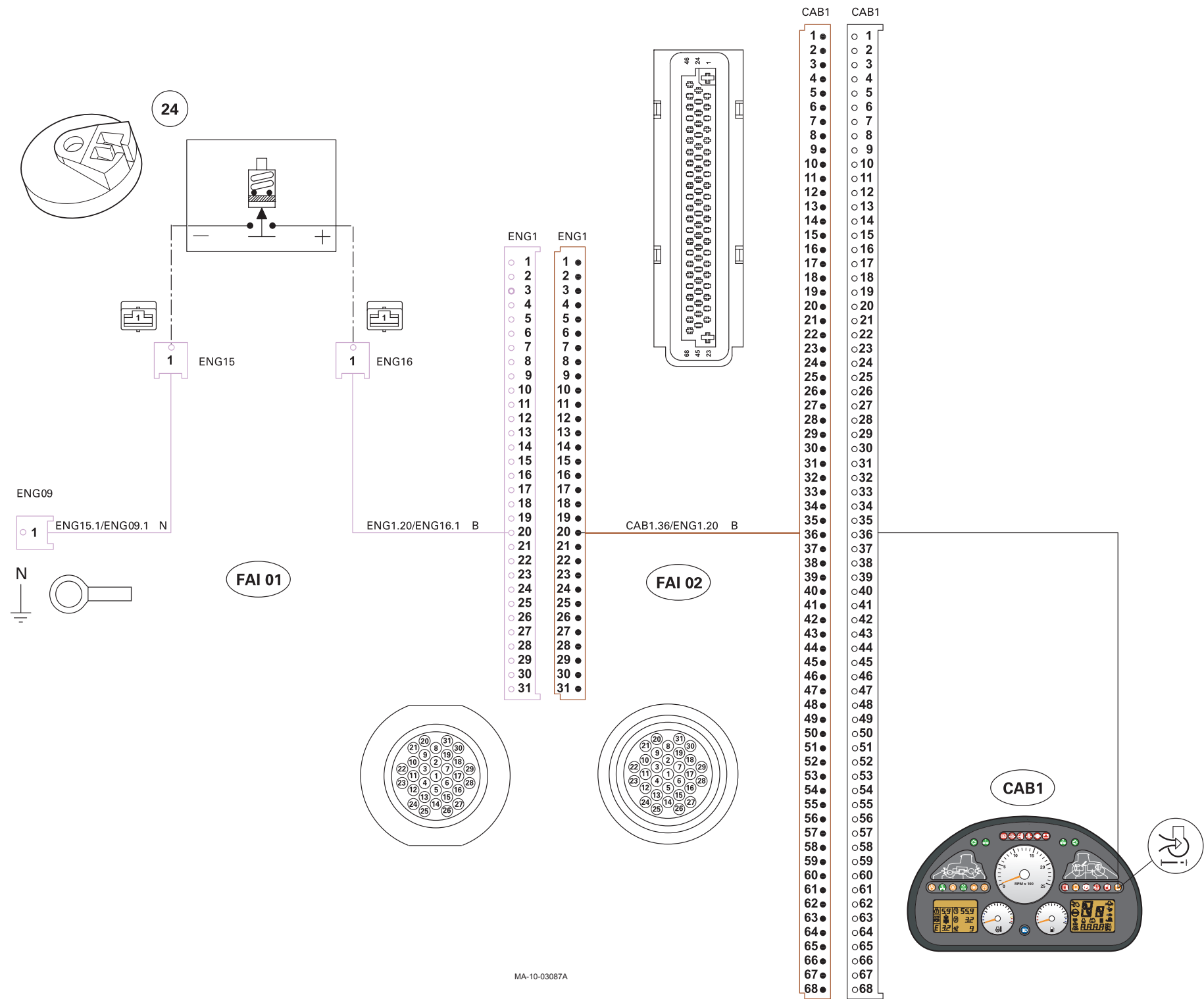
- 24 Air filter vacuum sensor
- FAI 01 Engine harness
- FAI 159 Instrument panel harness



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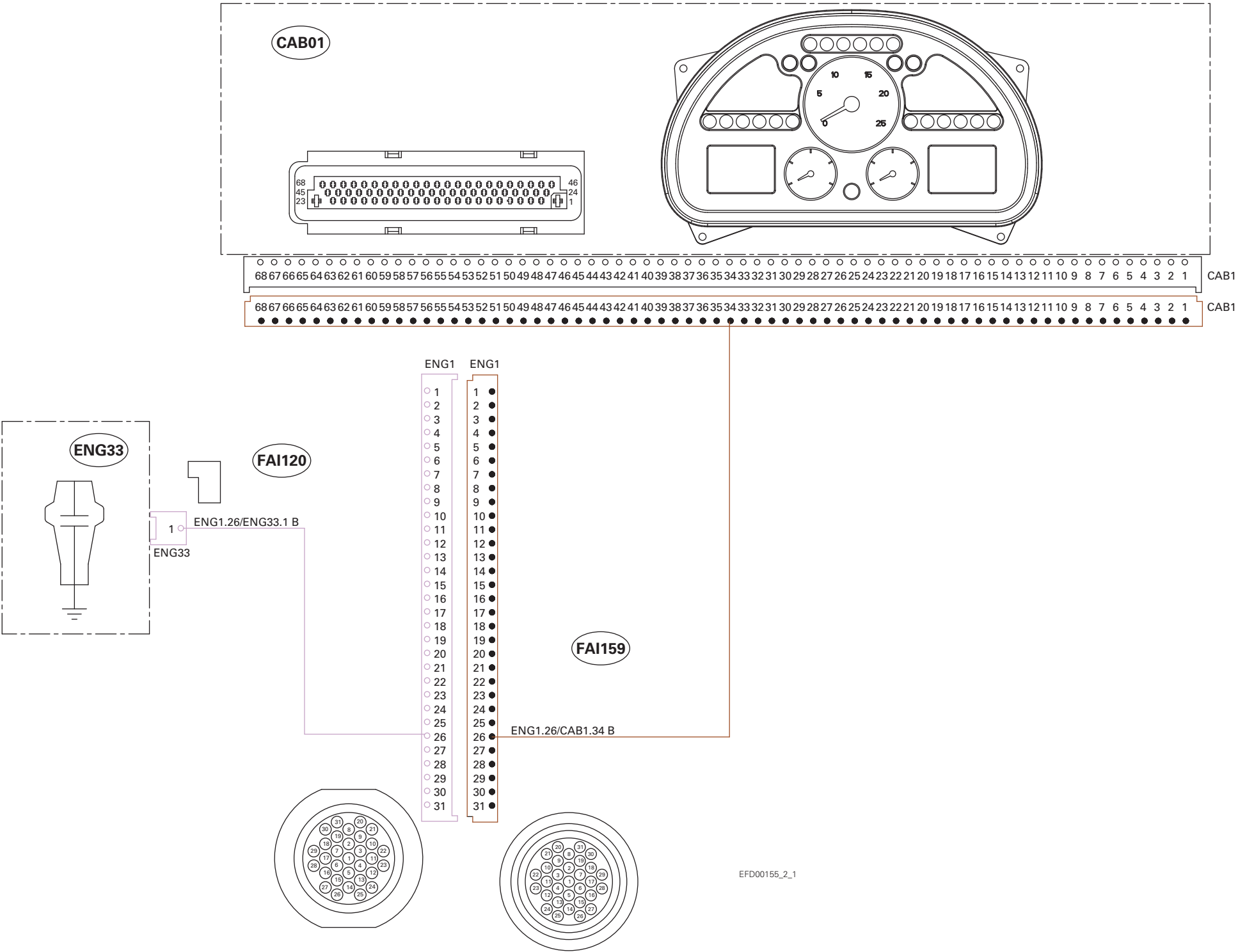
Air filter vacuum sensor (GBA20 and GBA10)

- 24 Air filter vacuum sensor
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- CAB1 Instrument panel (DCC2)



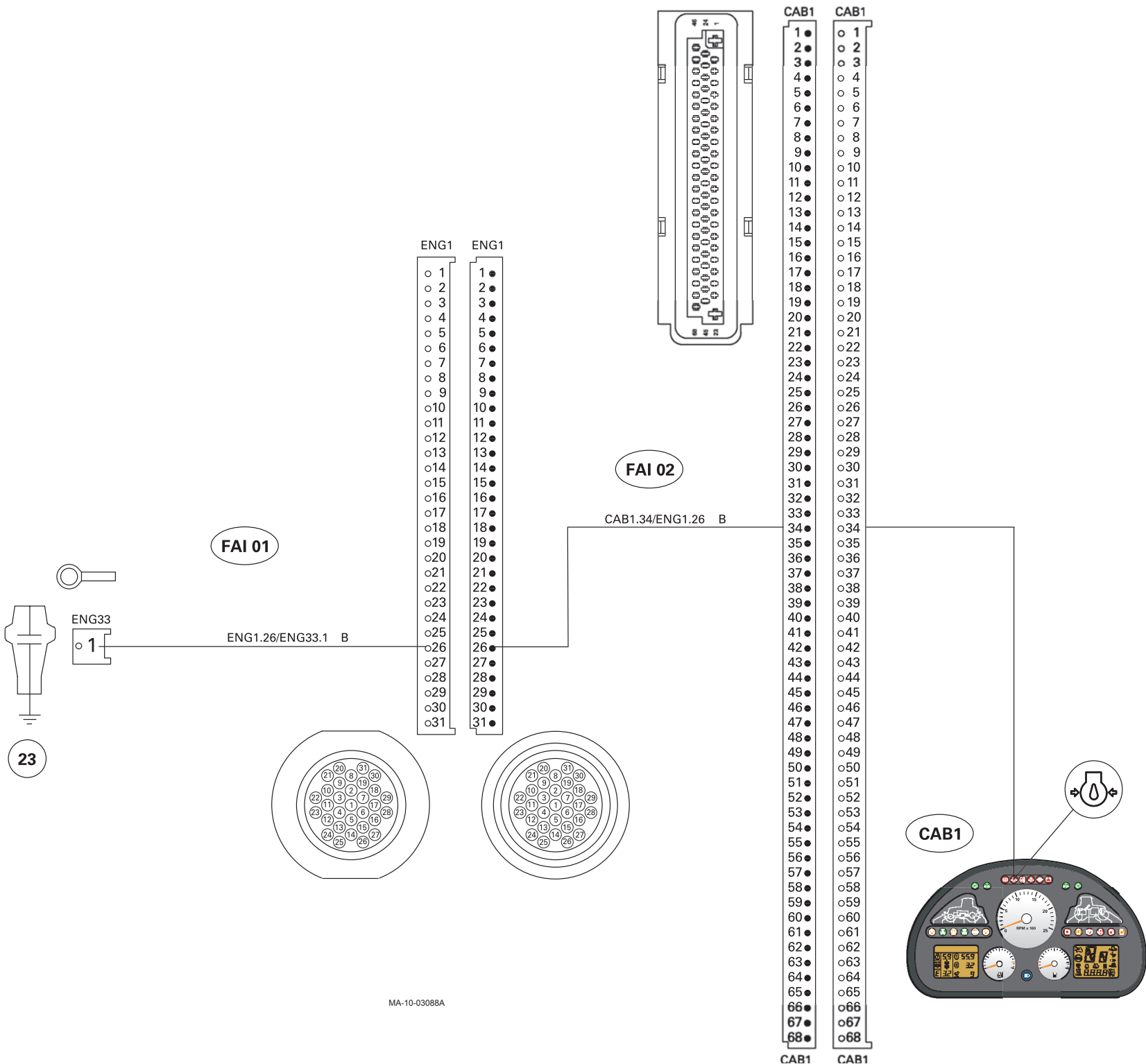
Engine oil pressure—four-cylinder Perkins engine with mechanical injection (GBA25)

- FAI 120 Perkins engine harness
- FAI159 Instrument panel harness
- CAB01 DCC2 instrument panel
- ENG33 Engine oil pressure sensor



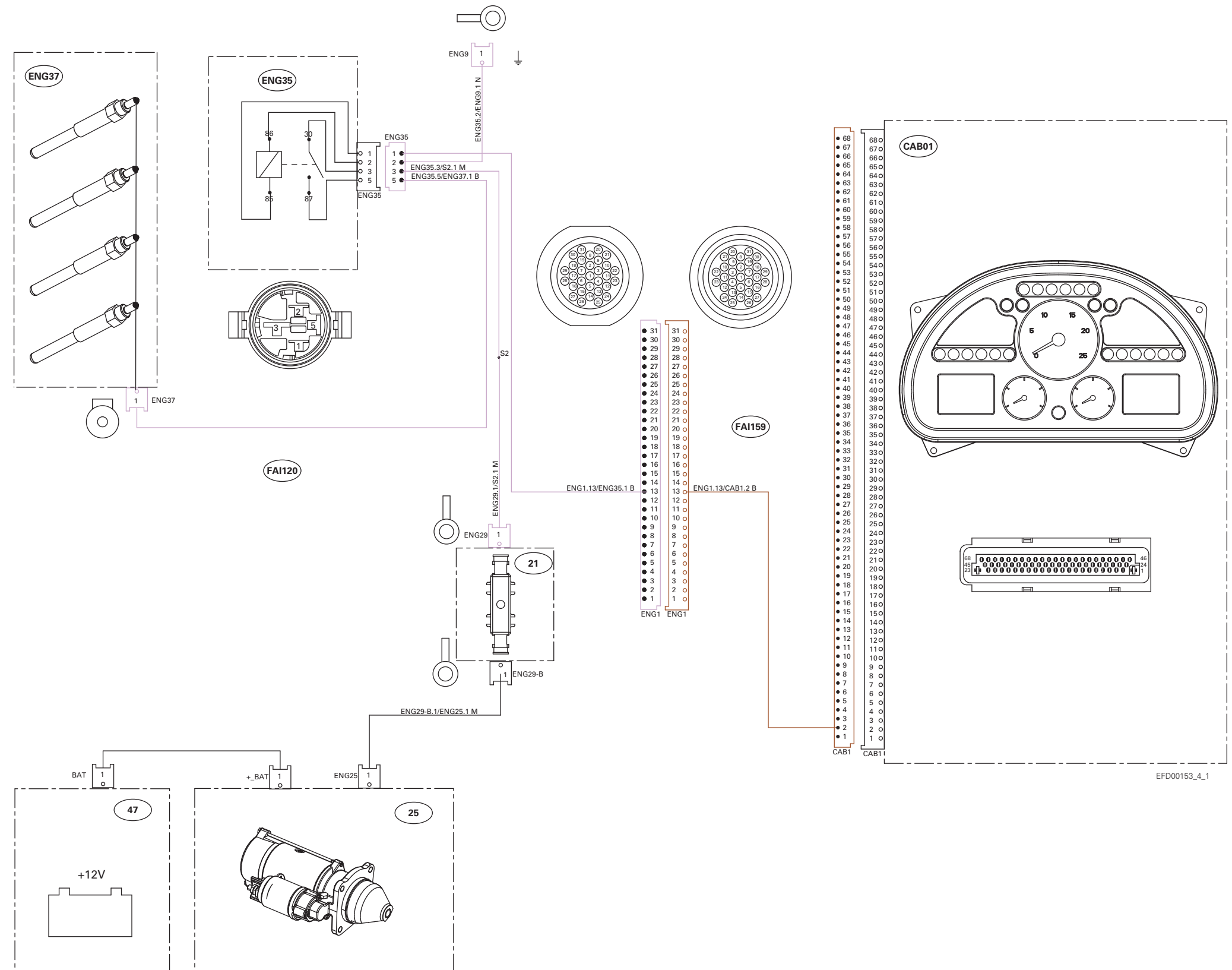
Engine oil pressure sensor (GBA20 and GBA10)

- 23 Oil pressure sensor
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- CAB1 Instrument panel (DCC2)



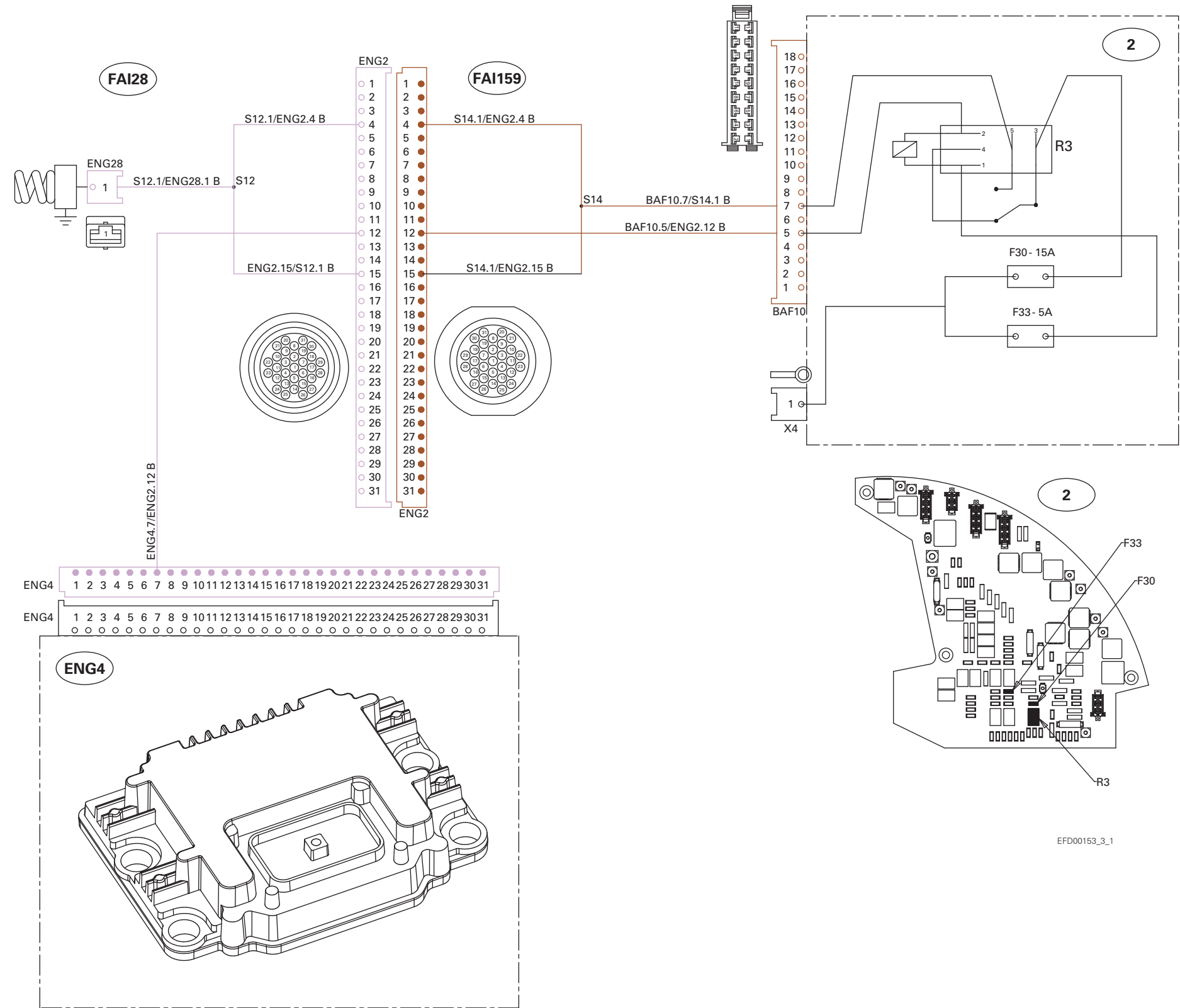
Thermostart—Perkins engine with mechanical injection (GBA25)

- 21 Line fuse
- 25 Starter
- 47 Battery
- FAI 120 Perkins engine harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- ENG35 Preheater relay
- ENG37 Preheater glow plugs



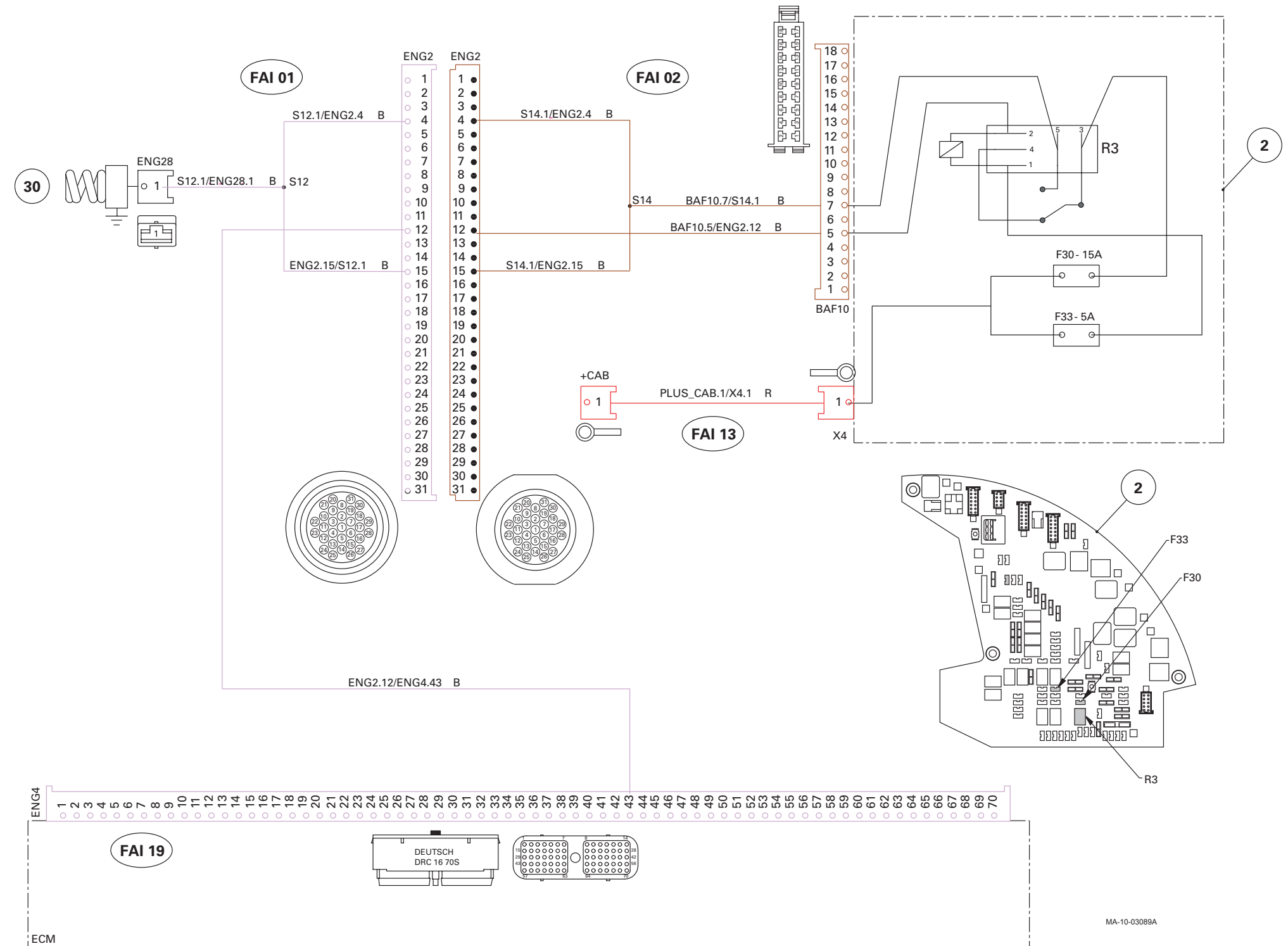
Thermostart—Perkins electronic injection
(GBA25)

- 2 Fuse box
- FAI 28 Perkins EEM engine harness
- FAI 159 Instrument panel harness
- ENG4 Electronic injection harness junction



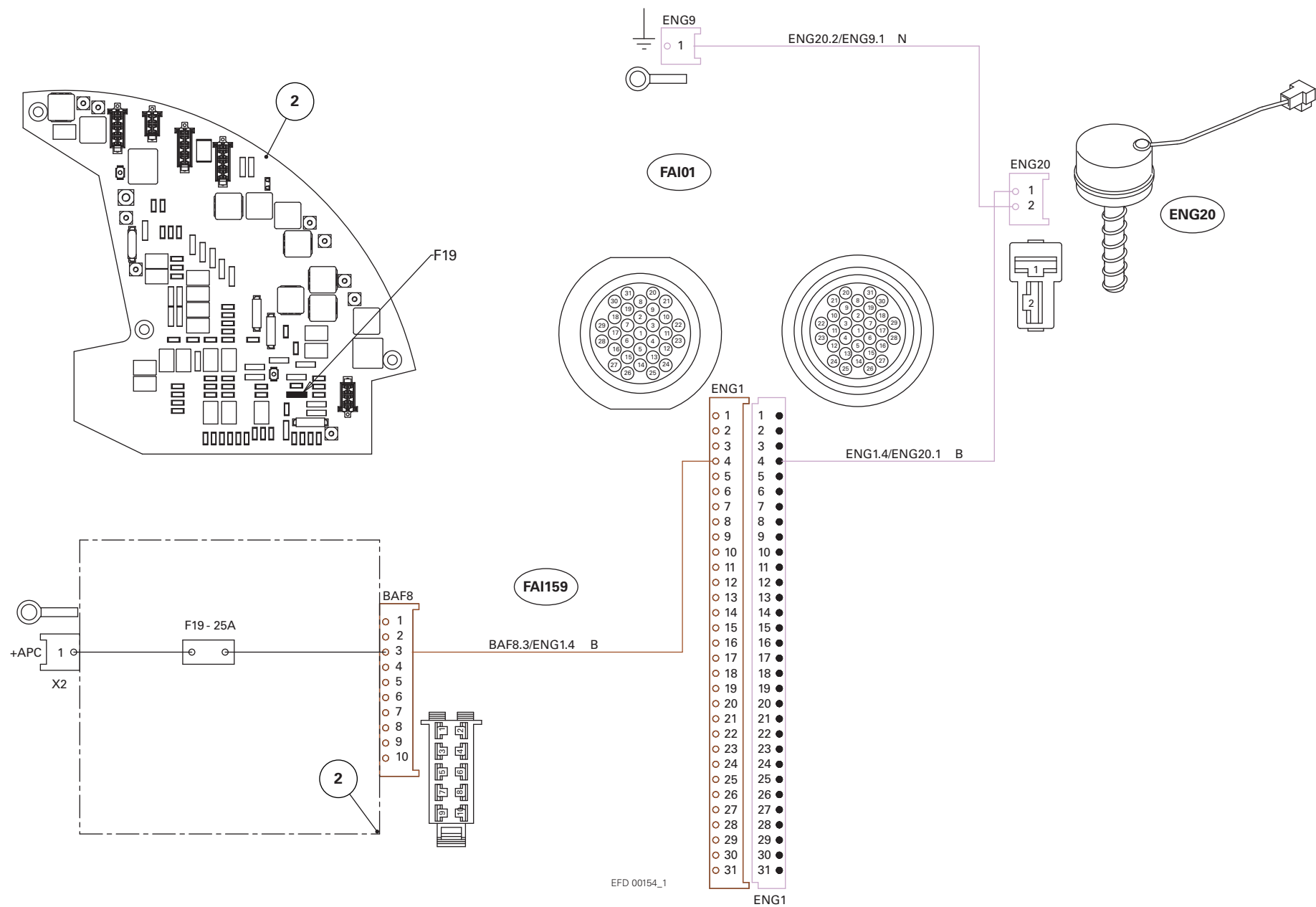
Thermostart—Perkins (GBA20) engine

- 2 Fuse box
 30 Thermostart
 FAI 01 Perkins EEM engine harness
 FAI 02 Instrument panel harness
 FAI 13 Fuse box supply harness
 FAI 19 Electronic injection harness connection



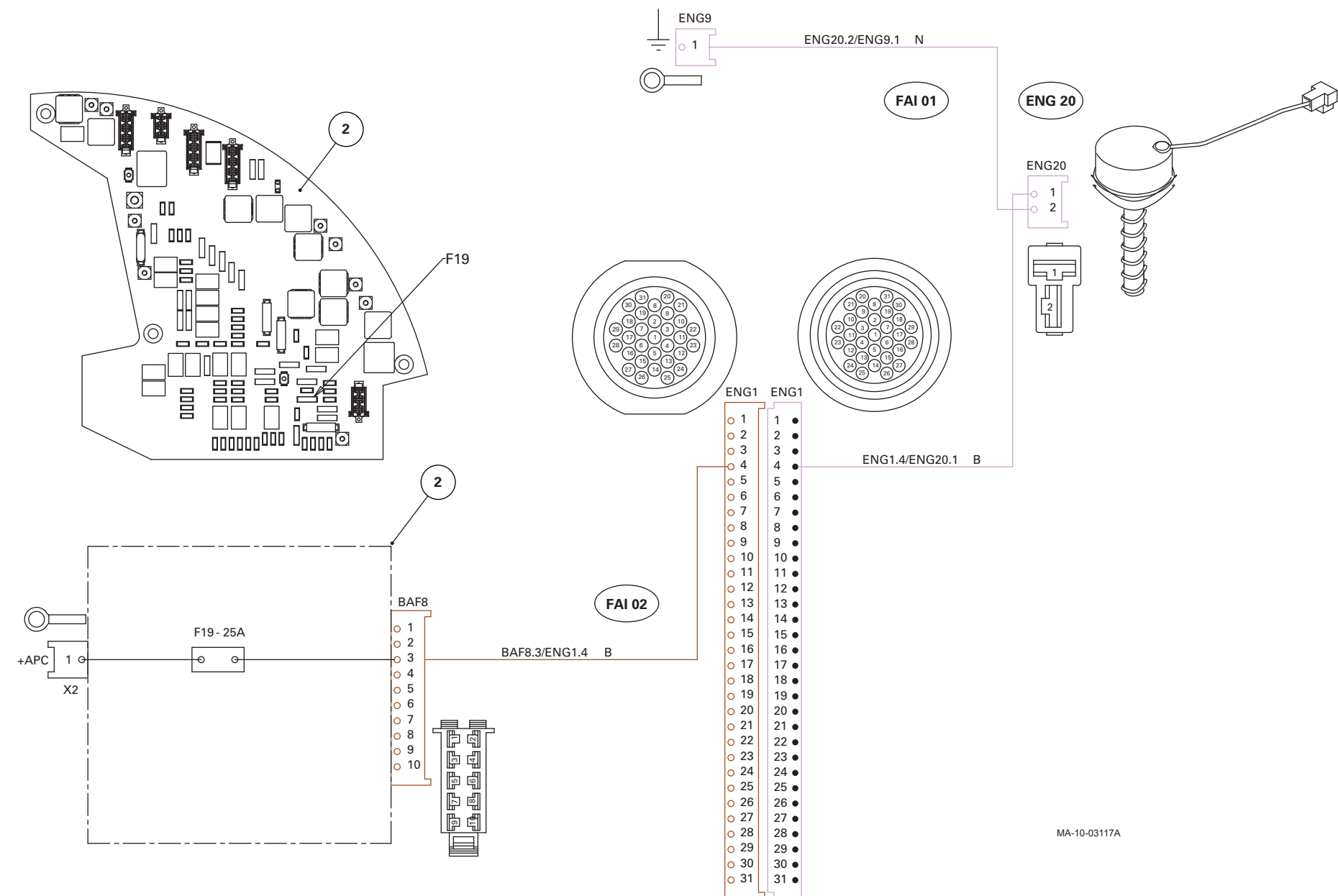
Fuel preheater (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 01 Engine harness
- FAI 159 Instrument panel harness
- ENG20 Fuel preheater



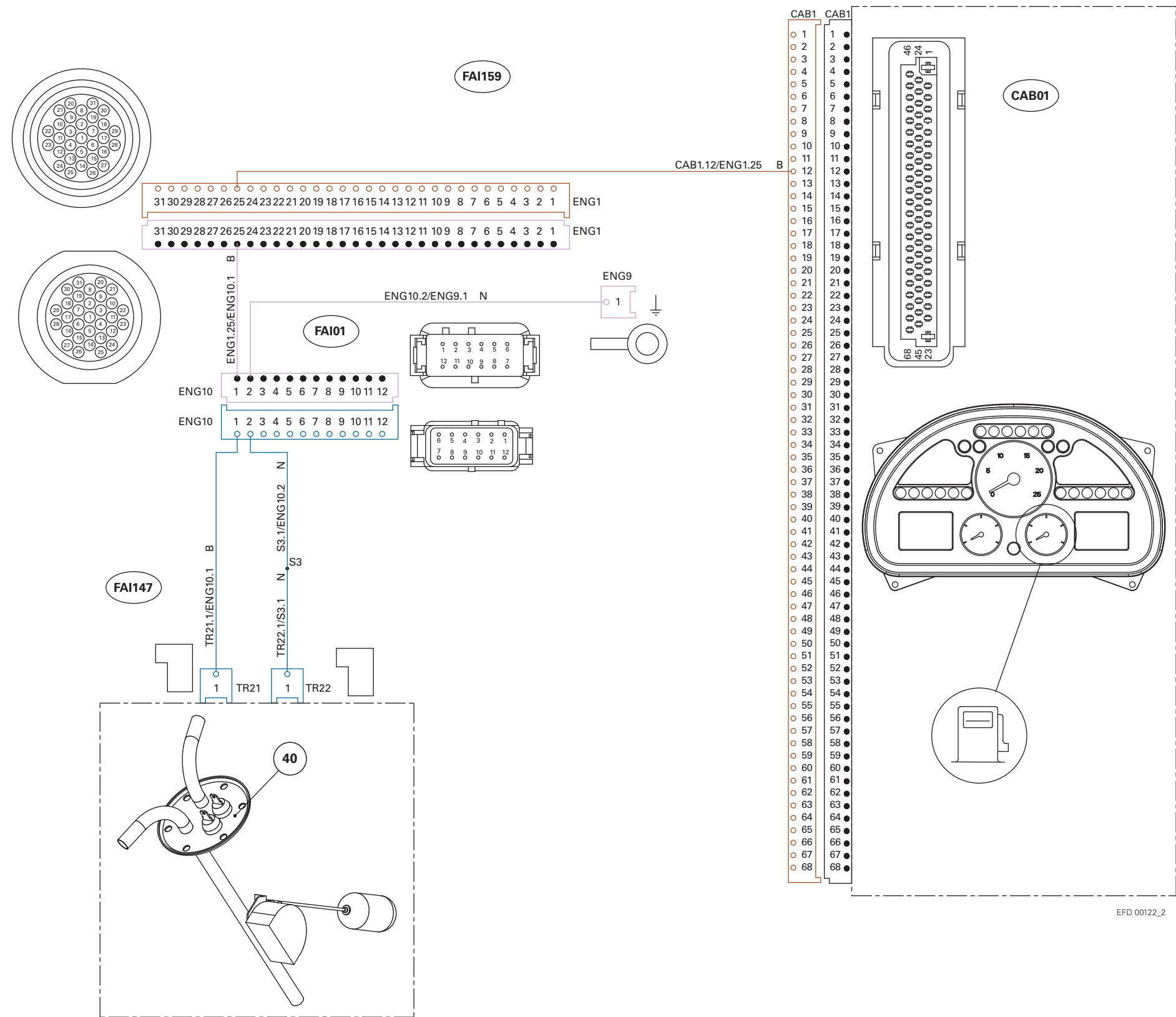
Fuel preheater (GBA20 and GBA10)

- 2 Fuse box
FAI 01 Engine harness
FAI 02 Instrument panel harness
ENG20 Fuel preheater



Fuel gauge (GBA25 and GBA10-Auto5)

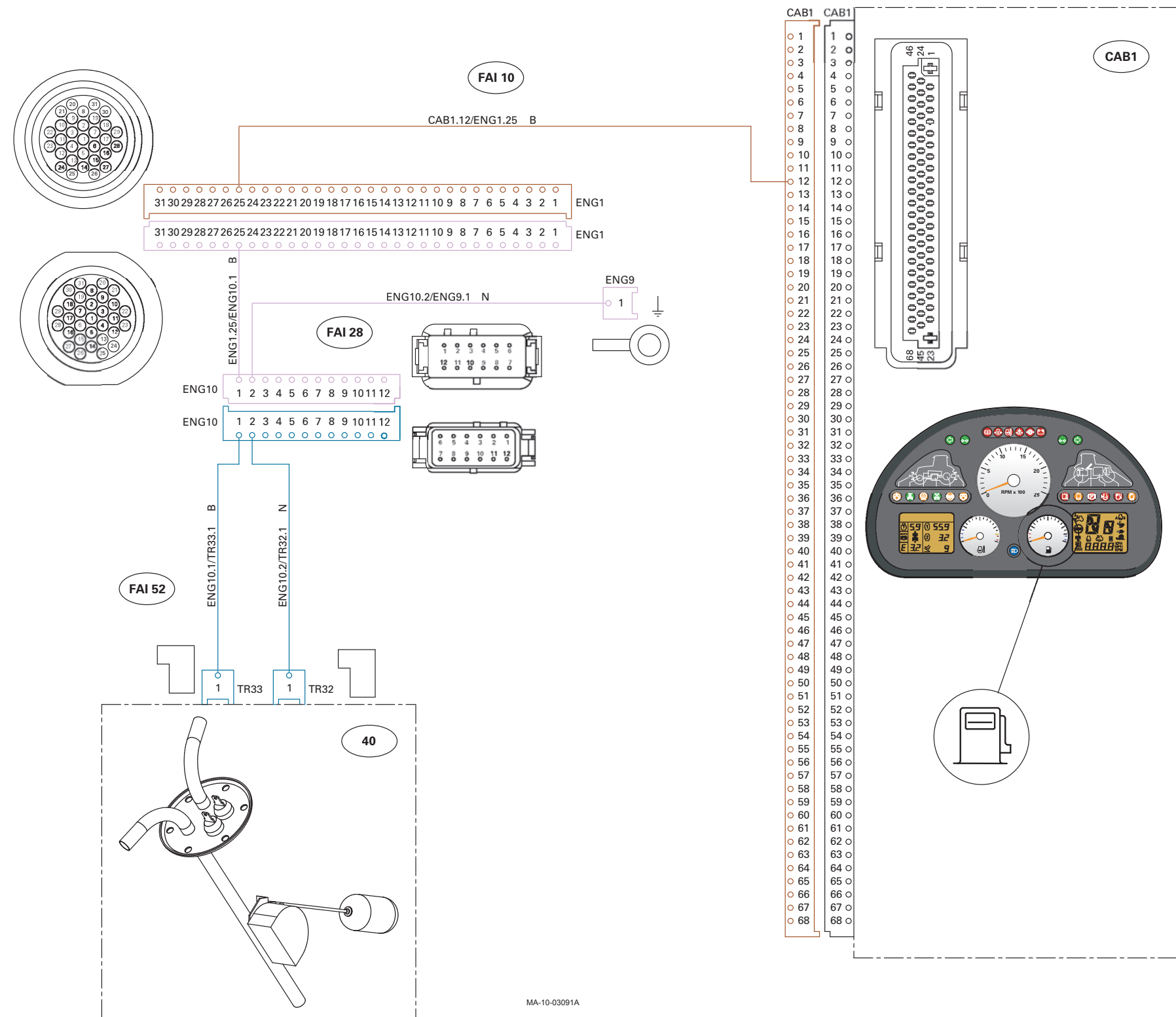
- 40 Fuel gauge
- FAI 01 Engine harness
- FAI 147 Transmission harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel



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Fuel gauge (GBA20 and GBA10)

- | | |
|--------|--|
| 40 | Fuel gauge |
| FAI 10 | Dynashift with EEM—instrument panel harness |
| FAI 28 | Perkins EEM engine harness |
| FAI 52 | GPA40 and GPA 30 transmission harness—LS hydraulics without Parklock (GPA40) |
| CAB1 | Instrument panel (DCC2) |



ELECTRICAL DIAGRAMS - Engine equipment

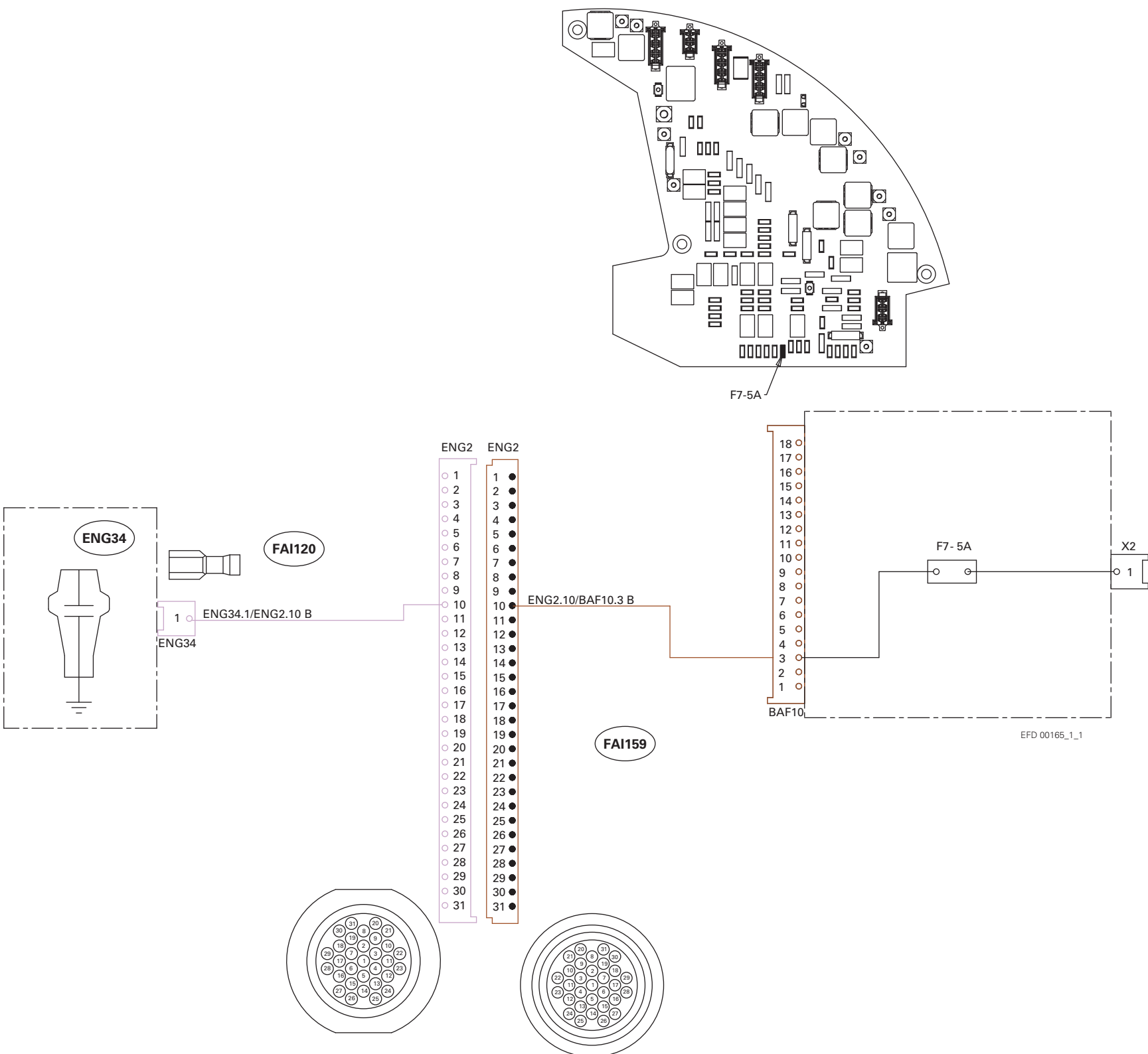
Temperature switch—four-cylinder Perkins engine with mechanical injection (GBA25)

2 Fuse box

FAI 120 Perkins engine harness

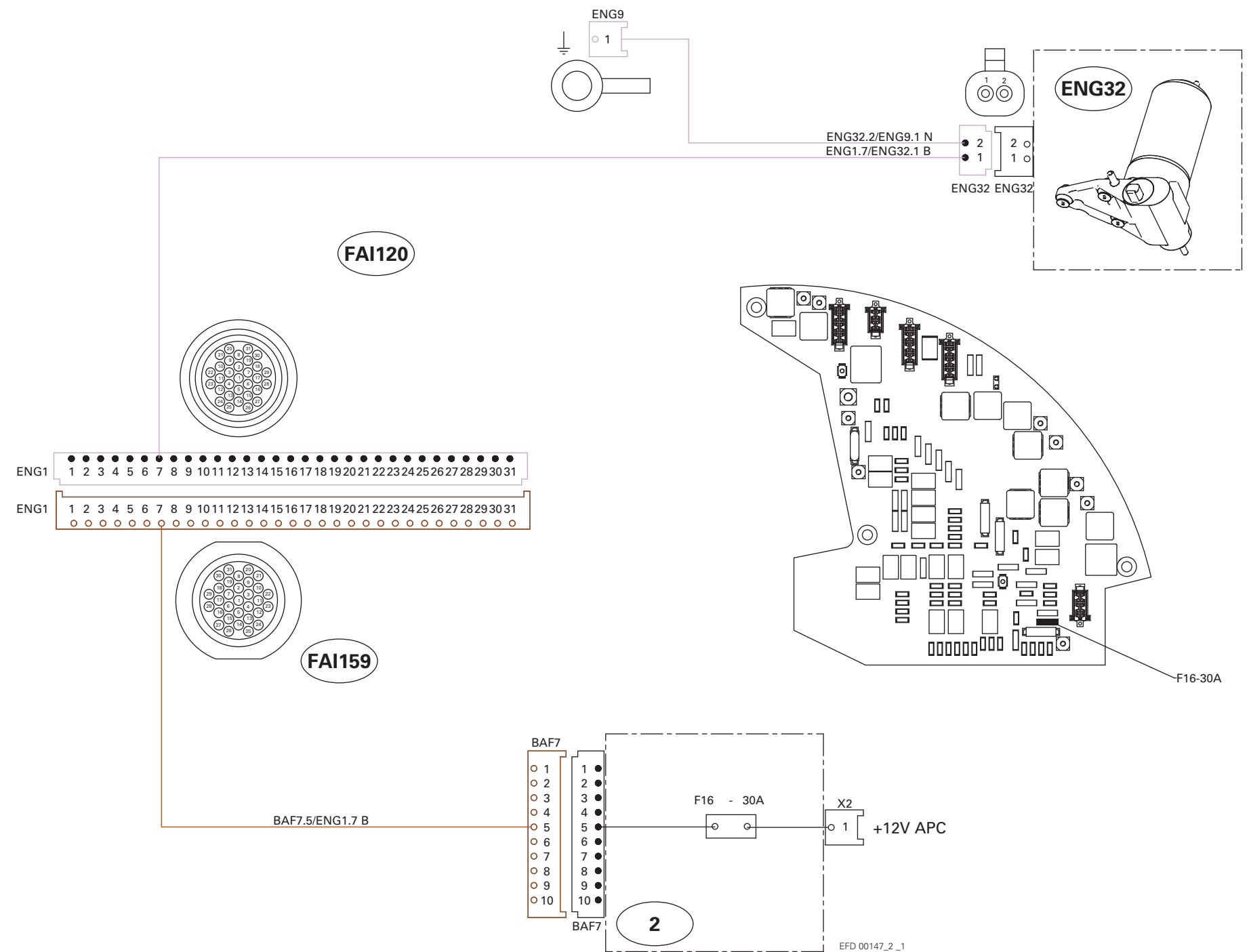
FAI 159 Instrument panel harness

ENG34 Temperature switch



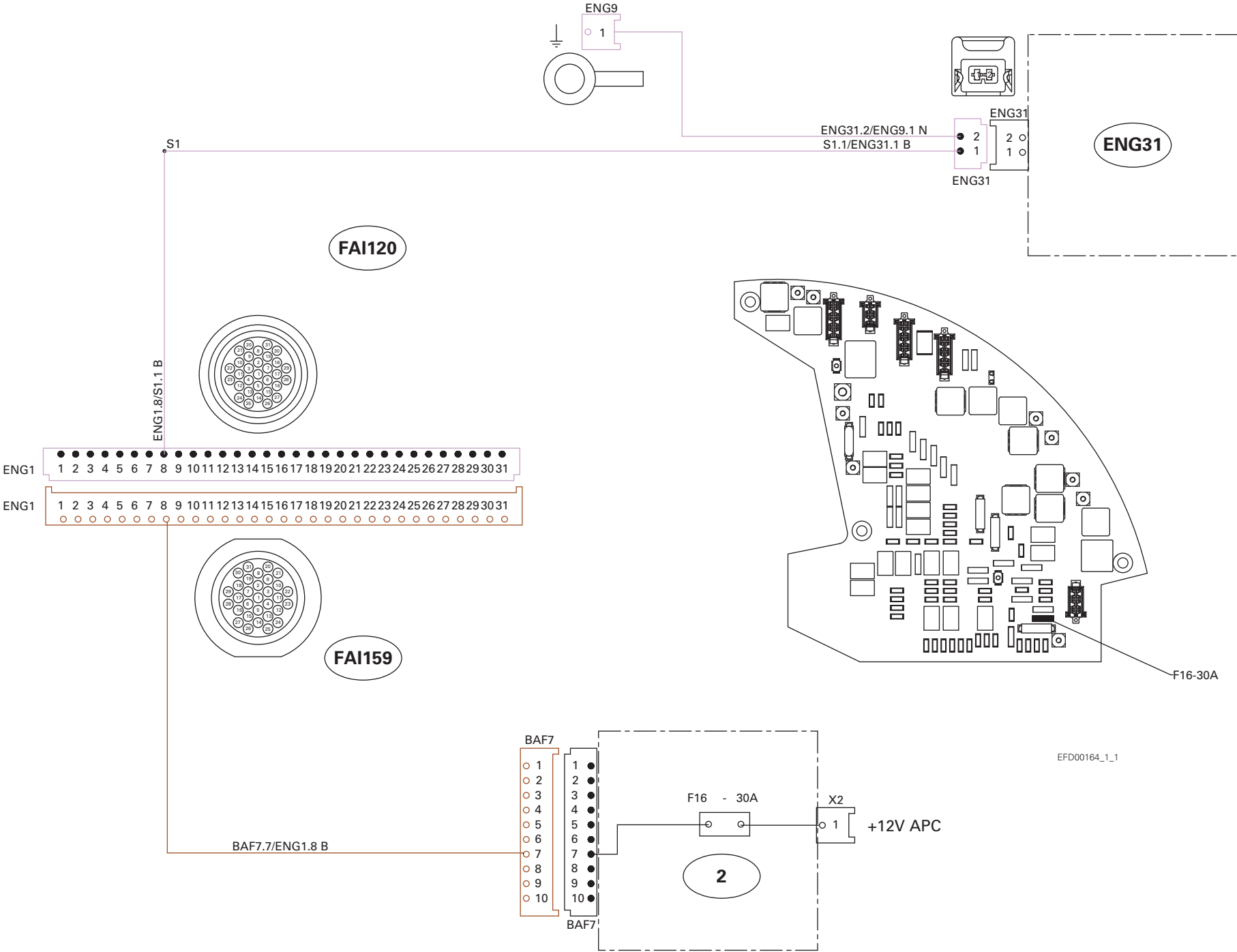
Booster pump—four-cylinder Perkins engine with mechanical injection (GBA25)

- 2 Fuse box
- FAI 120 Perkins engine harness
- FAI 159 Instrument panel harness
- ENG32 Booster pump



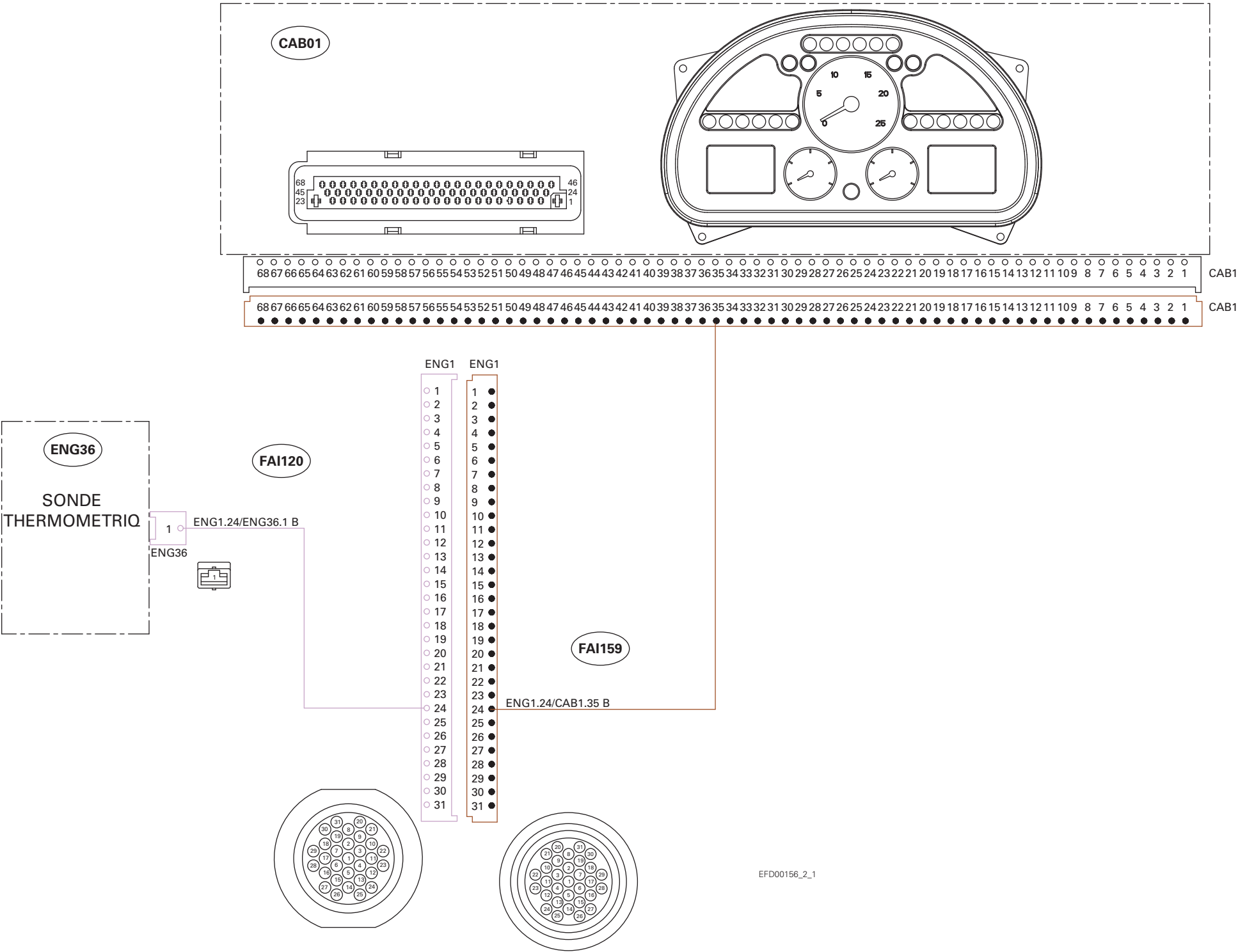
Mechanical injection pump solenoid valve—four-cylinder Perkins engine (GBA25)

- 2 Fuse box
- FAI 120 Perkins engine harness
- FAI 159 Instrument panel harness
- ENG31 Injection pump solenoid valve



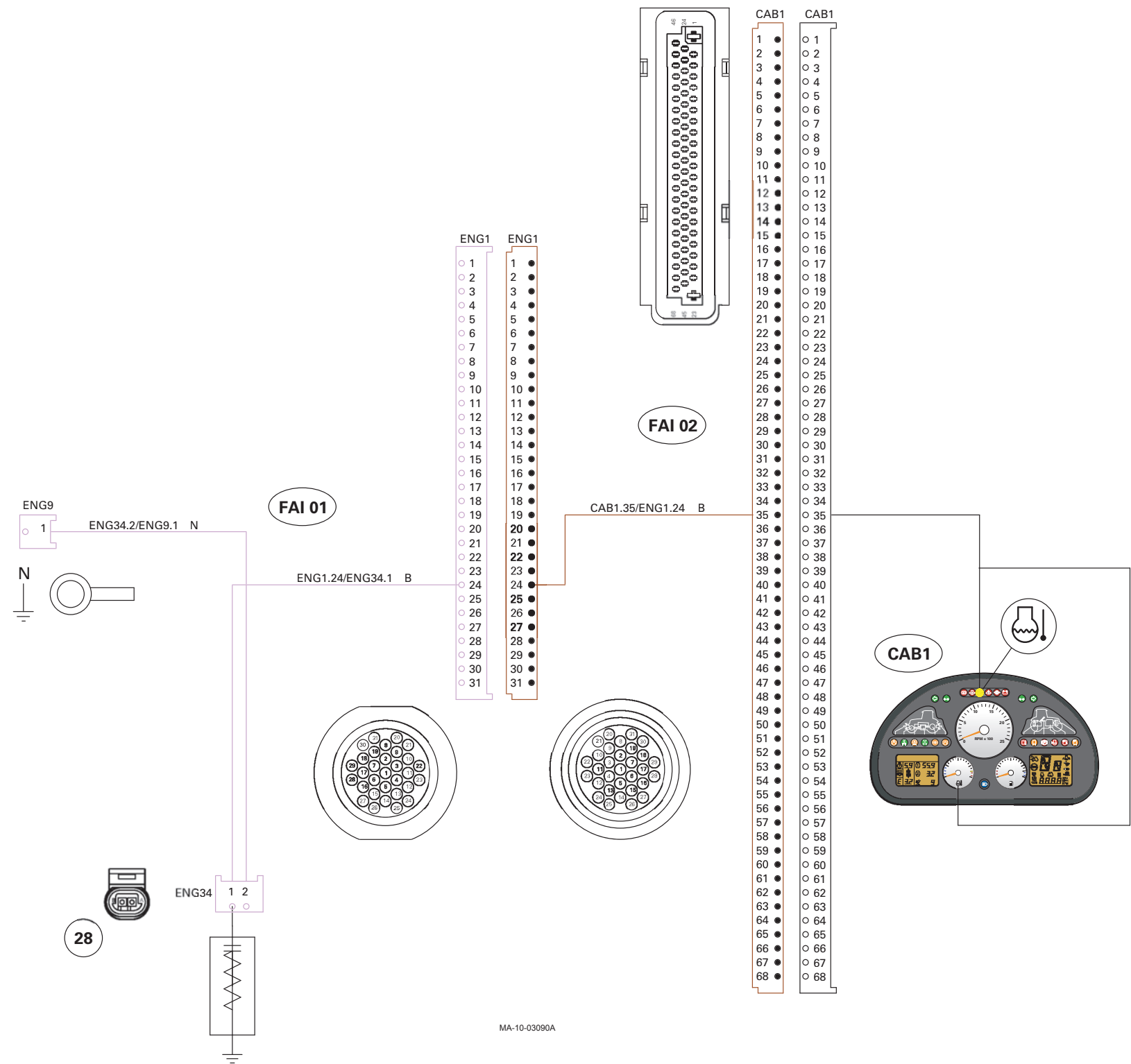
Engine coolant
temperature—four-cylinder Perkins
engine with mechanical injection (GBA25)

- FAI 120 Perkins engine harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- ENG36 Coolant temperature sensor



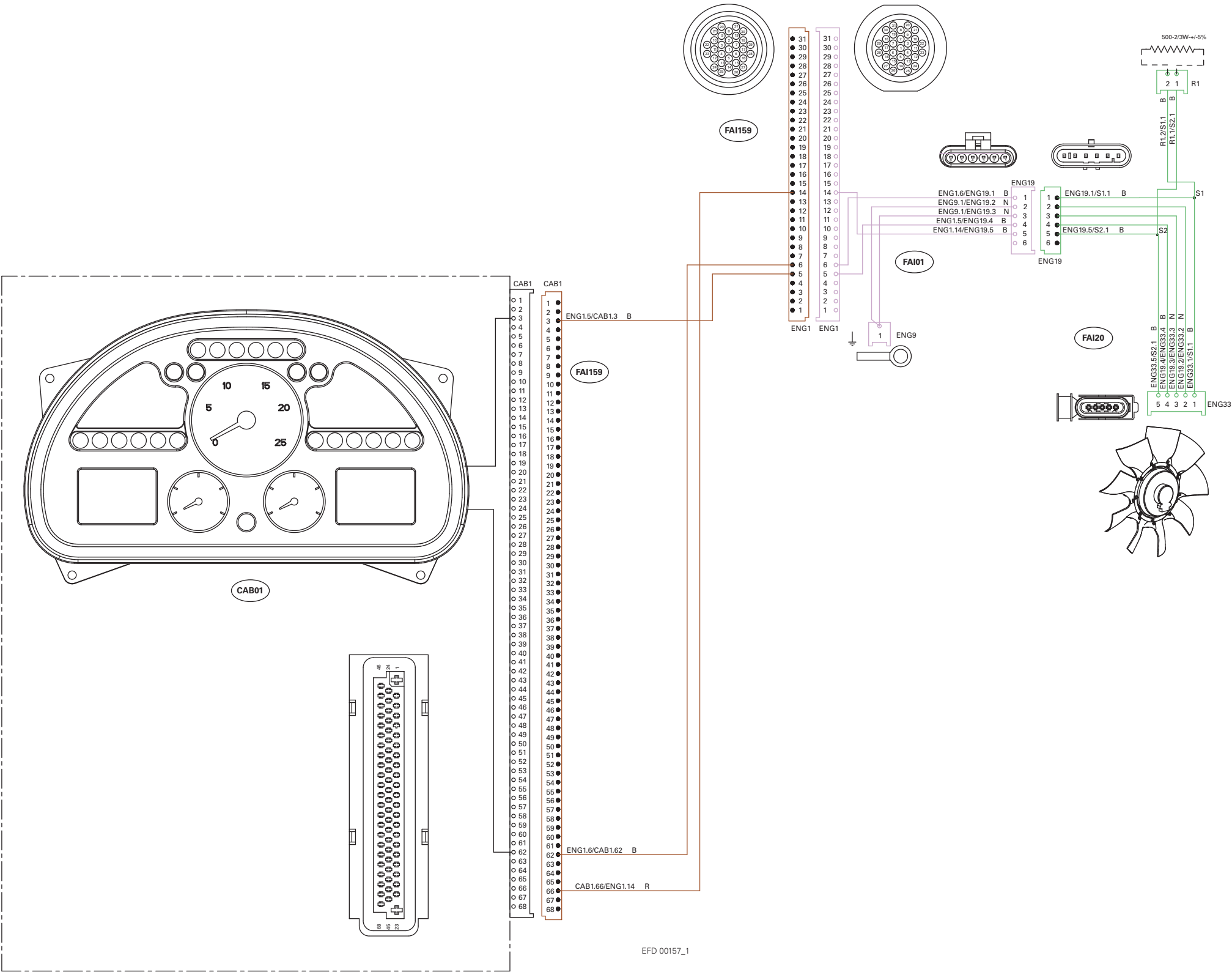
Engine coolant
temperature—four-cylinder Perkins
engine with mechanical injection (GBA20)

- 28 Coolant temperature sensor
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- CAB1 Instrument panel (DCC2)



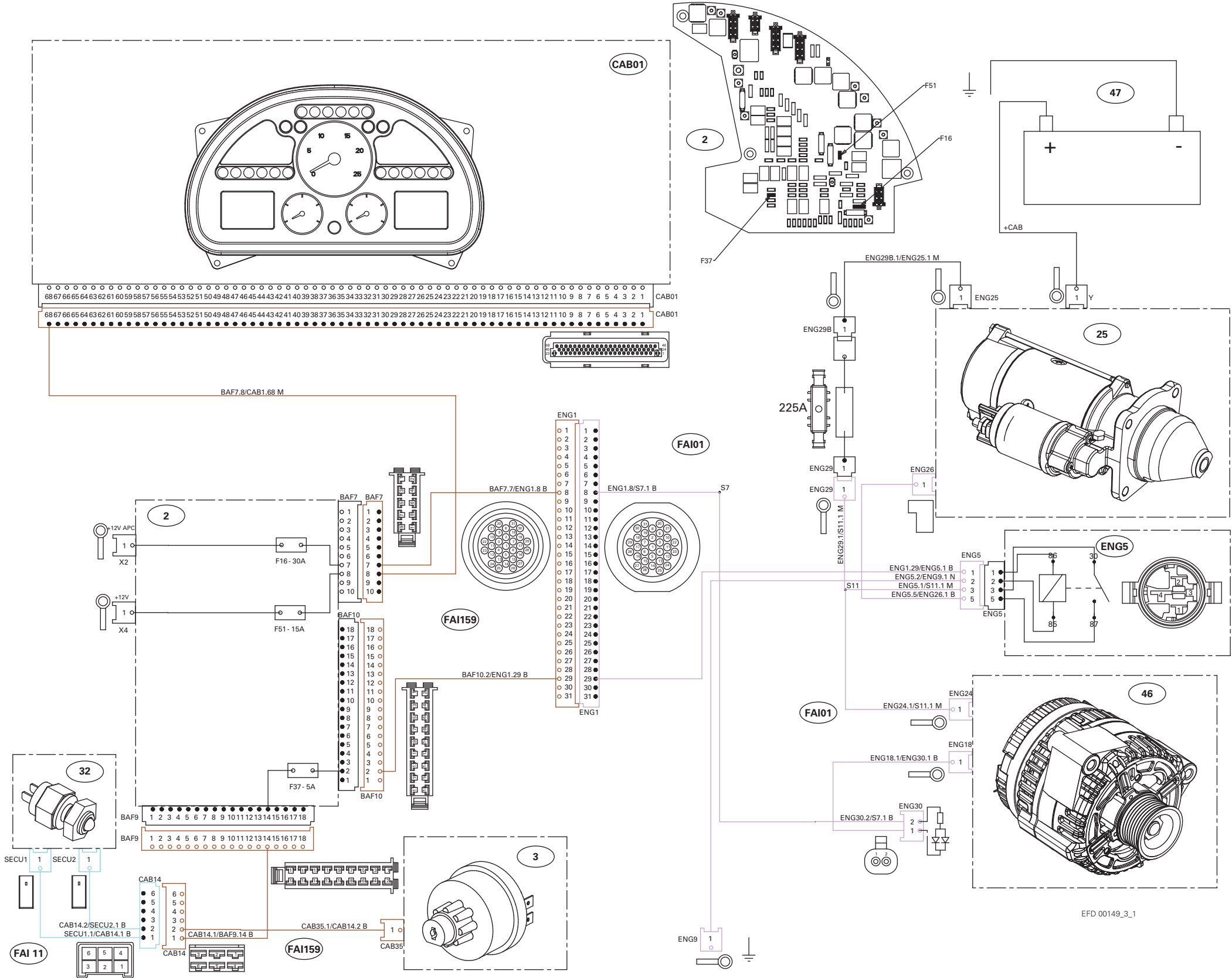
Vistronic fan

- FAI 20 Vistronic fan harness
- FAI 01 Engine harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel



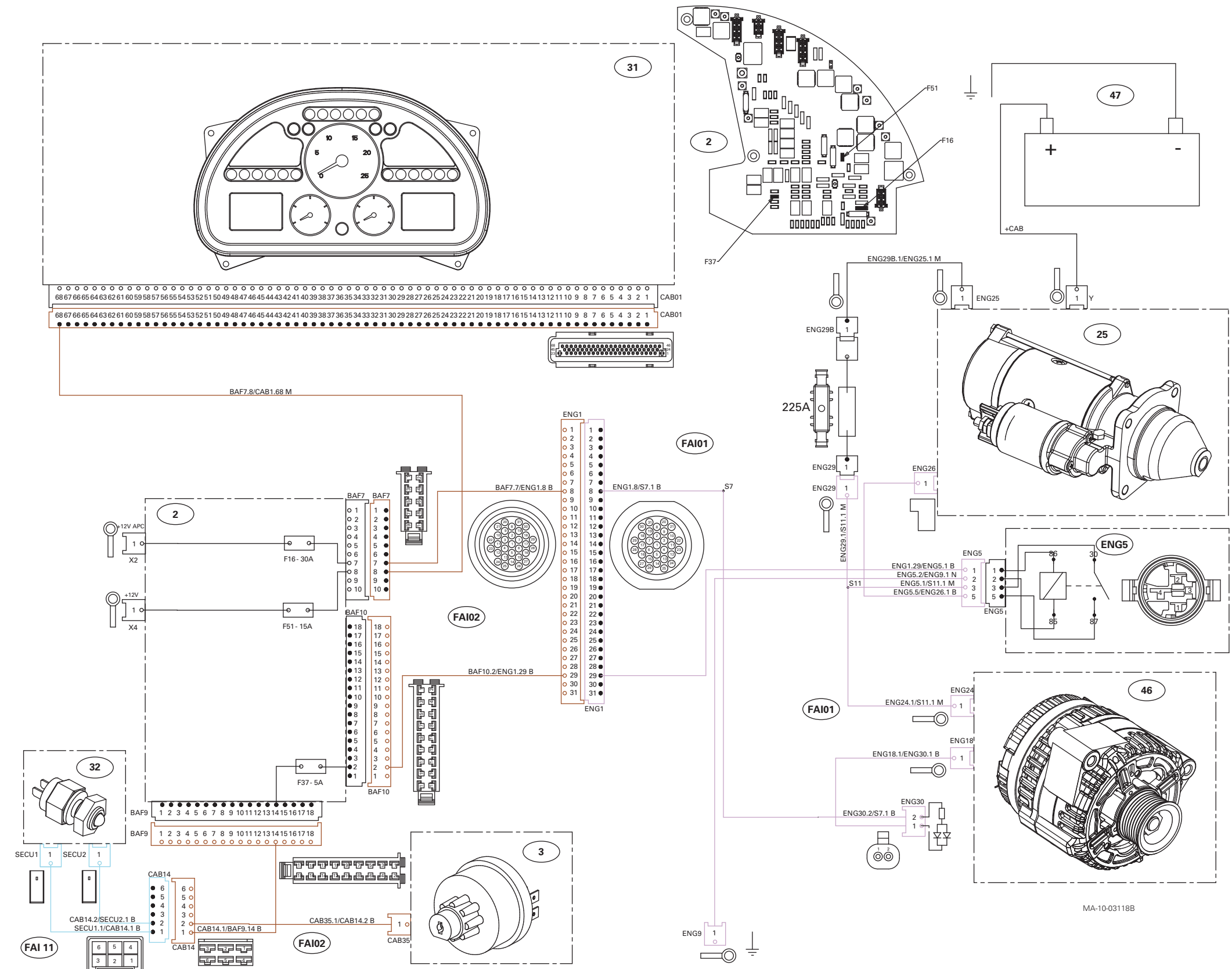
Battery charge and starting (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 3 Start switch
- 25 Starter
- 32 Safety switch
- 46 Alternator
- 47 Battery
- FAI 01 Engine harness
- FAI 11 BOC harness—safety switch
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- ENG5 Start relay



Battery charge and starting (GBA20 and GBA10)

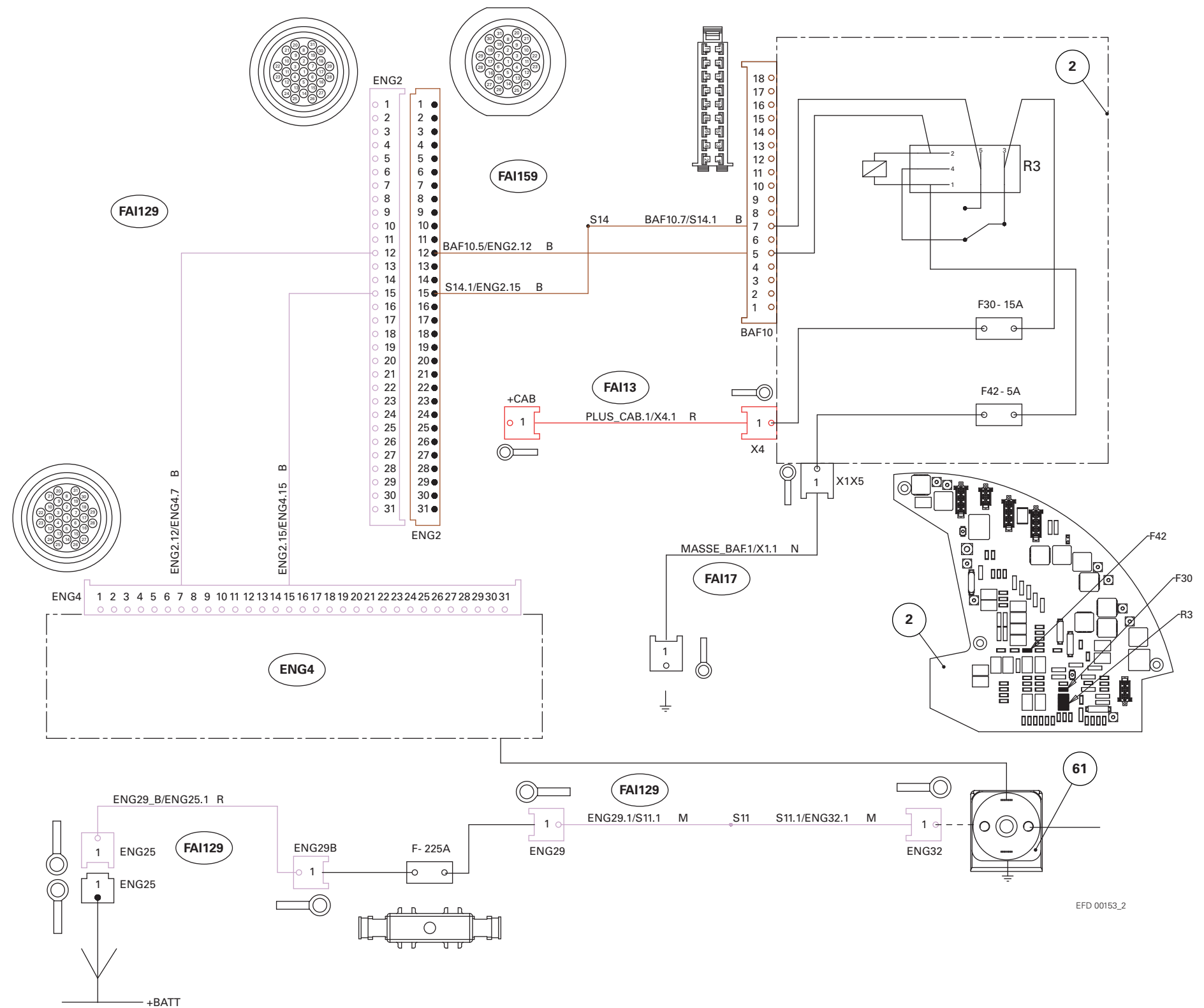
- | | |
|--------|---------------------------|
| 2 | Fuse box |
| 3 | Start switch |
| 21 | Line fuse |
| 25 | Starter |
| 31 | DCC2 instrument panel |
| 46 | Alternator |
| 47 | Battery |
| FAI 01 | Engine harness |
| FAI 02 | Instrument panel harness |
| FAI 11 | BOC harness—safety switch |
| ENG5 | Start relay |



ELECTRICAL DIAGRAMS - Engine equipment

SISU engine power relay (GBA10)

- | | |
|---------|-------------------------------|
| 2 | Fuse box |
| FAI 13 | Fuse box supply harness |
| FAI 17 | BAF fuse box earth harness |
| FAI 129 | EEM SisuDiesel engine harness |
| FAI 159 | Instrument panel harness |
| ENG4 | Electronic harness junction |
| ENG32 | Grid heater relay |



10B12 - ELECTRICAL DIAGRAMS - Lighting

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A . General 3

B . Types of bulbs 5

C . Trailer connector plug 8

D . Electrical panels 11

A . General

Description

The harnesses fitted on the tractor allow data to be exchanged and power to be supplied to the electrical and electronic systems.

The tractor is fitted with 3 different types of power supply:

- +12V Battery (Permanent)
- +12V APC (Ignition key ON)
- +12V ACC (Accessories)

Most harnesses have a maximum of six different wire colours:

- Black: Ground
- Brown: +12V Permanent
- Red: +12V APC (Ignition key ON) and Accessories
- White: Information
- Yellow: CAN High
- Green: CAN Low

The CAN network wires (yellow and green) are twisted together.

- Components with only one connector are identified by the connector name:

CAB03 - Road lights switch (Fig. 1).

- All wires can be identified by the pins of the outgoing and incoming connectors of the harness:

CAB3.7/CAB28.1 : The wire connects pin 7 of the CAB03 connector to pin 1 of the CAB28 connector

- The detail of pins allocation for each connector is shown on the harness side
- The wire colour is indicated: CAB3.7/CAB28.1 N, the wire is black.

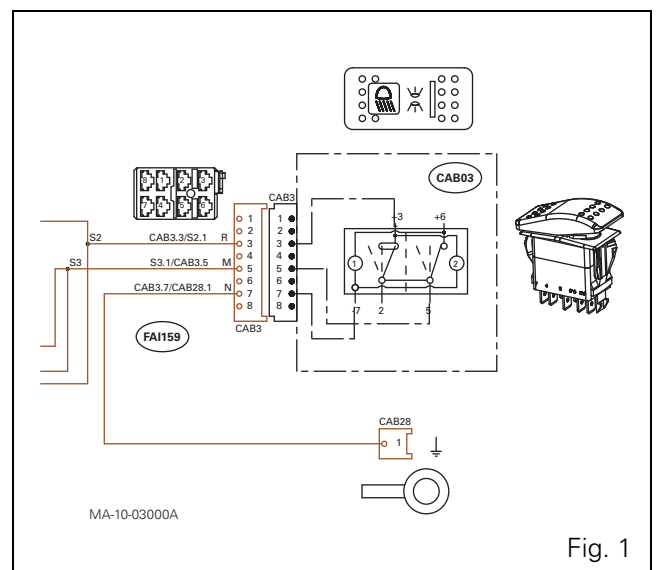
List of colours:

- N: Black
- M: Brown
- R: Red
- B: White
- J: Yellow
- V: Green

- The splices inside the harnesses are indicated by a dot and the letter S (S2).

In general, the components or connectors are named in order to indicate the corresponding elements of the tractor:

AC##	Armrest
BAF##	Fuse box
CA##	Automatic air conditioning
CAB##	Cab
ENG##	Engine
FA##	Suspended front axle
L##	Linkage - ParkLock (HA)
LIG##	Lighting
R##	Linkage and roof
ROOF##	Roof
TR##	Transmission
V#	Electrohydraulic spool valve
X#	Round battery cable terminal on fuse box



ELECTRICAL DIAGRAMS - Lighting

Layout

5 Deutsch connectors (31-way) are connected to the cab:

- 2 on the front panel Fig. 2)
- 3 at the bottom rear right-hand side of the cab (Fig. 3).

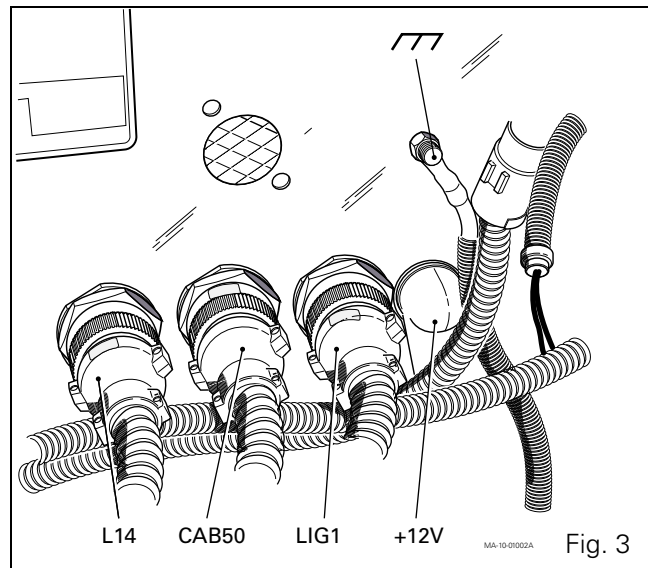
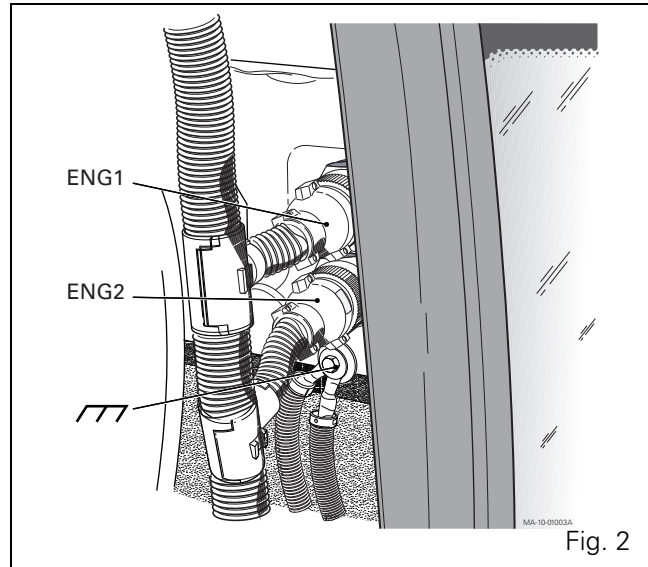
Fig. 2 :

All these connectors belong to the engine harness. ENG2 is dedicated to information concerning the electronic injection.

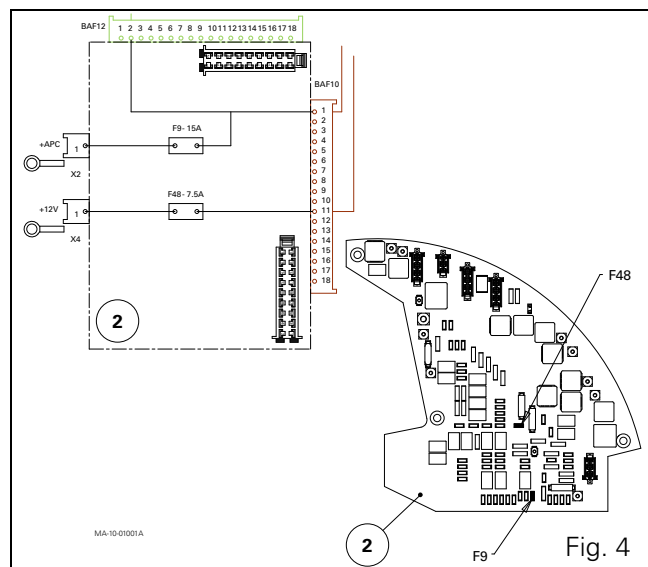
Fig. 3 :

Always in the following order (regardless of tractor configuration and options), from left to right:

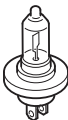
- L14 Linkage harness junction
- CAB50 Transmission harness junction
- LIG1 Lighting harness junction



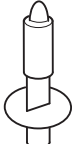
The fuses and relays of the electrical or electronic board (Fig. 4) are indicated by a black mark on their locations on the fuse box (2).



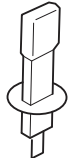
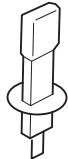
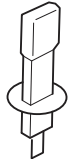
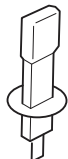
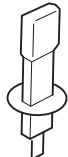
B . Types of bulbs

Main road lights—Europe		
Lighting	Bulb(s)	Type
Main beam and dipped lights on grille 		H4 12V/60W/55W
Main beam and dipped lights on guard rail 		H4 12V/60W/55W
Front side lights and indicators 	Indicator 	12V/21W
	Side light 	12V/5W

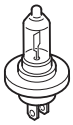
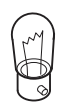
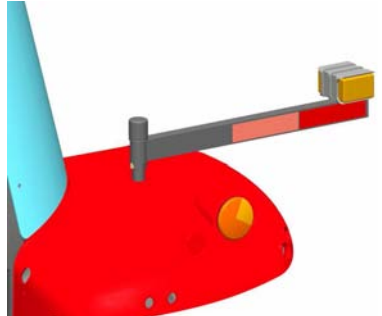
ELECTRICAL DIAGRAMS - Lighting

Side lights/stop lights and rear indicators 	Indicator 	12V/21W
	Side light/stop light 	12V/21W/5W
Rotating beacon(s) 	Rotating beacon 	H1 12V/55W
Reversing light 	Reversing light 	12V/21W

ELECTRICAL DIAGRAMS - Lighting

Work headlights—Europe models			
Lighting	Description	Bulb(s)	Type
Four front roof headlights 	Single bulb	Work headlight 	H3 12V/55W
	Double bulbs		H3 12V/55W
	Xenon bulb		Xenon bulb GDL D2S/35W
Two rear roof headlights 	Double bulbs	Work headlight 	H3 12V/55W
	Xenon bulb		Xenon bulb GDL D2S/35W
Headlights on guard rail 	Single bulb	Work headlight 	H3 12V/55W
	Double bulbs		H3 12V/55W
Fender headlights 	Single bulb	Work headlight 	H3 12V/55W
Footplate headlights 	Single bulb	Work headlight 	H3 12V/55W

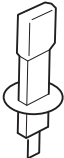
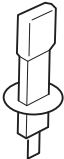
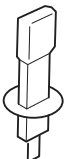
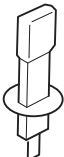
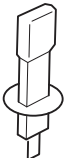
ELECTRICAL DIAGRAMS - Lighting

Road Lights—North America		
Lighting	Bulb(s)	Description
Main beam and dipped lights 	Headlight 	H4 12V/60W/55W
Front side lights and indicators 	Indicator 	12V/21W
	Side light 	12V/5W
Rear side lights/stop lights and indicators with extension (North America) 	Indicator 	12V/21W
	Extension 	12V/21W
	Side light/stop light 	12V/21W/5W

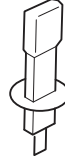
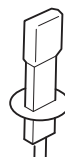
ELECTRICAL DIAGRAMS - Lighting

Front roof indicators	Indicator	12V/21W
Rear roof indicators	Indicator	12V/21W
Rotating beacon(s)	Rotating beacon	H1 12V/55W

ELECTRICAL DIAGRAMS - Lighting

Work headlights—North America			
Lighting	Description	Bulb(s)	Type
	Single bulb		H3 12V/55W
	Double bulbs		H3 12V/55W
	Xenon bulb		Xenon bulb GDL D2S/35W
	Double bulbs		H3 12V/55W
	Xenon bulb		Xenon bulb GDL D2S/35W
	Single bulb		H3 12V/55W
	Double bulbs		H3 12V/55W
	Single bulb		H3 12V/55W
	Single bulb		H3 12V/55W

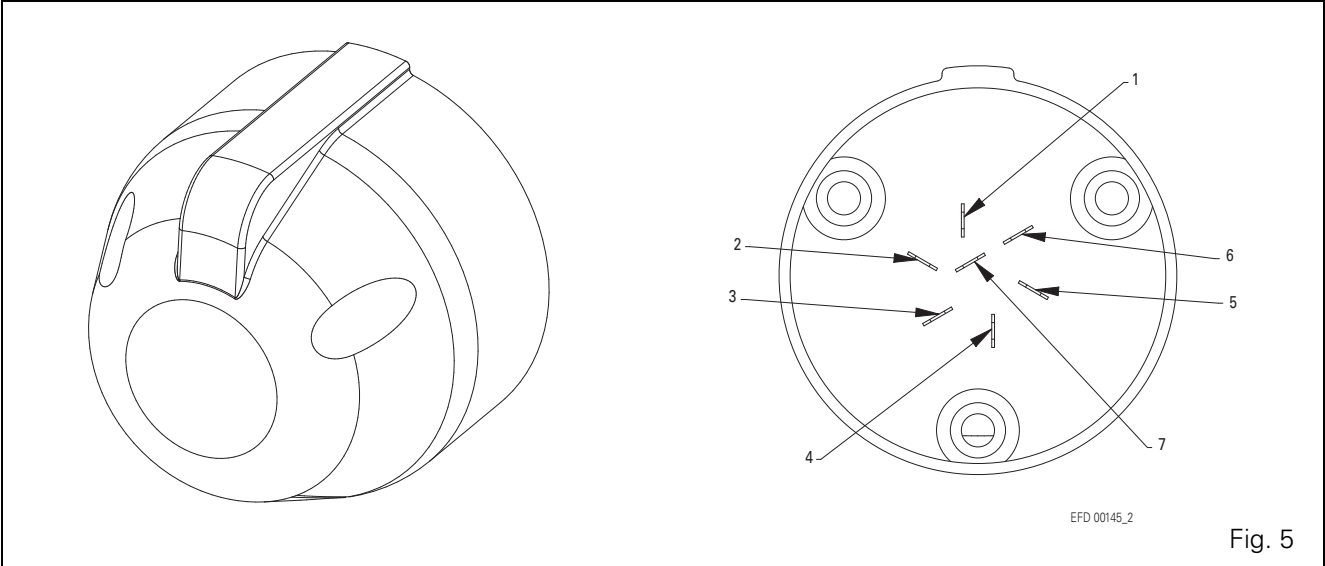
ELECTRICAL DIAGRAMS - Lighting

Work headlights—high-visibility model			
Lighting	Description	Bulb(s)	Type
Two front roof headlights 	Single bulb	Work headlight	H3 12V/55W
	Double bulbs		H3 12V/55W
Two rear roof headlights 	Single bulb	Work headlight	H3 12V/55W
	Double bulbs		H3 12V/55W

ELECTRICAL DIAGRAMS - Lighting

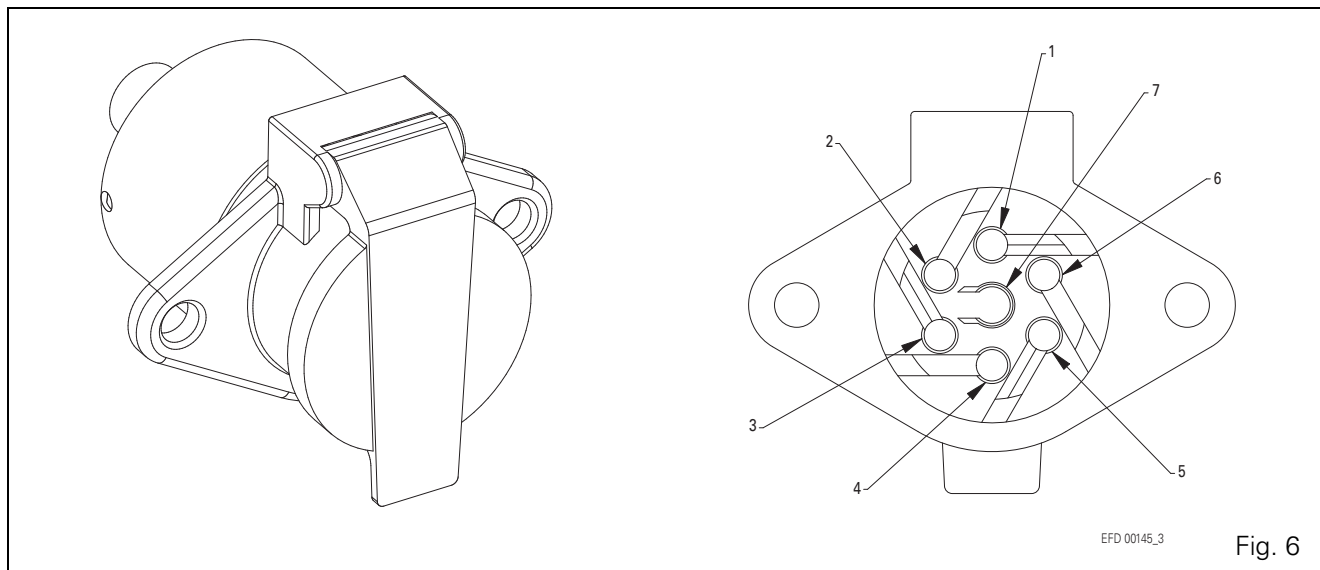
C . Trailer connector plug

Trailer connector—Europe (Fig. 5)



Plug		Function	Code on wire	Wire colour
1	L	Rear left-hand indicator	LIG19-1/S10-1	White
2	54G	Reversing light/accessories	LIG22-1/S12-1	White
3	31	Earth	LIG21-1/LIG3-1	Black
4	R	Rear right-hand indicator	LIG18-1/S9-1	White
5	58R	Rear right-hand side light	LIG16-1/S7-1	White
6	54	Stop lights	LIG20-1/S11-1	White
7	58L	Rear left-hand side light	LIG17-1/S8-1	White

Trailer connector—North America (Fig. 6)



Plug		Function	Code on wire	Wire colour
1	31	Earth	LIG21-1/LIG3-1	Black
2	58L	Work headlight	LIG20-1/S13-1	White
3	L	Rear left-hand indicator	LIG18-1/S9-1	White
4	54	Rear left-hand side light	LIG17-1/S8-1	White
5	R	Rear right-hand indicator	LIG19-1/S10-1	White
6	58R	Rear right-hand side light	LIG16-1/S7-1	White
7		+ accessories	LIG22-1/S12-1	Brown

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D . Electrical panels

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ELECTRICAL DIAGRAMS - Lighting

Xenon work headlights on roof—North America
(GBA25 and GBA10-Auto5) 65

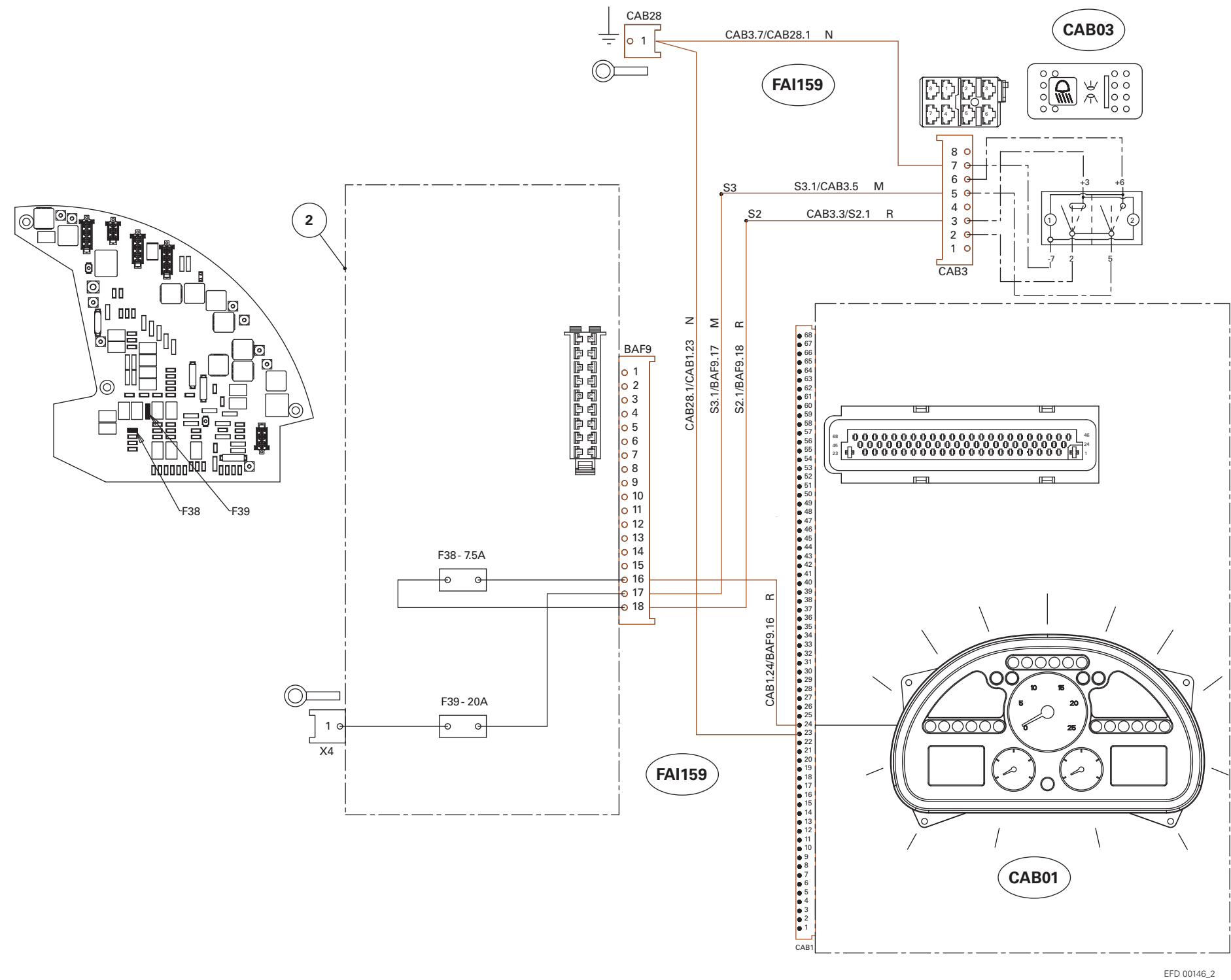
Work headlights on fenders and guard rails—Europe
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Work headlights on fenders and guard rails (GBA20
and GBA10) 67

Work headlights on fenders—North America (GBA25
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Instrument panel lighting (GBA25 and GBA10-Auto5)

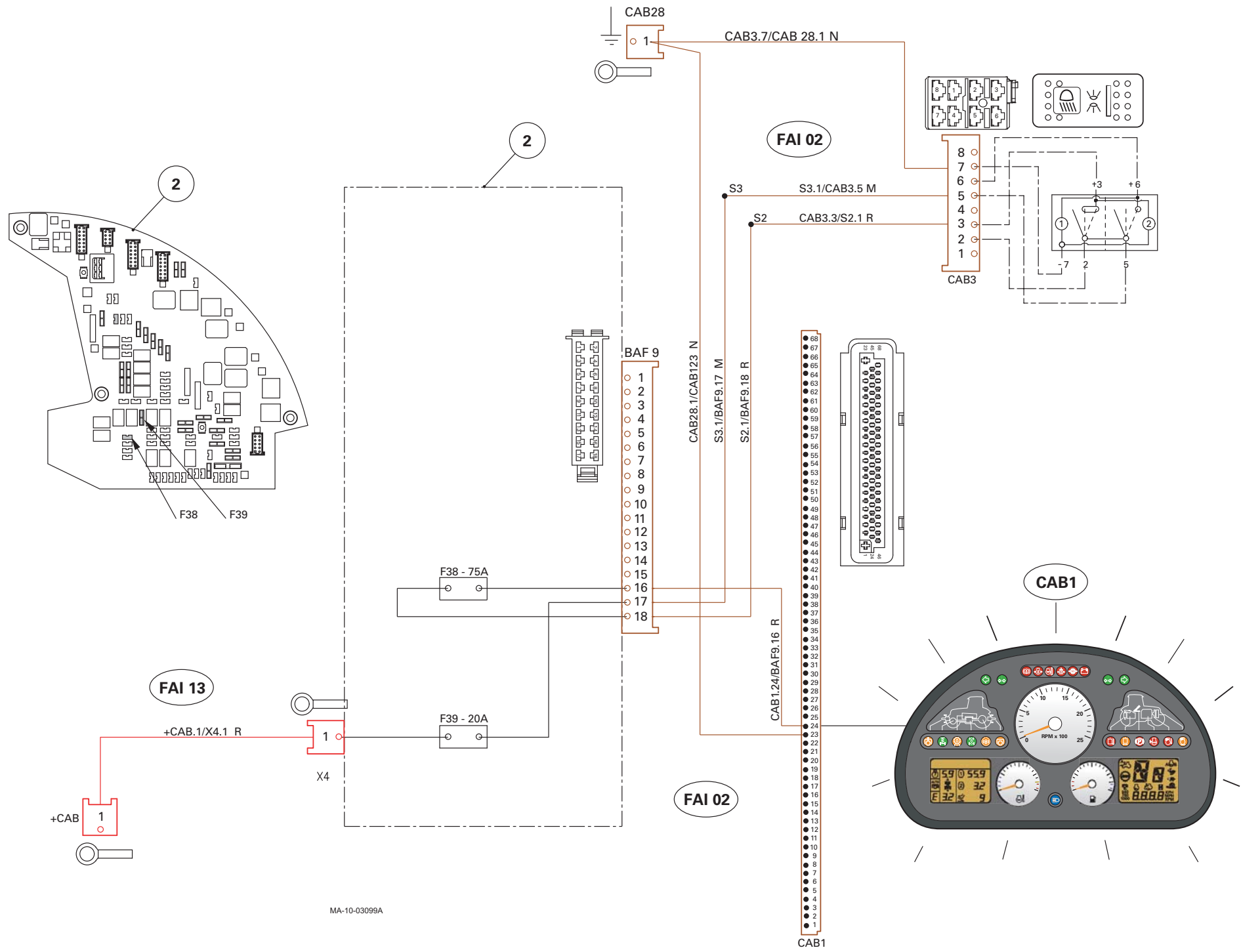
- 2 Fuse box
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB03 Road lights switch



ELECTRICAL DIAGRAMS - Lighting

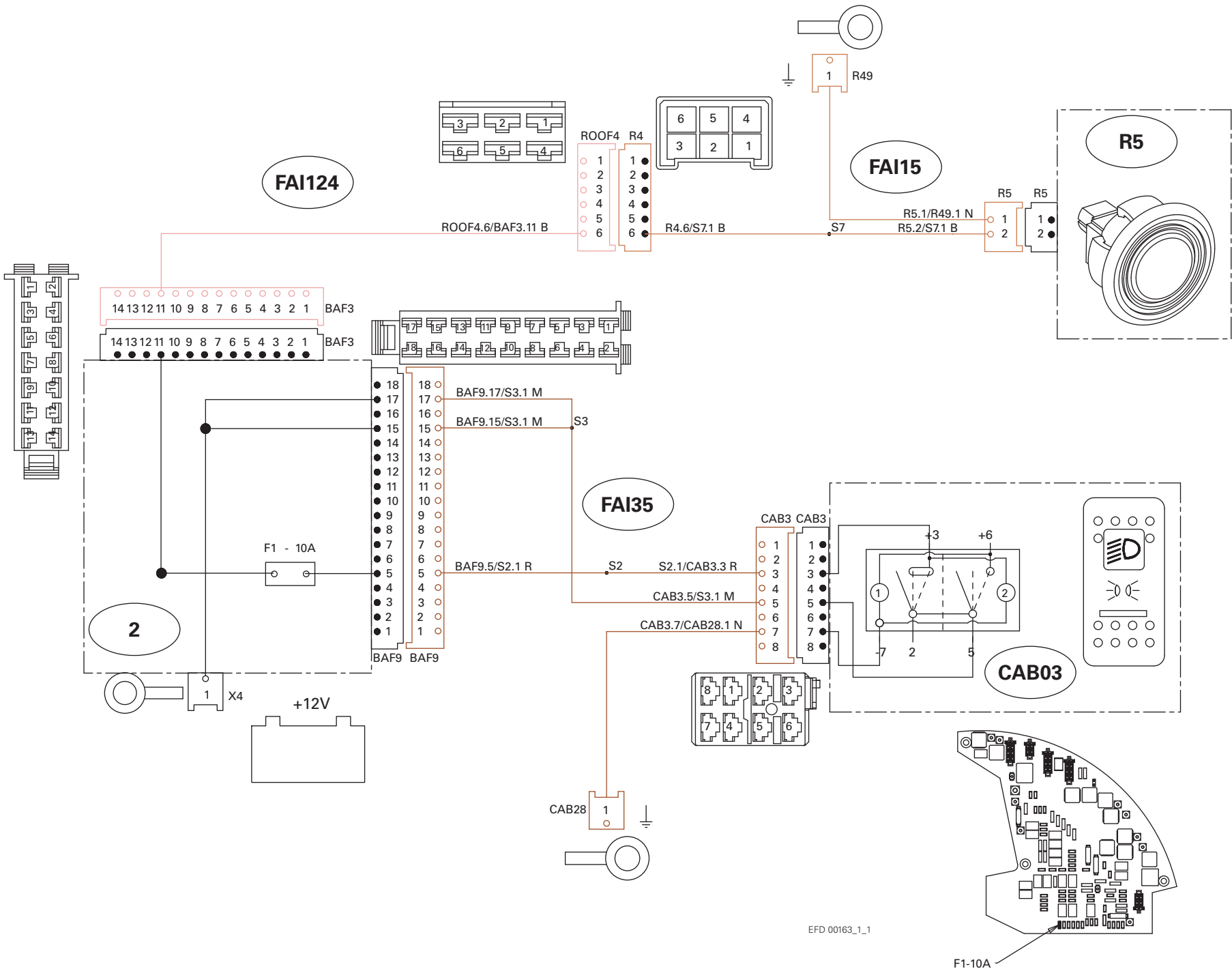
Instrument panel lighting (GBA20 and GBA10)

- 2 Fuse box
- FAI 02 Instrument panel harness
- FAI 13 Fuse box supply harness
- CAB1 Instrument panel (DCC2)



Console lighting—standard roof (GBA25 and GBA10-Auto5)

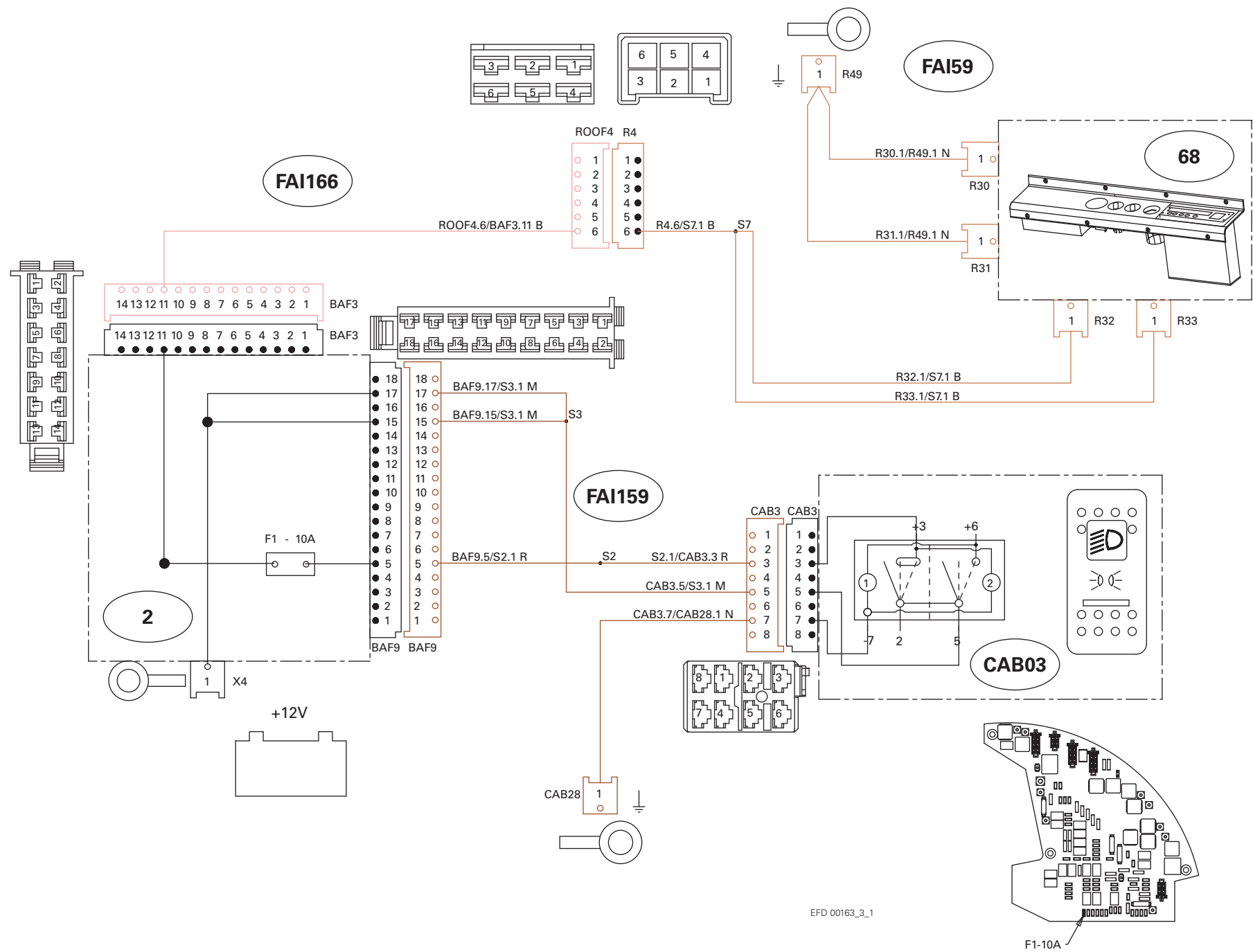
- 2 Fuse box
- FAI 15 Roof harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch
- R5 Console lighting



ELECTRICAL DIAGRAMS - Lighting

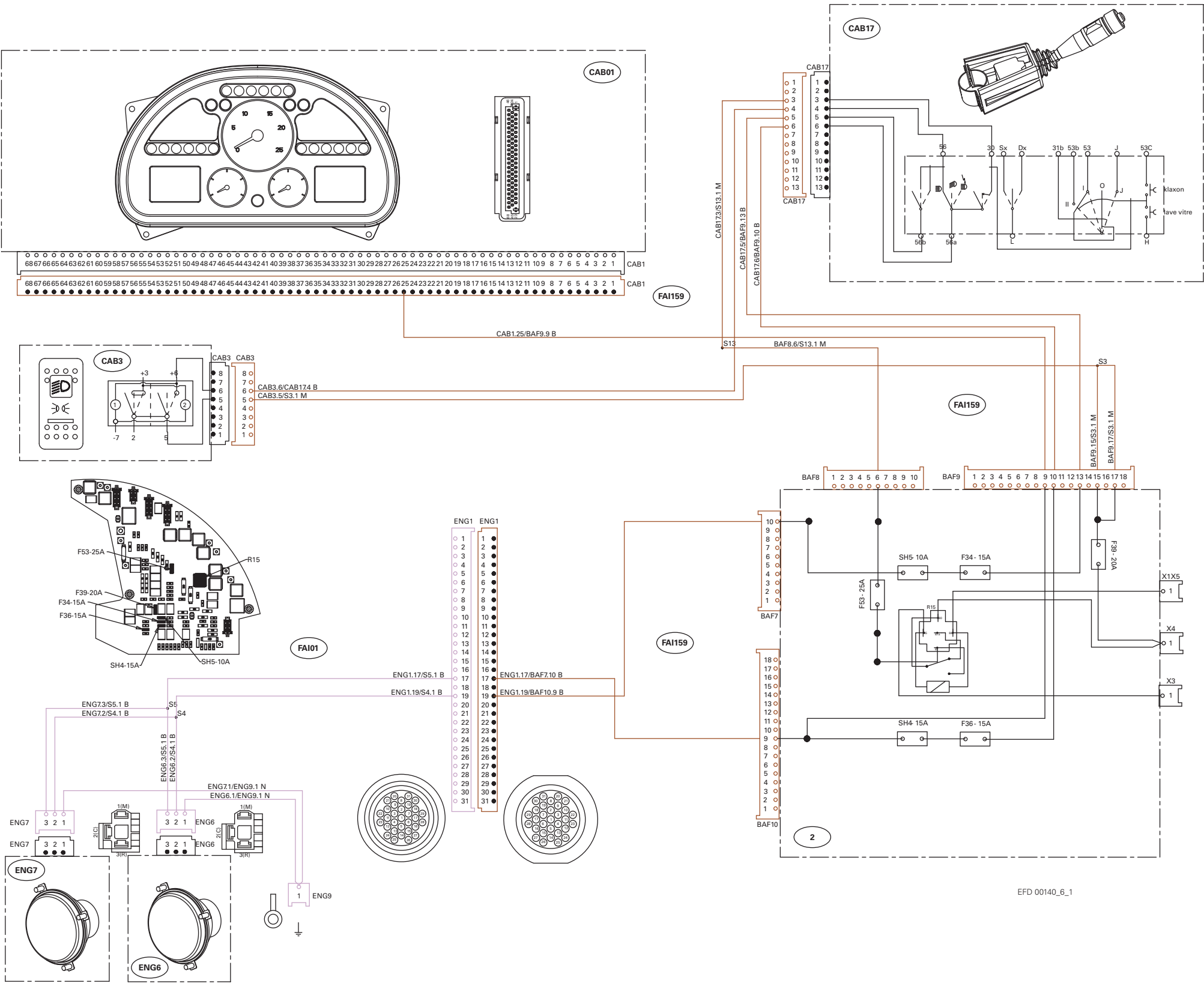
Console lighting—high-visibility roof
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- 68 Console lighting—high-visibility roof
- FAI 59 High-visibility roof harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch



Main beams and dipped lights—Europe and North America (GBA25 and GBA10-Auto5)

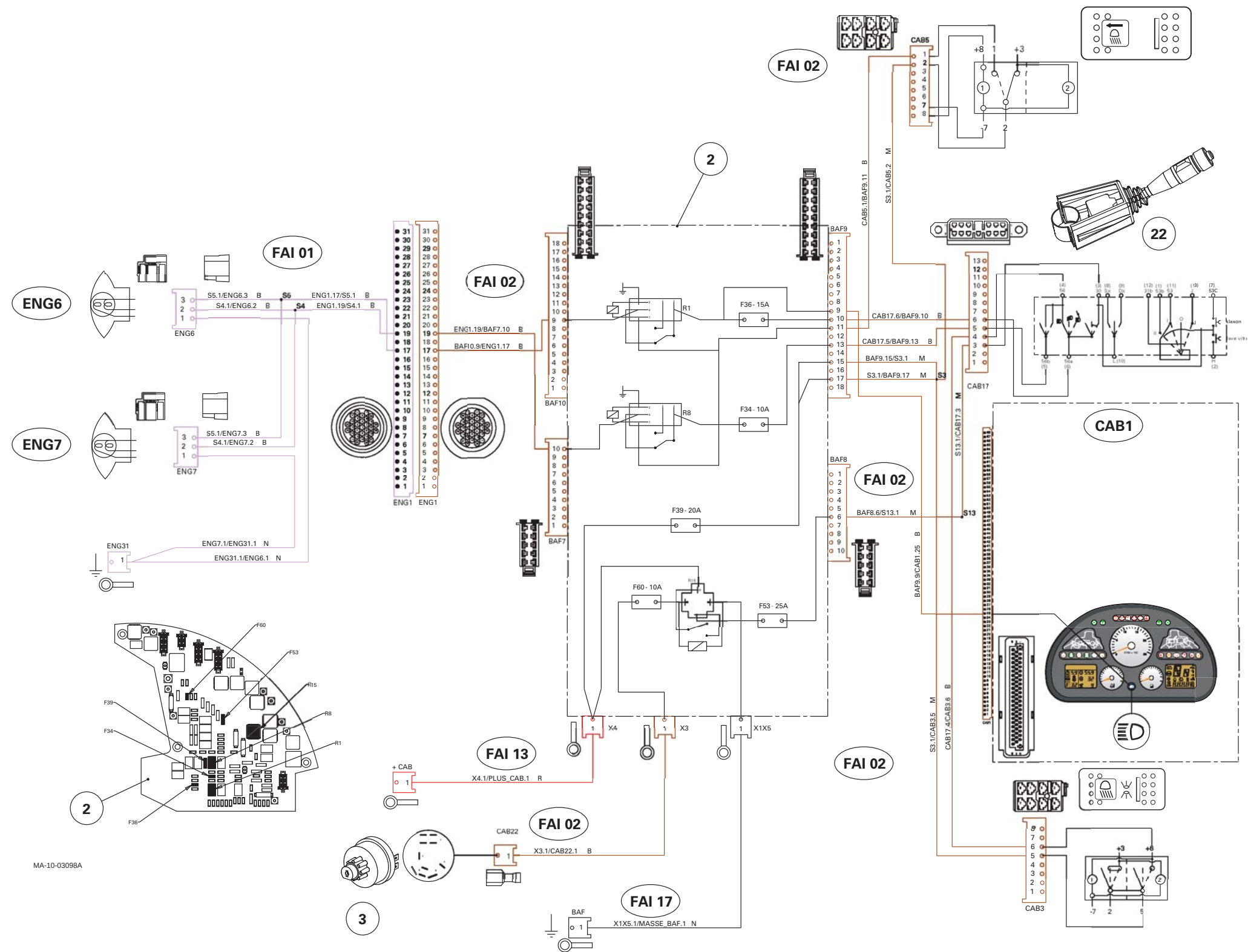
- 2 Fuse box
- FAI 01 Engine harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB17 Windscreen wiper controls
- ENG6 Right-hand main beam and dipped light
- ENG7 Left-hand main beam and dipped light



ELECTRICAL DIAGRAMS - Lighting

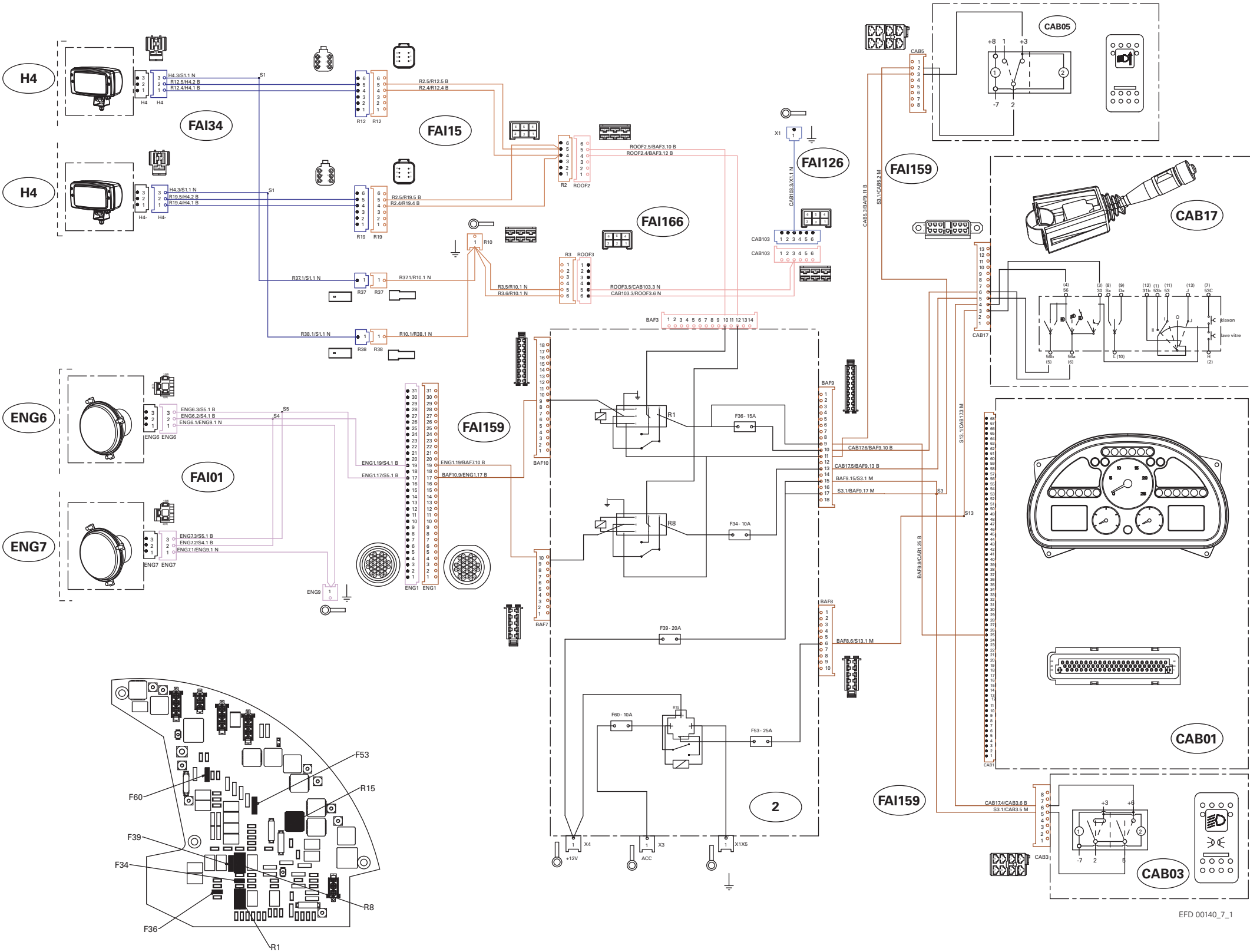
Main beams and dipped lights—Europe and North America (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 13 Fuse box supply harness
- FAI 17 BAF fuse box earth harness
- ENG6 Right-hand main beam and dipped light
- ENG7 Left-hand main beam and dipped light
- CAB1 Instrument panel (DCC2)



Main beams and dipped lights—Germany
(GBA25 and GBA10-Auto5)

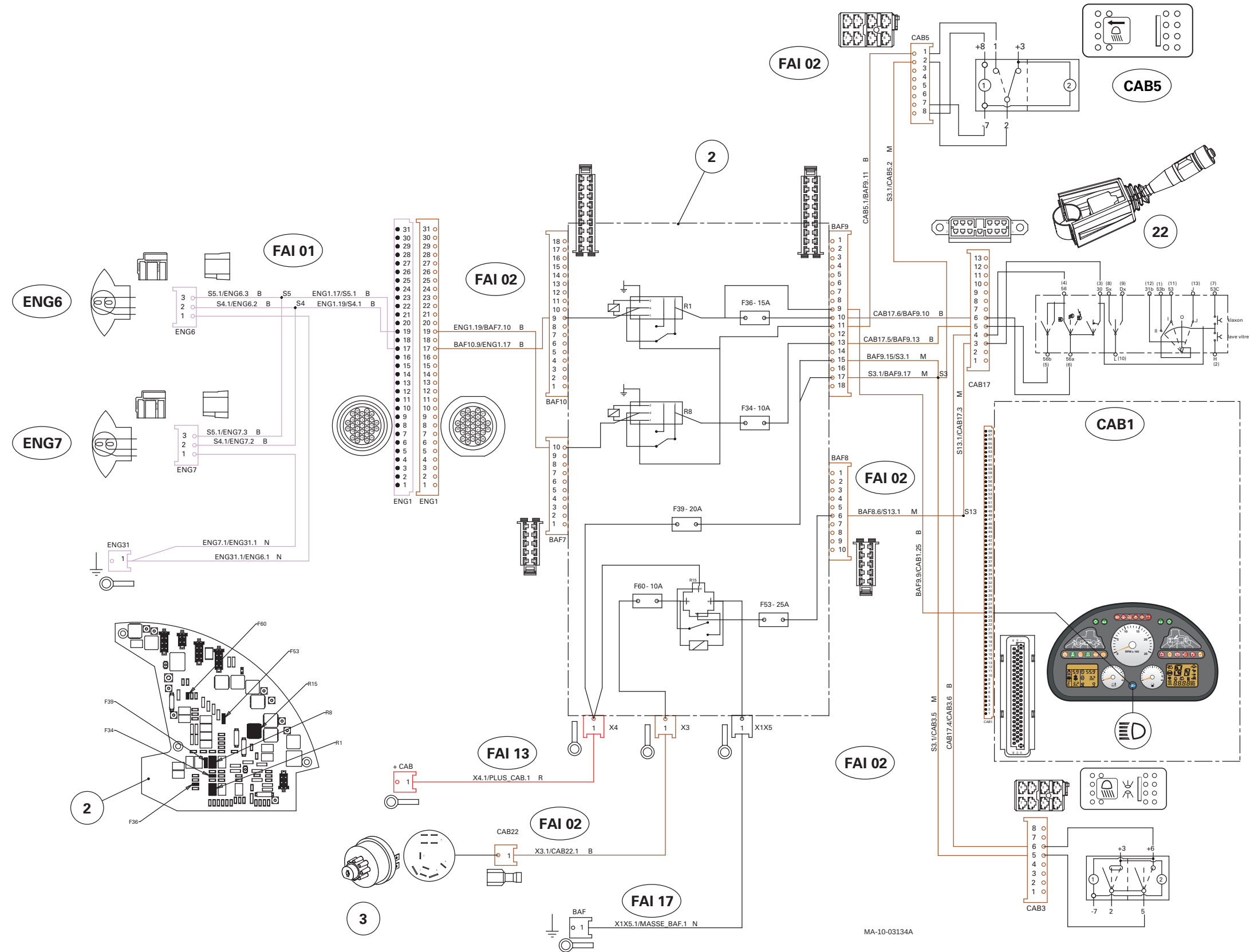
- 2 Fuse box
- FAI 01 Engine harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 126 Cab interior lighting harness (all countries except US)
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- CAB03 Road lights switch
- CAB05 Guard rail main beam light switch
- CAB17 Windscreen wiper controls
- ENG6 Right-hand main beam and dipped light
- ENG7 Left-hand main beam and dipped light
- H4 Main beam lights on guard rail



ELECTRICAL DIAGRAMS - Lighting

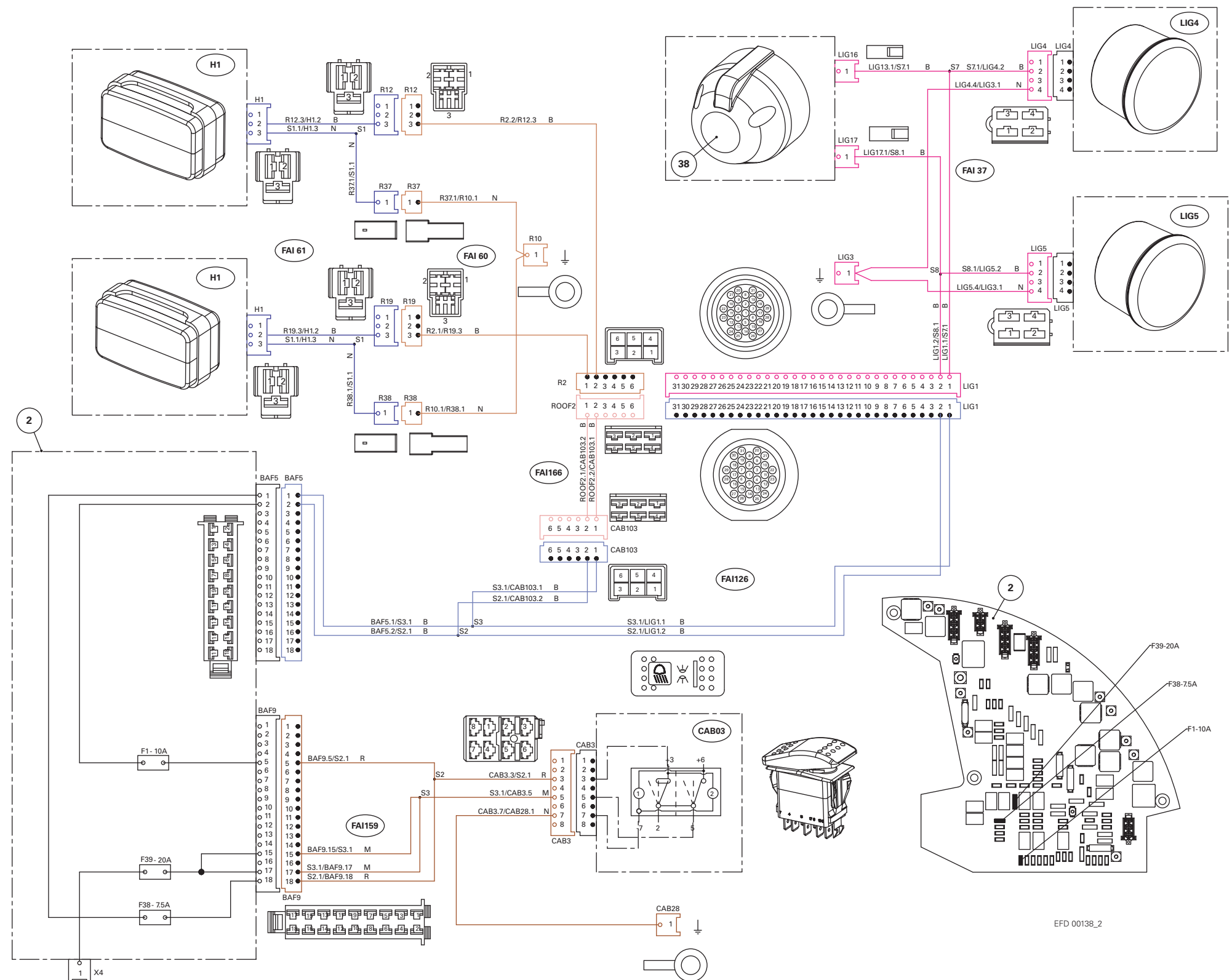
Main beams and dipped lights—Germany
(GBA20 and GBA10)

- 2 Fuse box
- 3 Start switch
- 22 Windscreen wiper controls
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 13 Fuse box supply harness
- FAI 17 BAF fuse box earth harness
- ENG6 Right-hand main beam and dipped light
- ENG7 Left-hand main beam and dipped light
- CAB1 Instrument panel (DCC2)
- CAB5 Guard rail main beam light switch



Side lights—Europe (GBA25 and GBA10-Auto5)

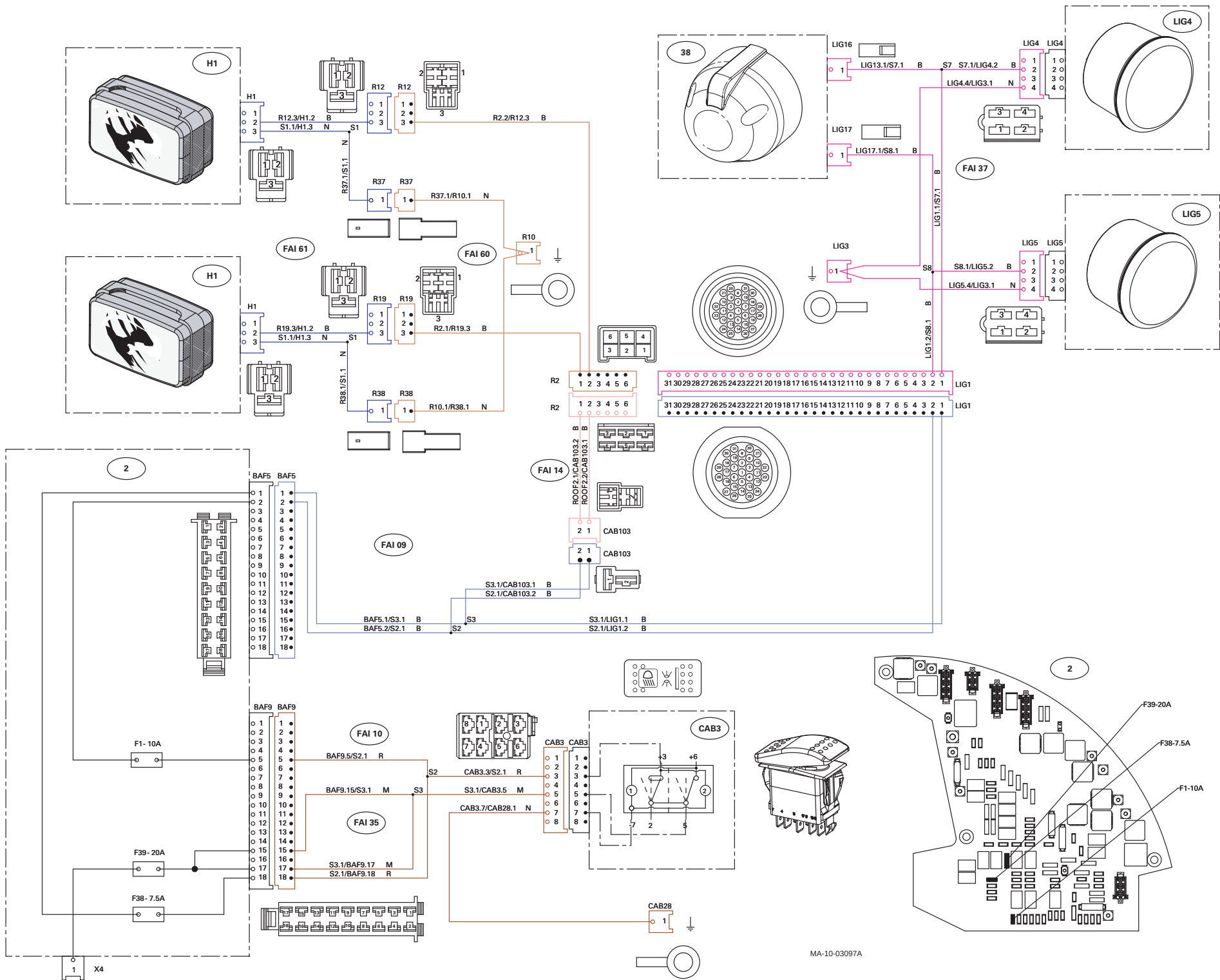
- | | |
|---------|---|
| 2 | Fuse box |
| 38 | Trailer connector—Europe |
| FAI 37 | Fender lighting harness (all countries except US) |
| FAI 60 | Roof harness (all countries except US) |
| FAI 61 | Guard rail harness (all countries except US) |
| FAI 126 | Lighting harness—Europe |
| FAI 159 | Instrument panel harness |
| FAI 166 | Pillar harness |
| CAB03 | Road lights switch |
| LIG4 | Right-hand rear light |
| LIG5 | Left-hand rear light |
| H1 | Front side lights |



ELECTRICAL DIAGRAMS - Lighting

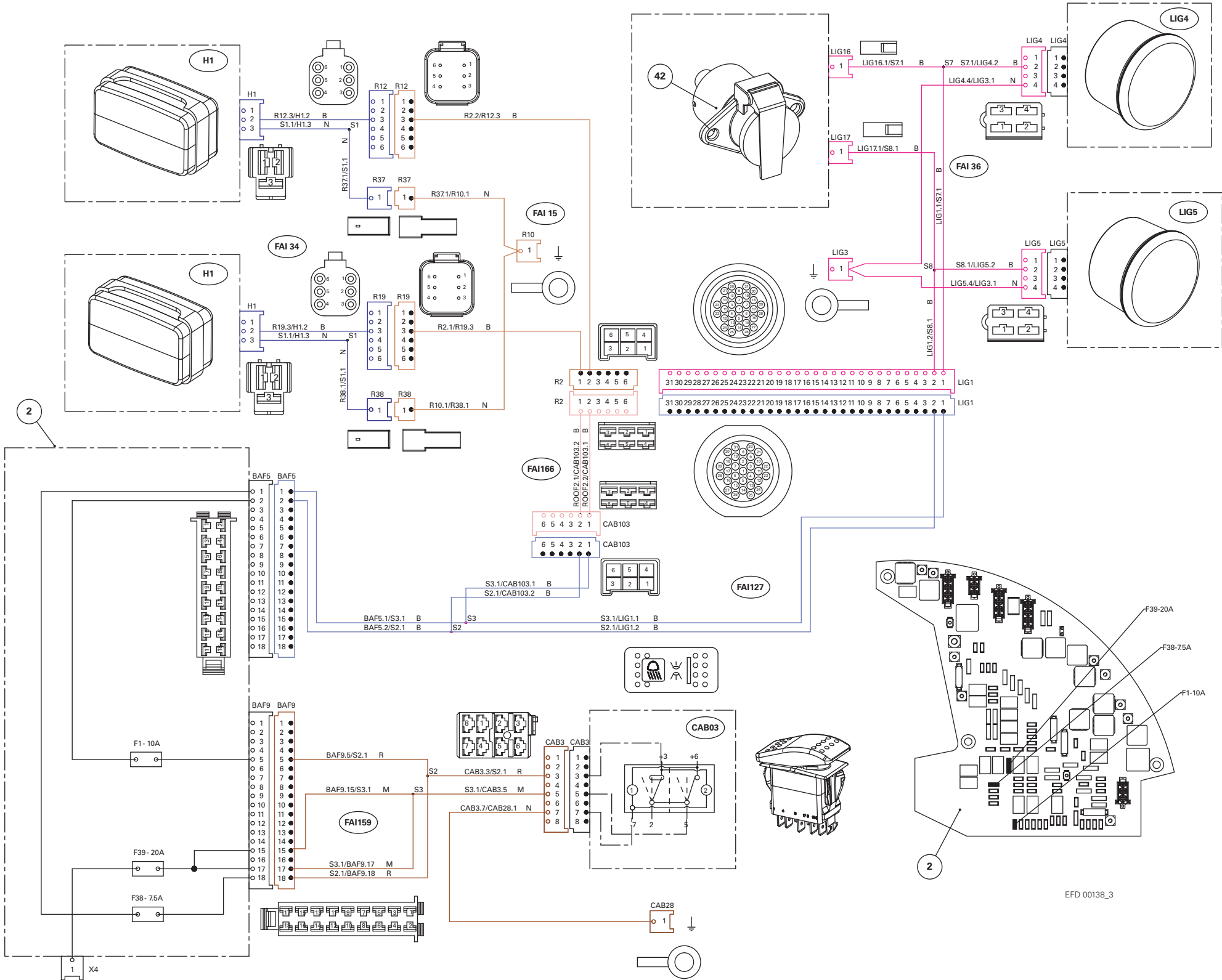
Side lights—Europe (GBA20 and GBA10)

- 2 Fuse box
- 38 Trailer connector—Europe
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 10 Dynashift with EEM instrument panel harness
- FAI 37 Fender lighting harness (all countries except US)
- FAI 60 Roof harness (all countries except US)
- FAI 61 Guard rail lighting harness (all countries except US)
- CAB3 Road lights switch
- H1 Left and right-hand front side lights
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights



Side lights—North America (GBA25 and GBA10-Auto5)

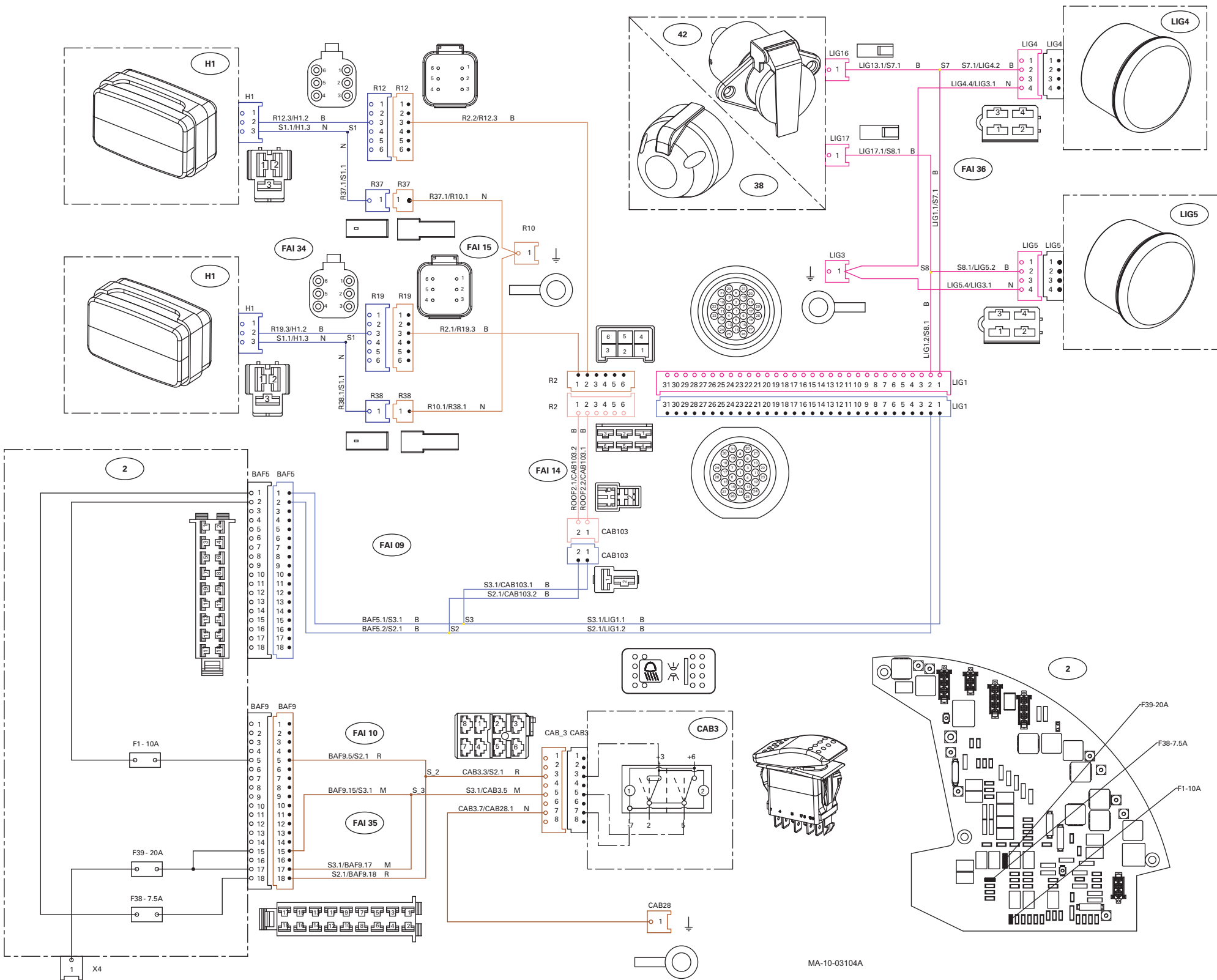
- 2 Fuse box
- 42 Trailer connector—North America
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 36 Fender lighting harness (US)
- FAI 127 Lighting harness—US
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light
- H1 Front side lights



ELECTRICAL DIAGRAMS - Lighting

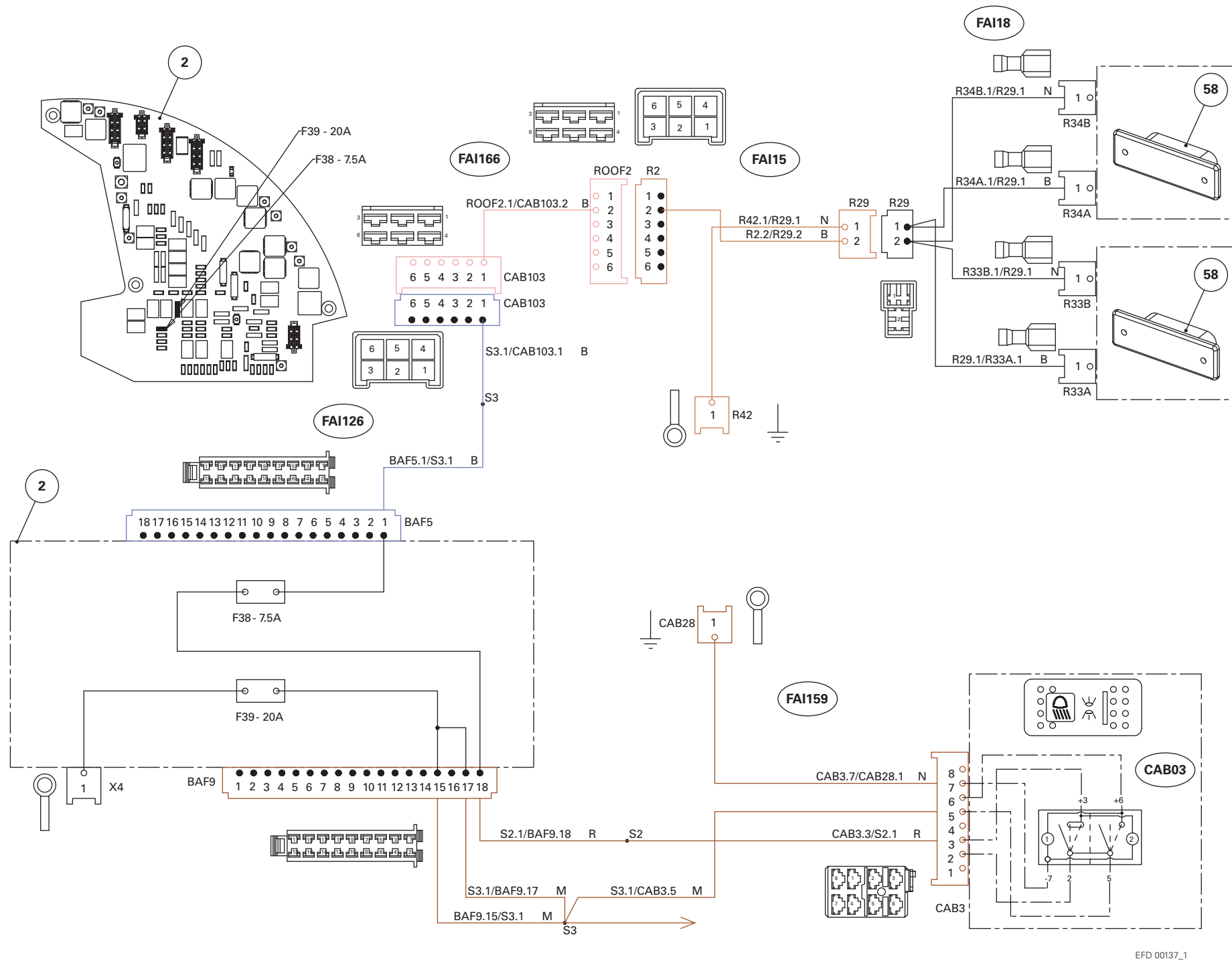
Side lights—high-visibility roof and North America (GBA20 and GBA10)

- 2 Fuse box
- 38 Trailer connector—Europe
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 10 Dynashift with EEM instrument panel harness
- FAI 36 Fender lighting harness (US)
- CAB3 Road lights switch
- H1 Left and right-hand front side lights
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights



Number plate lighting—standard roof
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- 58 Number plate lighting
- FAI 15 Roof harness
- FAI 18 Number plate lighting harness
- FAI 126 Lighting harness—Europe
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch

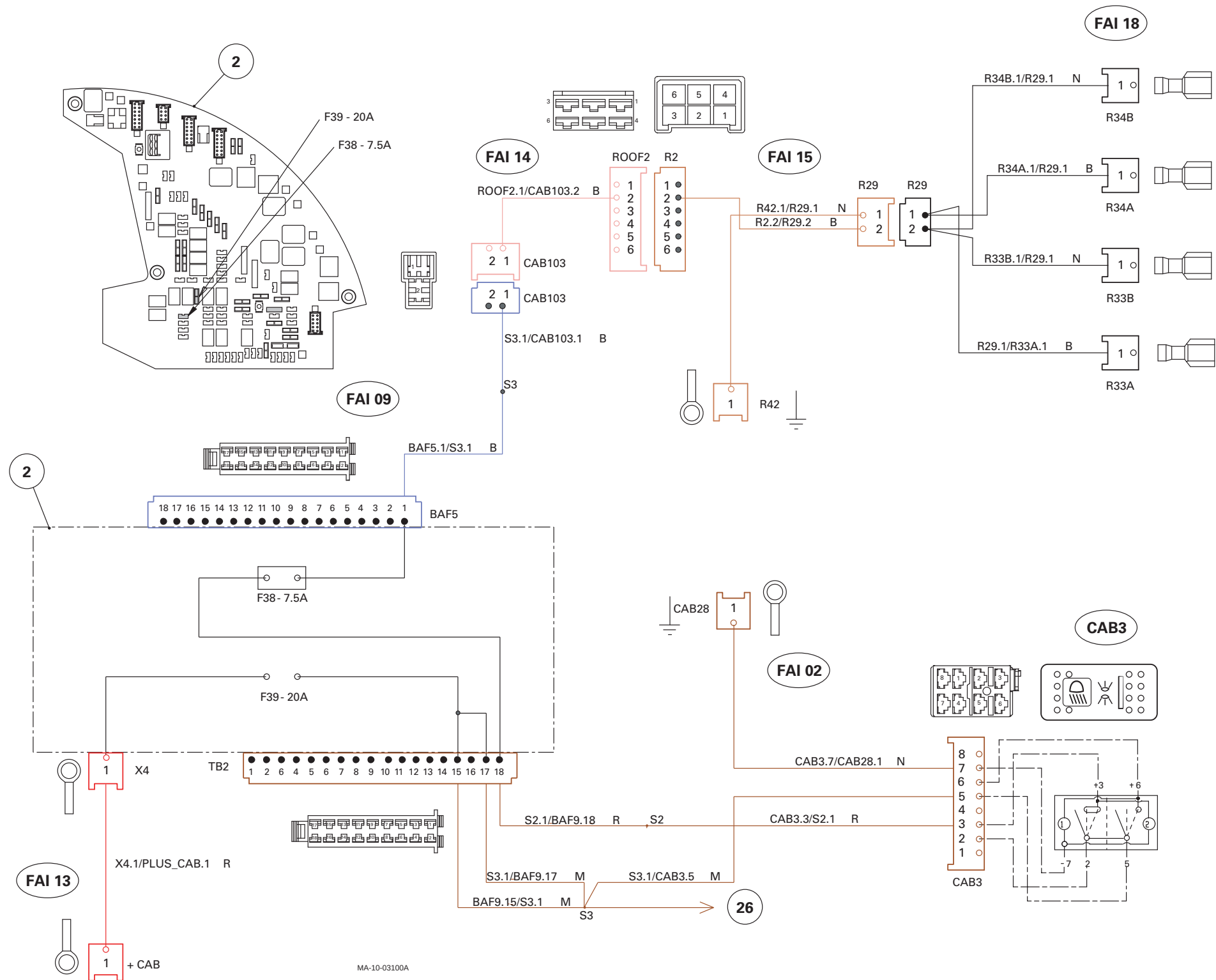


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ELECTRICAL DIAGRAMS - Lighting

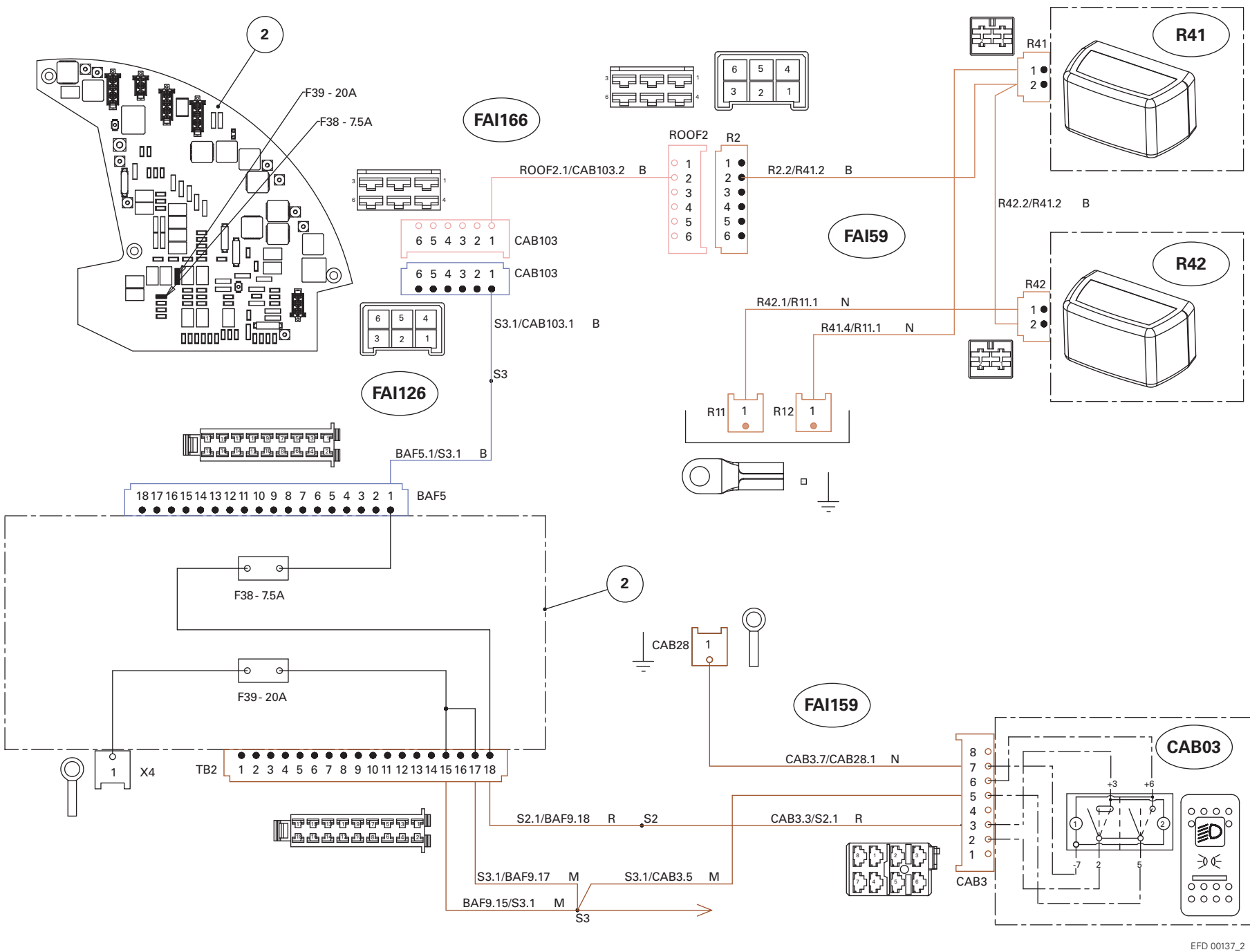
Number plate lighting—standard roof
(GBA20 and GBA10)

- 2 Fuse box
- 26 Guard rail lighting switch
- FAI 02 Instrument panel harness
- FAI 09 Cab interior lighting harness
- FAI 13 Fuse box supply harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 18 Number plate lighting harness
- CAB3 Road lights switch



Number plate lighting—high-visibility roof
(GBA25 and GBA10-Auto5)

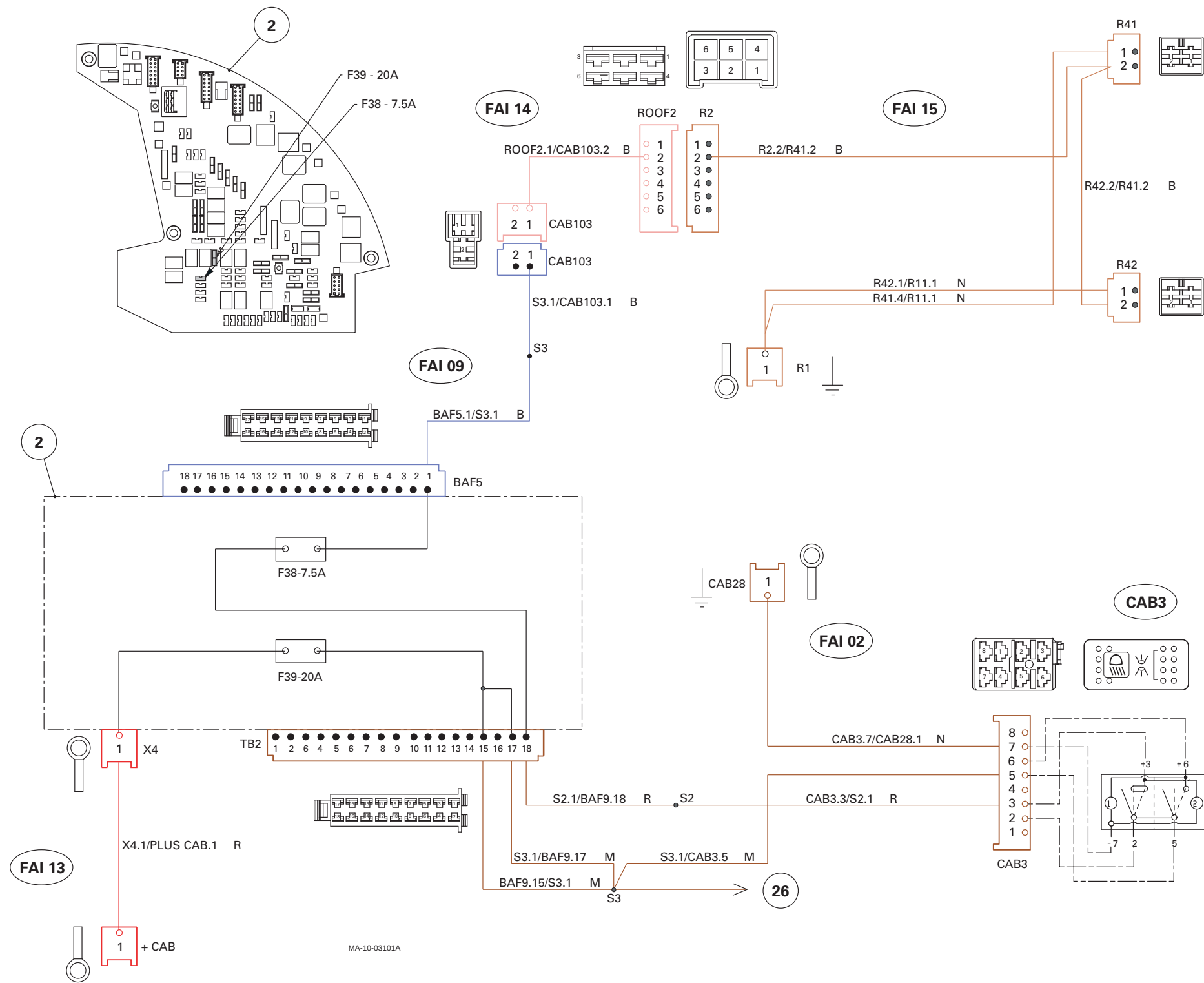
- 2 Fuse box
- FAI 59 High-visibility roof harness
- FAI 126 Lighting harness—Europe
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB03 Road lights switch
- R41 Number plate lighting—high-visibility roof
- R42 Number plate lighting—high-visibility roof



ELECTRICAL DIAGRAMS - Lighting

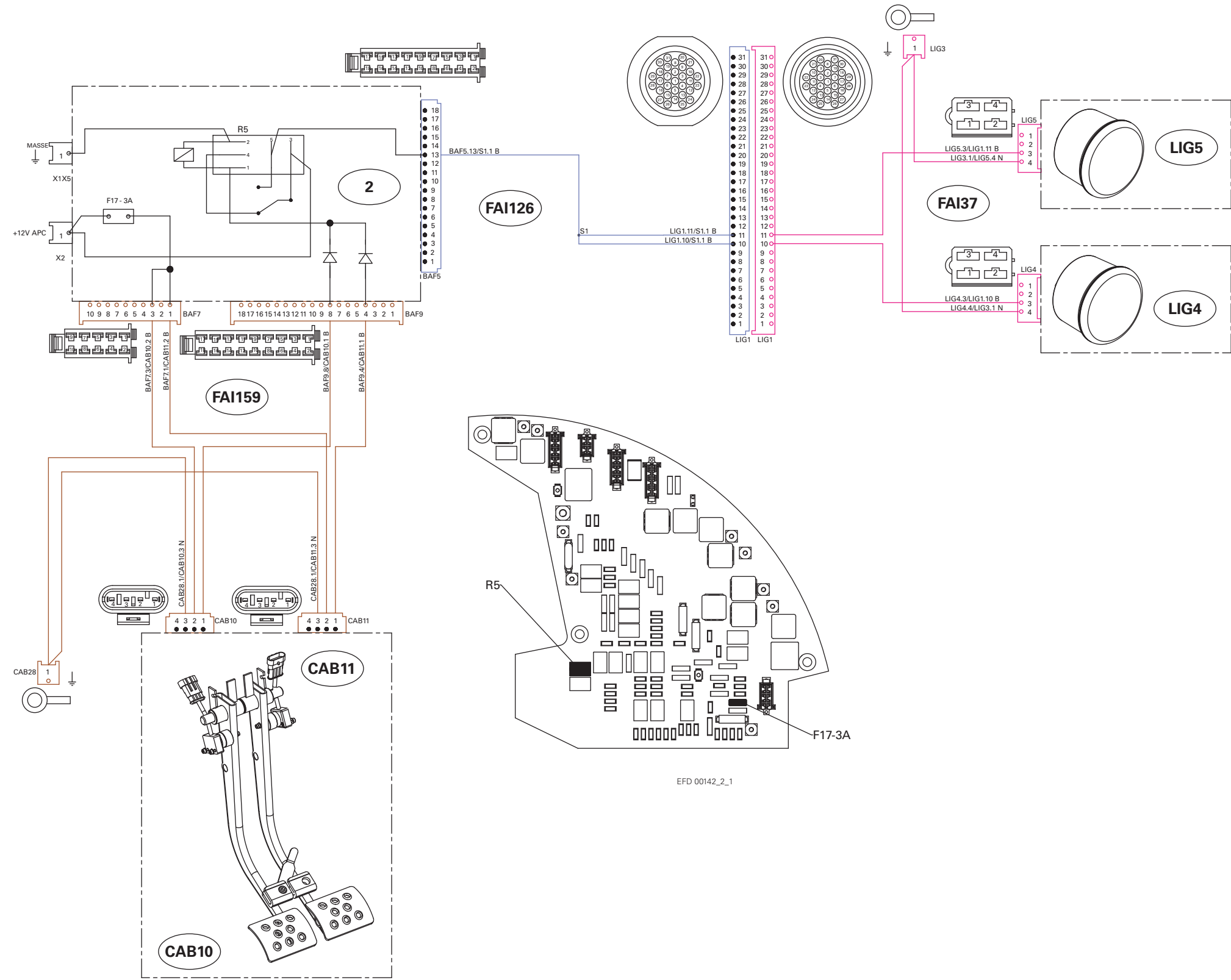
Number plate lighting—high-visibility roof
(GBA20 and GBA10)

- 2 Fuse box
- 26 Guard rail lighting switch
- FAI 02 Instrument panel harness
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- CAB3 Road lights switch



Stop lights (GBA25 and GBA10-Auto5)

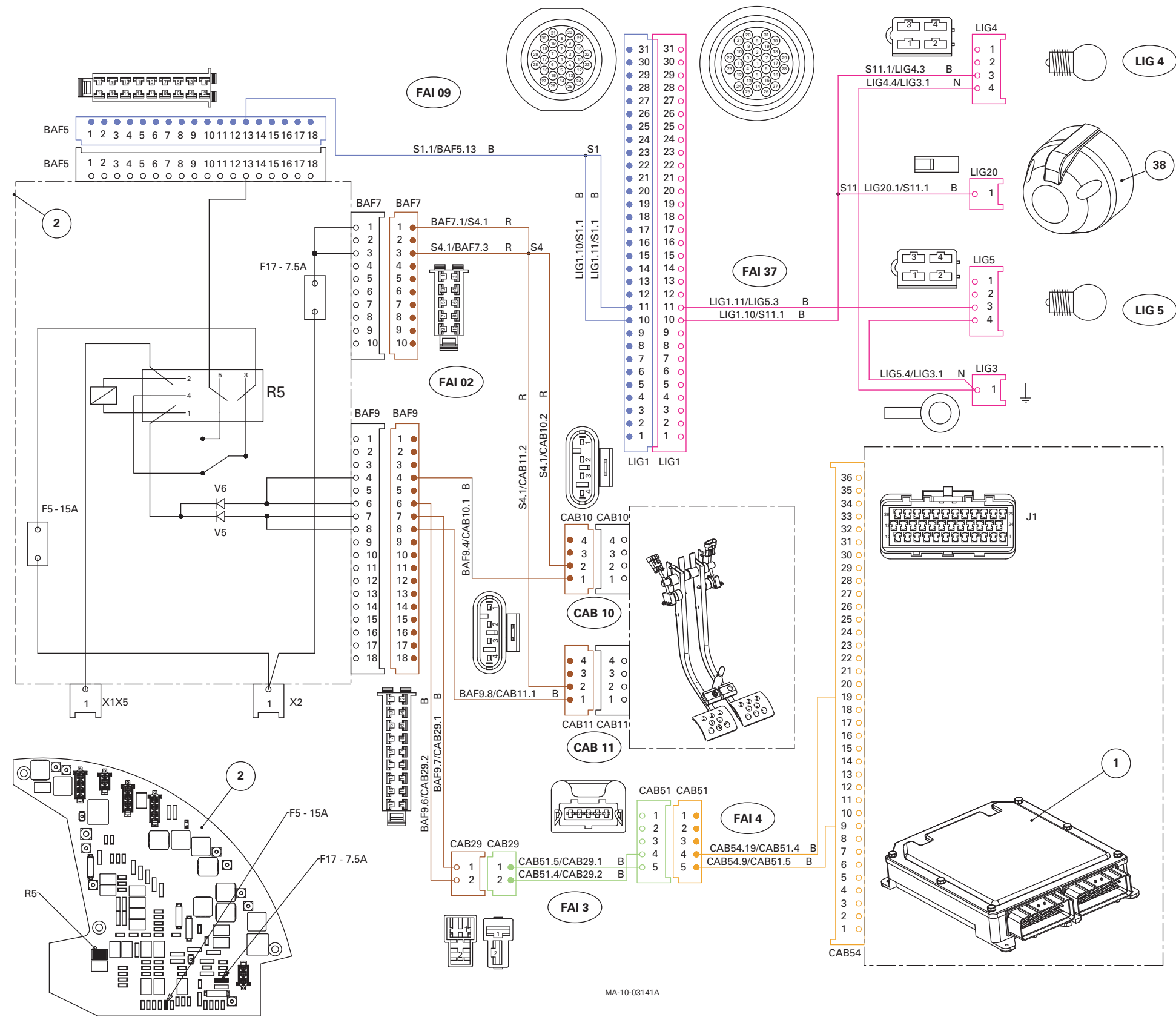
- 2 Fuse box
- FAI 37 Fender lighting harness (all countries except US)
- FAI 126 Cab interior lighting harness (all countries except US)
- FAI 159 Instrument panel harness
- CAB10 Right brake switch
- CAB11 Left brake switch
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light



ELECTRICAL DIAGRAMS - Lighting

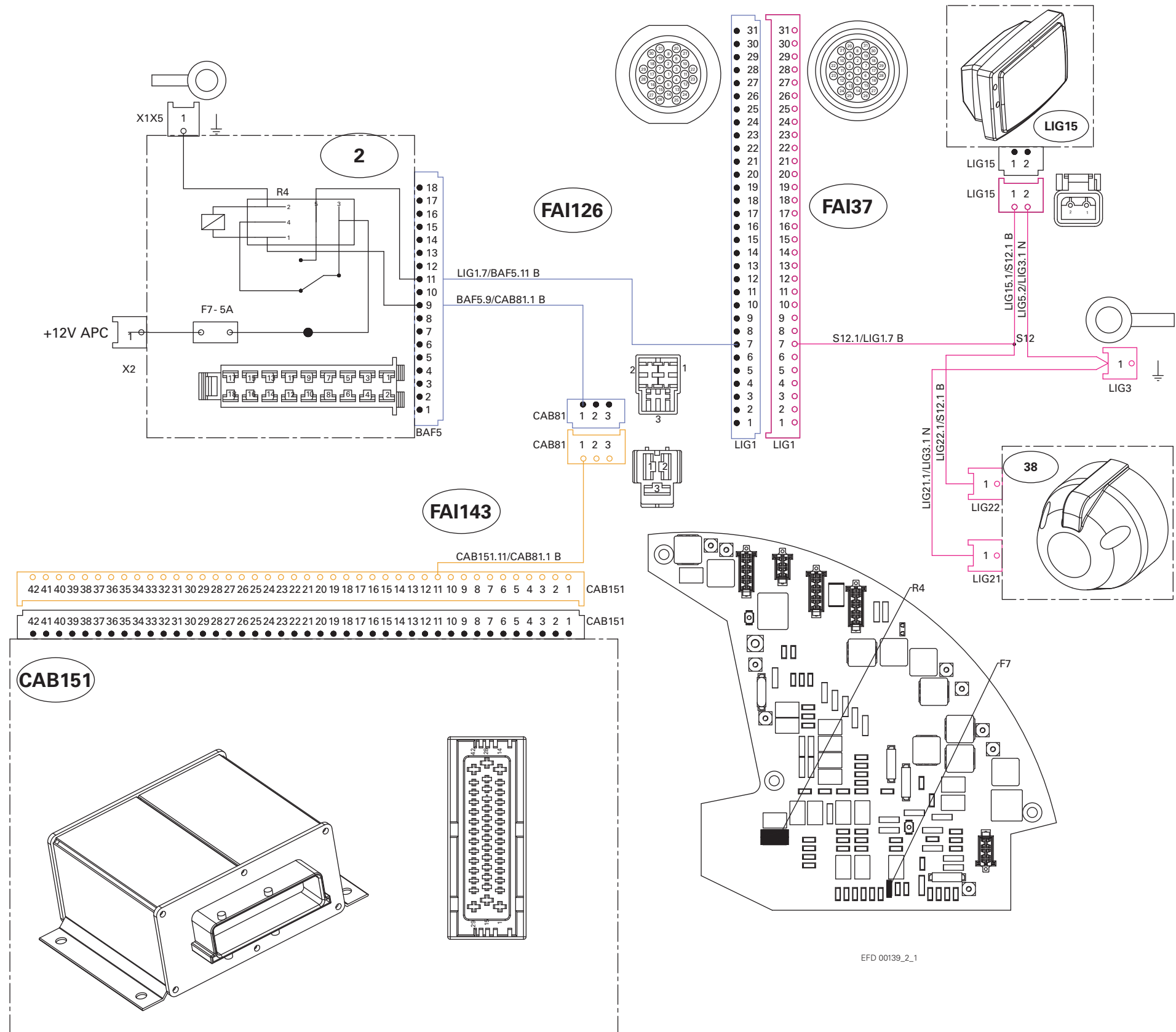
Stop lights (GBA20 and GBA10)

- 1 Autotronic 3
- 2 Fuse box
- 38 Trailer connector—Europe
- FAI 02 Instrument panel harness
- FAI 03 Dynashift console harness
- FAI 04 Cab Autotronic 3 harness
- FAI 09 Cab interior lighting harness
- FAI 37 Fender lighting harness (all countries except US)
- CAB10 Right brake switch
- CAB11 Left brake switch
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights



Reversing light (GBA25 and GBA10-Auto5)

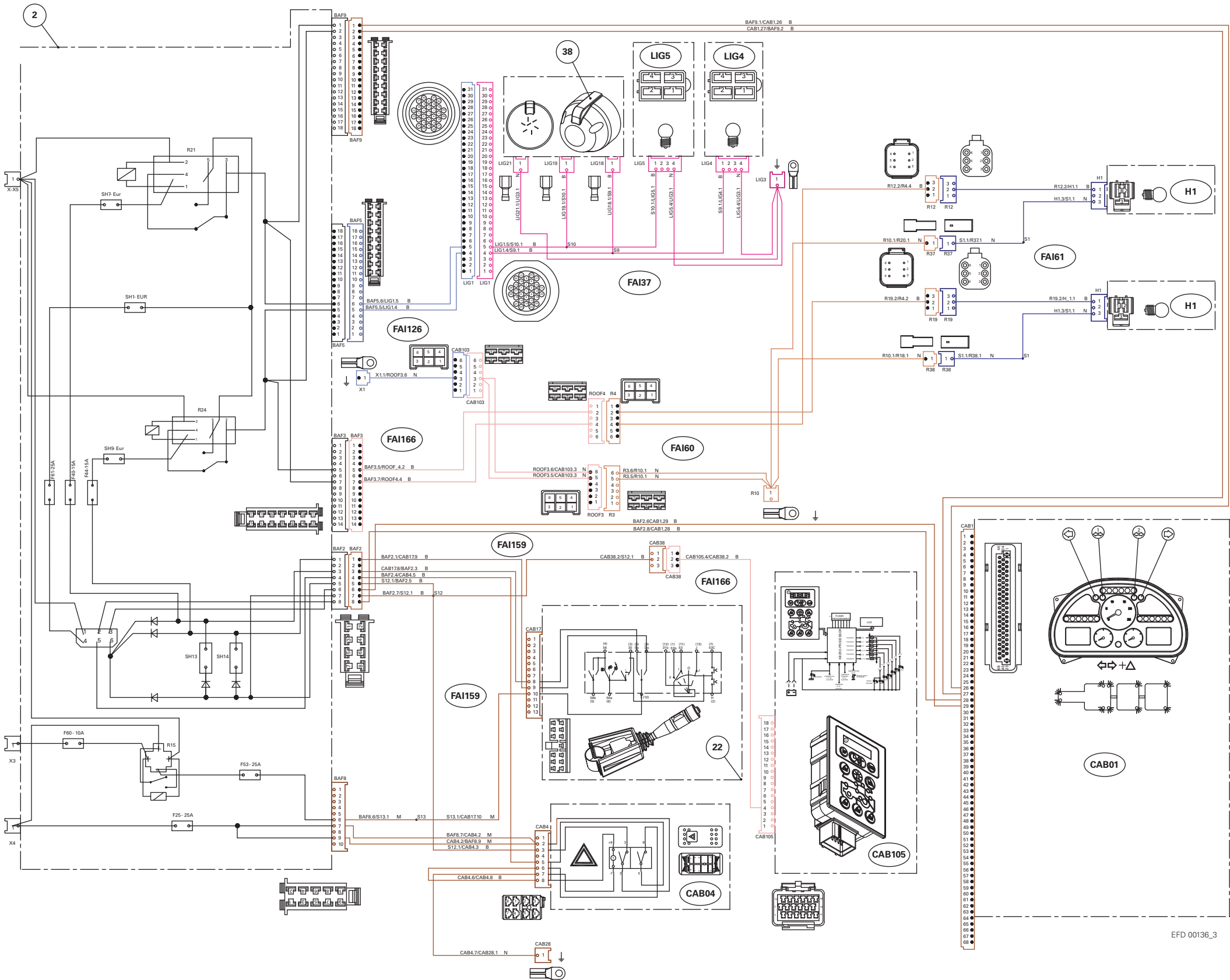
- | | |
|---------|---|
| 2 | Fuse box |
| 38 | Trailer connector—Europe |
| FAI 37 | Fender lighting harness (all countries except US) |
| FAI126 | Cab interior lighting harness (all countries except US) |
| FAI 143 | Cab transmission harness |
| CAB151 | Autotronic 5 transmission No.1 |
| LIG15 | Reversing light |



ELECTRICAL DIAGRAMS - Lighting

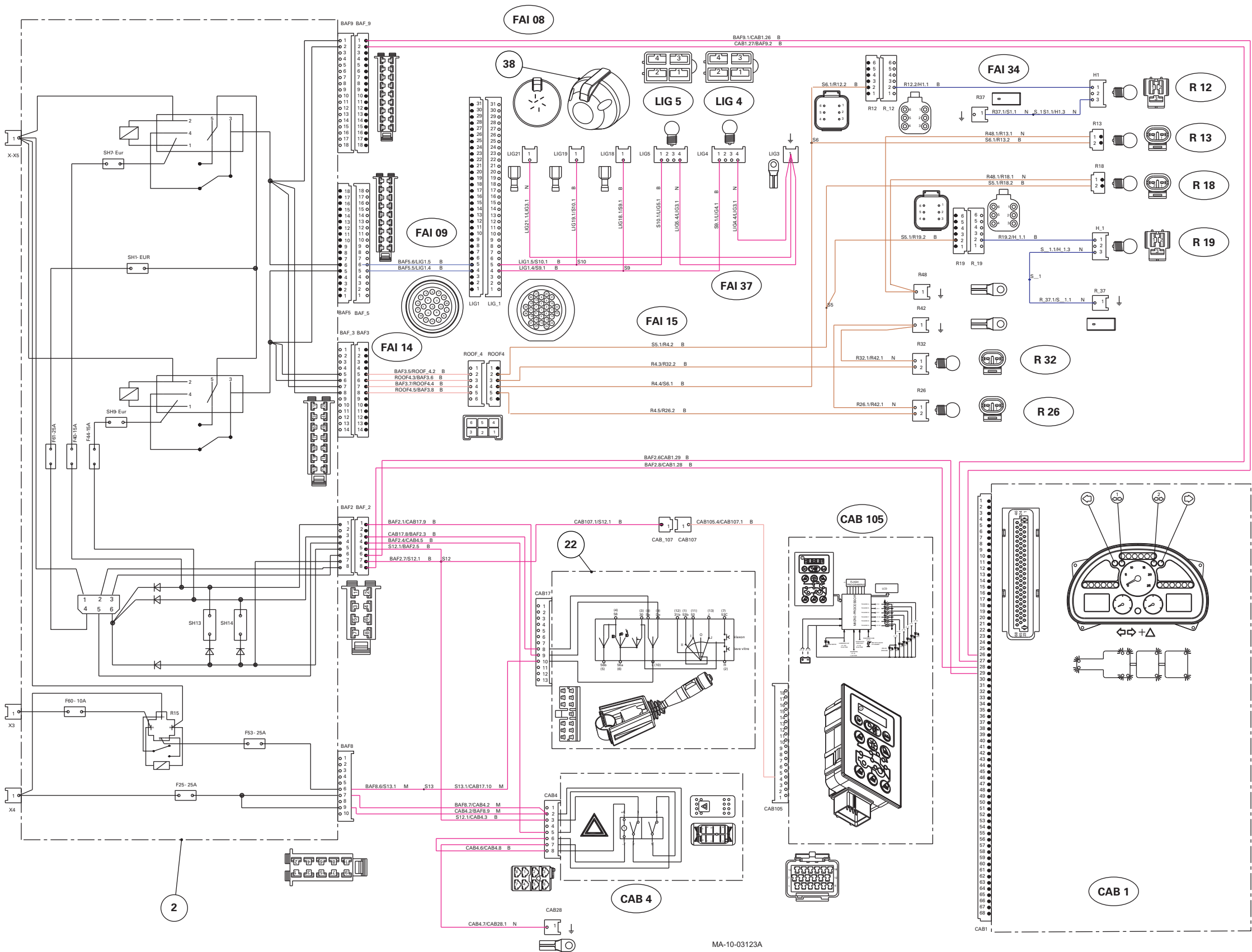
Indicator and warning lights on standard roof—Europe (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 22 Windscreen wiper controls
- 38 Trailer connector—Europe
- FAI 34 Guard rail lighting harness
- FAI 37 Fender lighting harness (all countries except US)
- FAI 60 Roof harness (all countries except US)
- FAI 61 Guard rail lighting harness (all countries except US)
- FAI 126 Lighting harness—Europe
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- CAB04 Warning switch
- CAB105 Headlights module
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light
- H1 Front lights



Roof indicators and warning lights—Europe—up to number N145024 (GBA20 and GBA10)

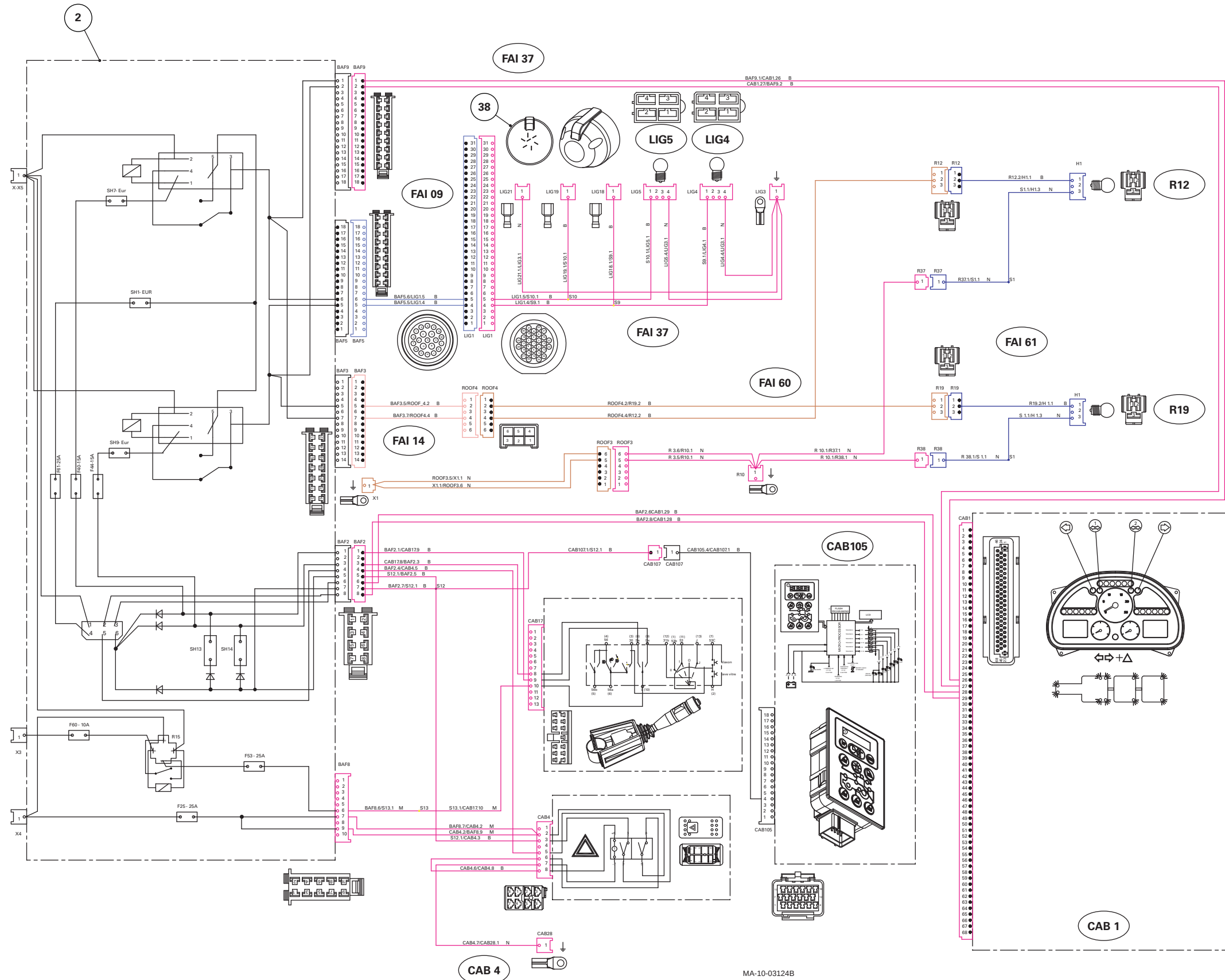
- 2 Fuse box
- 22 Windscreen wiper controls
- 38 Trailer connector—Europe
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 37 Fender lighting harness (all countries except US)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R12 Guard rail left-hand indicator
- R13 Front left-hand indicator
- R18 Front right-hand indicator
- R19 Guard rail right-hand indicator
- R26 Rear right-hand roof indicator
- R32 Rear left-hand roof indicator



ELECTRICAL DIAGRAMS - Lighting

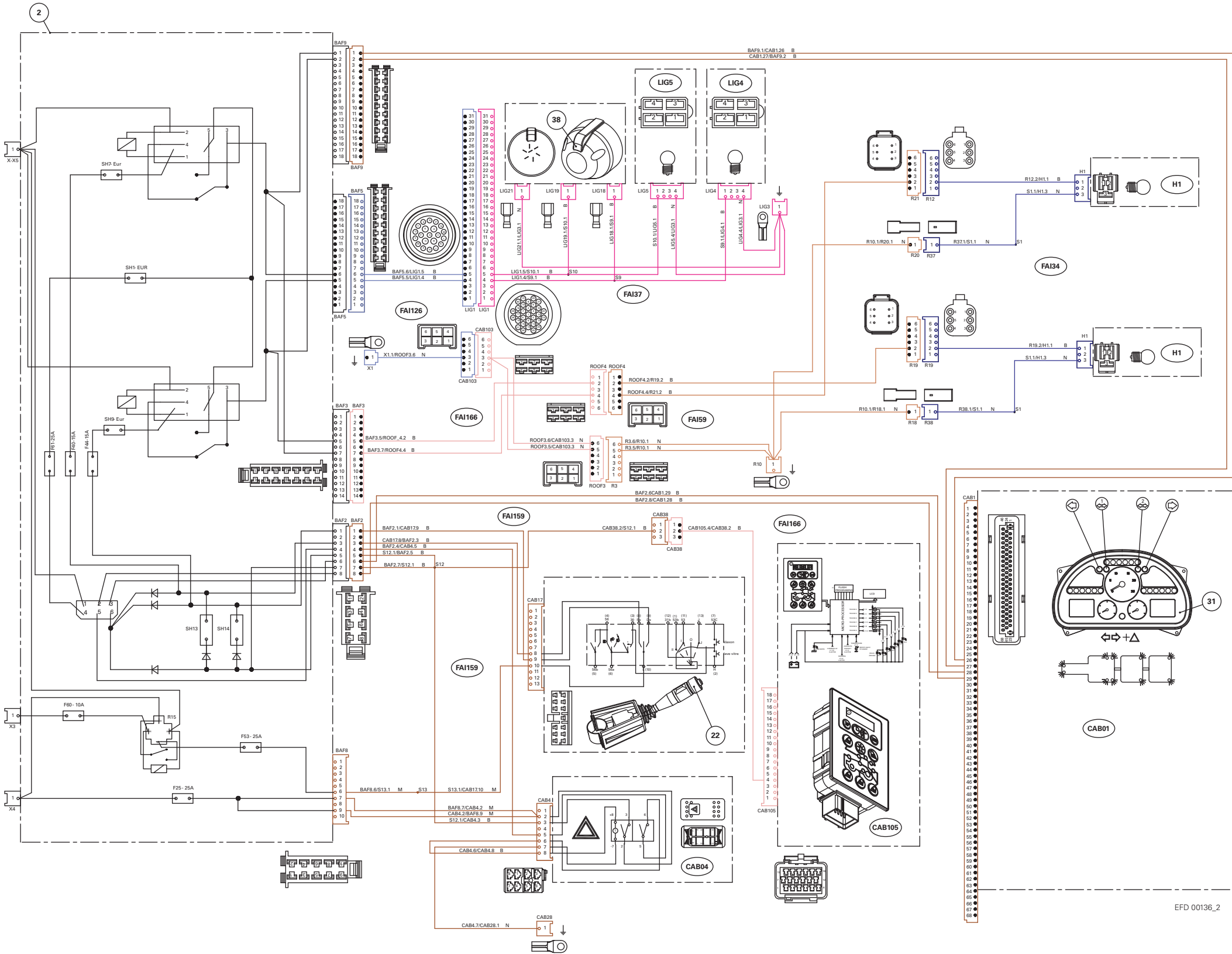
Roof indicators and warning lights—Europe—from number N145024 (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- 38 Trailer connector—Europe
- FAI 02 Instrument panel harness
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 37 Fender lighting harness (all countries except US)
- FAI 60 Roof harness (all countries except US)
- FAI 61 Guard rail lighting harness (all countries except US)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R12 Guard rail left-hand indicator
- R13 Front left-hand indicator
- R18 Front right-hand indicator
- R19 Guard rail right-hand indicator
- R26 Rear right-hand roof indicator
- R32 Rear left-hand roof indicator



Indicator and warning lights on high-visibility roof—Europe (GBA25 and GBA10-Auto5)

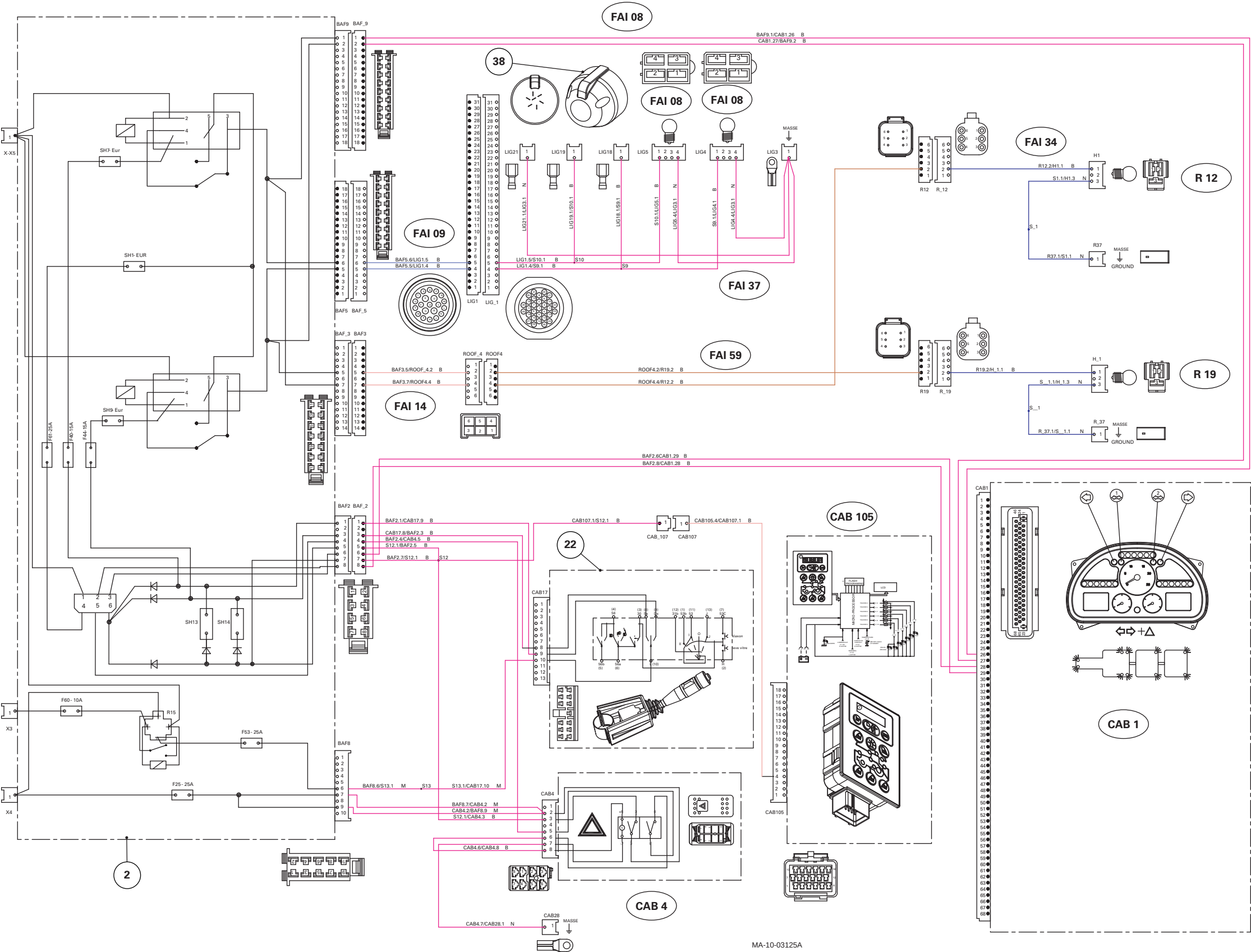
- 2 Fuse box
- 22 Windscreen wiper controls
- 38 Trailer connector—Europe
- FAI 34 Guard rail lighting harness
- FAI 37 Fender lighting harness (all countries except US)
- FAI 59 High-visibility roof harness
- FAI 126 Lighting harness—Europe
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- CAB04 Warning switch
- CAB105 Headlights module
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light
- H1 Front lights



ELECTRICAL DIAGRAMS - Lighting

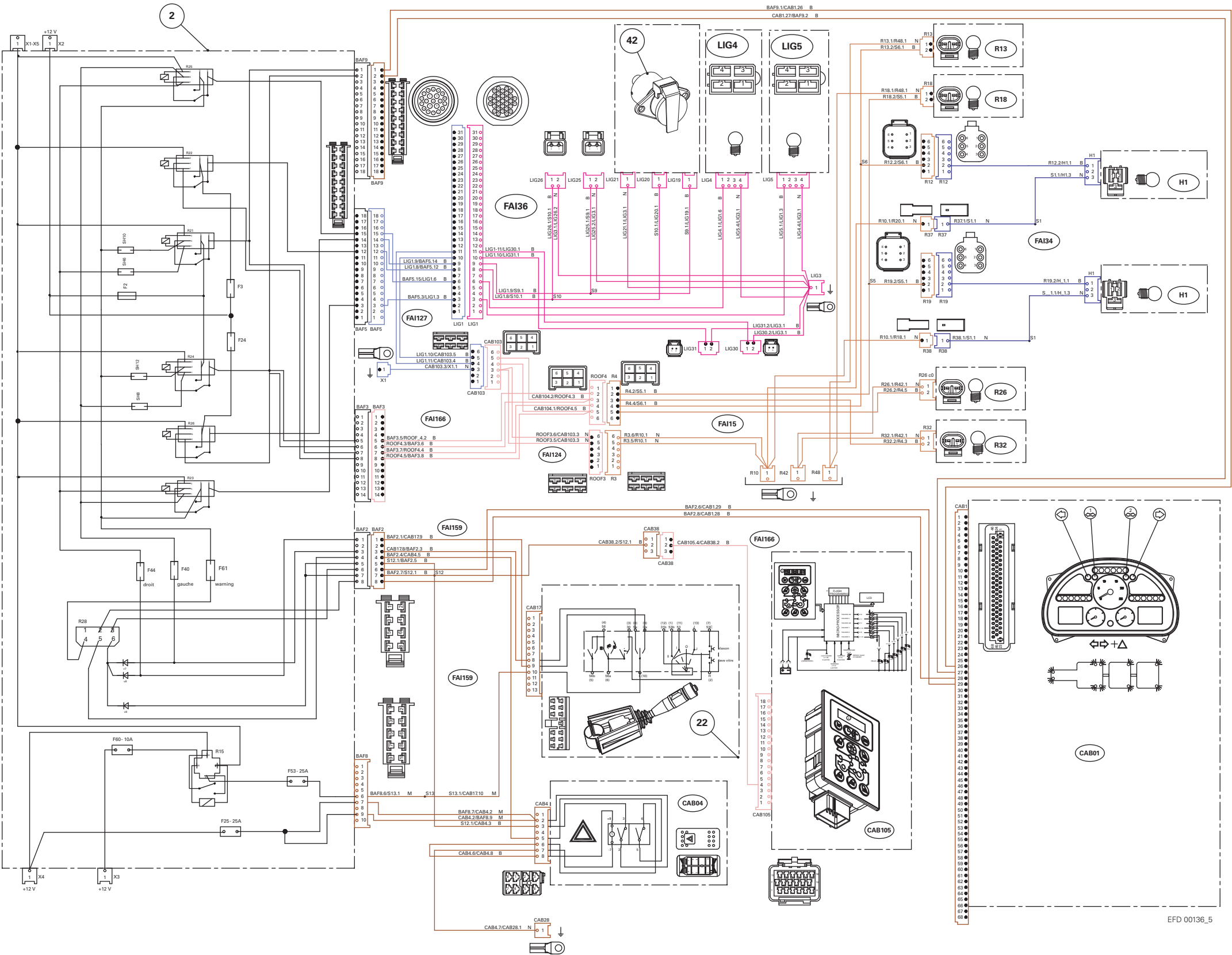
Indicator and warning lights on high-visibility roof—Europe (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- 38 Trailer connector—Europe
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 34 Guard rail lighting harness
- FAI 37 Fender lighting harness (all countries except US)
- FAI 59 High-visibility roof harness
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R12 Guard rail left-hand indicator
- R19 Guard rail right-hand indicator



Indicator and warning lights on standard roof—North America (GBA25 and GBA10-Auto5)

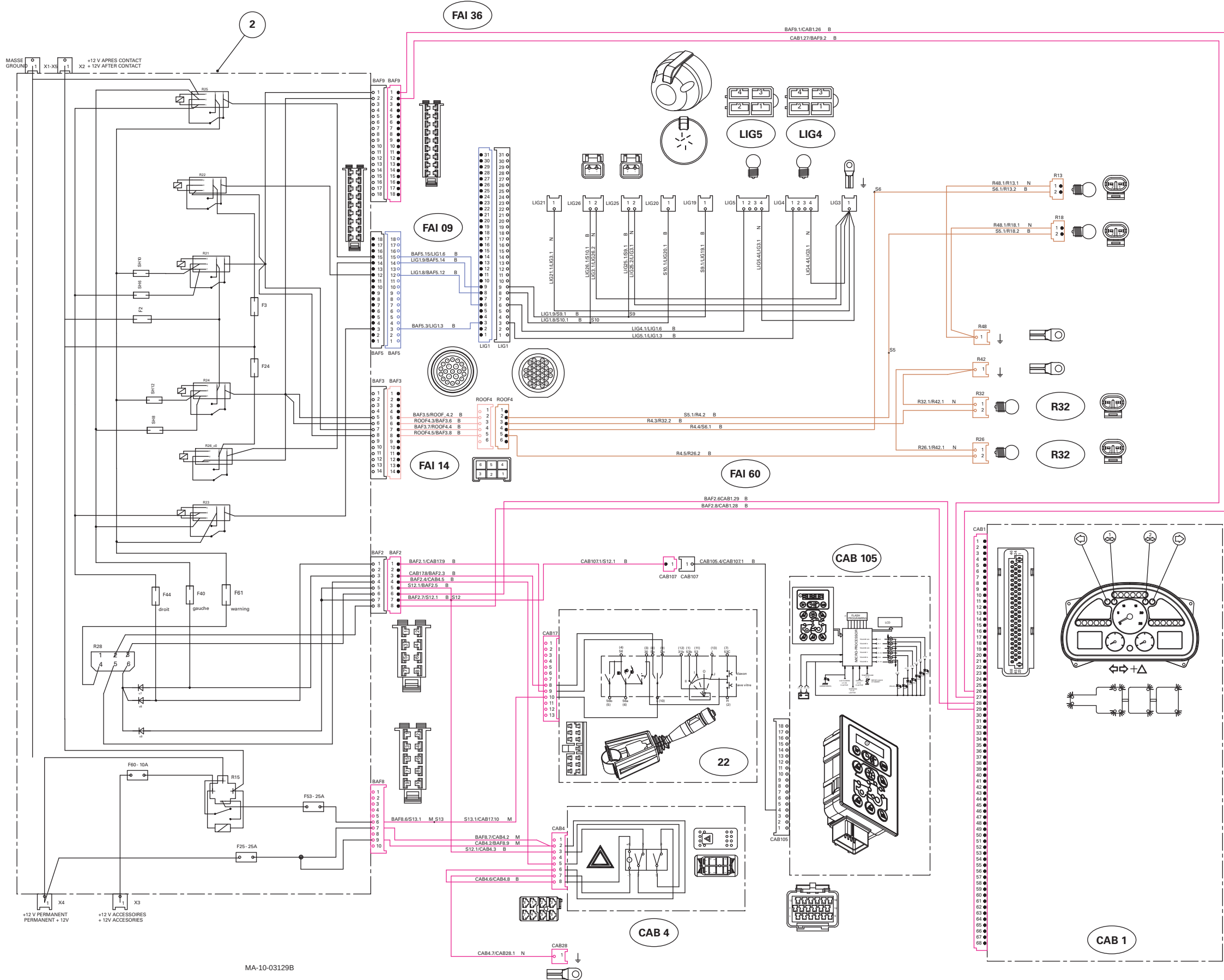
- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 36 Fender lighting harness (US)
- FAI 127 Lighting harness—US
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- CAB04 Warning switch
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light
- LIG25 Right fender extension indicator
- LIG26 Left fender extension indicator
- LIG30 Additional left-hand indicator—NA
- LIG31 Additional right-hand indicator—NA
- H1 Front lights
- R13 Front left-hand roof indicator
- R18 Front right-hand roof indicator
- R26 Rear right-hand roof indicator
- R32 Rear left-hand roof indicator



ELECTRICAL DIAGRAMS - Lighting

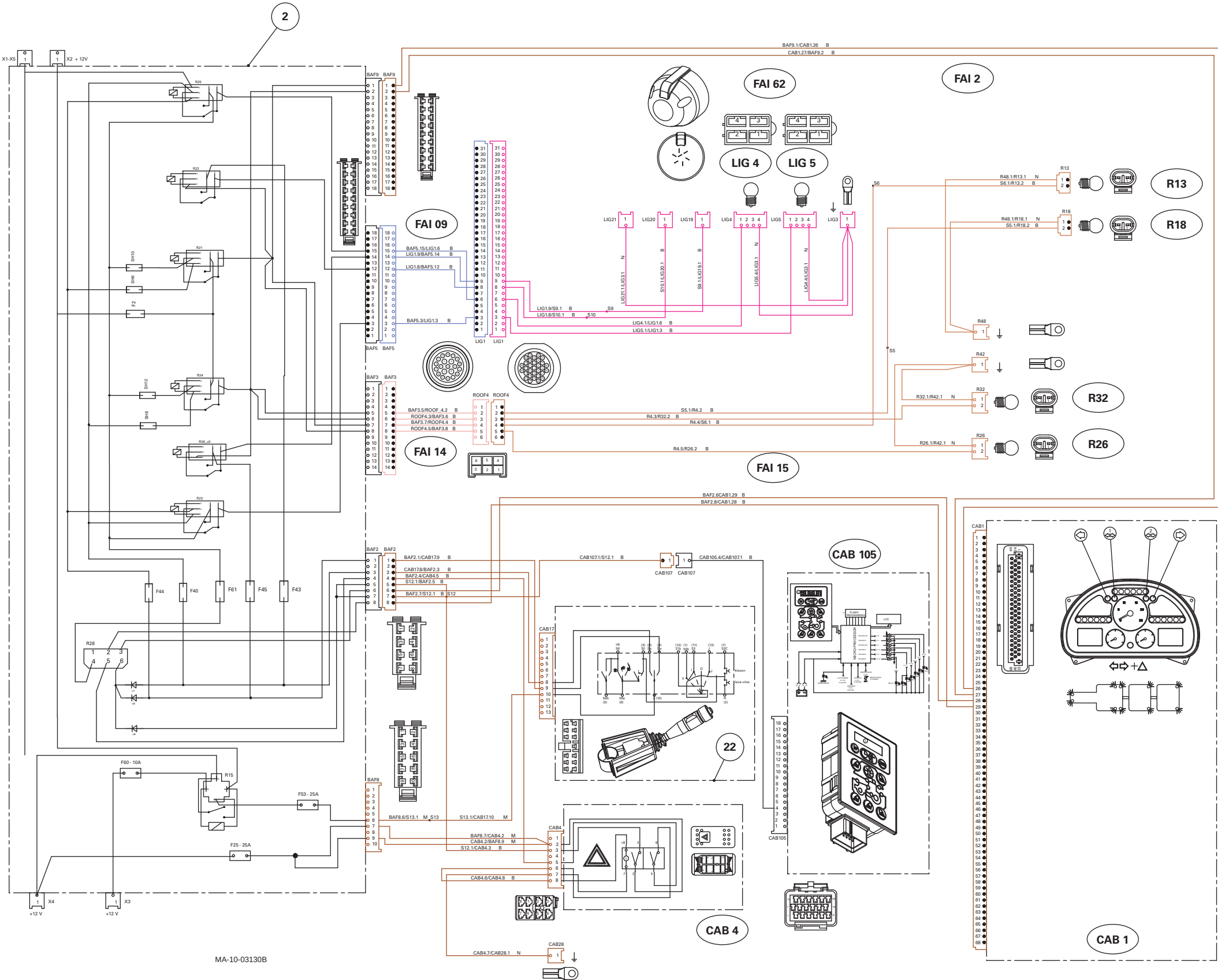
Roof indicators and warning lights—North America—up to number N145024 and fender extensions (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 62 Fender lighting harness—US (150A)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- LIG25 Fender extension right-hand indicator
- LIG26 Fender extension left-hand indicator
- R12 Guard rail left-hand indicator
- R13 Front left-hand indicator
- R18 Front right-hand indicator
- R19 Guard rail right-hand indicator
- R26 Rear right-hand roof indicator
- R32 Rear left-hand roof indicator



Roof indicators and warning lights—North America—up to number N145024 without fender extensions (GBA20 and GBA10)

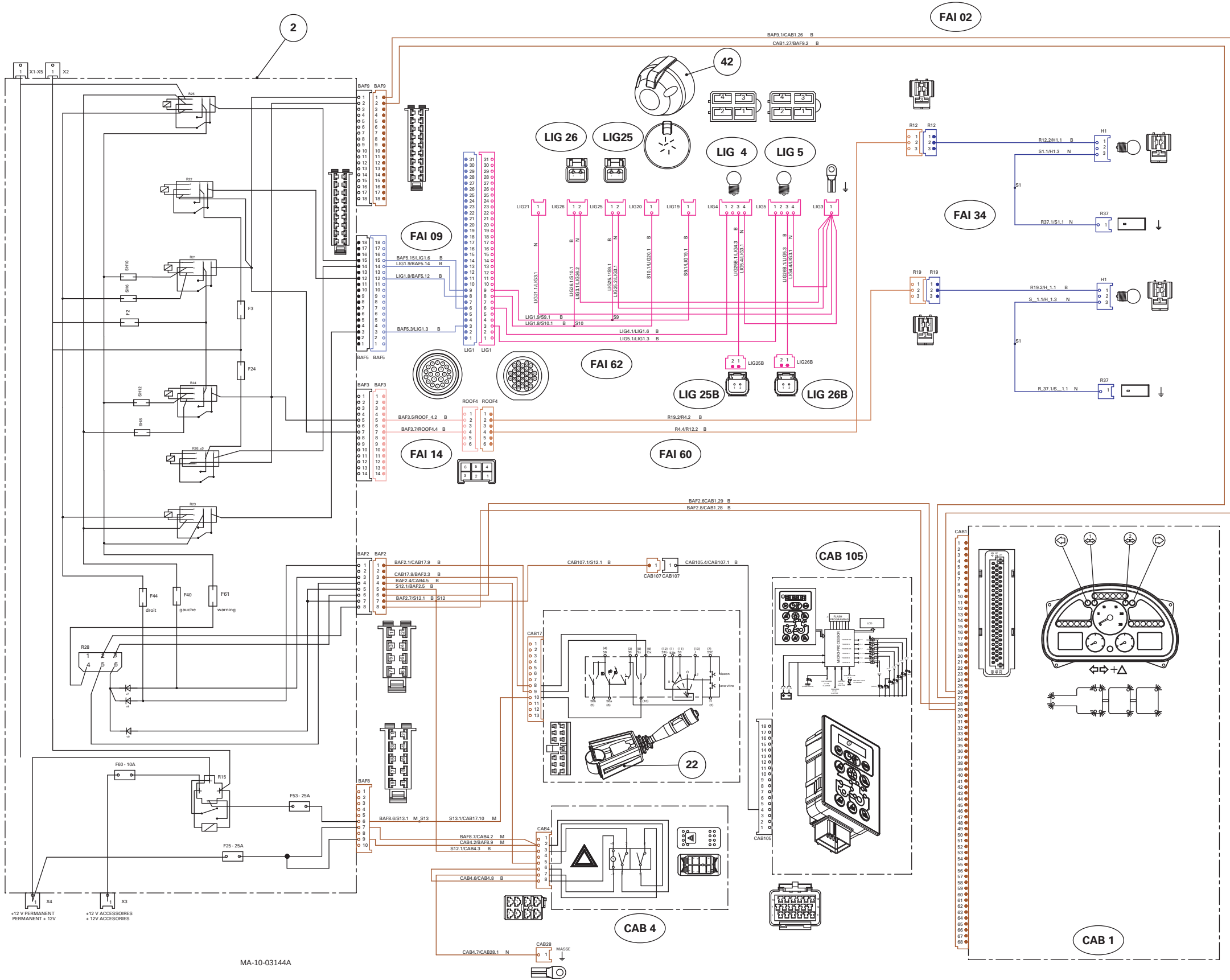
- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 62 Fender lighting harness—US (150A)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R13 Front left-hand indicator
- R18 Front right-hand indicator
- R26 Rear right-hand roof indicator
- R32 Rear left-hand roof indicator



ELECTRICAL DIAGRAMS - Lighting

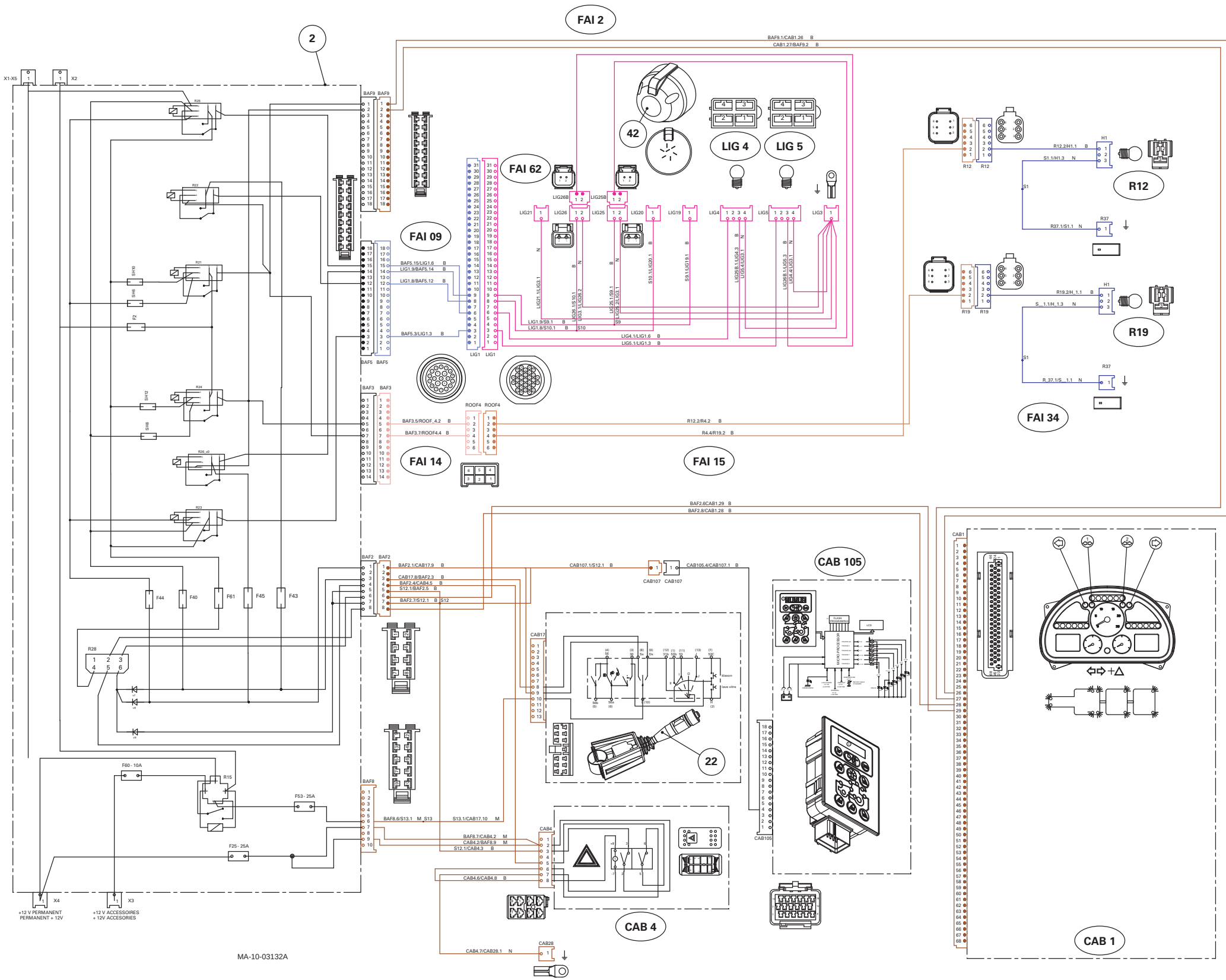
Roof indicators and warning lights—North America—from number N145025 and fender extensions (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 60 Roof harness (all countries except US)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- LIG25 Fender extension right-hand indicator
- LIG26 Fender extension left-hand indicator
- LIG25B Outside right-hand indicator
- LIG26B Outside left-hand indicator
- R12 Guard rail left-hand indicator
- R19 Guard rail right-hand indicator



Roof indicators and warning lights—North America—from number N145025 without fender extensions (GBA20 and GBA10)

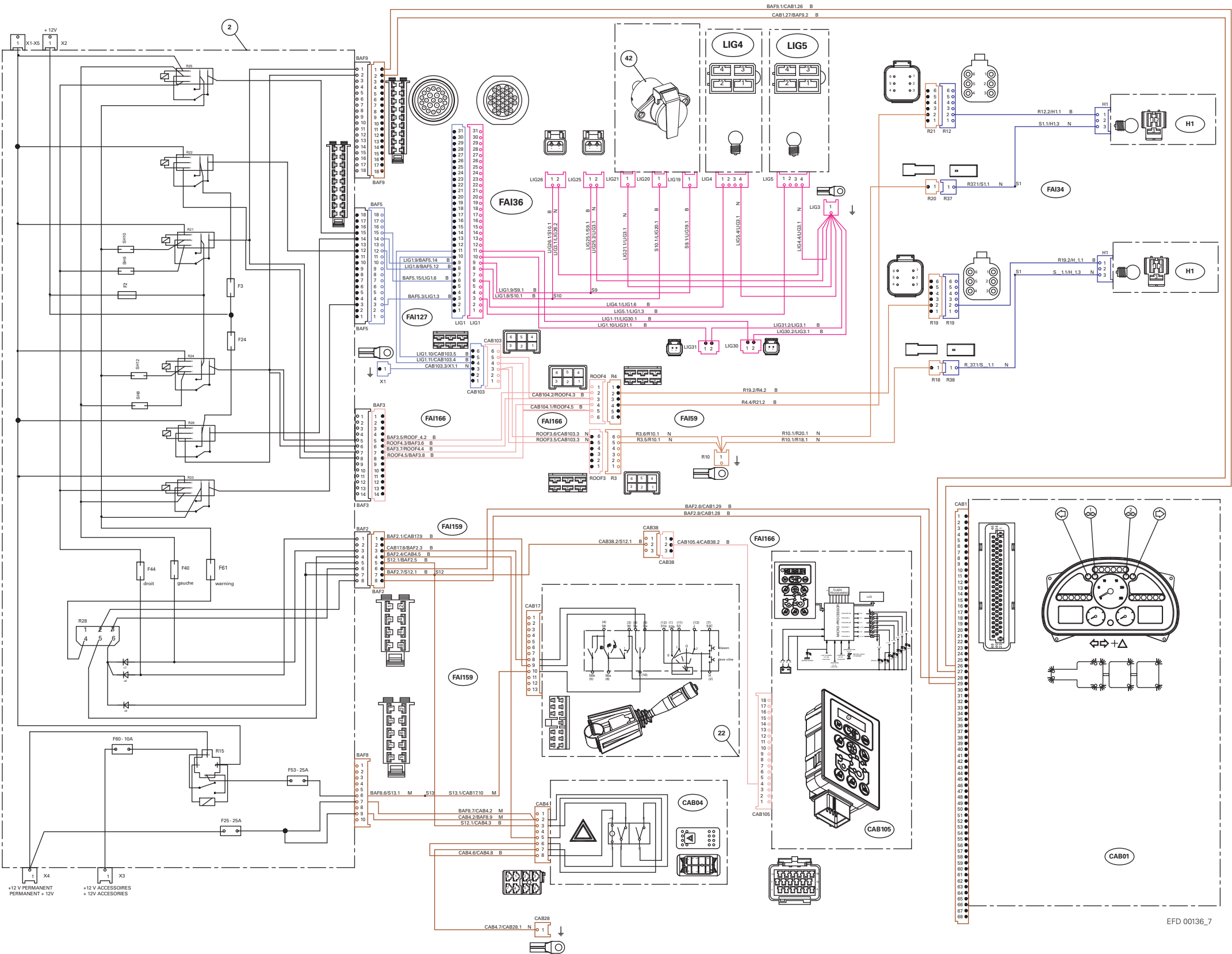
- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 15 Roof harness
- FAI 34 Guard rail lighting harness
- FAI 62 Fender lighting harness—US (150A)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R12 Guard rail left-hand indicator
- R19 Guard rail right-hand indicator



ELECTRICAL DIAGRAMS - Lighting

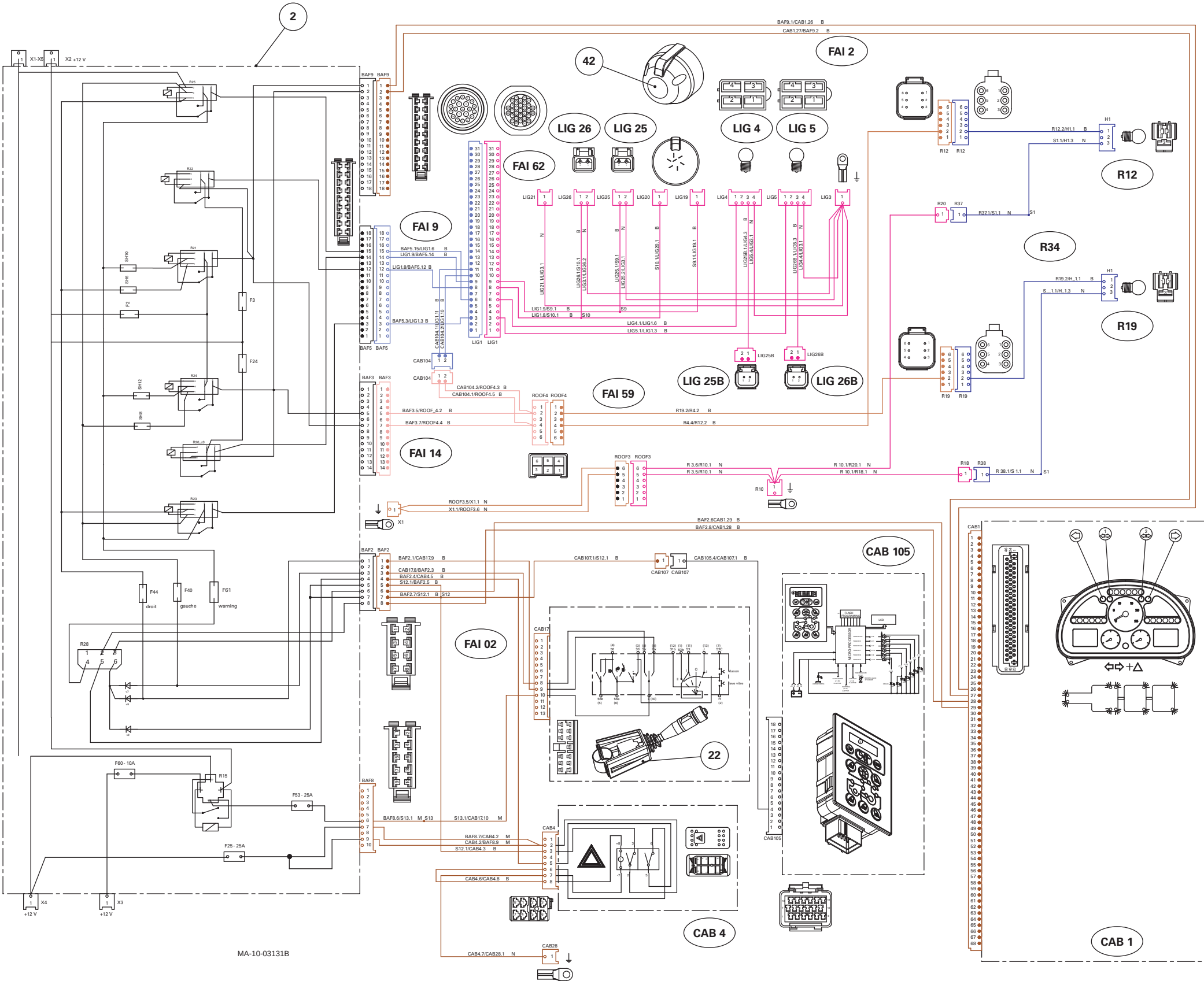
Indicators and warning lights on high-visibility roof—North America (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 34 Guard rail lighting harness
- FAI 36 Fender lighting harness (US)
- FAI 59 High-visibility roof harness
- FAI 127 Lighting harness—US
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB01 DCC2 instrument panel
- CAB04 Warning switch
- CAB105 Headlights module
- LIG4 Right-hand rear light
- LIG5 Left-hand rear light
- LIG25 Right fender extension indicator
- LIG26 Left fender extension indicator
- LIG30 Additional left-hand indicator—NA
- LIG31 Additional right-hand indicator—NA
- H1 Front lights



Indicators and warning lights on high-visibility roof—North America—and fender extensions (GBA20 and GBA10)

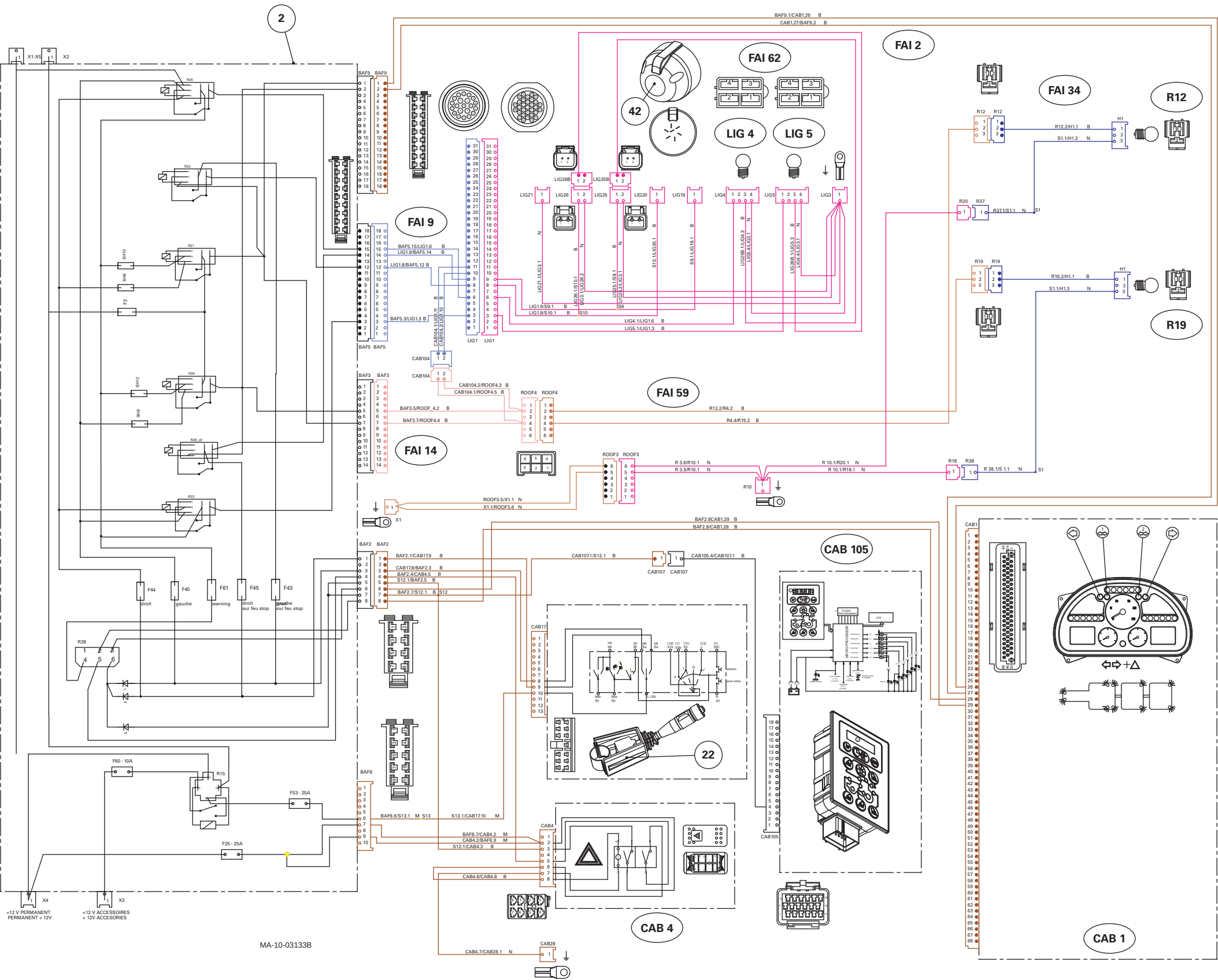
- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 34 Guard rail lighting harness
- FAI 59 High-visibility roof harness
- FAI 62 Fender lighting harness—US (150A)
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- LIG25 Fender extension right-hand indicator
- LIG26 Fender extension left-hand indicator
- LIG25B Outside right-hand indicator
- LIG26B Outside left-hand indicator
- R12 Guard rail left-hand indicator
- R19 Guard rail right-hand indicator



ELECTRICAL DIAGRAMS - Lighting

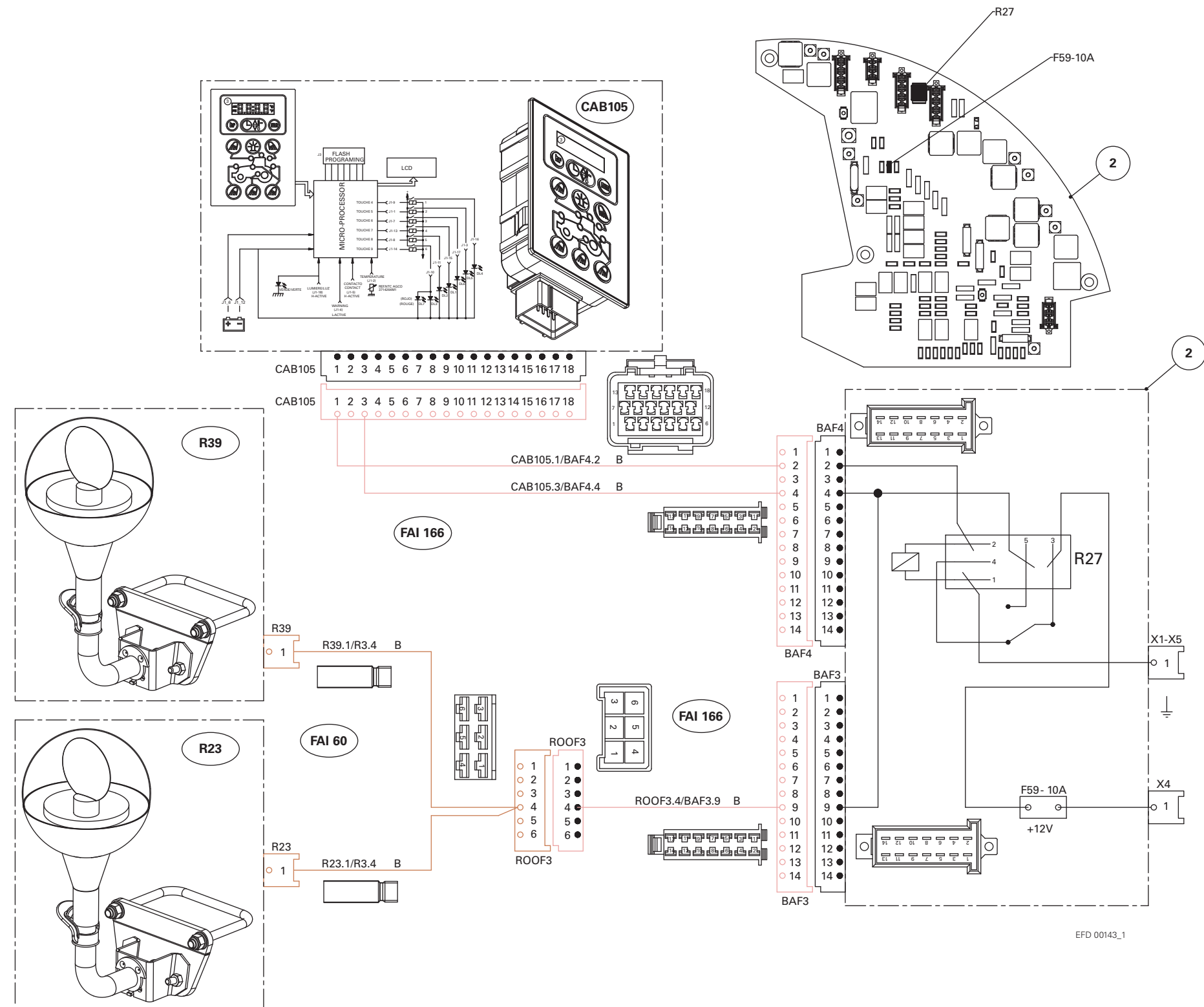
Indicators and warning lights on high-visibility roof without fender extensions (GBA20 and GBA10)

- 2 Fuse box
- 22 Windscreen wiper controls
- 42 Trailer connector—North America
- FAI 09 Cab interior lighting harness
- FAI 14 Pillar harness
- FAI 34 Guard rail lighting harness
- FAI 59 High-visibility roof harness
- FAI 62 Fender lighting harness—US (150A)
- CAB1 Instrument panel (DCC2)
- CAB4 Warning switch
- CAB105 Lighting module—NA and Europe
- LIG4 Right-hand rear side lights
- LIG5 Left-hand rear side lights
- R12 Guard rail left-hand indicator
- R19 Guard rail right-hand indicator



Rotating beacons (GBA25 and GBA10-Auto5)

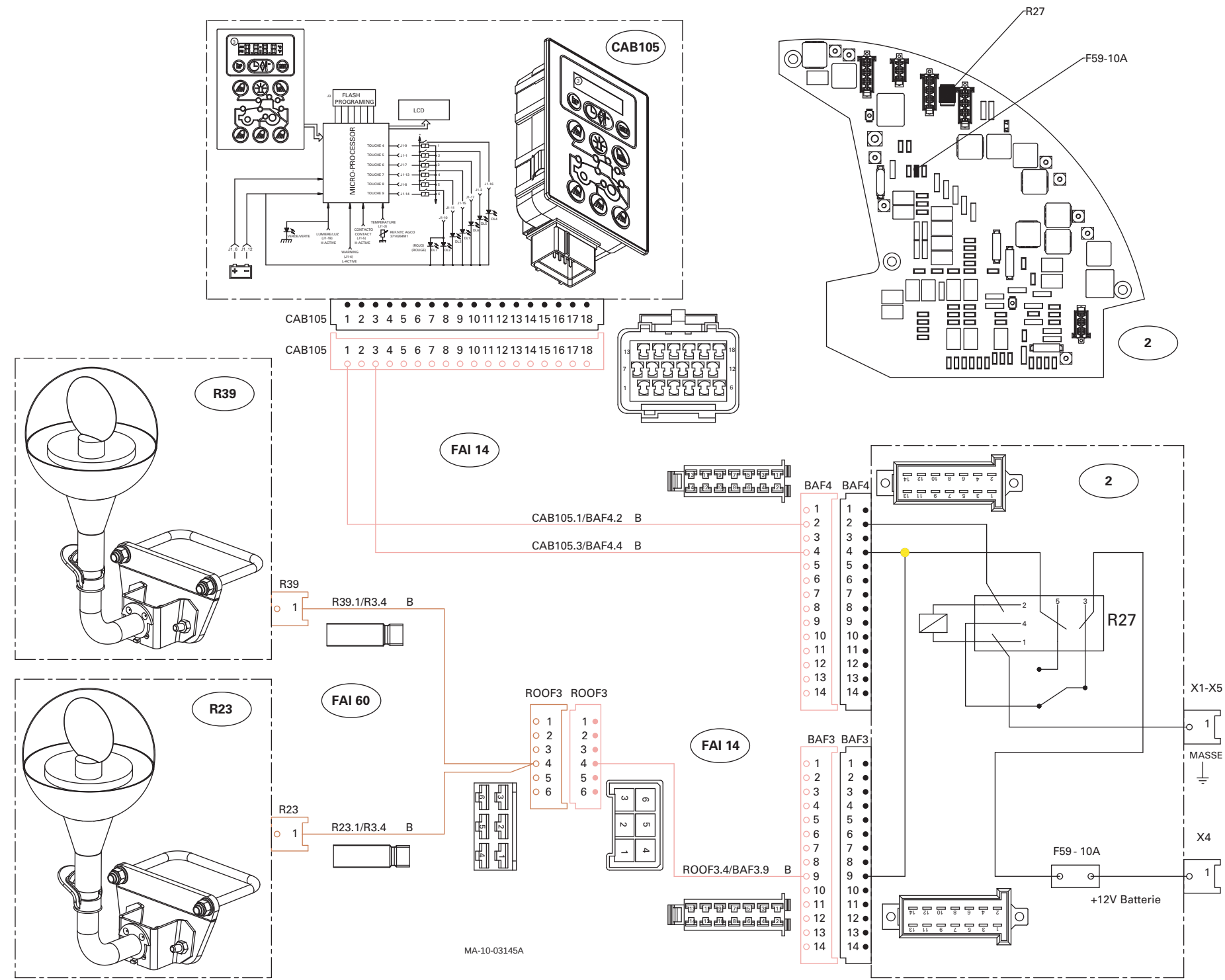
- | | |
|---------|--|
| 2 | Fuse box |
| FAI 60 | Roof harness (all countries except US) |
| FAI 166 | Pillar harness |
| CAB105 | Headlights module |
| R23 | Left-hand rotating beacon |
| R39 | Right-hand rotating beacon |



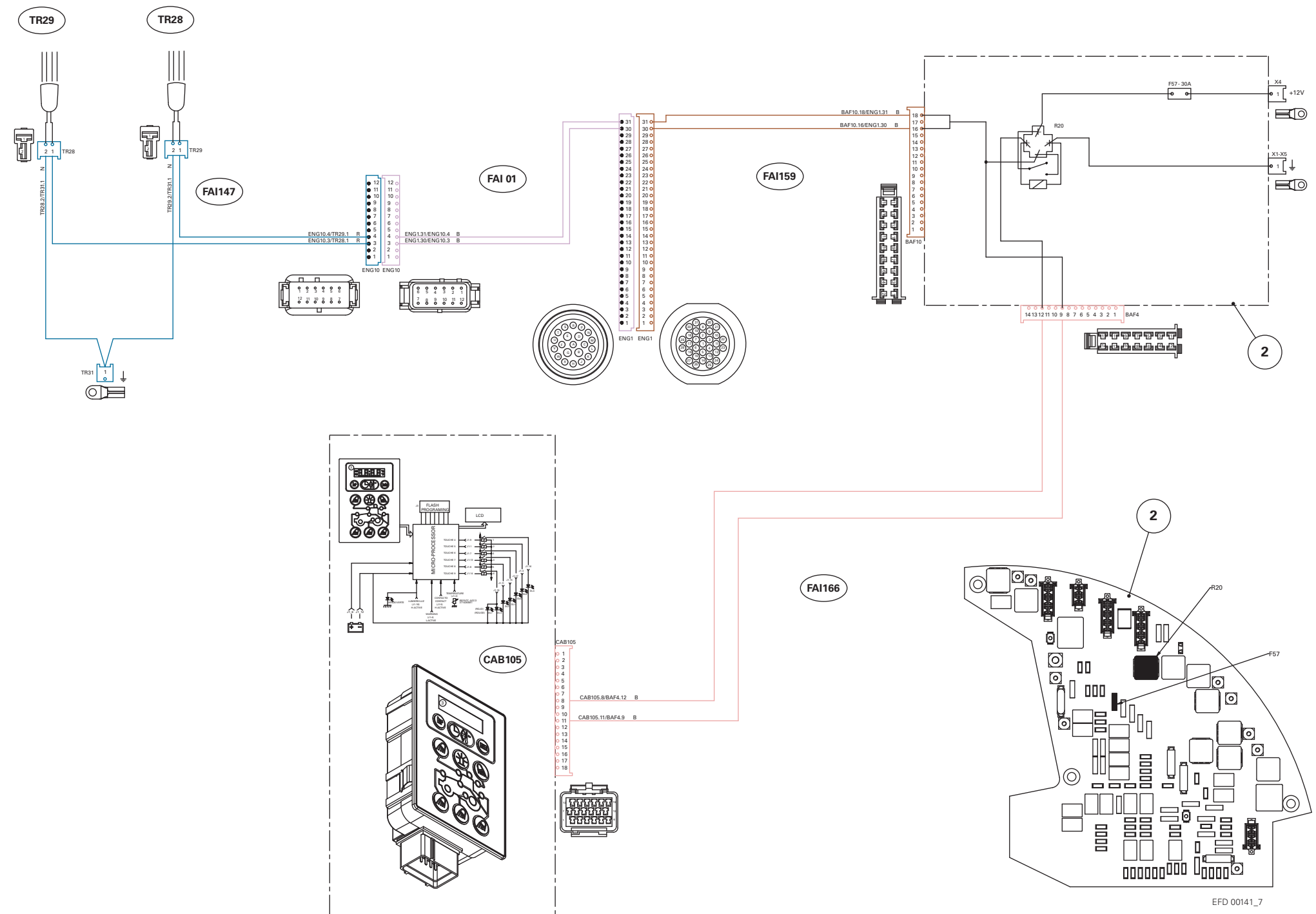
ELECTRICAL DIAGRAMS - Lighting

Rotating beacons (GBA20 and GBA10)

- 2 Fuse box
- FAI 14 Pillar harness
- CAB105 Lighting module—NA and Europe
- FAI 60 Roof harness (all countries except US)
- R23 Left-hand rotating beacon
- R39 Right-hand rotating beacon

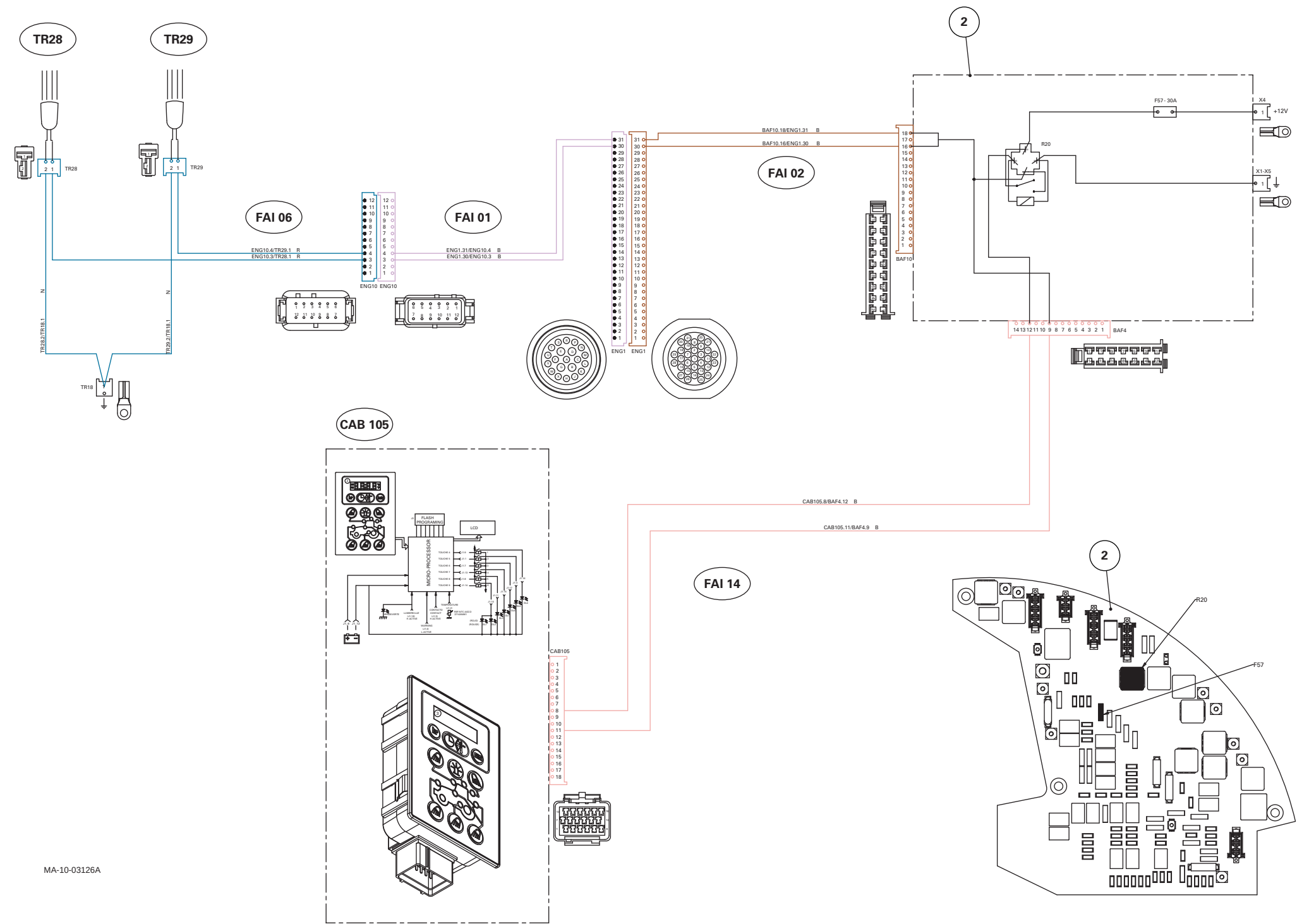


2	Fuse box
FAI 01	Engine harness
FAI 147	Transmission harness
FAI 159	Instrument panel harness
FAI 166	Pillar harness
CAB105	Headlights module
TR28	Left footplate lighting
TR29	Right footplate lighting



Footplate lighting—Europe (GBA20 and GBA10)

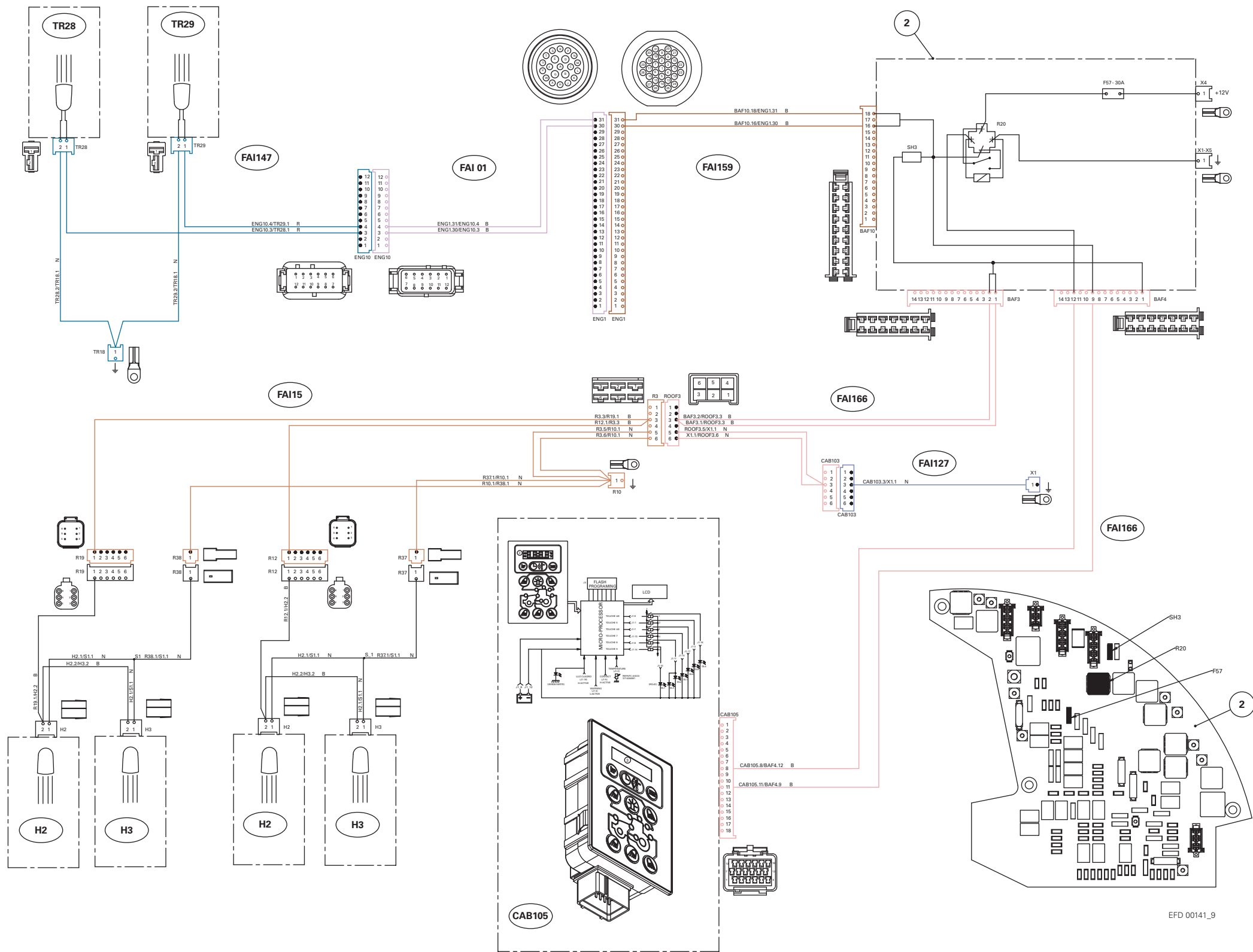
- 2 Fuse box
- FAI 01 Engine harness
- FAI 02 Instrument panel harness
- FAI 06 Transmission harness
- FAI 14 Pillar harness
- CAB105 Lighting module—NA and Europe
- TR28 Left footplate lighting
- TR29 Right footplate lighting



MA-10-03126A

Footplate lighting—North America (GBA25 and GBA10-Auto5)

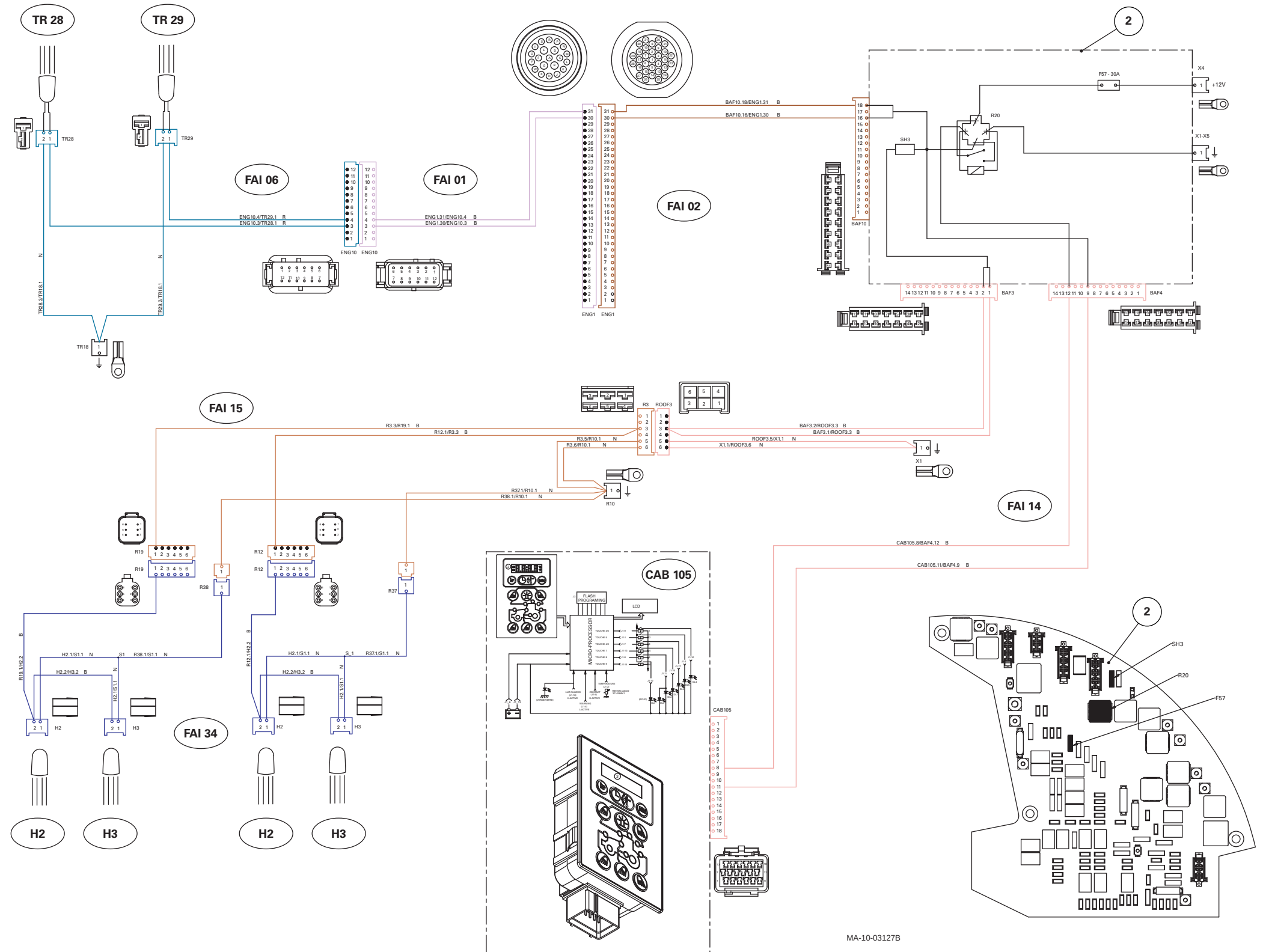
- 2 Fuse box
- FAI 01 Engine harness
- FAI 15 Roof harness
- FAI 127 Lighting harness—US
- FAI 147 Transmission harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB105 Headlights module
- H2 Left guard rail lighting
- H3 Right guard rail lighting
- TR28 Left footplate lighting
- TR29 Right footplate lighting



ELECTRICAL DIAGRAMS - Lighting

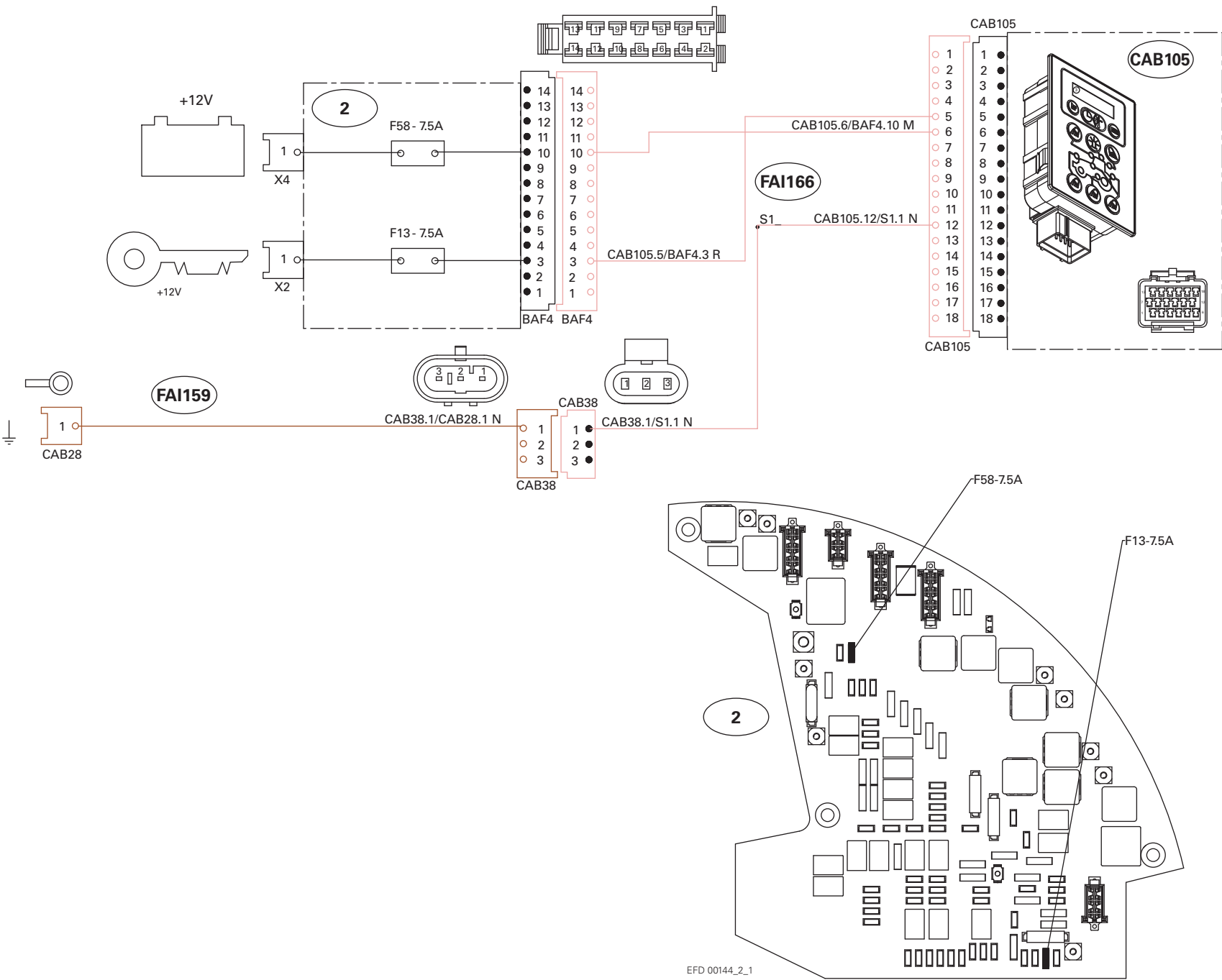
Footplate lighting — North America (GBA20 and GBA10)

- | | |
|--------|-------------------------------|
| 2 | Fuse box |
| FAI 01 | Engine harness |
| FAI 02 | Instrument panel harness |
| FAI 06 | Transmission harness |
| FAI 14 | Pillar harness |
| FAI 15 | Roof harness |
| FAI 34 | Guard rail lighting harness |
| CAB105 | Lighting module—NA and Europe |
| TR28 | Left footplate lighting |
| TR29 | Right footplate lighting |
| H2 | Left guard rail lighting |
| H3 | Right guard rail lighting |



Work headlights power supply module
(GBA25 and GBA10-Auto5)

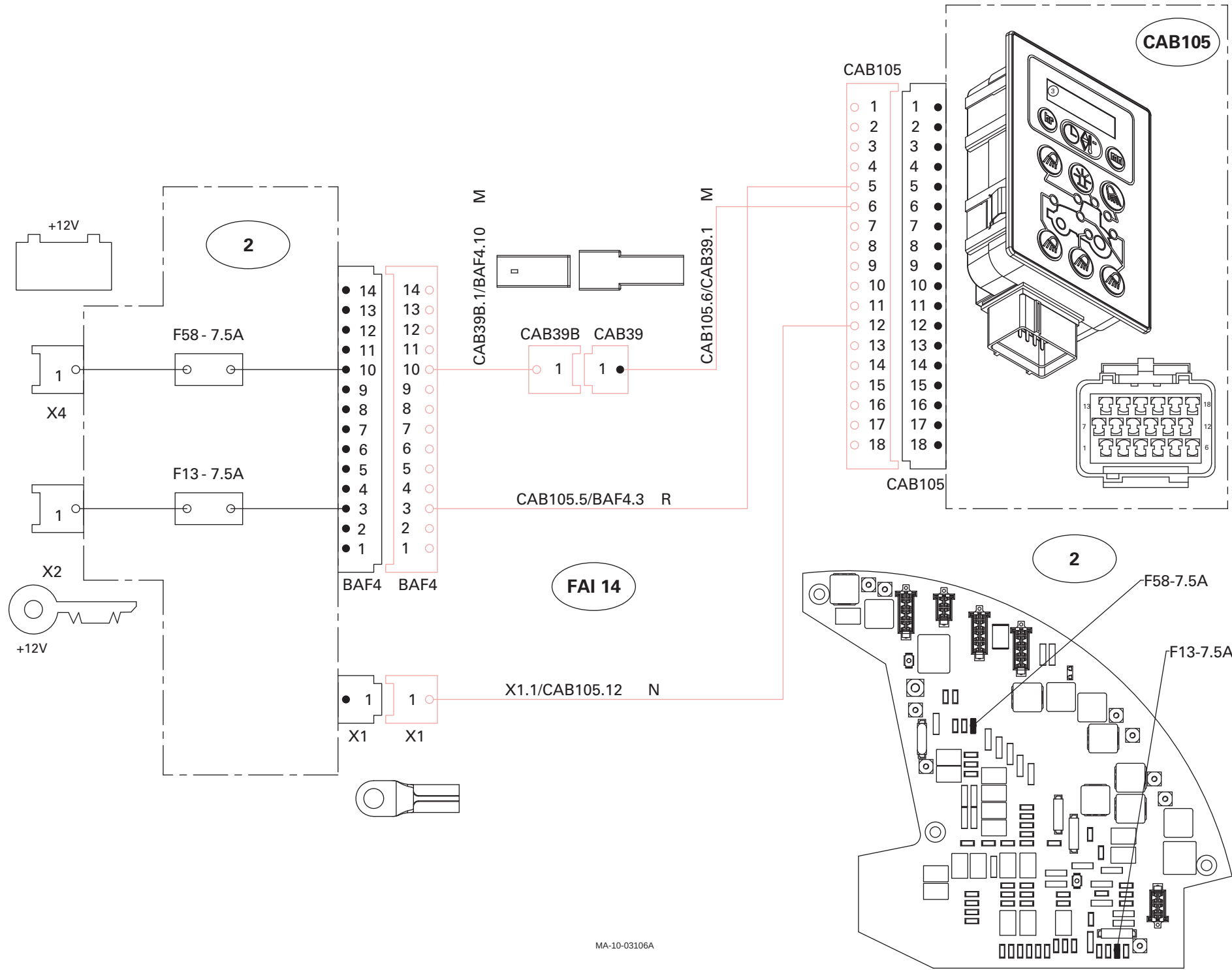
- 2 Fuse box
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB105 Headlights module



ELECTRICAL DIAGRAMS - Lighting

Work headlights module without circuit breaker—Europe (GBA20 and GBA10)

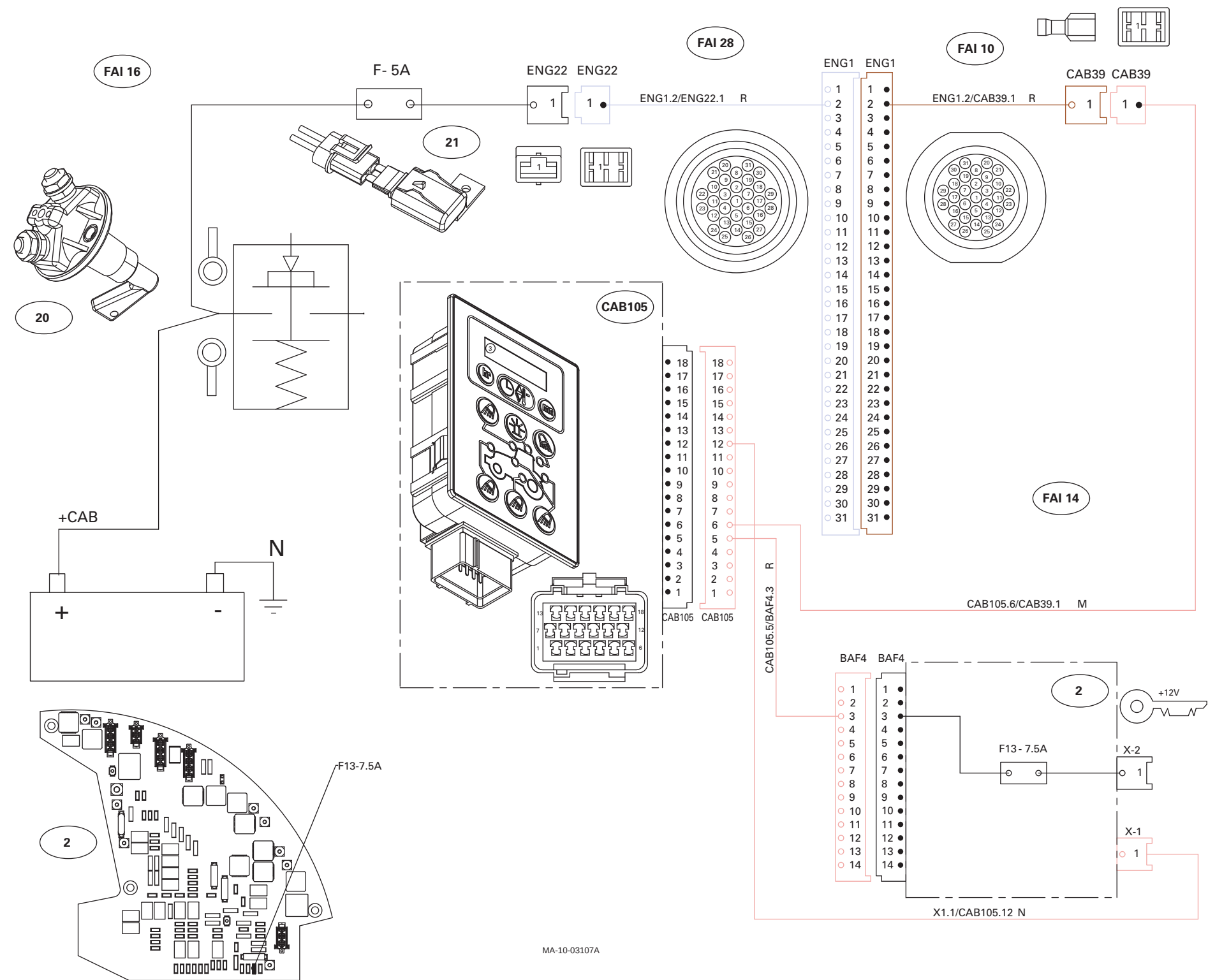
- 2 Fuse box
- FAI 14 Pillar harness
- CAB105 Lighting module—NA and Europe



MA-10-03106A

Work headlights module with circuit breaker—Europe (GBA20 and GBA10)

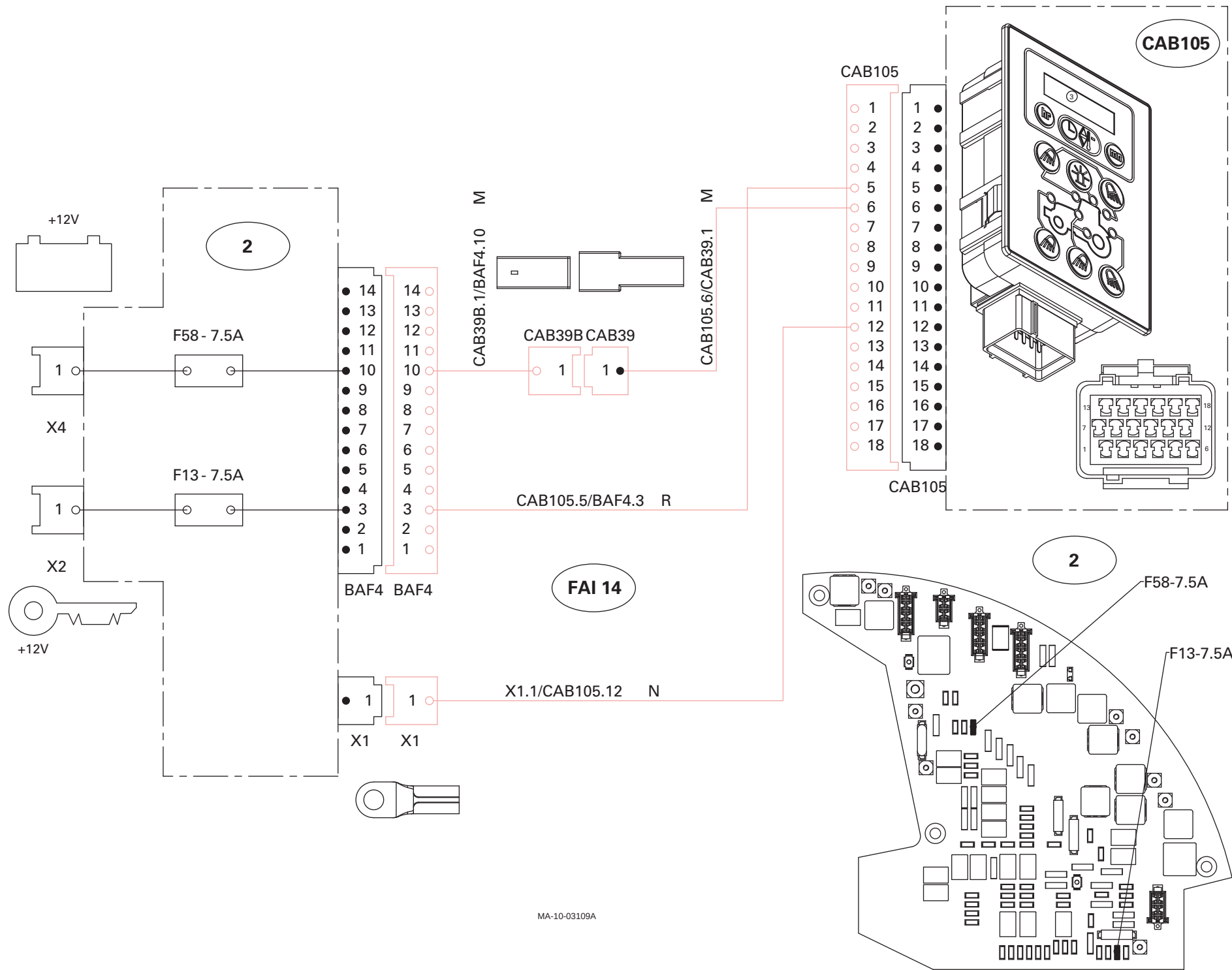
- 2 Fuse box
- 20 Circuit breaker
- 21 Line fuse
- FAI 10 Dynashift with EEM instrument panel harness
- FAI 14 Pillar harness
- FAI 16 Circuit breaker harness
- FAI 28 Perkins EEM engine harness
- CAB105 Lighting module—NA and Europe



ELECTRICAL DIAGRAMS - Lighting

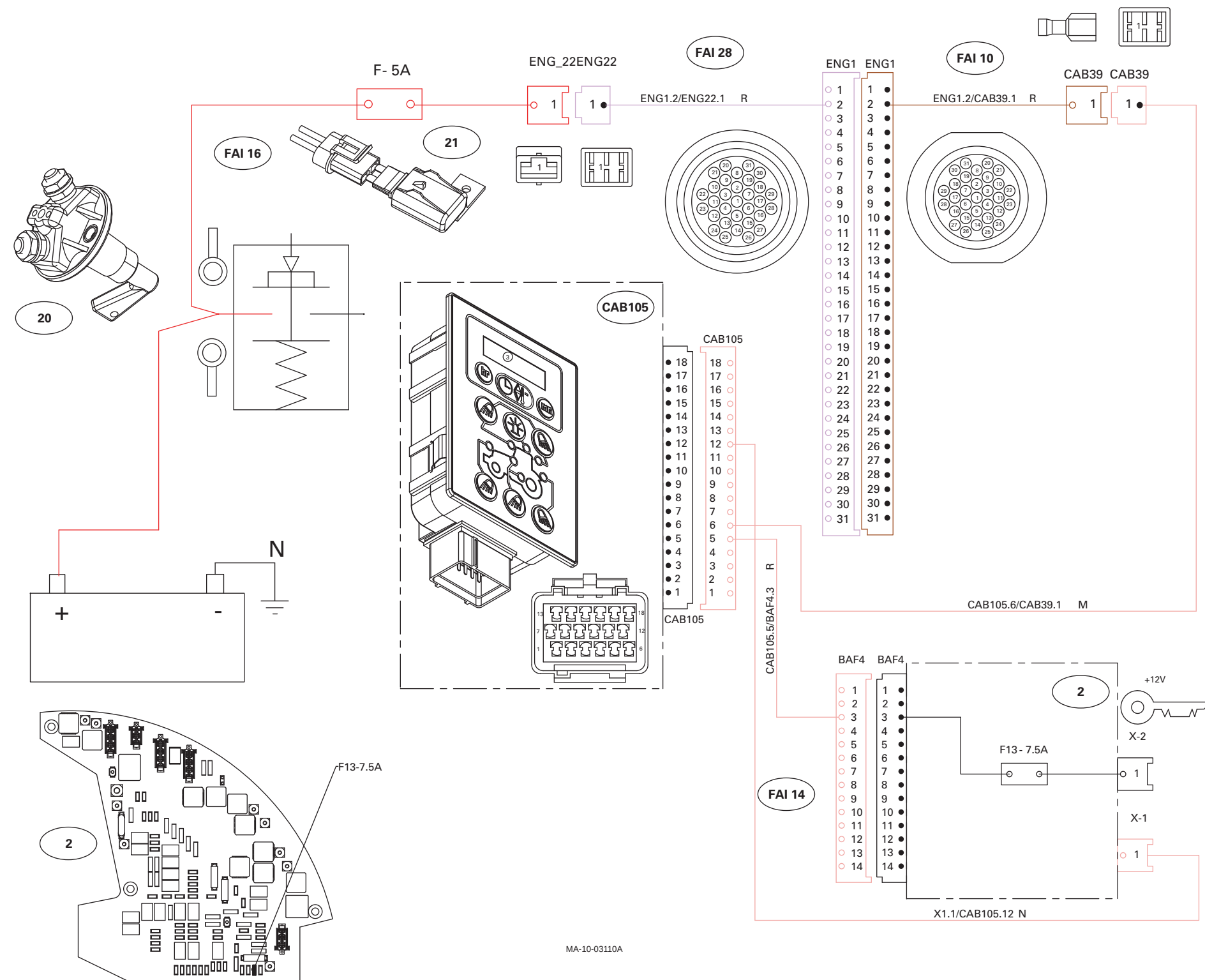
Work headlights module without circuit breaker—North America (GBA20 and GBA10)

- 2 Fuse box
- FAI 14 Pillar harness
- CAB105 Lighting module—NA and Europe



Work headlights module with circuit breaker—North America (GBA20 and GBA10)

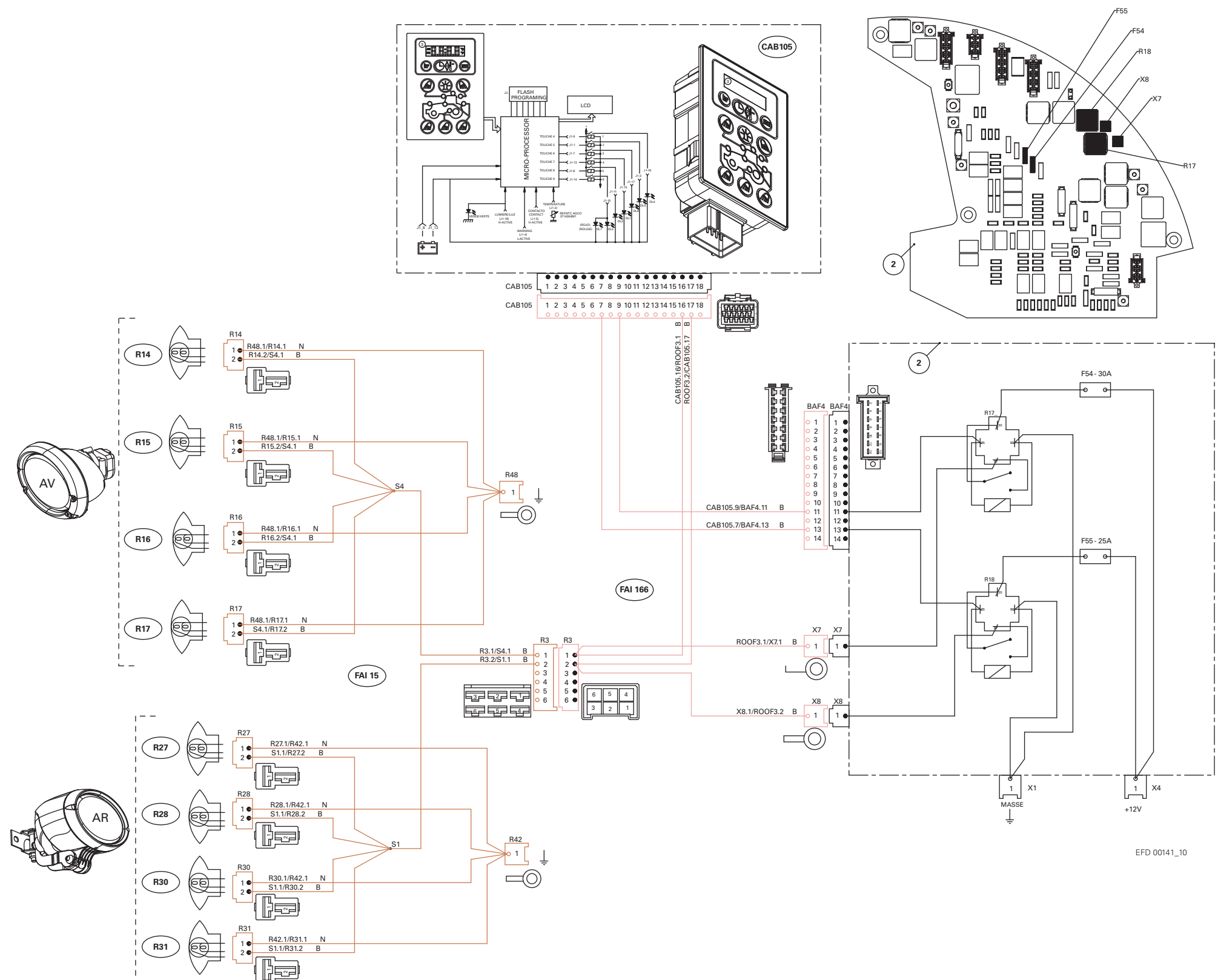
- | | |
|--------|---|
| 2 | Fuse box |
| 20 | Circuit breaker |
| 21 | Line fuse |
| FAI 10 | Dynashift with EEM instrument panel harness |
| FAI 14 | Pillar harness |
| FAI 16 | Circuit breaker harness |
| FAI 28 | Perkins EEM engine harness |
| CAB105 | Lighting module—NA and Europe |



ELECTRICAL DIAGRAMS - Lighting

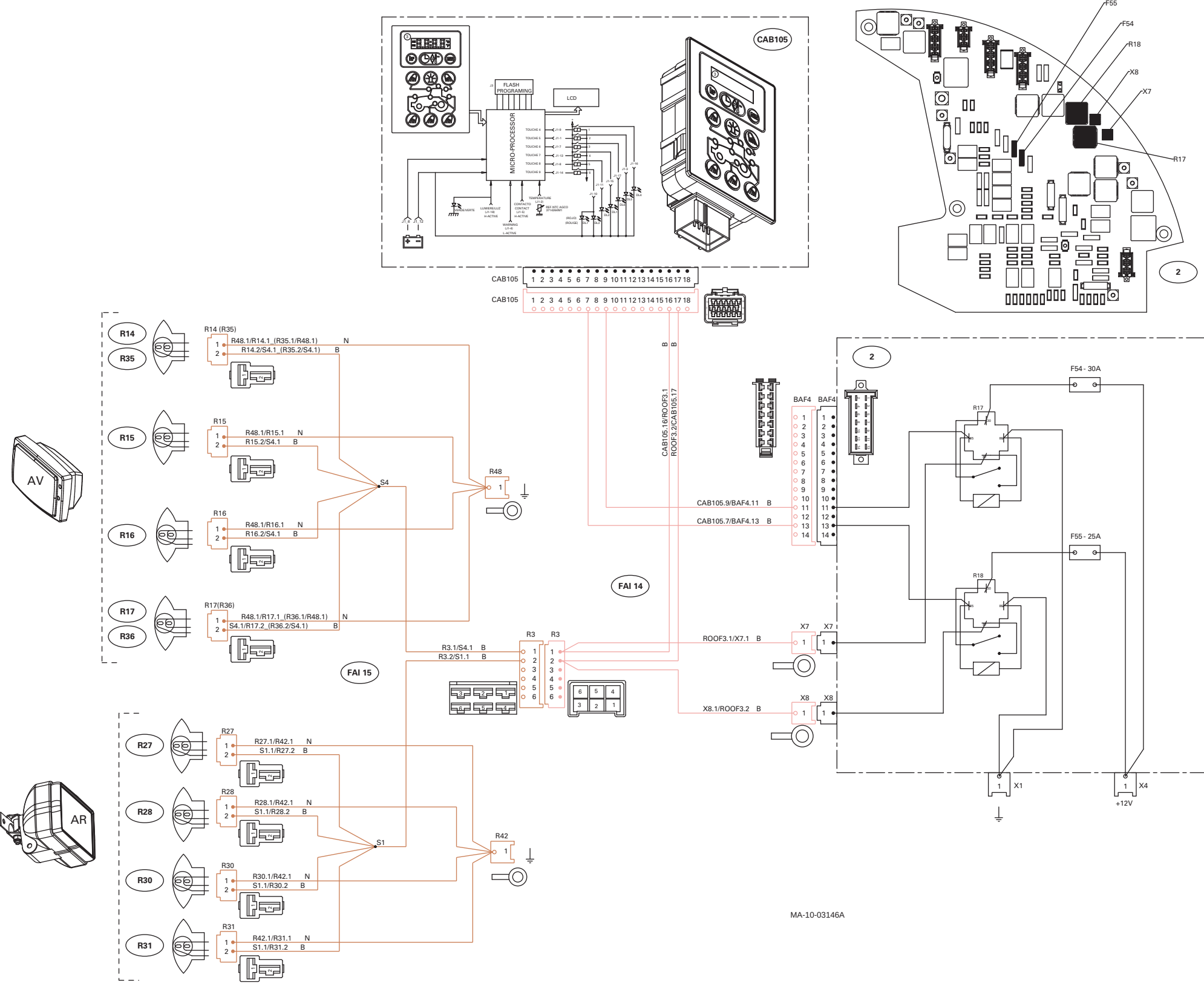
Work headlights on roof—Europe (GBA25 and GBA10-Auto5)

2	Fuse box
FAI 15	Roof harness
FAI 166	Pillar harness
CAB105	Headlights module
R14	Front work headlight
R15	Front work headlight
R16	Front work headlight
R17	Front work headlight
R27	Rear work headlight
R28	Rear work headlight
R30	Rear work headlight
R31	Rear work headlight



Standard work headlights on roof (GBA20 and GBA10)

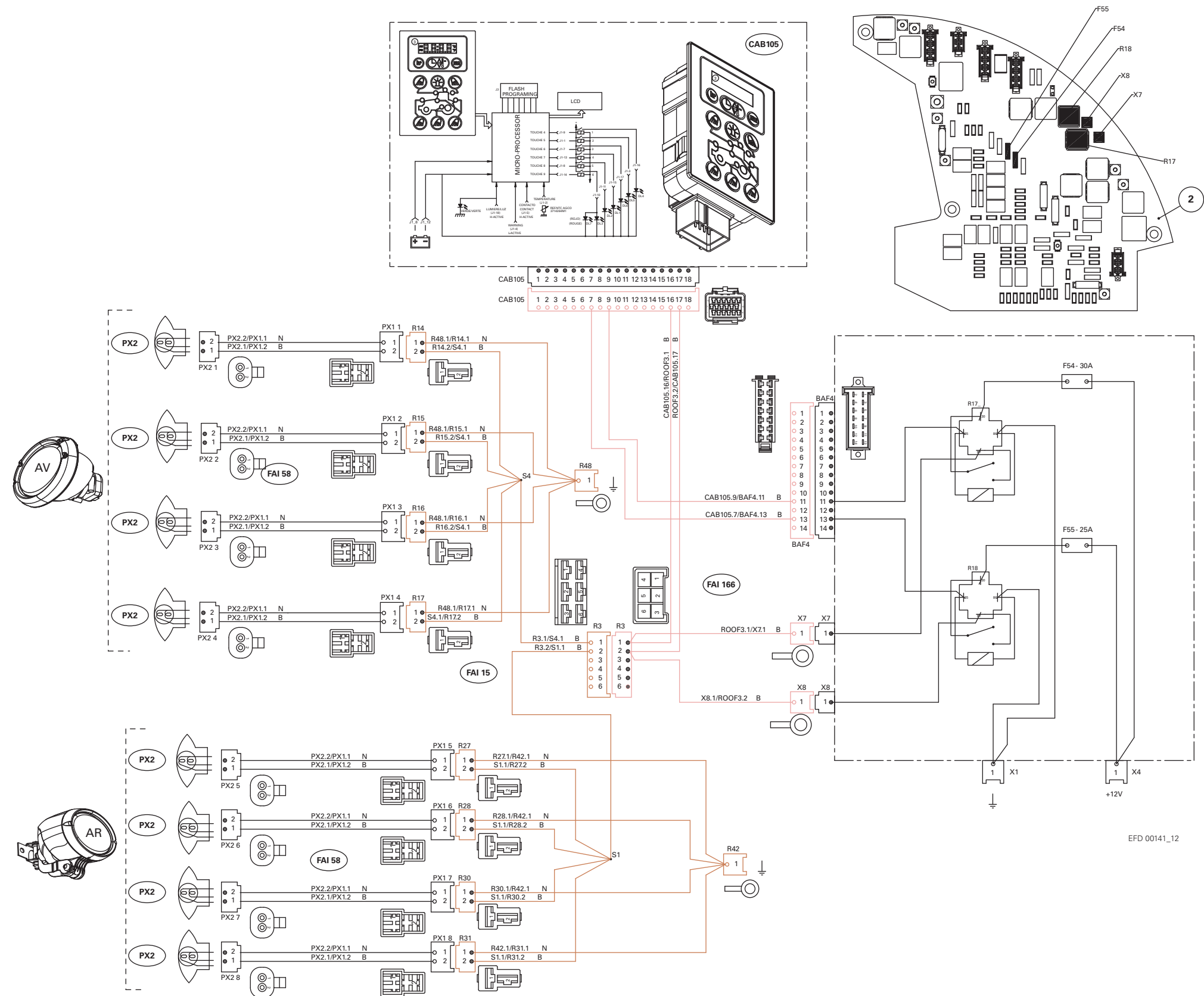
- 2 Fuse box
- FAI 14 Pillar harness
- FAI 15 Roof harness
- CAB105 Lighting module—NA and Europe
- R14 Front work headlight
- R15 Front work headlight
- R16 Front work headlight
- R17 Front work headlight
- R35 Front work headlight
- R36 Front work headlight
- R27 Rear work headlight
- R28 Rear work headlight
- R30 Rear work headlight
- R31 Rear work headlight



ELECTRICAL DIAGRAMS - Lighting

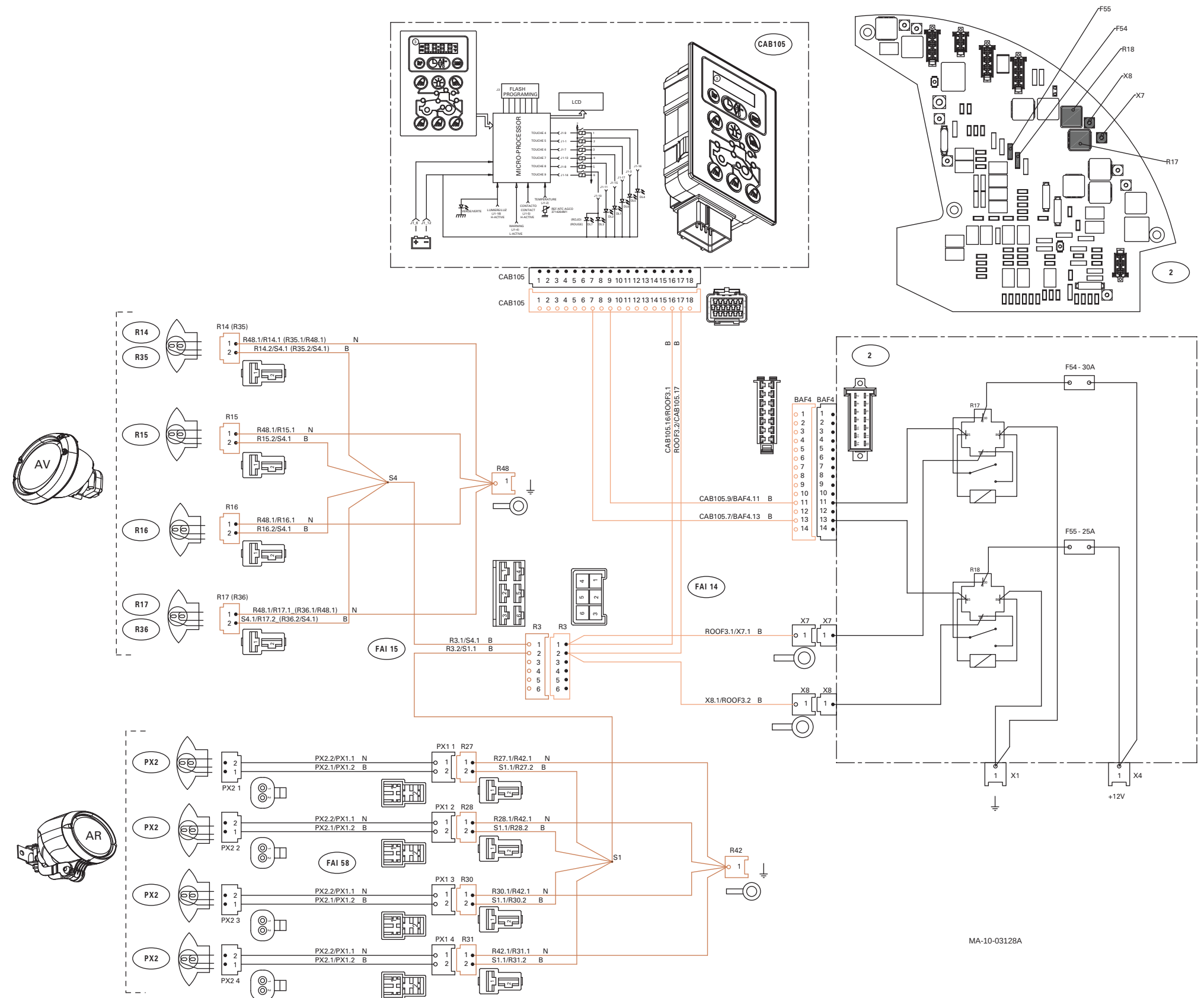
Xenon work headlights on roof—Europe
(GBA25 and GBA10-Auto5)

2	Fuse box
FAI 15	Roof harness
1FAI 58	Xenon headlight adapter harness
FAI 166	Pillar harness
CAB105	Headlights module
PX2	Xenon work headlights



Xenon work headlights on roof (GBA20 and GBA10)

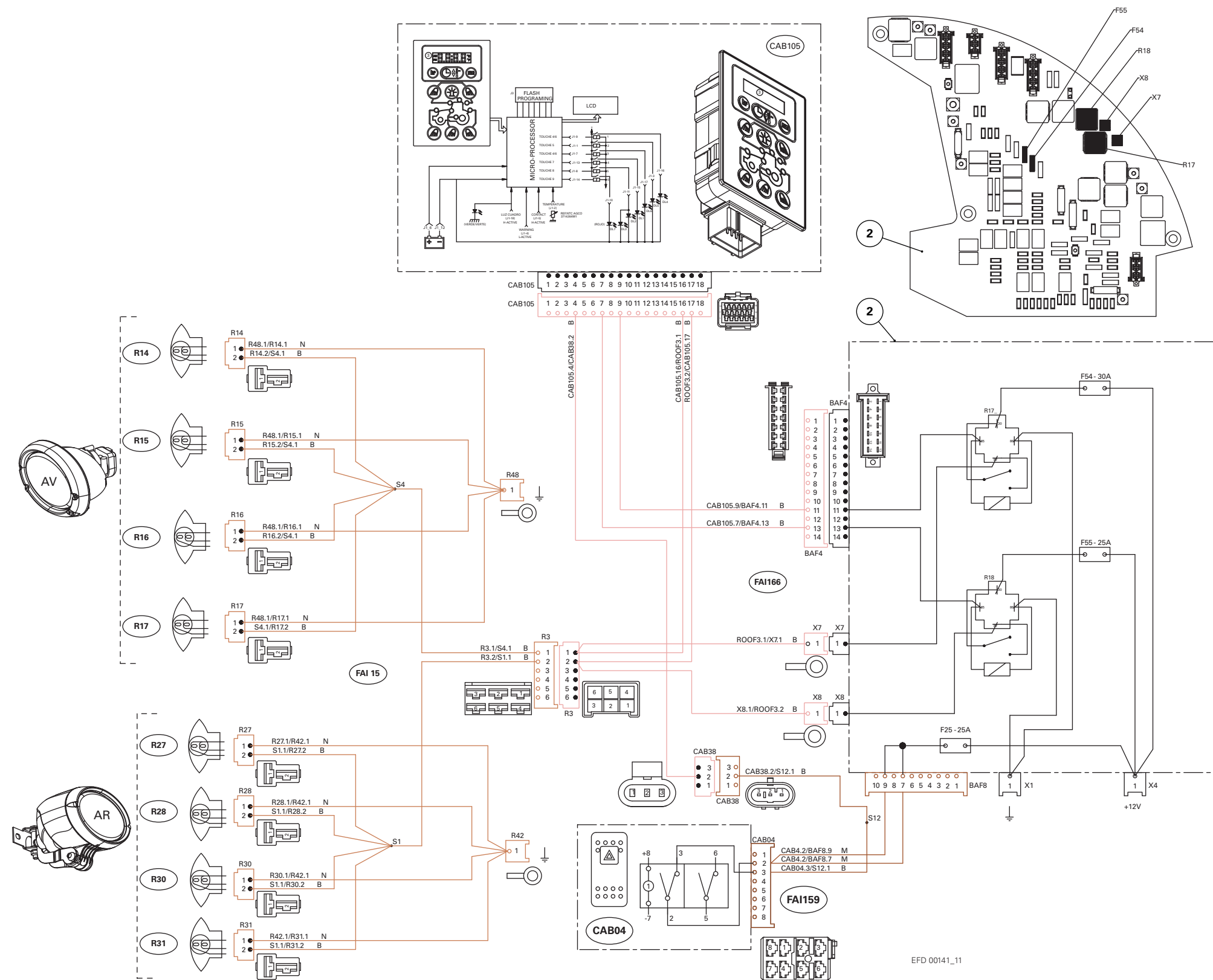
- | | |
|--------|---------------------------------|
| 2 | Fuse box |
| FAI 14 | Pillar harness |
| FAI 15 | Roof harness |
| FAI 58 | Xenon headlight adapter harness |
| CAB105 | Lighting module—NA and Europe |
| R14 | Front work headlight |
| R15 | Front work headlight |
| R16 | Front work headlight |
| R17 | Front work headlight |
| R35 | Front work headlight |
| R36 | Front work headlight |
| PX2 | Rear xenon work headlights |



ELECTRICAL DIAGRAMS - Lighting

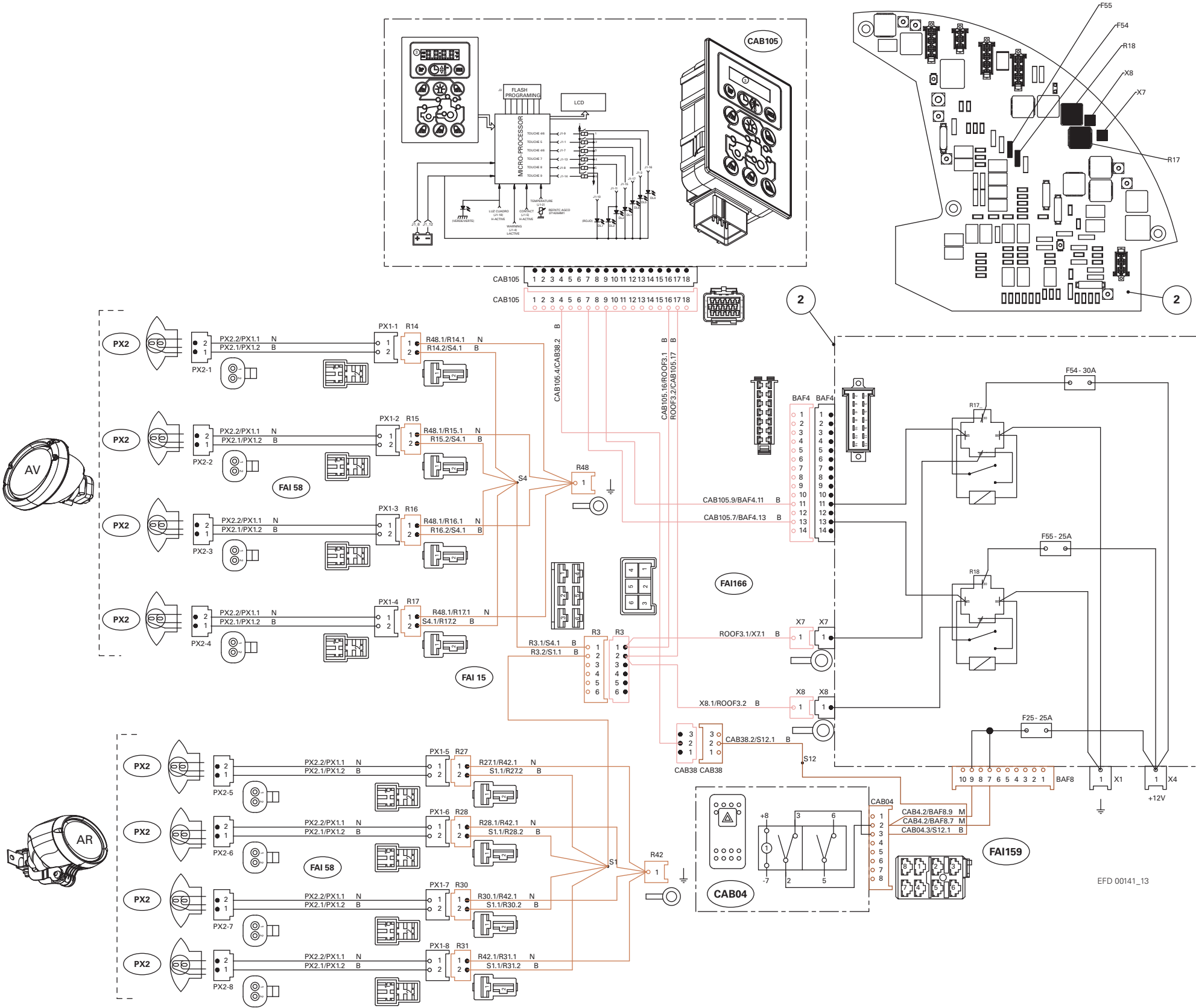
Work headlights on roof—North America
(GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 15 Roof harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB04 Warning switch
- CAB105 Headlights module
- R14 Front work headlight
- R15 Front work headlight
- R16 Front work headlight
- R17 Front work headlight
- R27 Rear work headlight
- R28 Rear work headlight
- R30 Rear work headlight
- R31 Rear work headlight



Xenon work headlights on roof—North America (GBA25 and GBA10-Auto5)

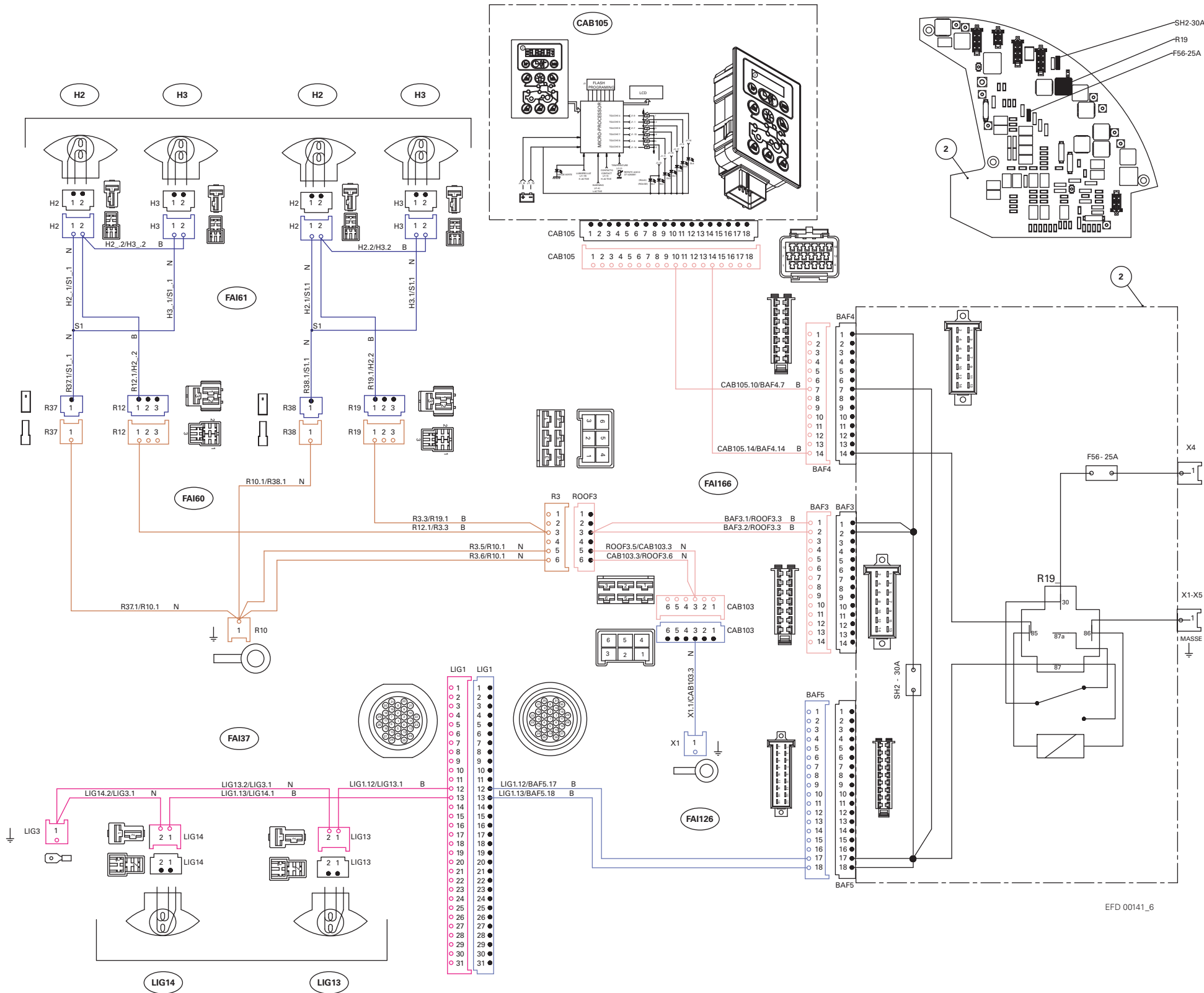
- 2 Fuse box
- FAI 15 Roof harness
- FAI 58 Xenon headlight adapter harness
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB04 Warning switch
- CAB105 Headlights module
- PX2 Xenon work headlights



ELECTRICAL DIAGRAMS - Lighting

Work headlights on fenders and guard rails—Europe (GBA25 and GBA10-Auto5)

- 2 Fuse box
- FAI 37 Fender lighting harness (all countries except US)
- FAI 60 Roof harness (all countries except US)
- FAI 61 Guard rail lighting harness (all countries except US)
- FAI 126 Lighting harness—Europe
- FAI 166 Pillar harness
- CAB105 Headlights module
- H2 Left guard rail lighting
- H3 Right guard rail lighting
- LIG13 Right fender work headlight
- LIG14 Left fender work headlight

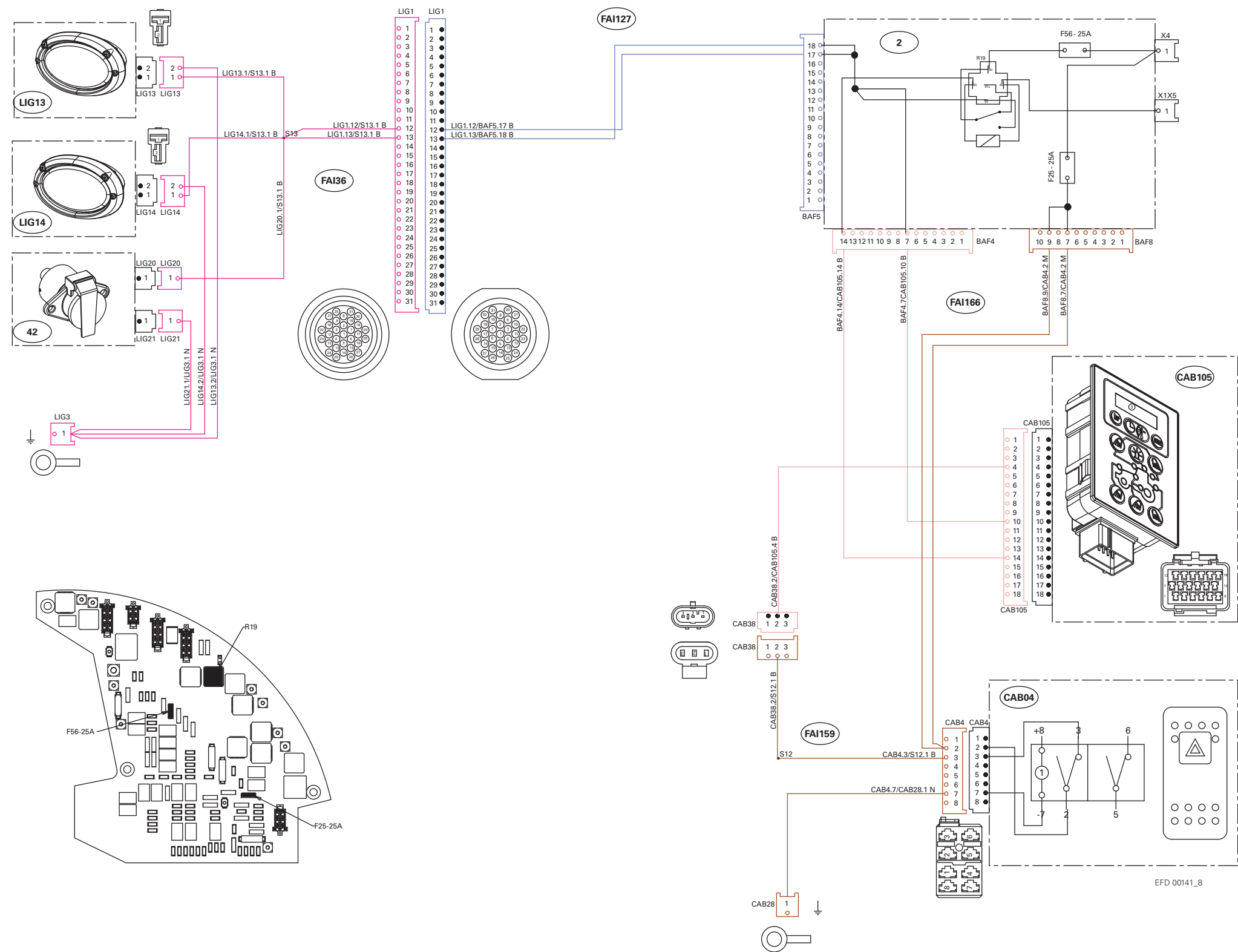


-
- The diagram illustrates the electrical architecture of a vehicle system, centered around a control unit (CAB105) and various input/output modules. Key components and their connections include:
- Control Unit (CAB105):** Features a MICRO-PROCESSOR, FLASH PROGRAMMING, and an LCD. It has two 18-pin connectors (CAB105) and a 14-pin connector (FAI 14).
 - Input Modules (FAI61, FAI60):** These modules interface with sensors (H2, H3) and switches (S1, S2). They use 2-pin and 3-pin connectors.
 - Output Modules (FAI 14, FAI 08, FAI 09):** These modules control actuators (R10, R12, R19, R37, R38) and relays (X4, X5). They use 14-pin and 18-pin connectors.
 - Relays and Switches:** Components like R10, R12, R19, R37, R38, X4, and X5 are shown with their internal wiring and terminal connections.
 - Connectors:** Various connectors are used throughout the system, including 2-pin, 3-pin, 14-pin, and 18-pin connectors.
 - Wiring Color Coding:** The diagram uses color-coded lines to represent different wiring harnesses: blue for power/ground, orange for control lines, pink for sensor inputs, and blue for actuator outputs.
- The diagram is labeled with component names (e.g., FAI61, FAI60, FAI 14, FAI 08, FAI 09, FAI 05) and includes a reference number MA-10-03108B at the bottom.

ELECTRICAL DIAGRAMS - Lighting

Work headlights on fenders—North America (GBA25 and GBA10-Auto5)

- 2 Fuse box
- 42 Trailer connector—North America
- FAI 36 Fender lighting harness (US)
- FAI 127 Cab interior lighting harness—US
- FAI 159 Instrument panel harness
- FAI 166 Pillar harness
- CAB04 Warning switch
- CAB105 Headlights module
- LIG13 Right fender work headlight
- LIG14 Left fender work headlight



10B13- ELECTRICAL DIAGRAMS - Supply of electronic boxes

CONTENTS

A . General 3

B . Electrical panels 5

ELECTRICAL DIAGRAMS - Supply of electronic boxes

A . General

Description

The harnesses fitted on the tractor allow data to be exchanged and power to be supplied to the electrical and electronic systems.

The tractor is fitted with 3 different types of power supply:

- +12V Battery (Permanent)
- +12V APC (Ignition key ON)
- +12V ACC (Accessories)

Most harnesses have a maximum of six different wire colours:

- Black: Ground
- Brown: +12V Permanent
- Red: +12V APC (Ignition key ON) and Accessories
- White: Information
- Yellow: CAN High
- Green: CAN Low

The CAN network wires (yellow and green) are twisted together.

- Components with only one connector are identified by the connector name:

CAB03 - Road lights switch (Fig. 1).

- All wires can be identified by the pins of the outgoing and incoming connectors of the harness:

CAB3.7/CAB28.1 : The wire connects pin 7 of the CAB03 connector to pin 1 of the CAB28 connector

- The detail of pins allocation for each connector is shown on the harness side
- The wire colour is indicated: CAB3.7/CAB28.1 N, the wire is black.

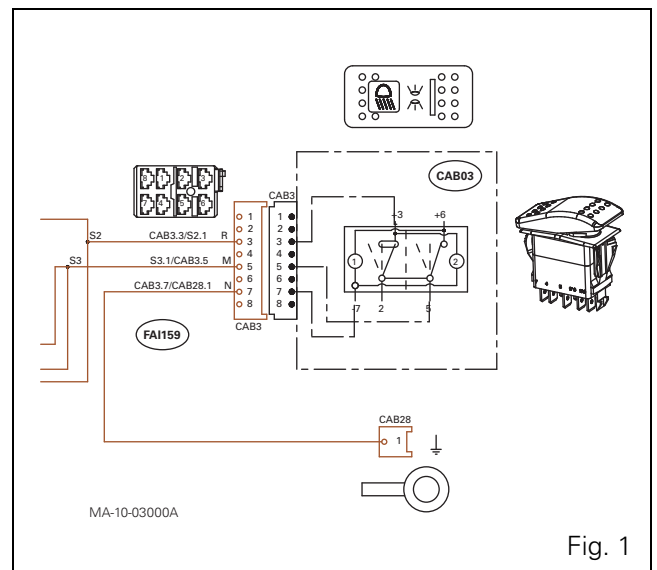
List of colours:

- N: Black
- M: Brown
- R: Red
- B: White
- J: Yellow
- V: Green

- The splices inside the harnesses are indicated by a dot and the letter S (S2).

In general, the components or connectors are named in order to indicate the corresponding elements of the tractor:

AC##	Armrest
BAF##	Fuse box
CA##	Automatic air conditioning
CAB##	Cab
ENG##	Engine
FA##	Suspended front axle
L##	Linkage - ParkLock (HA)
LIG##	Lighting
R##	Linkage and roof
ROOF##	Roof
TR##	Transmission
V#	Electrohydraulic spool valve
X#	Round battery cable terminal on fuse box



ELECTRICAL DIAGRAMS - Supply of electronic boxes

Layout

5 Deutsch connectors (31-way) are connected to the cab:

- 2 on the front panel (Fig. 2)
- 3 at the bottom rear right-hand side of the cab (Fig. 3).

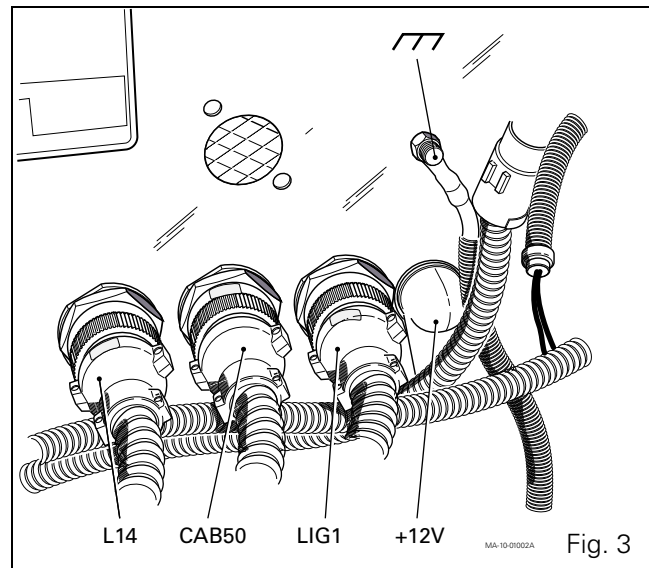
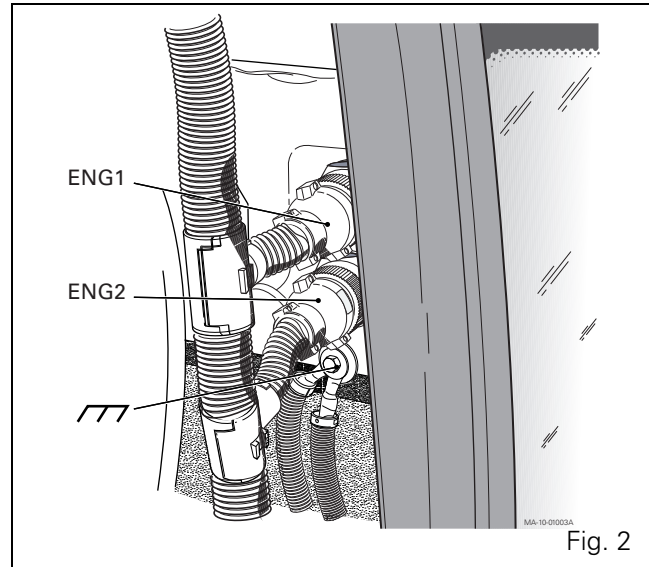
Fig. 2 :

All these connectors belong to the engine harness. ENG2 is dedicated to information concerning the electronic injection.

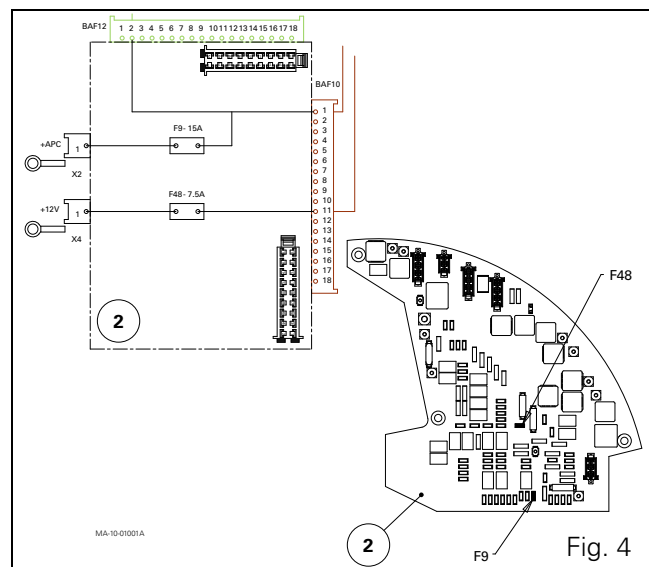
Fig. 3 :

Always in the following order (regardless of tractor configuration and options), from left to right:

- L14 Linkage harness junction
- CAB50 Transmission harness junction
- LIG1 Lighting harness junction



The fuses and relays of the electrical or electronic board (Fig. 4) are indicated by a black mark on their locations on the fuse box (2).



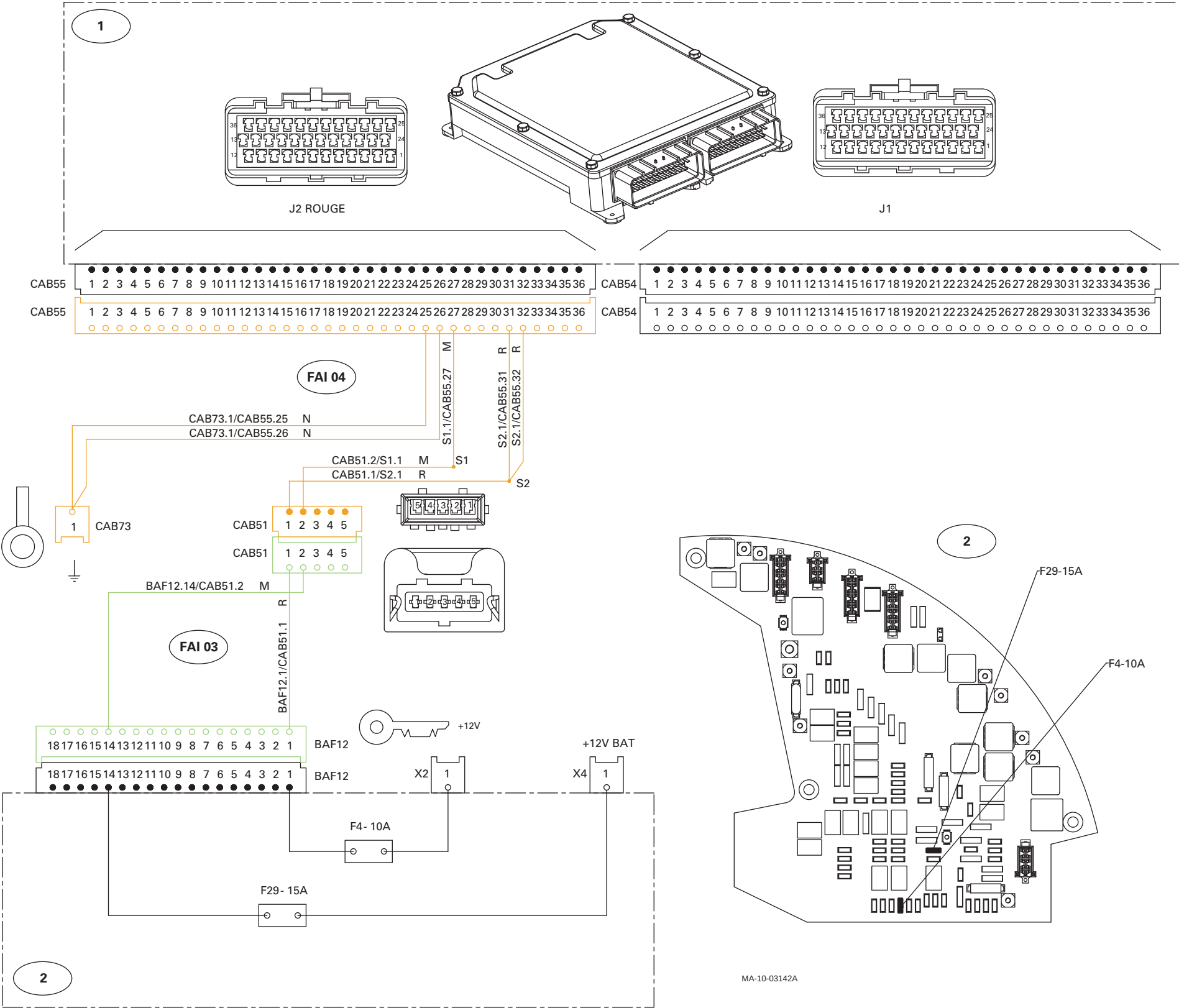
B . Electrical panels

AUTOTRONIC 3 electronic unit power supply (GBA20 and GBA10).....	7
AUTOTRONIC 5 Parklock electronic unit power supply.....	8
Autotronic 5 transmission supply (GBA25)	9
Autotronic 5 transmission supply (GBA10-Auto5).....	10
ELC electronic unit power supply (GBA20 and GBA10).....	11
Autotronic 5 linkage supply (GBA25).....	12
DCC2 power supply (GBA25 and GBA10-Auto5)	13
Dana suspended front axle Autotronic 5 power supply.....	14
Carraro suspended front axle electronic unit power supply.....	15
Perkins EEM electronic unit power supply	16
EEM Sisu electronic unit power supply	17
Datatronic 2 electronic unit power supply.....	18
Datatronic 3 power supply	19

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AUTOTRONIC 3 electronic unit power supply (GBA20 and GBA10)

- 1 Autotronic 3
- 2 Fuse box
- FAI 03 Dynashift console harness
- FAI 04 Cab Autotronic 3 harness



ELECTRICAL DIAGRAMS - Supply of electronic boxes

AUTOTRONIC 5 Parklock electronic unit power supply

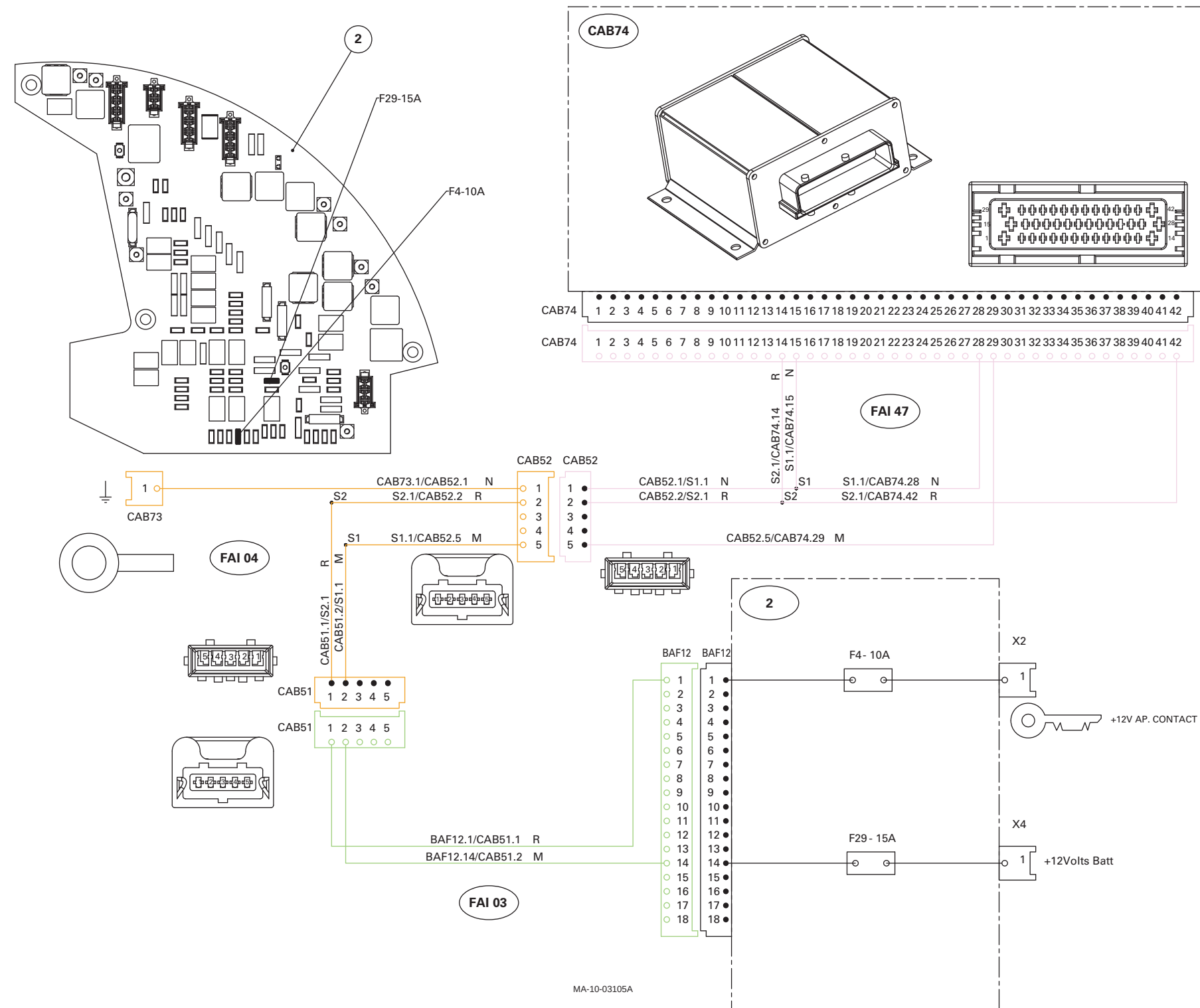
2 Fuse box

FAI 03 Dynashift console harness

FAI 04 Cab Autotronic 3 harness

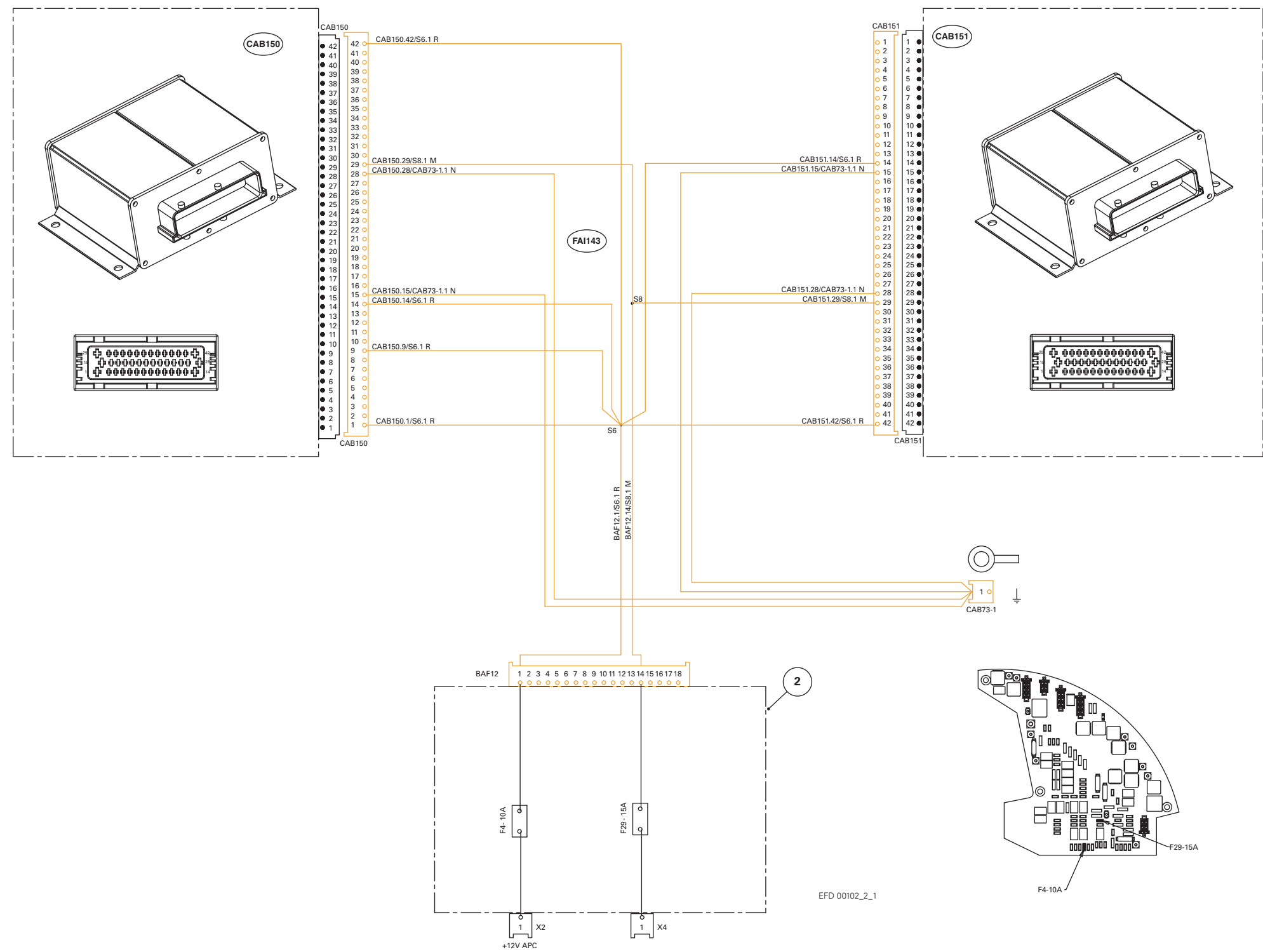
FAI 47 Parklock Autotronic 5 harness

CAB74 Autotronic 5—Parklock



Autotronic 5 transmission supply (GBA25)

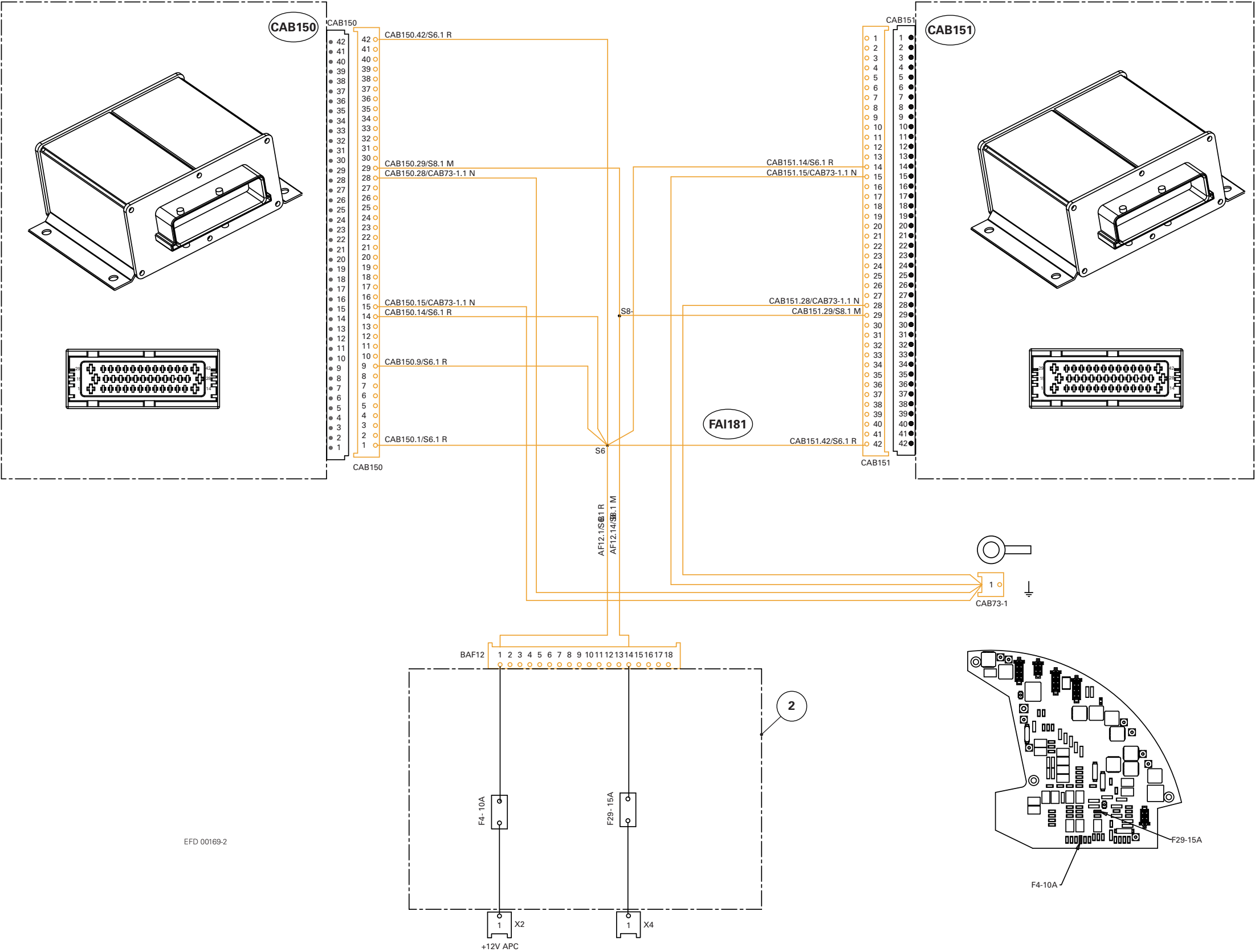
- 2 Fuse box
- FAI 143 Cab transmission harness
- CAB150 Autotronic 5 transmission No.2
- CAB151 Autotronic 5 transmission No.1



ELECTRICAL DIAGRAMS - Supply of electronic boxes

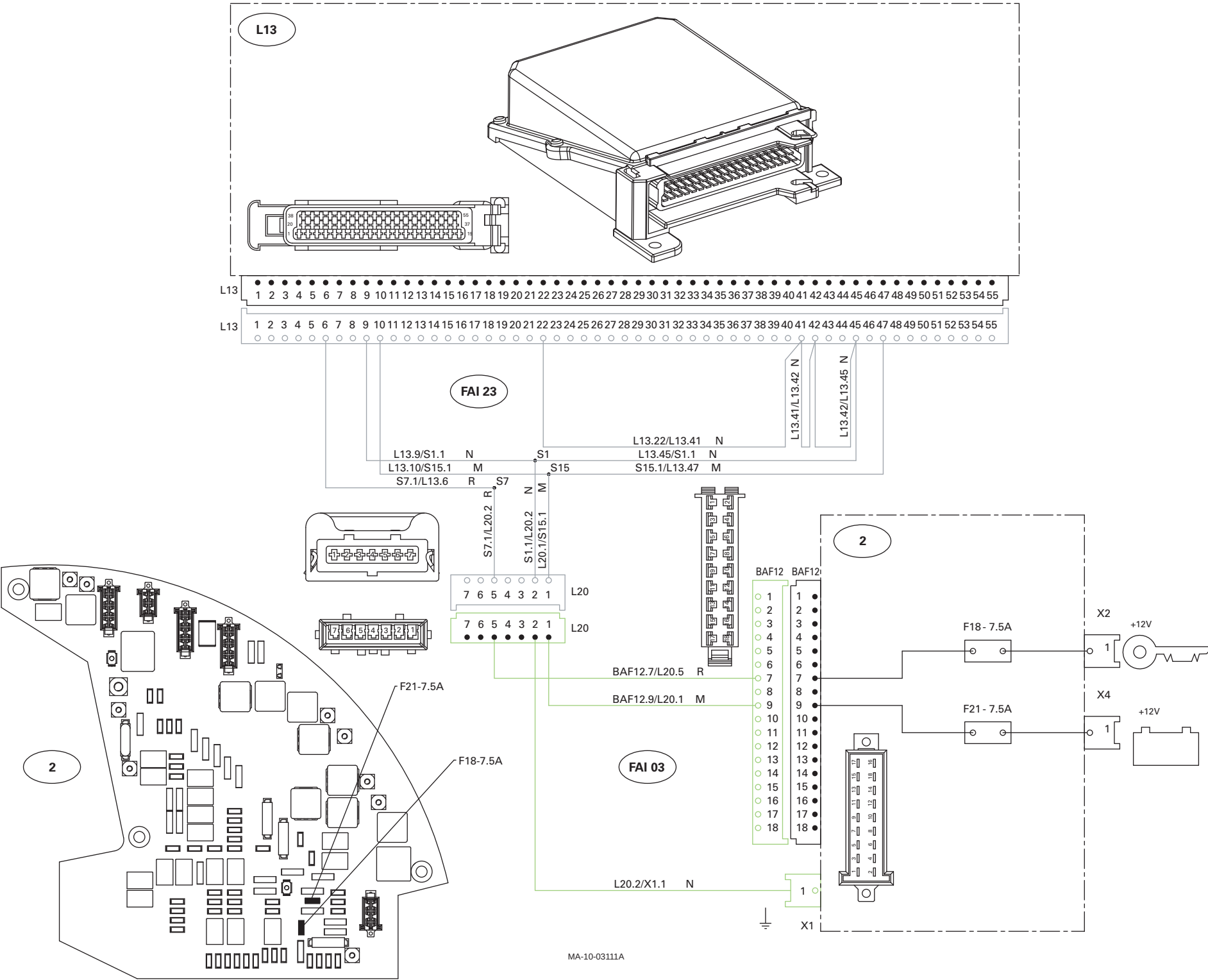
Autotronic 5 transmission supply
(GBA10-Auto5)

- 2 Fuse box
- FAI 181 Cab transmission harness
- CAB150 Autotronic 5 transmission No.2
- CAB151 Autotronic 5 transmission No.1



ELC electronic unit power supply (GBA20 and GBA10)

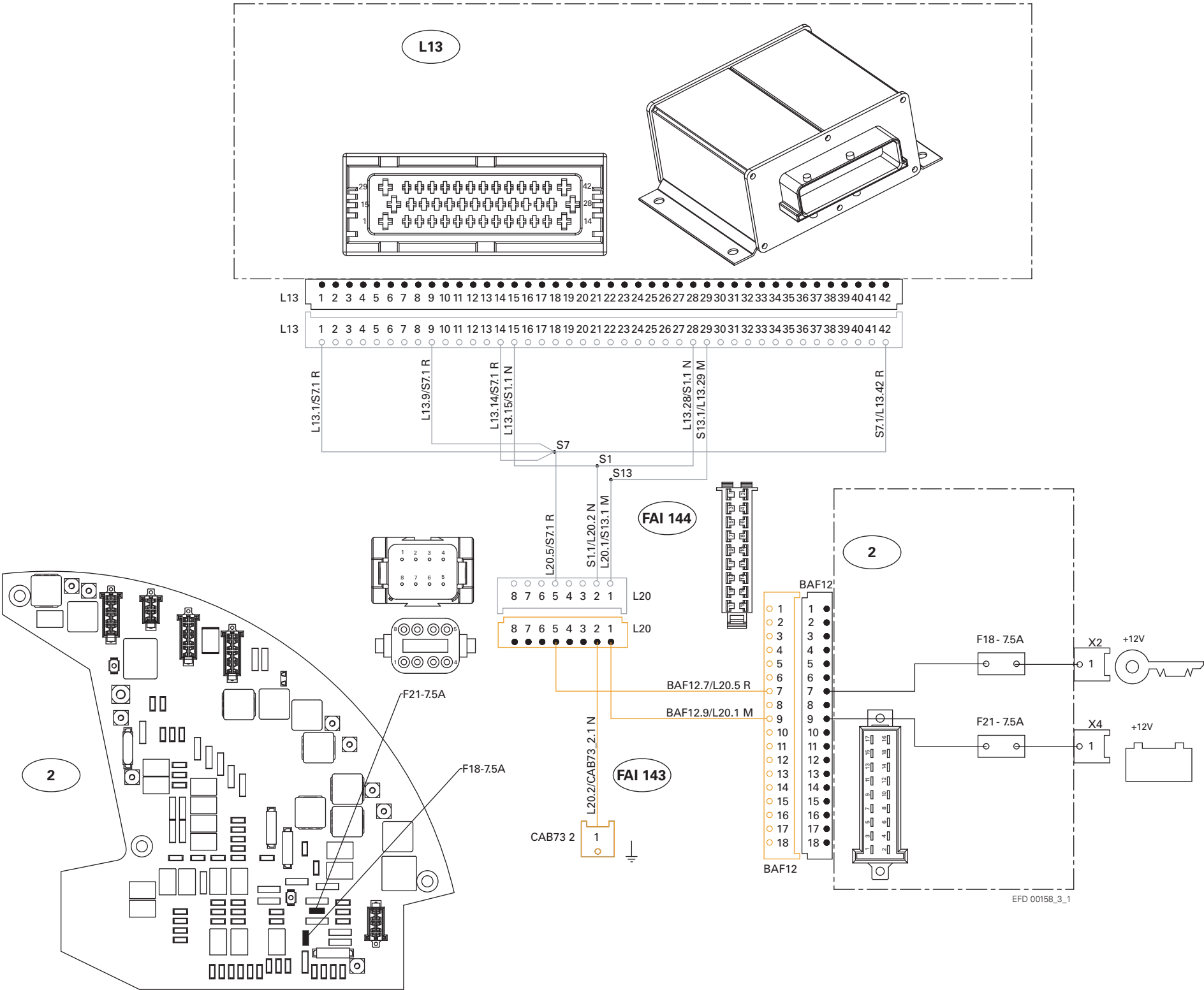
- 2 Fuse box
- FAI 03 Dynashift console harness
- FAI 23 Cab linkage harness
- L13 Electronic linkage controller (ELC)



ELECTRICAL DIAGRAMS - Supply of electronic boxes

Autotronic 5 linkage supply (GBA25)

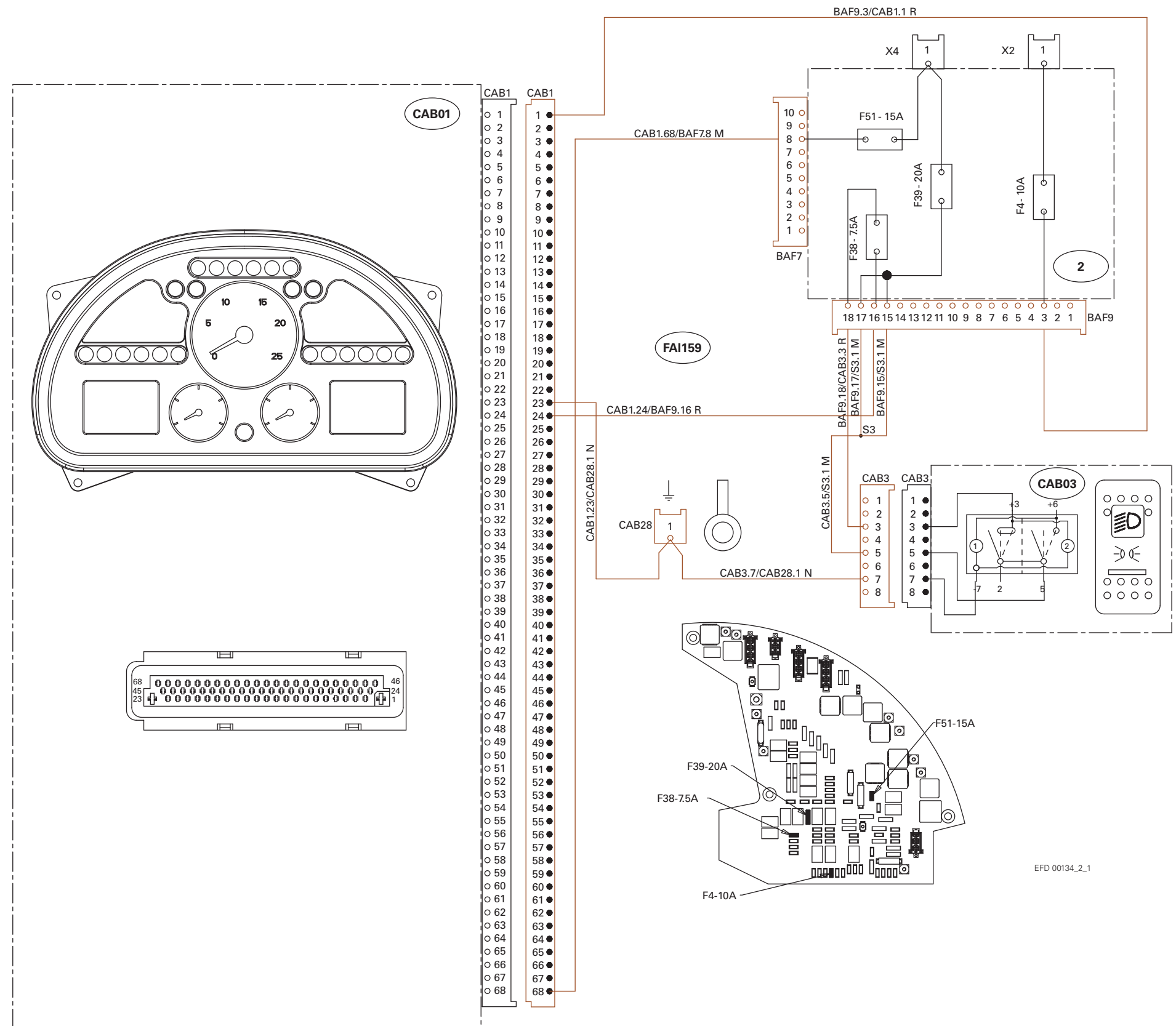
- 2 Fuse box
- FAI 143 Cab transmission harness
- FAI 144 Cab linkage harness
- L13 Autotronic 5 electronic linkage controller



ELECTRICAL DIAGRAMS - Supply of electronic boxes

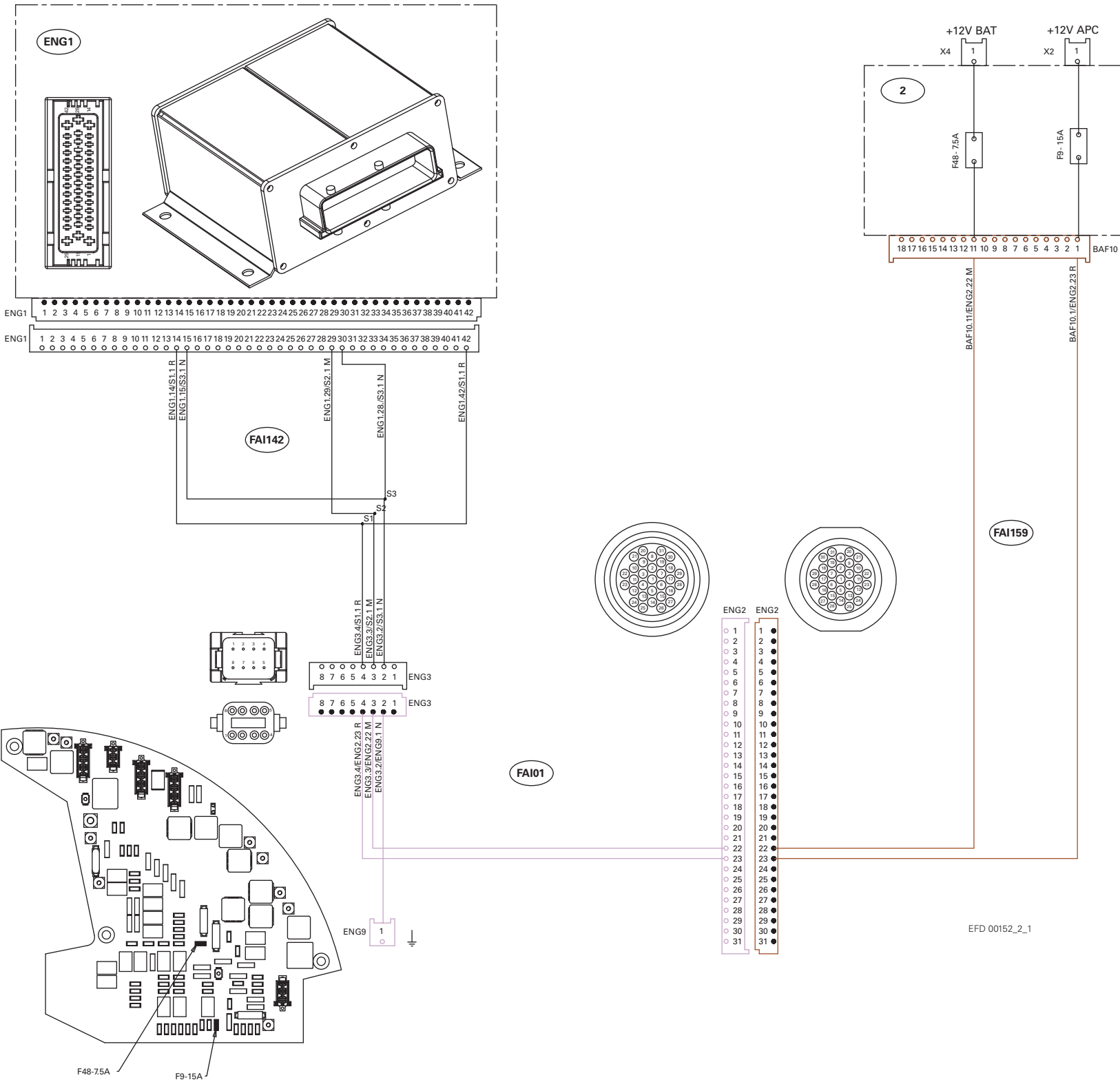
DCC2 power supply (GBA25 and GBA10-Auto5)

2	Fuse box
FAI 159	Instrument panel harness
CAB01	DCC2 instrument panel
CAB03	Road lights switch



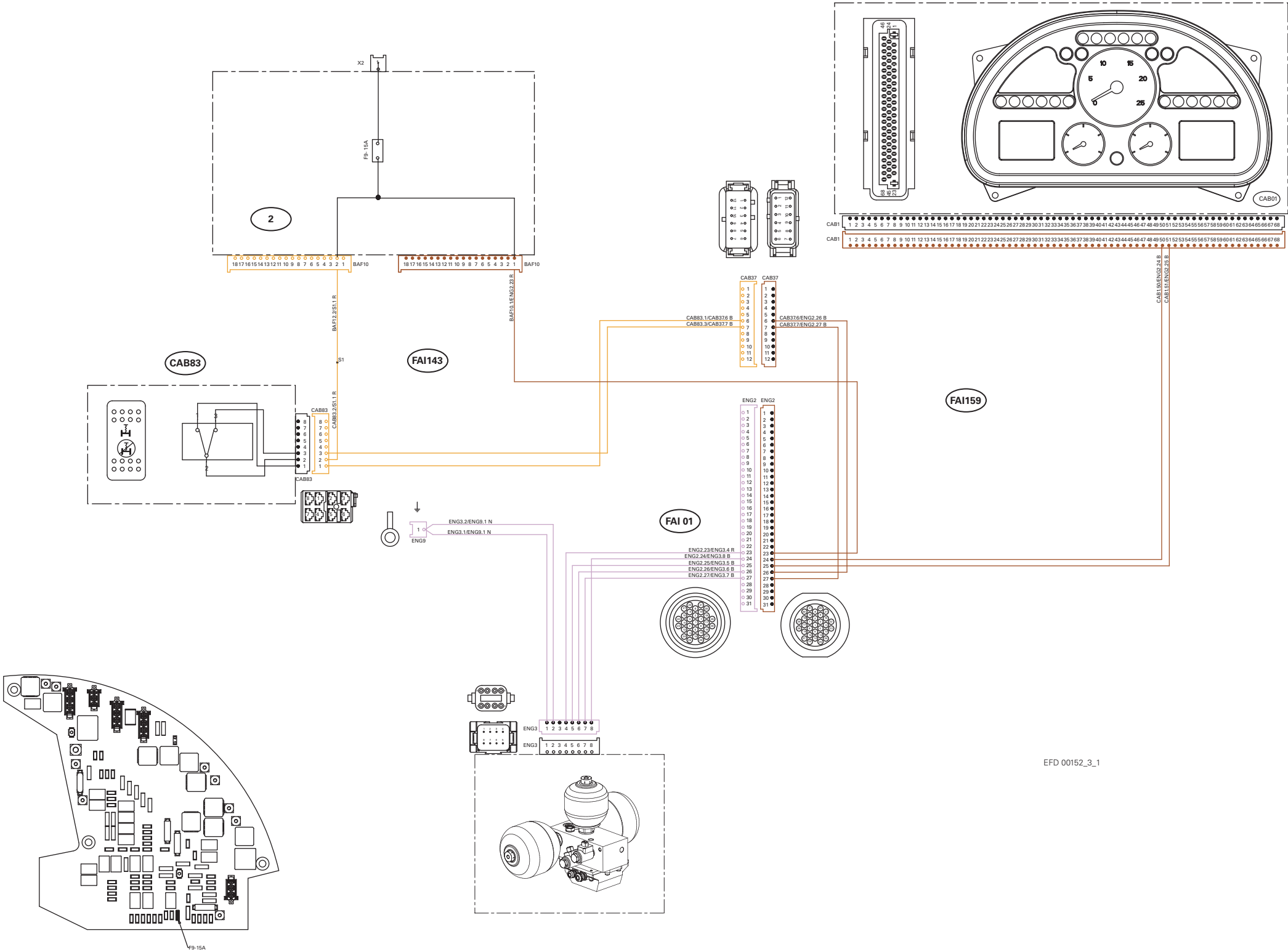
Dana suspended front axle Autotronic 5 power supply

- 2 Fuse box
- FAI 01 Engine harness
- FAI 142 Suspended front axle harness
- FAI 159 Instrument panel harness
- ENG1 Dana suspended front axle Autotronic 5 controller



Carraro suspended front axle electronic unit power supply

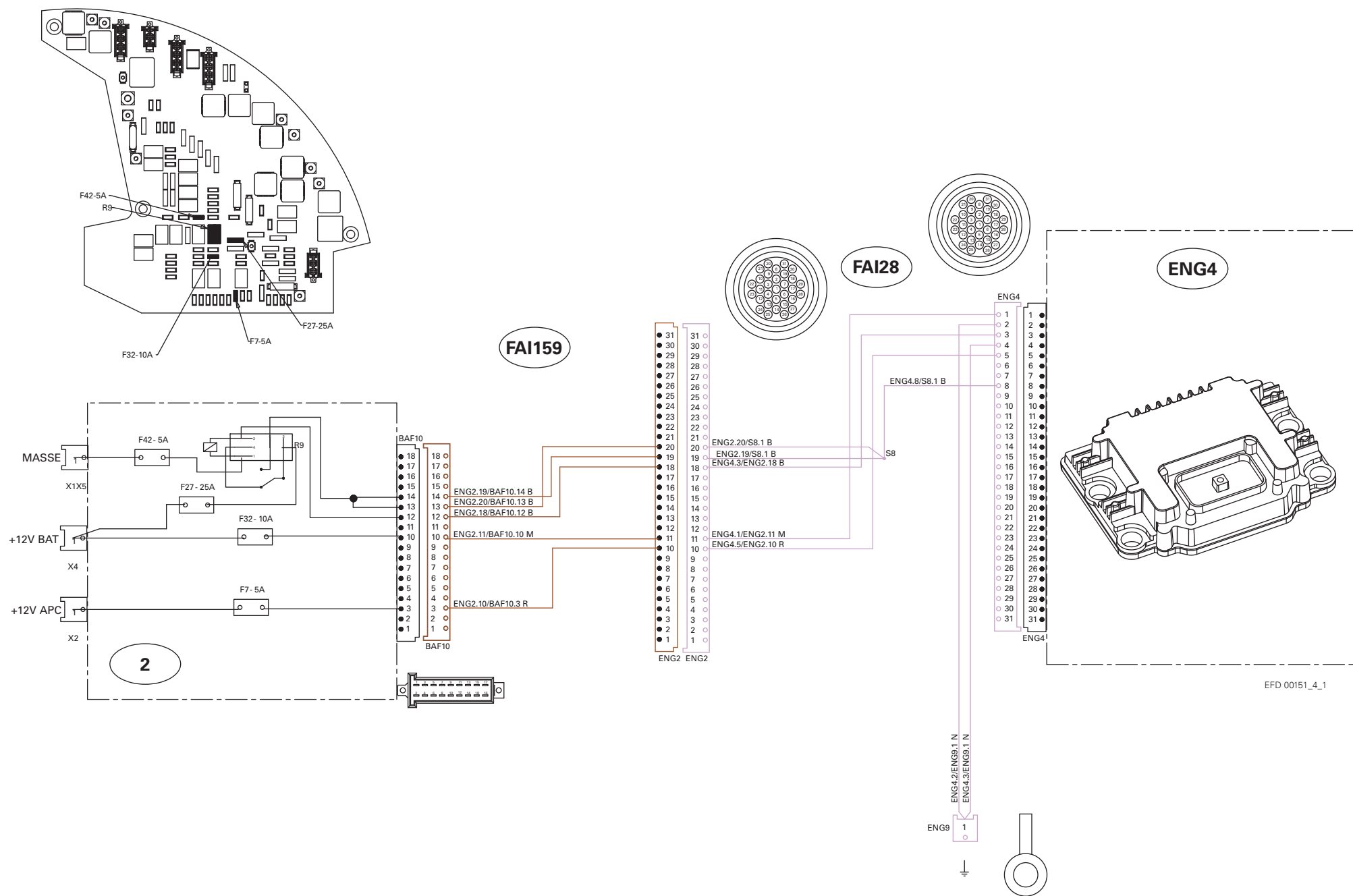
- 2 Fuse box
- FAI 01 Engine harness
- FAI 143 Cab transmission harness
- FAI 159 Instrument panel harness
- CAB01 DCC2 instrument panel
- CAB83 Suspended front axle switch



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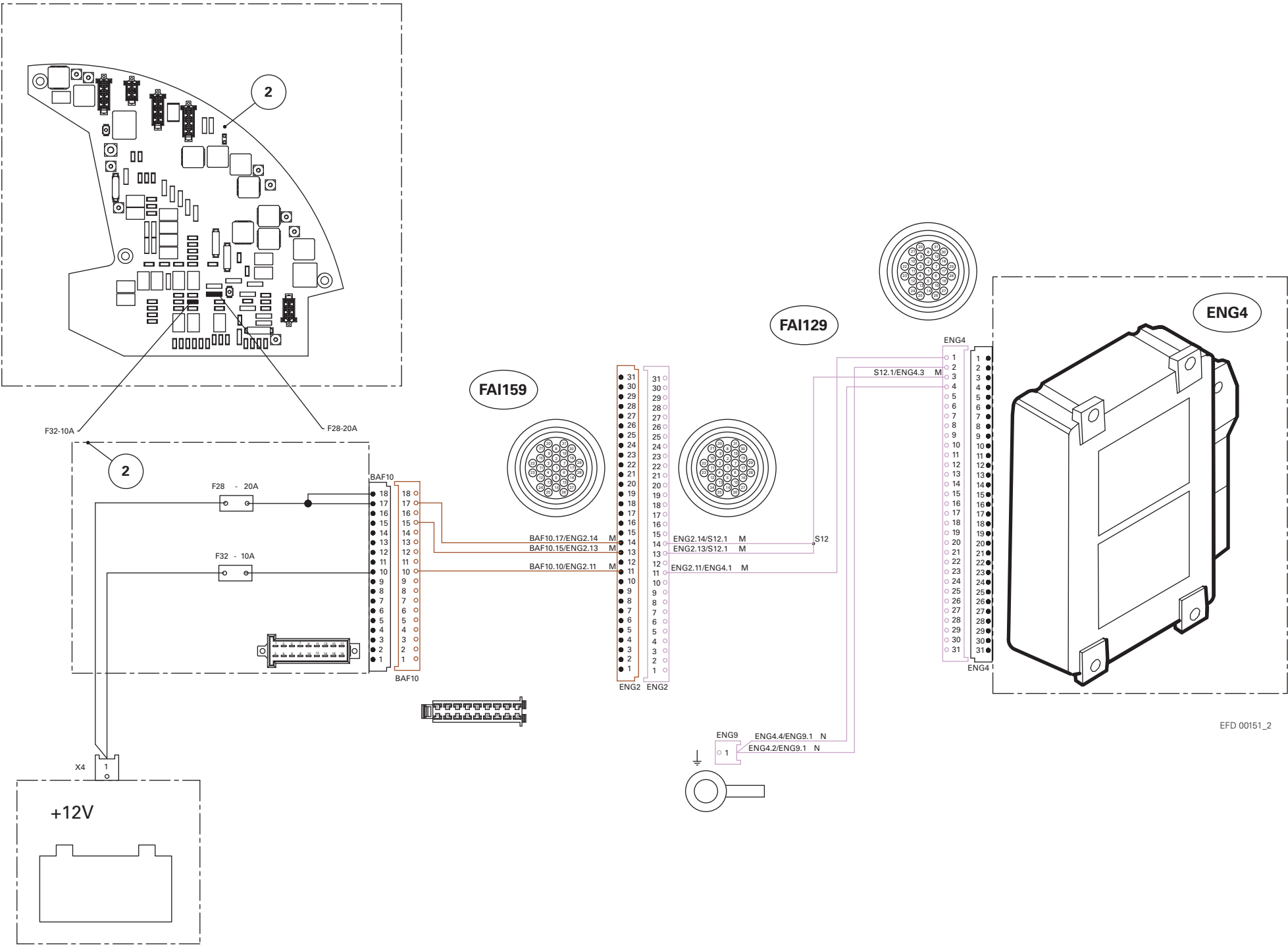
Perkins EEM electronic unit power supply

- 2 Fuse box
- FAI 28 Perkins EEM engine harness
- FAI 159 Instrument panel harness
- ENG4 Electronic injection harness junction



EEM Sisu electronic unit power supply

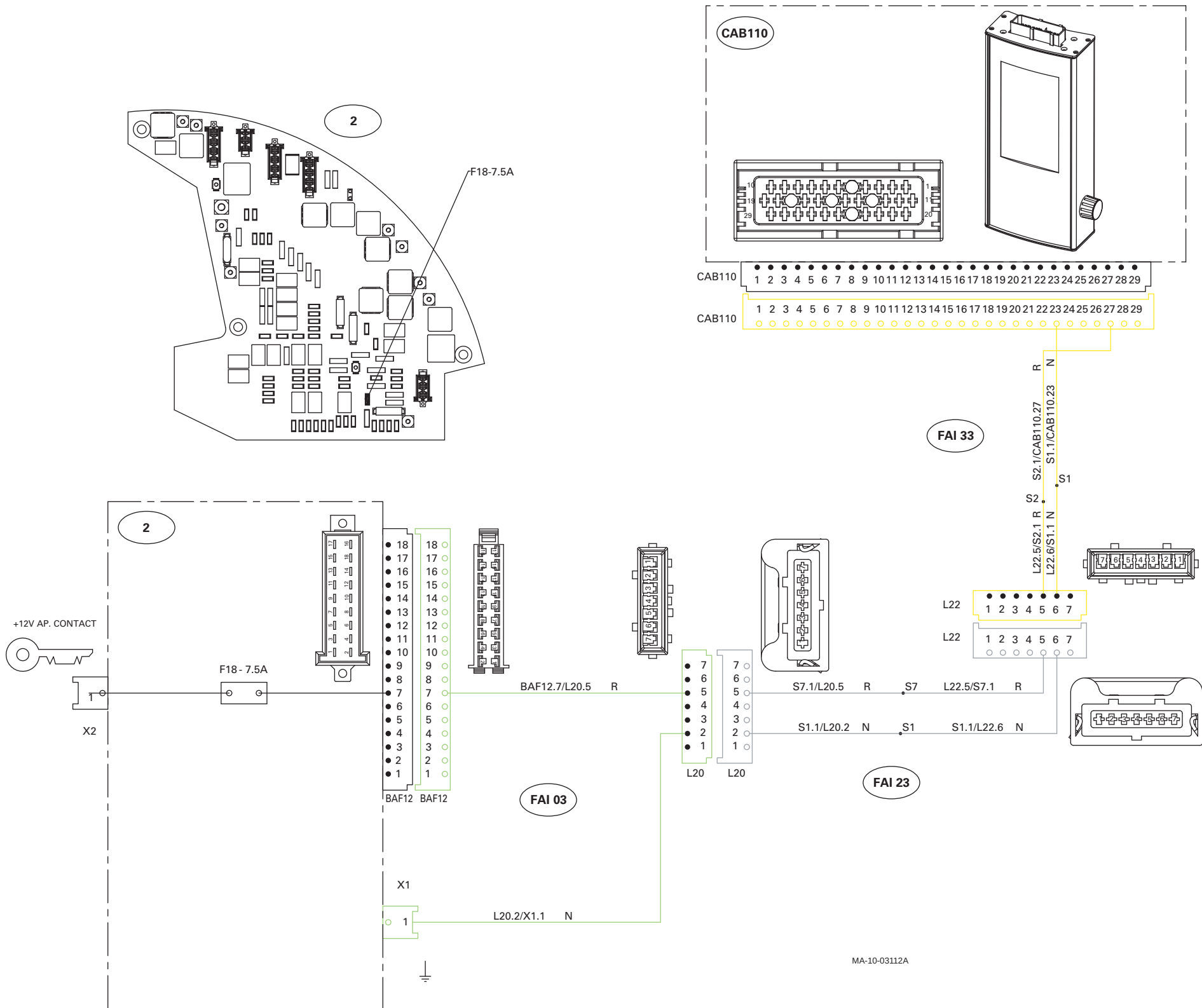
- 2 Fuse box
- FAI 129 EEM SisuDiesel engine harness
- FAI 159 Instrument panel harness
- ENG4 Electronic injection harness junction



ELECTRICAL DIAGRAMS - Supply of electronic boxes

Datatronic 2 electronic unit power supply

- 2 Fuse box
- FAI 03 Dynashift console harness
- FAI 23 Cab linkage harness
- FAI 33 Datatronic 2 harness



Datatronic 3 power supply

2 Fuse box

FAI 131 Datatronic 3 harness

FAI 143 Cab transmission harness

FAI 144 Cab linkage harness

FAI 145 Diagnostics connector harness

CAB112 Datatronic 3

