

SERVICE INFORMATION

Volvo Truck Corporation



Wiring diagram

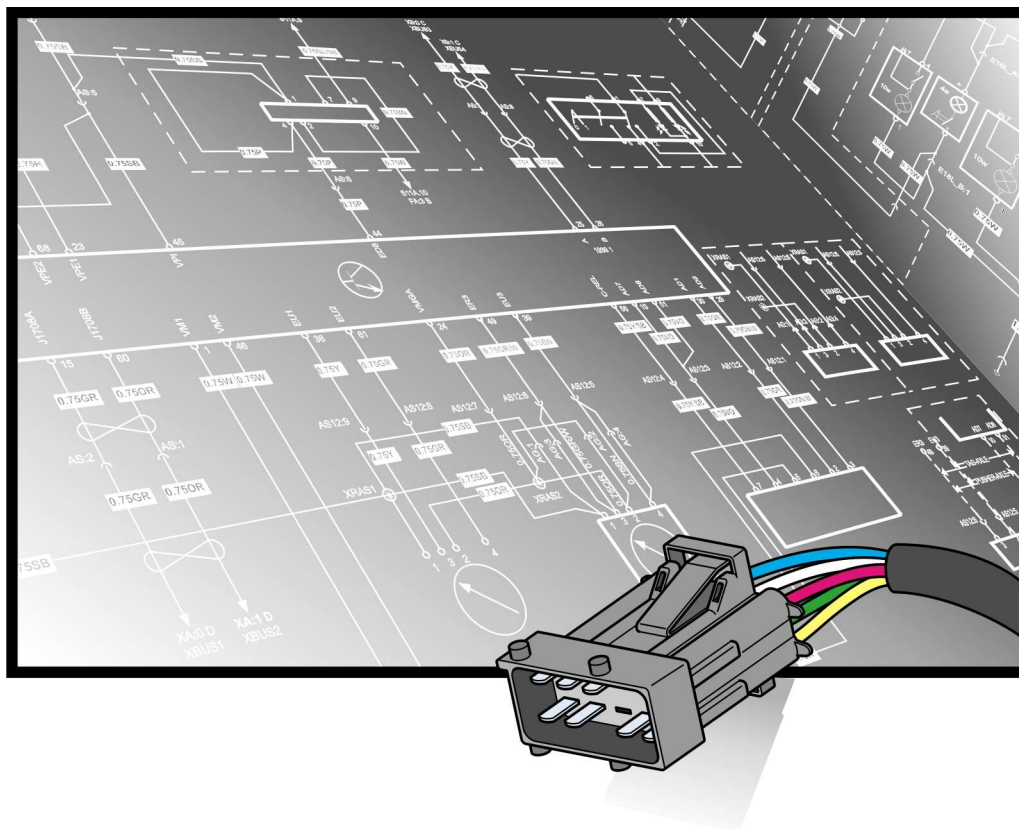
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CHID B672197–

CHID D200019–

CHID E808718–



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to September 2013.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is judged to have a significant bearing on this manual, an updated version of this manual will be issued to cover the changes.

The following levels of observations, cautions and warnings are used in this Service Documentation:

Note: Indicates a procedure, practice, or condition that must be followed in order to have the vehicle or component function in the manner intended.

Caution: Indicates an unsafe practice where damage to the product could occur.

Warning: Indicates an unsafe practice where personal injury or severe damage to the product could occur.

Danger: Indicates an unsafe practice where serious personal injury or death could occur.

Volvo Truck Corporation
Göteborg, Sweden

Note: Check always the latest information at the “Wiring diagrams-site”.

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Component wiring diagram index

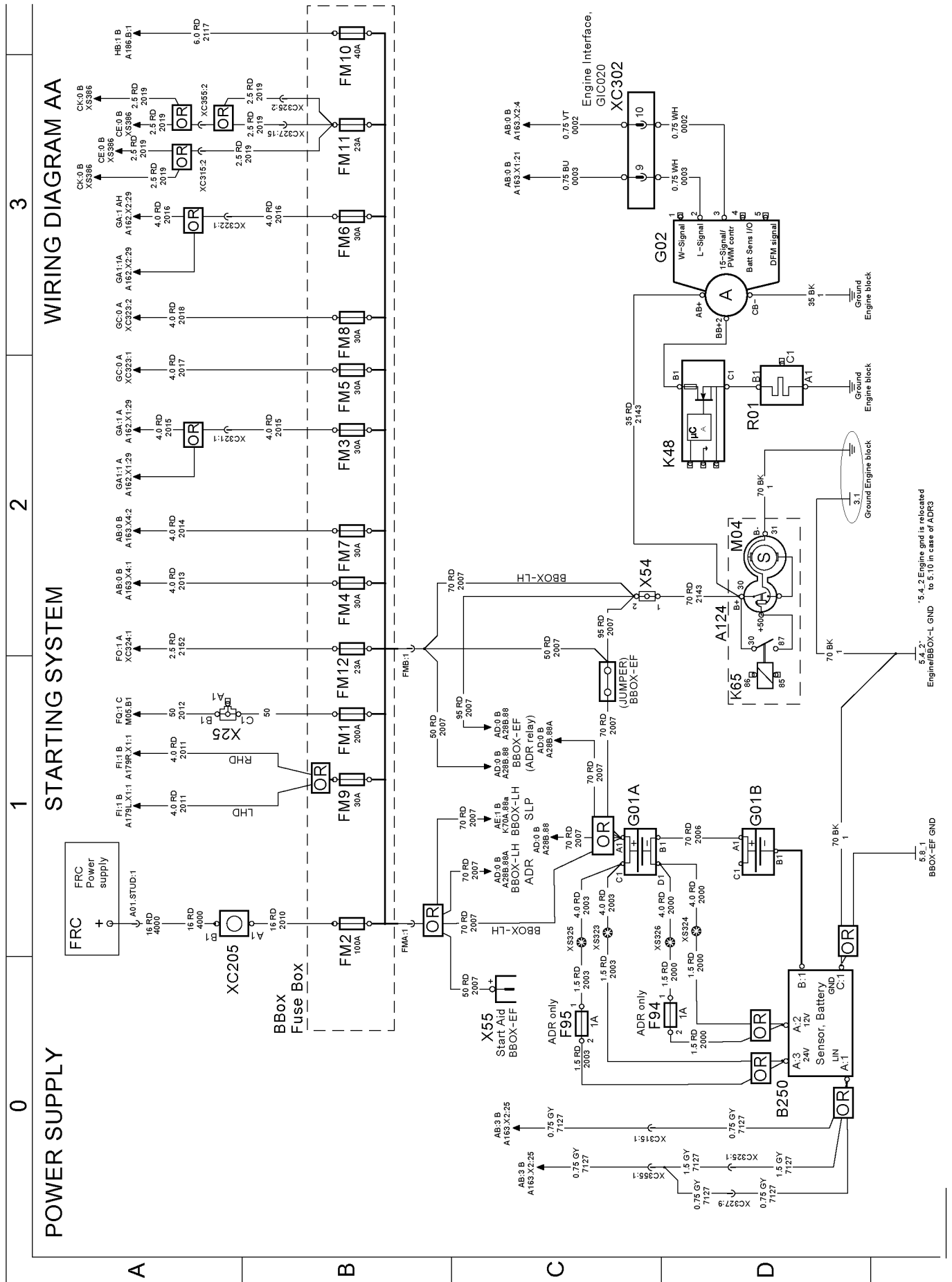
AA	Power supply, starting system.....	“ ”, page 5
AB	Power distribution, CCIOM.....	“ ”, page 6
AC	Main switch, UADR.....	“ ”, page 7
AD	Main switch, ADR1/ADR2	“ ”, page 8
AE	Main switch, ADR3	“ ”, page 9
AF	Key switch.....	“ ”, page 10
BA	Instrument.....	“ ”, page 11
BC	Tachograph.....	“ ”, page 12
BE	VMCU, Vehicle Master Control Unit	“ ”, page 13
BG	CIOM, Cab IO Module	“ ”, page 14
BU	TIS Telematics service.....	“ ”, page 15
BU1	TIS Telematics service.....	“ ”, page 16
BX	TIS Toll collect, FMS connector.....	“ ”, page 17
CA	Engine interface	“ ”, page 18
CA1	Engine interface, networks	“ ”, page 19
CB	Engine D11, EM-EU3/4/5, page 1	“ ”, page 20
	Engine D11, EM-EU3/4/5, page 2	“ ”, page 21
	Engine D11, EM-EU6, page 1	“ ”, page 22
	Engine D11,,EM-EU6, page 2	“ ”, page 23
	Engine D13, EM-EC01	“ ”, page 24
	Engine D13, EM-EC06/EM-EU5, page 1	“ ”, page 25
	Engine D13, EM-EC06/EM-EU5, page 2	“ ”, page 26
	Engine D13, EM-EU6, page 1	“ ”, page 27
	Engine D13, EM-EU6, page 2	“ ”, page 28
CE	After treatment system, EM-EU5.....	“ ”, page 29
CE1	After treatment system, EM-EU5.....	“ ”, page 30
CF	After treatment system, Adblue tank control, EM-EU5.....	“ ”, page 31
CK	After treatment system, EM-EU6.....	“ ”, page 32
CK1	After treatment system, EM-EU6.....	“ ”, page 33
CL	After treatment system, Adblue tank control, EM-EU6.....	“ ”, page 34
DA	Transmission, manual (interface).....	“ ”, page 35
DA1	Transmission, manual (gearbox and retarder)	“ ”, page 36
DC	Transmission , I-SHIFT (interface)	“ ”, page 37
DC1	Transmission, I-SHIFT (gearbox and retarder)	“ ”, page 38
DC2	Transmission, Powertronic and retarder	“ ”, page 39
DG	Differential lock and fuel level sensor	“ ”, page 40
DK	Retarder (interface).....	“ ”, page 41
DM	Retarder (interface) EM-EU6	“ ”, page 42

EA	ABS.....	“ ”, page 43
EE	EBS, control unit.....	“ ”, page 44
EF	EBS, front axle modulator.....	“ ”, page 45
EG	EBS, rear axle modulator	“ ”, page 46
EH	EBS, 6x2 and tridem.....	“ ”, page 47
EI	EBS, trailer modulator	“ ”, page 48
FA	Air-suspension, front.....	“ ”, page 49
FB	Suspension, level sensor, WRG.....	“ ”, page 50
FC	Air-suspension, rear, 6x2, 6x4 and tridem, valves	“ ”, page 51
FD	Air-suspension, rear, 4x2.....	“ ”, page 52
FE	Air management, APM, Air Production Modulator with EPB...	“ ”, page 53
FH	Front axle steering, hydraulic	“ ”, page 54
FI	Front axle steering, electronic, FAS, LHD	“ ”, page 55
FL	Rear axle steering, electronic, RAS	“ ”, page 56
FM	Rear axle steering, self steering, RAS	“ ”, page 57
FO	EAS, extra axle steering	“ ”, page 58
FQ	Bogie lift, A-ride with load sensor	“ ”, page 59
GA	Exterior light, front, left, road	“ ”, page 60
GA1	Exterior light, front, left, construction	“ ”, page 61
GB	Exterior light, front, right, road	“ ”, page 62
GB1	Exterior light, front, right, construction.....	“ ”, page 63
GC	Exterior light, rear	“ ”, page 64
GE	Exterior light, side and load light.....	“ ”, page 65
GF	Exterior light, roof, identification light.....	“ ”, page 66
GK	Trailer connection, RIGID	“ ”, page 67
GL	Trailer connection, TRACTOR.....	“ ”, page 68
GM	Trailer connections, RIGID TREL-14.....	“ ”, page 69
GP	Wiper, washer	“ ”, page 70
HA	Climate unit.....	“ ”, page 71
HC	Parking heater, water.....	“ ”, page 72
HD	Parking heater, air.....	“ ”, page 73
HE	Amb. temp, short stop heater, AC clutch.....	“ ”, page 74
HF	Fuel hose heater.....	“ ”, page 75
HK	Roof coole	“ ”, page 76
IA	Interior light	“ ”, page 77
IB	Interior light	“ ”, page 78
IC	Interior light, instep light.....	“ ”, page 79
IF	Comfort accessories.....	“ ”, page 80
IG	12V power supply 20A/20A/11A.....	“ ”, page 81

IK	Audio.....	“ ”, page 82
IO	Video switch, camera, SID display.....	“ ”, page 83
IP	Horn.....	“ ”, page 84
IR	Door, left.....	“ ”, page 85
IS	Door, right.....	“ ”, page 86
IT	Seats.....	“ ”, page 87
IU	Sun roof, sun visor.....	“ ”, page 88
KA	Cab tilt.....	“ ”, page 89
LA	Lubrication system.....	“ ”, page 90
NA	Body builder, BBM.....	“ ”, page 91
NB	Body builder, VMCU.....	“ ”, page 92
NC	Body builder, CCIOM, PTO.....	“ ”, page 93
ND	Body builder electrical center.....	“ ”, page 94
ND1	Body builder electrical center AUXSW4.....	“ ”, page 95
ND2	Body builder, Tipper prep kit.....	“ ”, page 96
NE	Body builder electrical center, extra lighting.....	“ ”, page 97
NF	Body builder extra lighting.....	“ ”, page 98
NK	Body builder plough lamps.....	“ ”, page 99
NL	Body builder preparation kit.....	“ ”, page 100
PA	DACU, Driver Assistance Control Unit.....	“ ”, page 101
PB	Lane position.....	“ ”, page 102
PE	SRS, Supplementary Restrain System, airbag.....	“ ”, page 103
PH	Alcolock, start prevention system.....	“ ”, page 104
RA	Alarm.....	“ ”, page 105
SA	Backbone 1.....	“ ”, page 106
SB	Backbone 2.....	“ ”, page 107
SC	Cab subnet.....	“ ”, page 108
SD	Chassis subnet.....	“ ”, page 109
SE	Infotainment subnet.....	“ ”, page 110
SF	Security subnet.....	“ ”, page 111
SK	Switch module topology, CIOM.....	“ ”, page 112
SL	Switch module topology, HMIOM.....	“ ”, page 113
XA	OBD interface.....	“ ”, page 114
YA	Ground, chassis, ECU.....	“ ”, page 115
YB	Ground, chassis, front/rear load.....	“ ”, page 116
YD	Ground, chassis, lower front.....	“ ”, page 117
YF	Ground, cab, FRC, BBEC.....	“ ”, page 118
YG	Ground, cab, instrument panel.....	“ ”, page 119
YG_RHD	Ground, cab, instrument panel, RHD.....	“ ”, page 120

YH	Ground, cab, instrument panel	“ ”, page 121
YH_RHD	Ground, cab, instrument panel, RHD	“ ”, page 122
YK	Ground, cab, front shelf	“ ”, page 123
YM	Ground, cab, lower bunk/floor	“ ”, page 124
YN	Ground, cab, firewall, cockpit carrier plate	“ ”, page 125

Component wiring diagrams



0

1

2

3

POWER DISTRIBUTION

CCIOM, CENTRAL CHASSIS IO MODULE

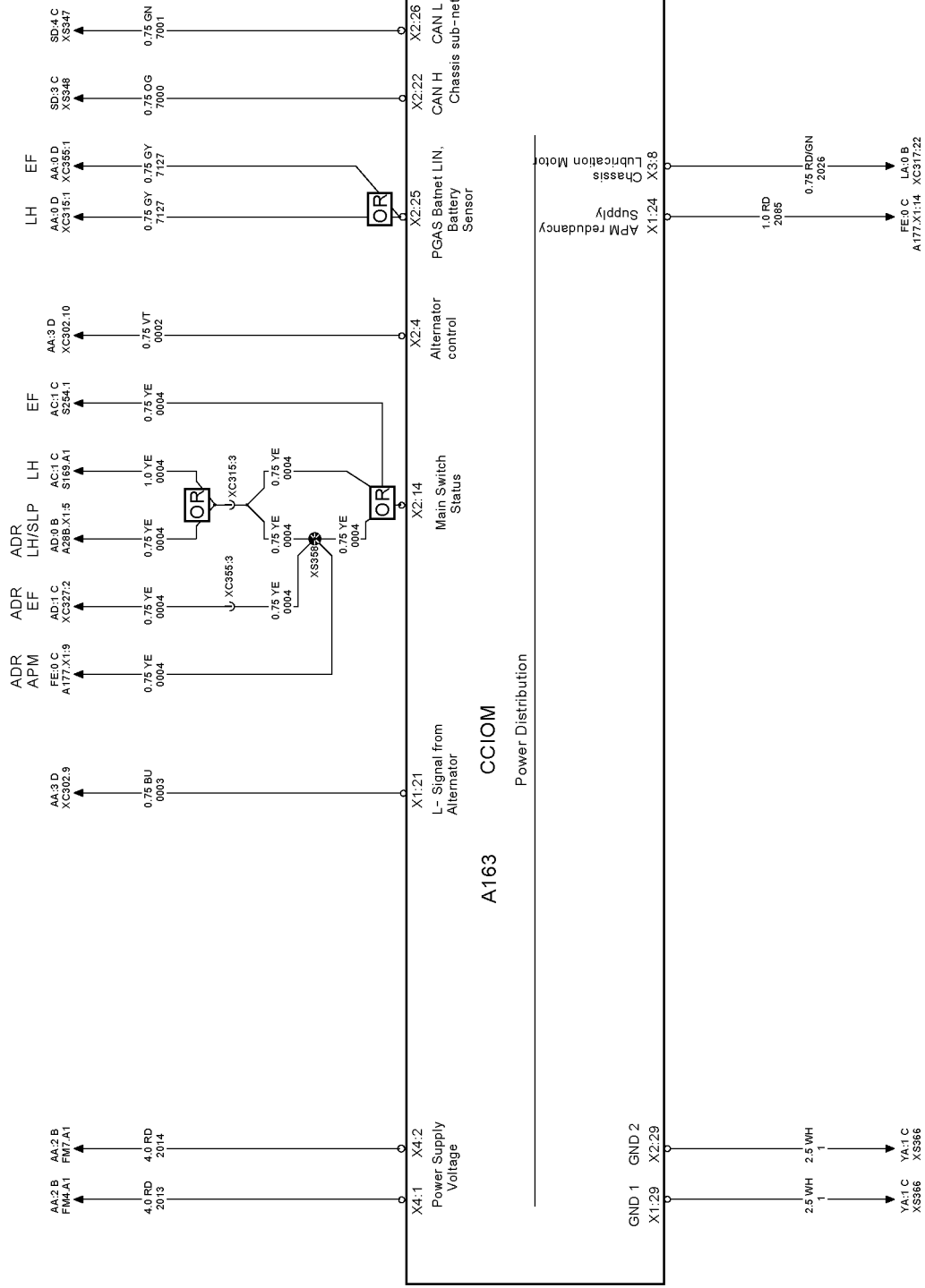
WIRING DIAGRAM AB

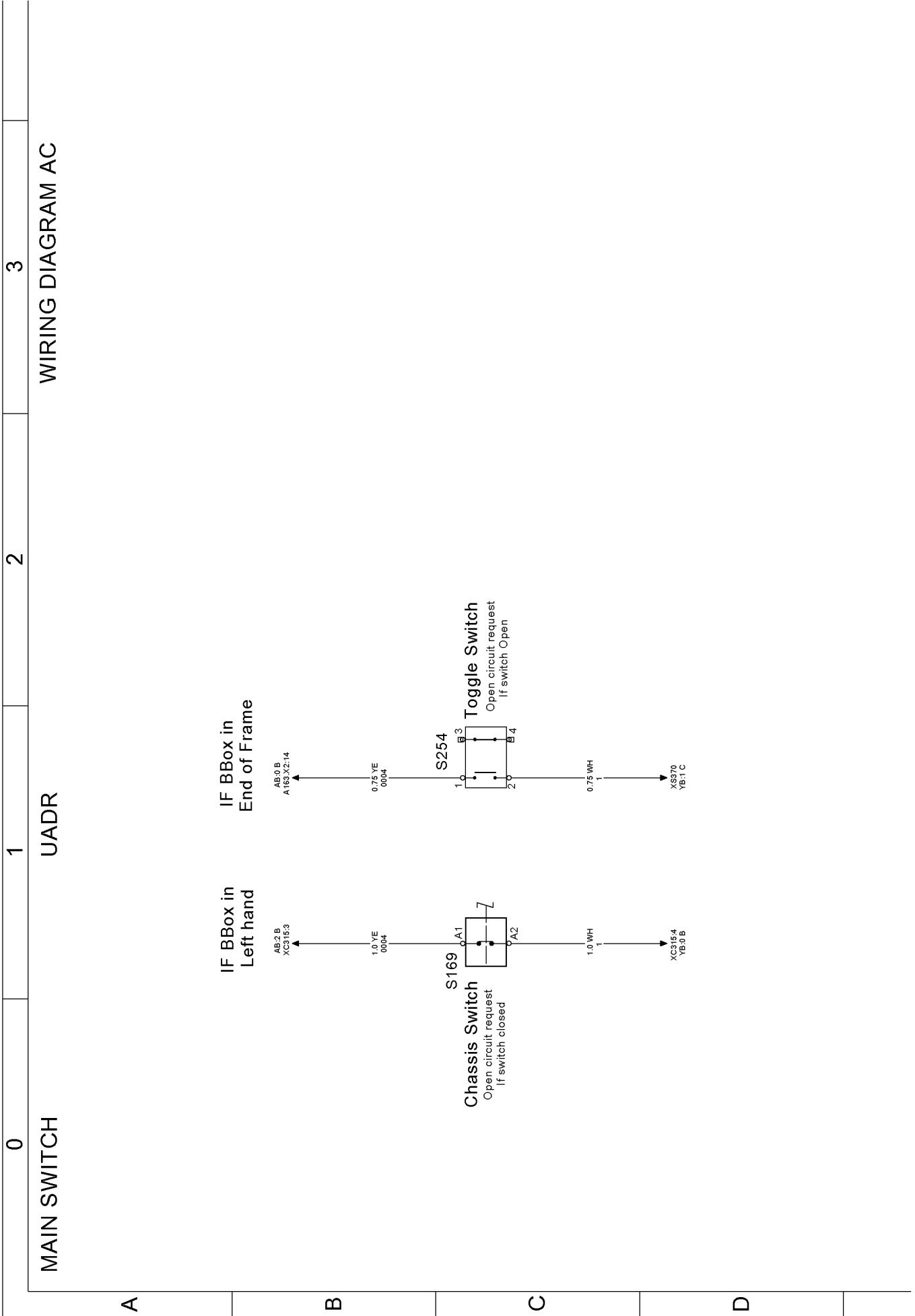
A

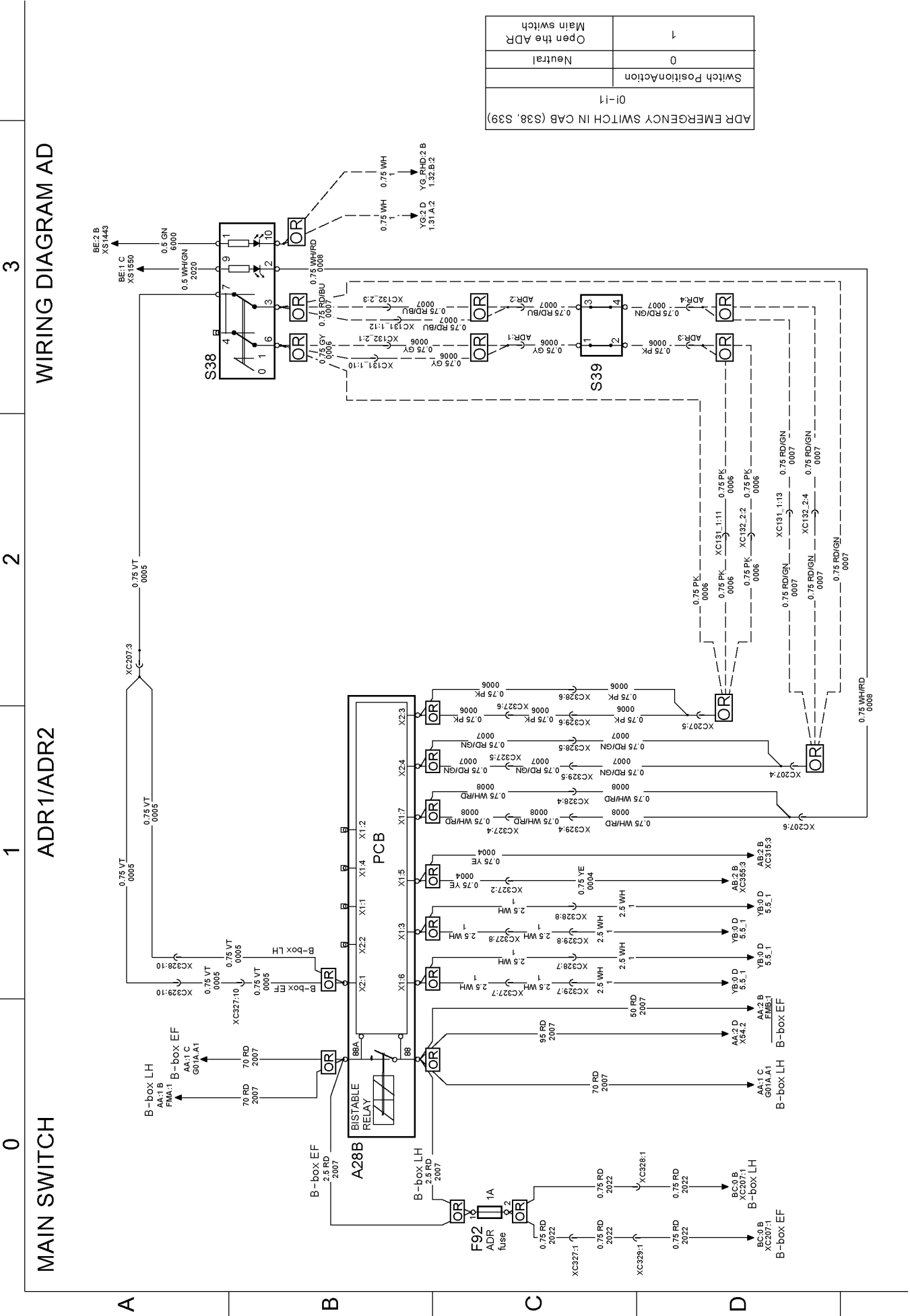
B

C

D







ADR EMERGENCY SWITCH IN CAB (S38, S39)	
Switch Position/Action	0 Neutral
	1 Open the ADR Main switch

WIRING DIAGRAM AD

ADR1/ADR2

MAIN SWITCH

3

2

1

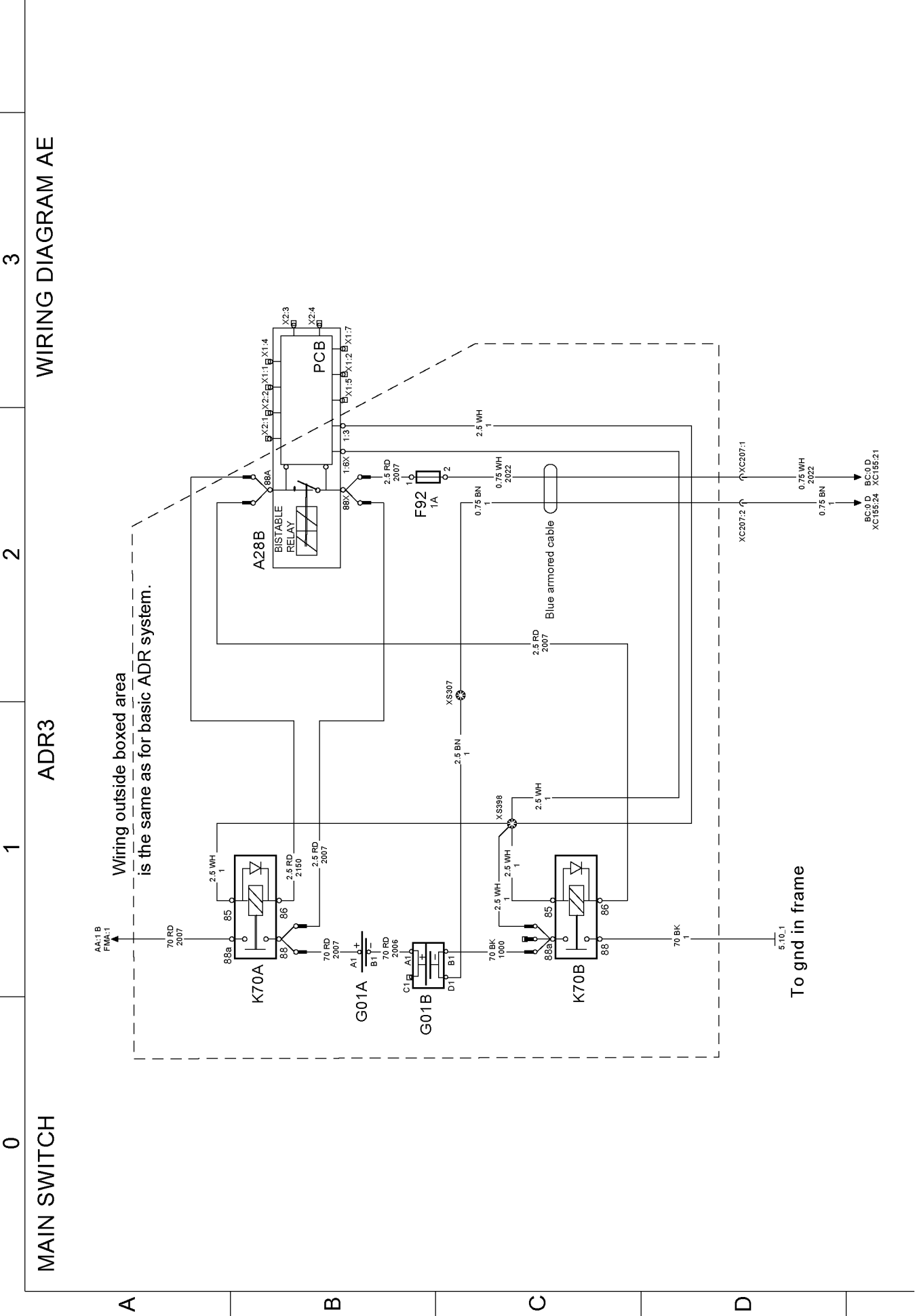
0

A

B

C

D



KEY SWITCH

WIRING DIAGRAM AF

3

2

1

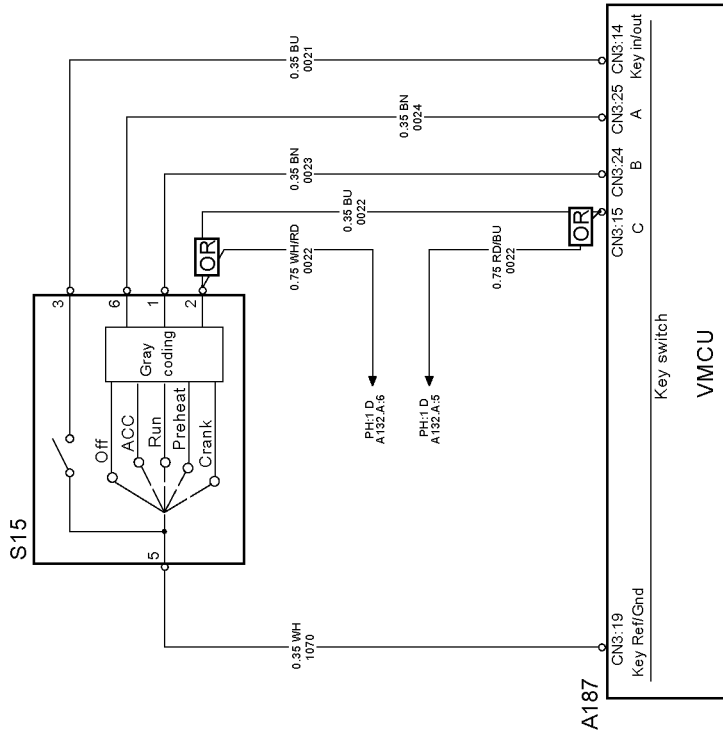
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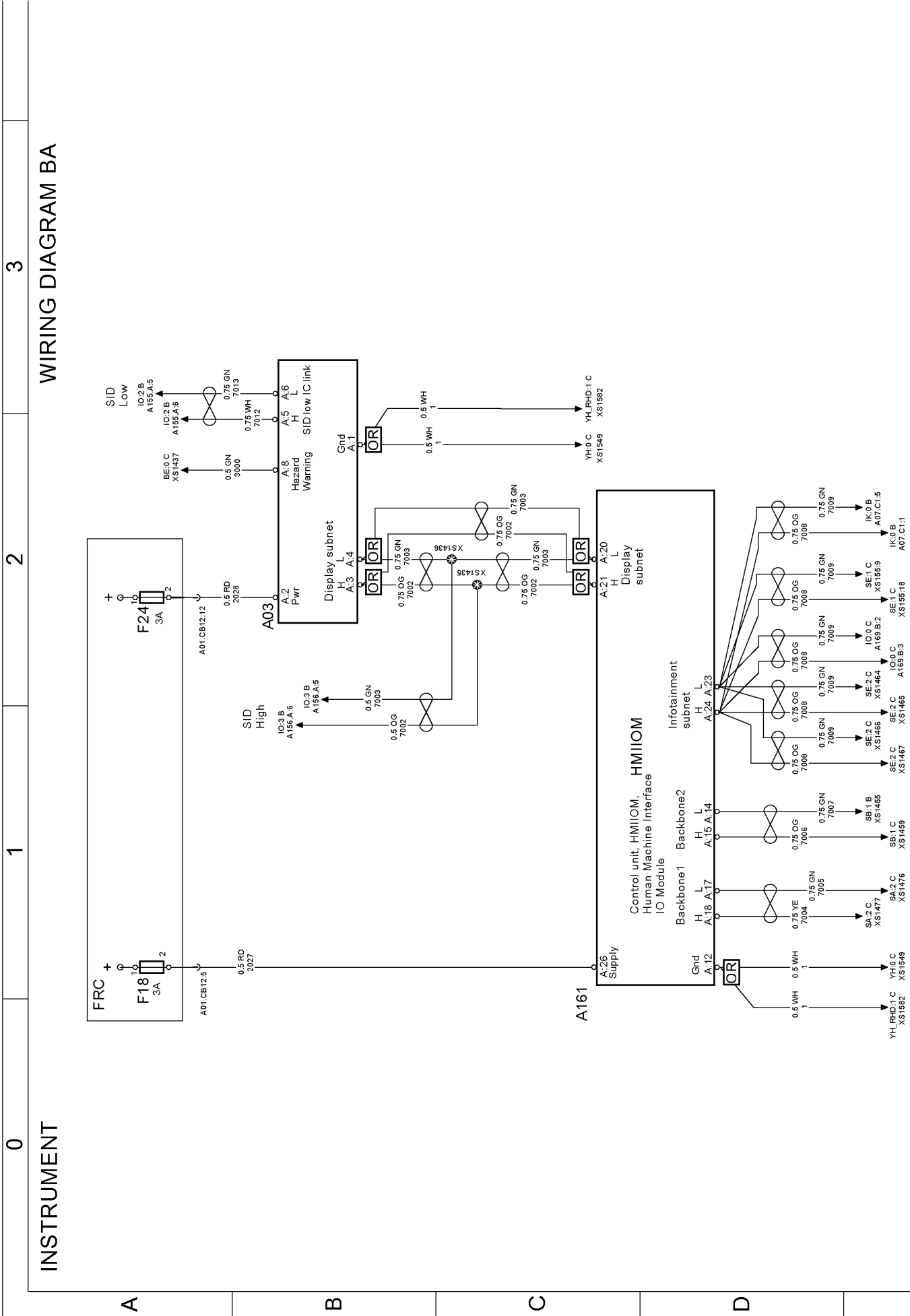
A

B

C

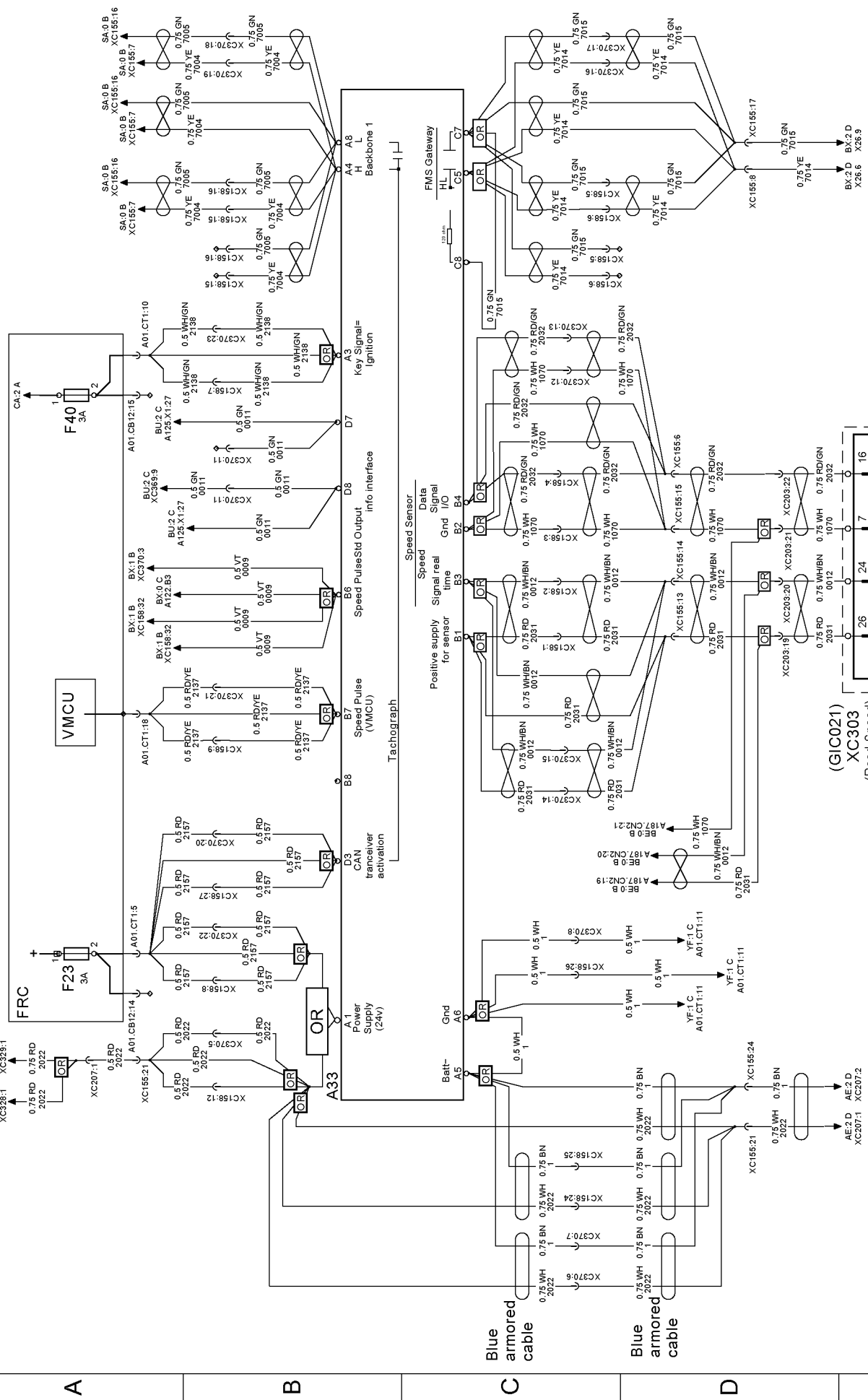
D



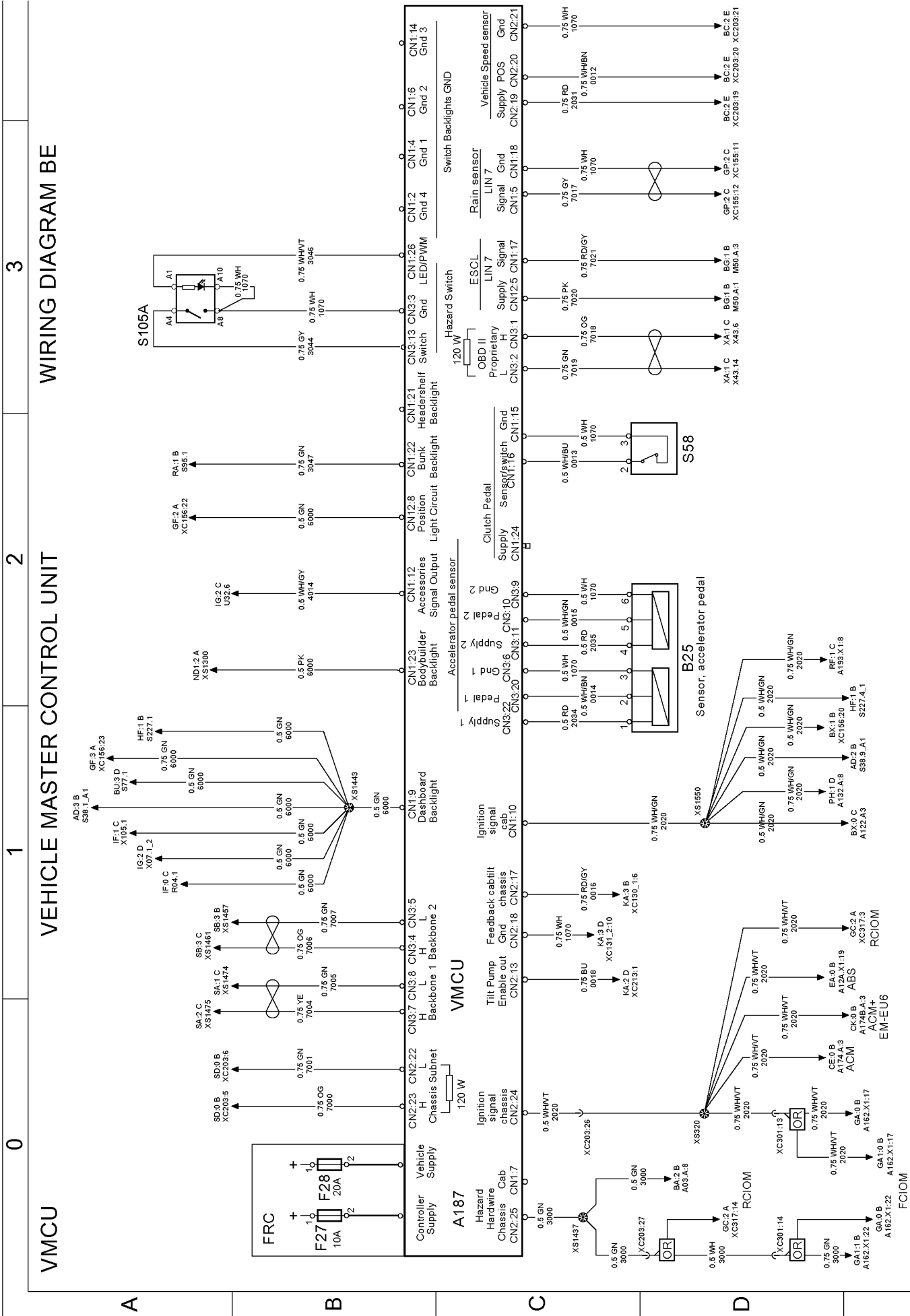


TACHOGRAPH

WIRING DIAGRAM BC



Transmission Interface To schematic DA, DC



VEHICLE MASTER CONTROL UNIT

WIRING DIAGRAM BE

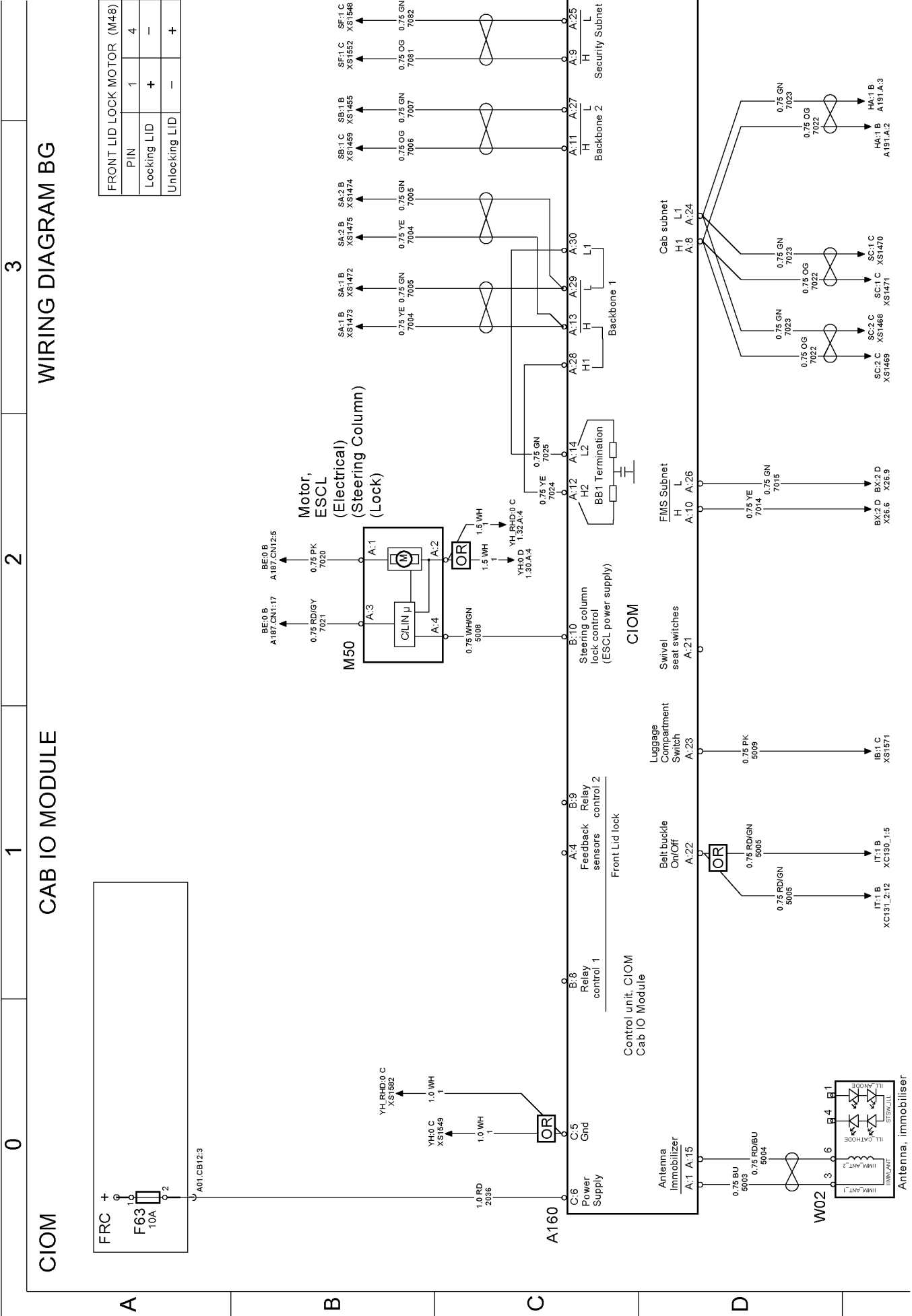
0 1 2 3

A

B

C

D



FRONT LID LOCK MOTOR (M48)

PIN	1	4
Locking LID	+	-
Unlocking LID	-	+

WIRING DIAGRAM BG

3

2

1

0

CAB IO MODULE

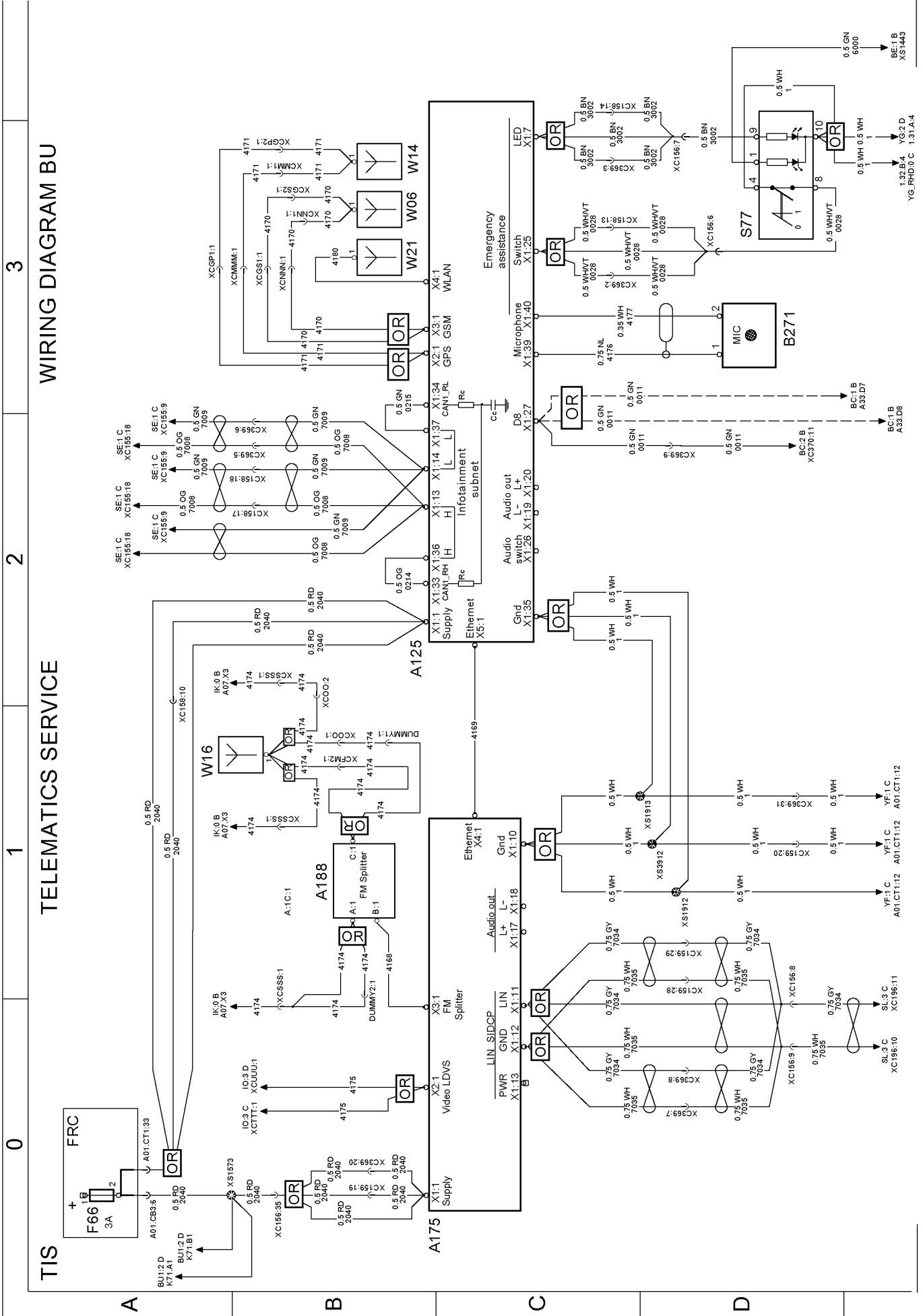
CIOM

A

B

C

D



TELEMATICS SERVICE BU

WIRING DIAGRAM BU

0

1

2

3

A

B

C

D

