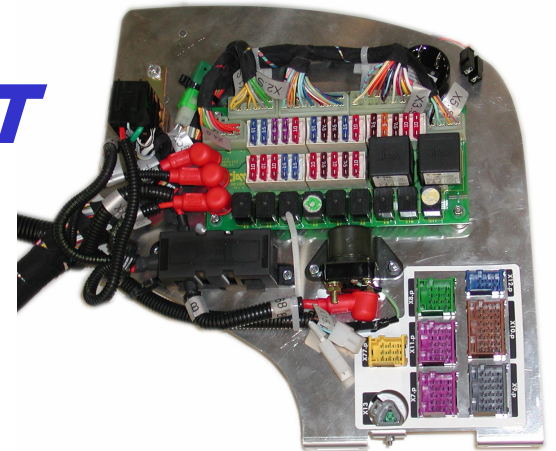


Electric System



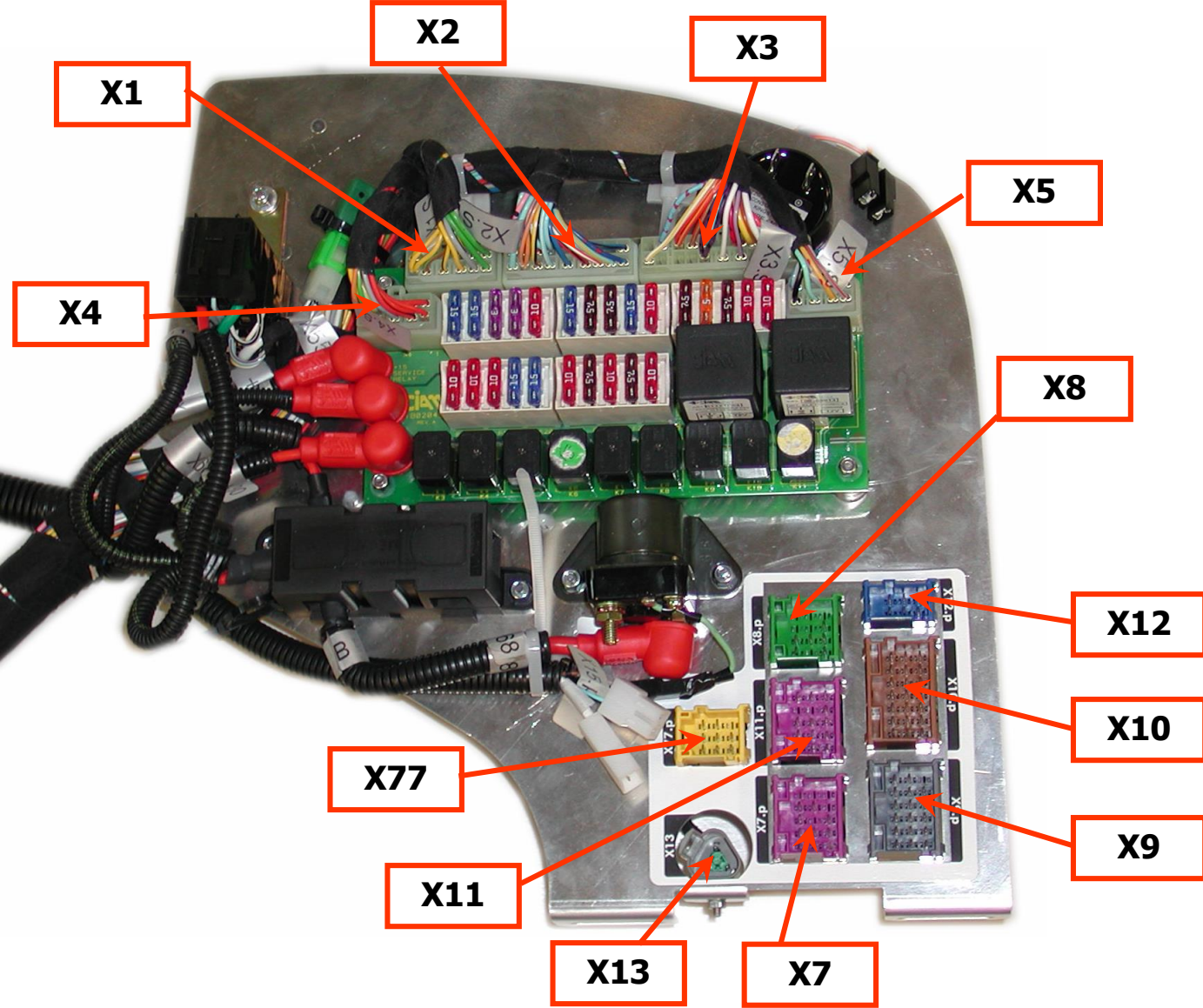
FRONT



REAR

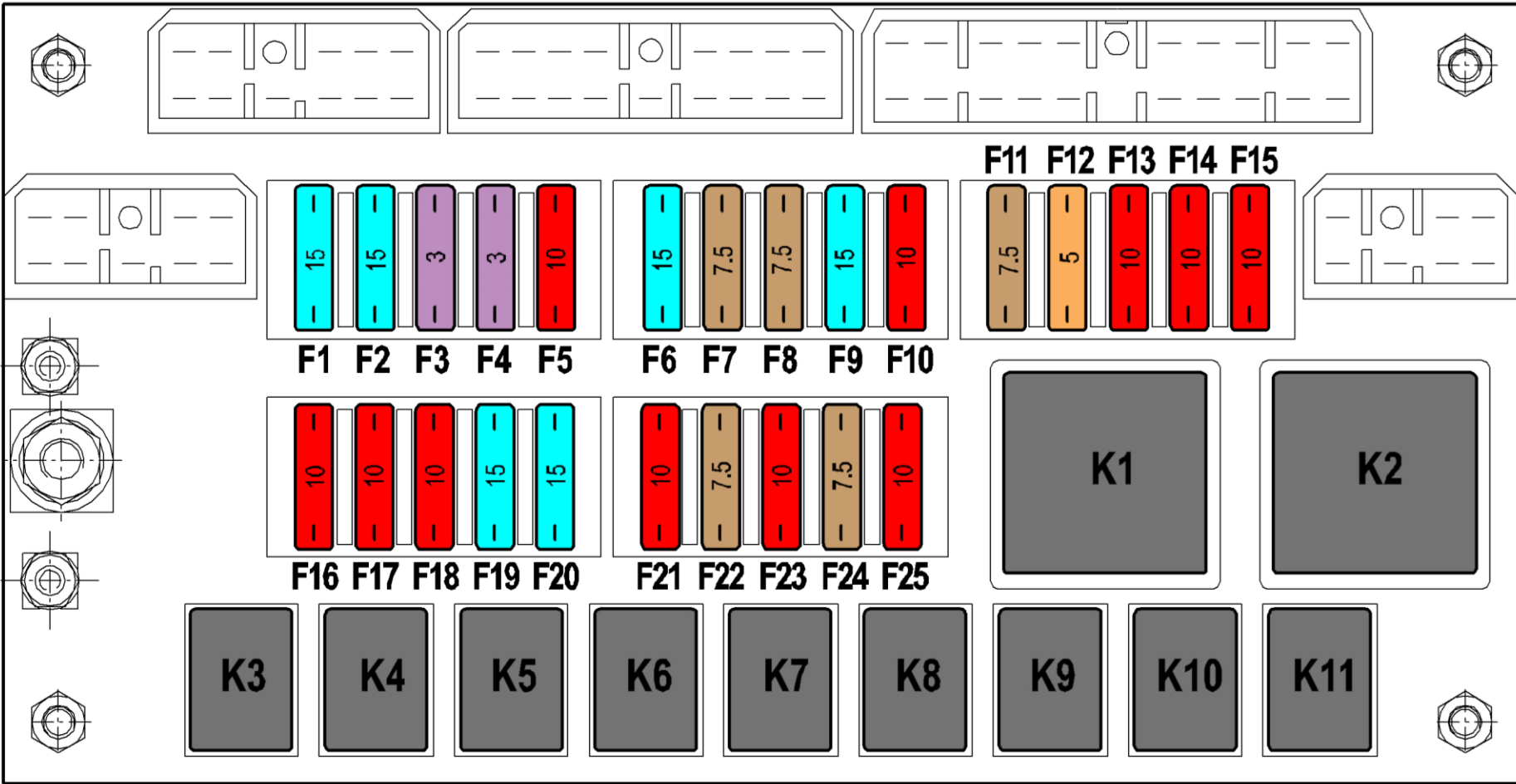


Electric System : Connectors Location

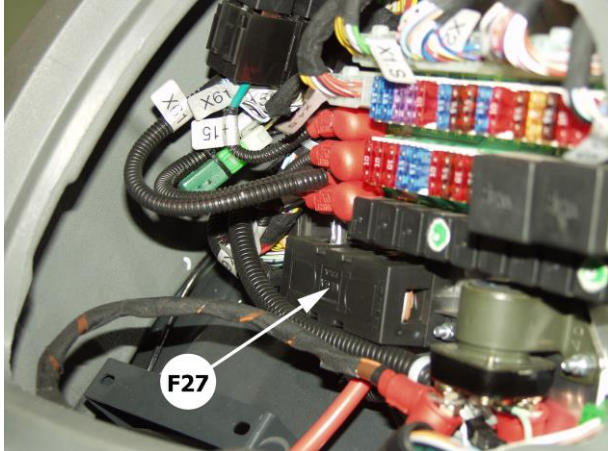
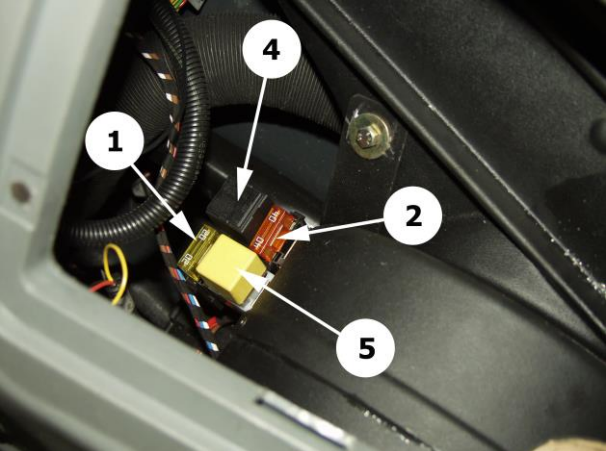
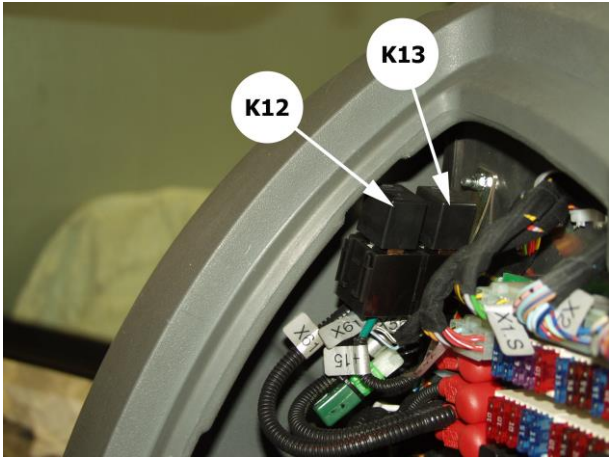
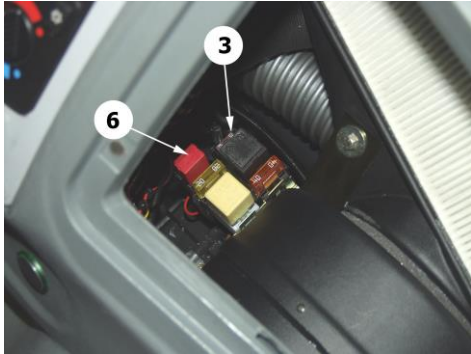
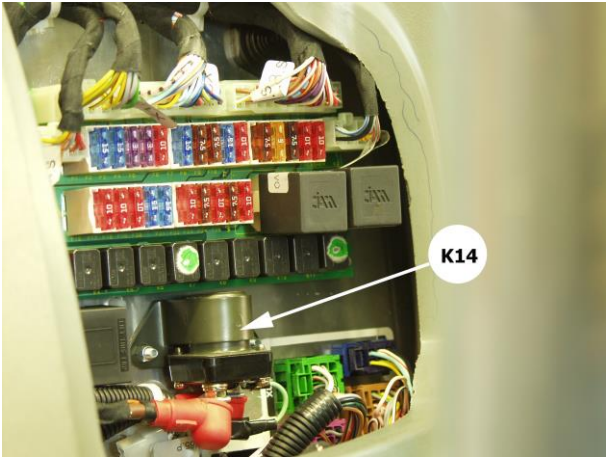


Customer Service Department

Electric System : Fuses and Relays Box (Layout 1)



Electric System : Fuses and Relays Box (Layout 2)



FUSES

POSITION	COLOUR	CAPACITY (A)	CIRCUIT INVOLVED
F1	Light blue	15	Central front work lights
F2	Light blue	15	Central rear work lights
F3	Violet	3	Front left and rear right parking light, parking light warning light, instrument backlighting
F4	Violet	3	Front right and rear left parking light, cigarette lighter light
F5	Red	10	Front horn
F6	Light blue	15	Lateral rear work lights
F7	Brown	7,5	Rear windshield wiper
F8	Brown	7,5	Stop lights, stop light relay
F9	Light blue	15	Lateral front work lights
F10	Red	10	Front windshield wiper, windshield washer pump
F11	Brown	7,5	Boom locking solenoid valve, plate locking solenoid valve
F12	Orange	5	Buzzer power supply, general alarm power supply, instrument and front dashboard warning light power supply
F13	Red	10	Optional equipment power supply, differential locking solenoid valve, 4 WD solenoid valve

FUSES

F14	Red	10	Blinking, high beam relay, low beam relay, horn relay, rear horn, safety valve solenoid valves
F15	Red	10	Electric stop power supply, ancillary functions relay, air conditioner relay
F16	Red	10	Revolving light power supply
F17	Red	10	Hour counter memory, hazard warning light
F18	Red	10	Cigarette lighter power supply, overhead light
F19	Light blue	15	Left low beam, right low beam
F20	Light blue	15	Left high beam, right high beam
F21	Red	10	Return-to-dig sensor power supply, ride control solenoid valve, loader arm floating device solenoid valve, return-to-dig solenoid valve, direction indicator
F22	Brown	7,5	Loader control locking solenoid valve, EC power solenoid valve, PPC power supply
F23	Red	10	Optional steering fuse
F24	Brown	7,5	Direction indicator power supply
F25	Red	10	Declutch relay, forward gear solenoid valve, reverse gear solenoid valve, back-up alarm
F27	-	175	General system fuse, ignition key, start relay, pre-heating consent, heating power supply

RELAYS

POSITION	DESCRIPTION
K1	Safety unit (against repeated start)
K2	Blinking
K3	Low beam relay
K4	High beam relay
K5	Front horn relay
K6	Return-to-dig relay
K7	Stop light relay
K8	Start enabling relay
K9	Forward gear relay
K10	Reverse relay
K11	Direction indicator power supply relay (declutch)
K12	Machine functions relay
K13	Start relay
K14	Glow plug preheating relay
K15	Multifunction unit

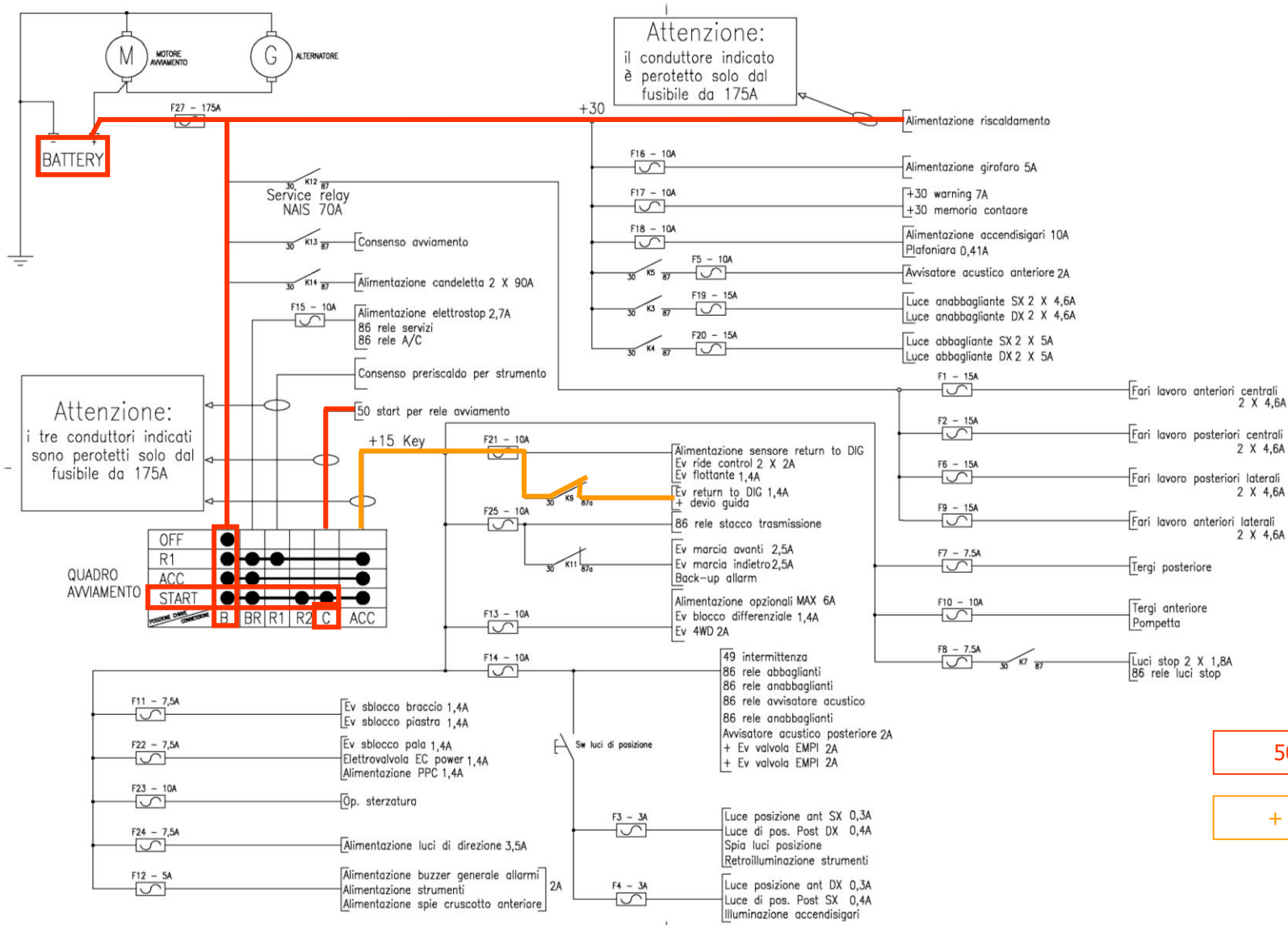
FUSES

POSITION	COLOUR	CAPACITY (A)	CIRCUIT INVOLVED
1	Yellow	20	1 st and 2 nd fan speed power supply
2	Orange	40	3 rd fan speed power supply
3	Brown	7,5	Air conditioning compressor

RELAYS

POSITION	DESCRIPTION
4	3 rd fan speed relay
5	General heating relay
6	Air conditioning compressor relay

Electric System : Supply Line

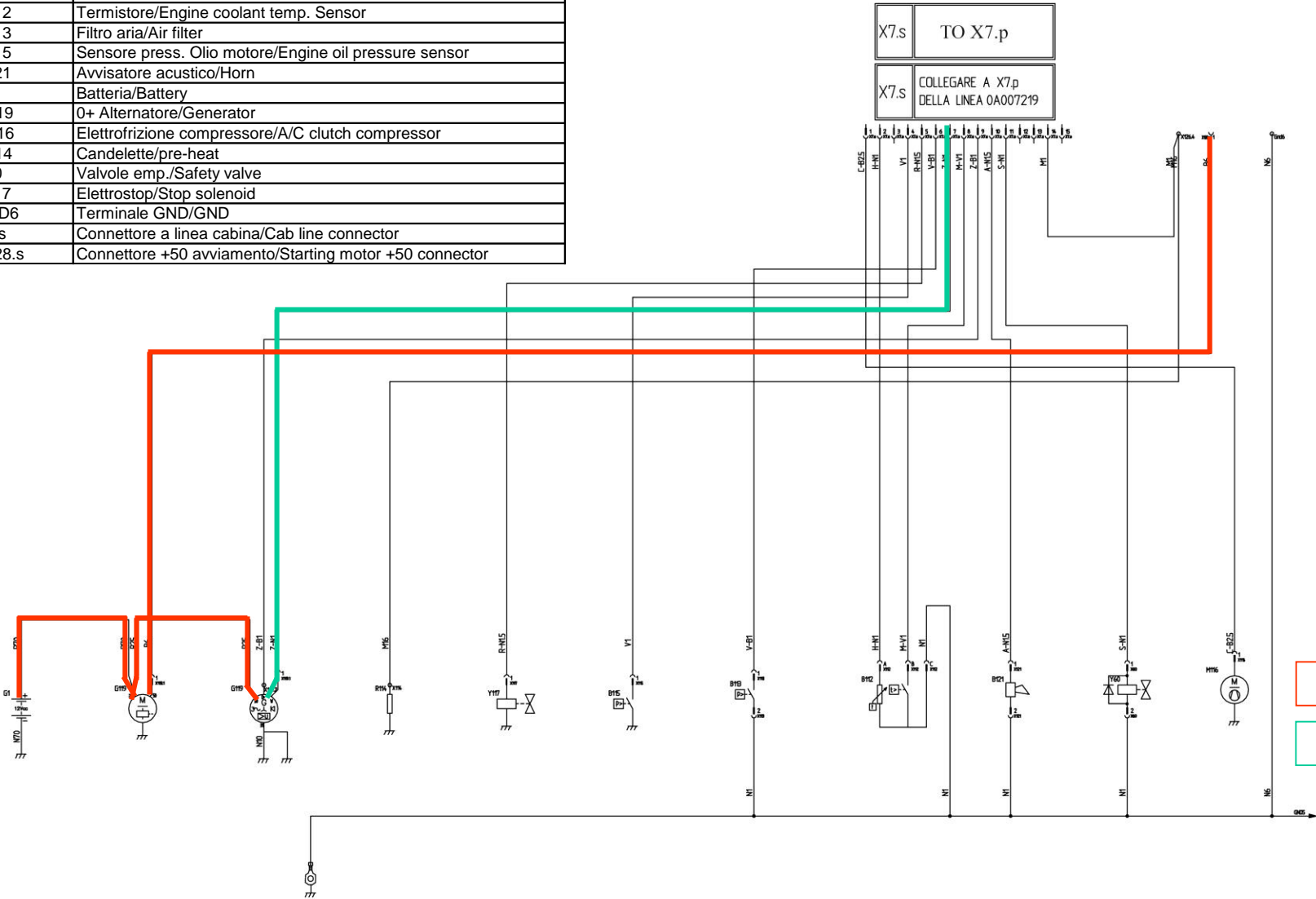


50 Key

+ Devio

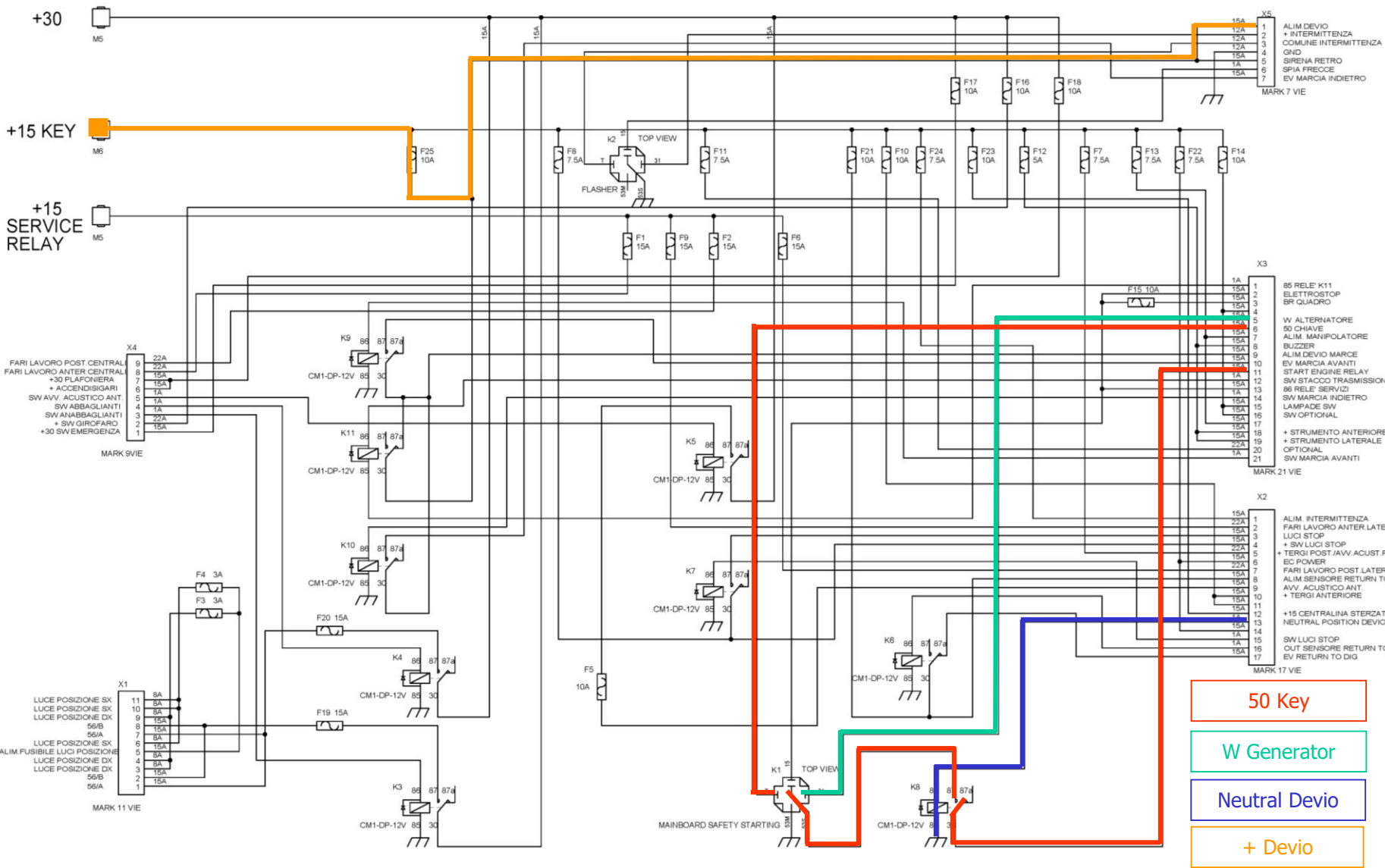
Electric System : Engine Line

Nome/Item	Descrizione/Description
B112	Termistore/Engine coolant temp. Sensor
B113	Filtro aria/Air filter
B115	Sensore press. Olio motore/Engine oil pressure sensor
B121	Avvisatore acustico/Horn
G1	Batteria/Battery
G119	0+ Alternatore/Generator
M116	Elettrofrizione compressore/A/C clutch compressor
R114	Candele/Pre-heat
Y60	Valvole emp./Safety valve
Y117	Elettrostop/Stop solenoid
GND6	Terminale GND/GND
X7.s	Connettore a linea cabina/Cab line connector
X128.s	Connettore +50 avviamento/Starting motor +50 connector



+50 Key
W Generator

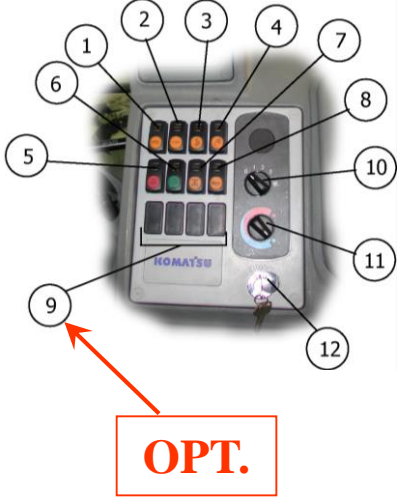
Electric System : Relays Line



- 50 Key
- W Generator
- Neutral Devio
- + Devio

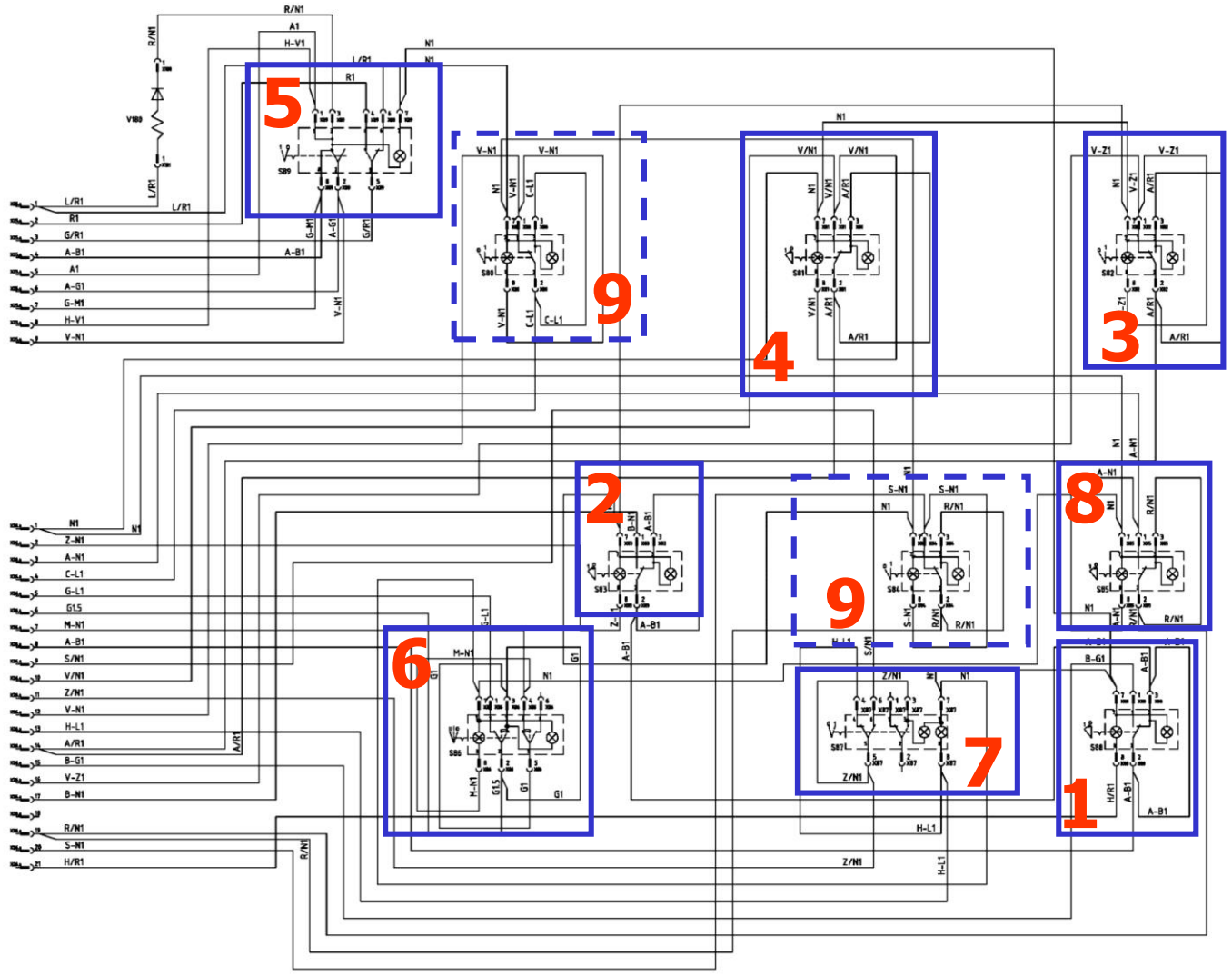
Electric System : Line Switch Lateral Dashboard

Item	Description
S80	Ride control switch
S81	Backhoe boom lock switch
S82	Backhoe sliding lock switch
S83	Backhoe speed control switch
S84	Block-Valve switch
S85	Rear acoustic alarm
S86	Light switch
S87	Four-wheel drive switch
S88	PPC control switch
S89	Emergency switch



COLLEGARE A X25.p DELLA LINEA/A007219

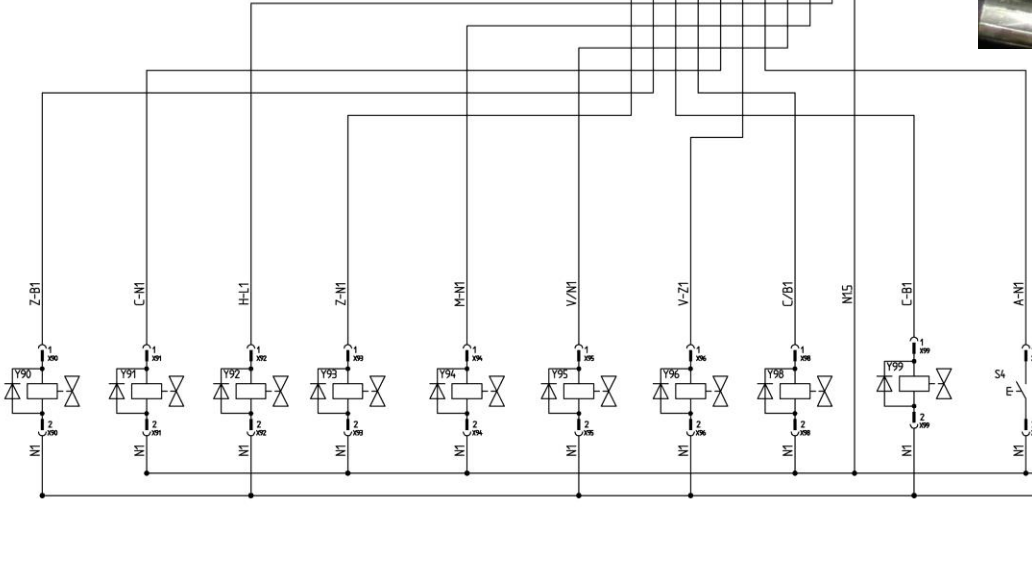
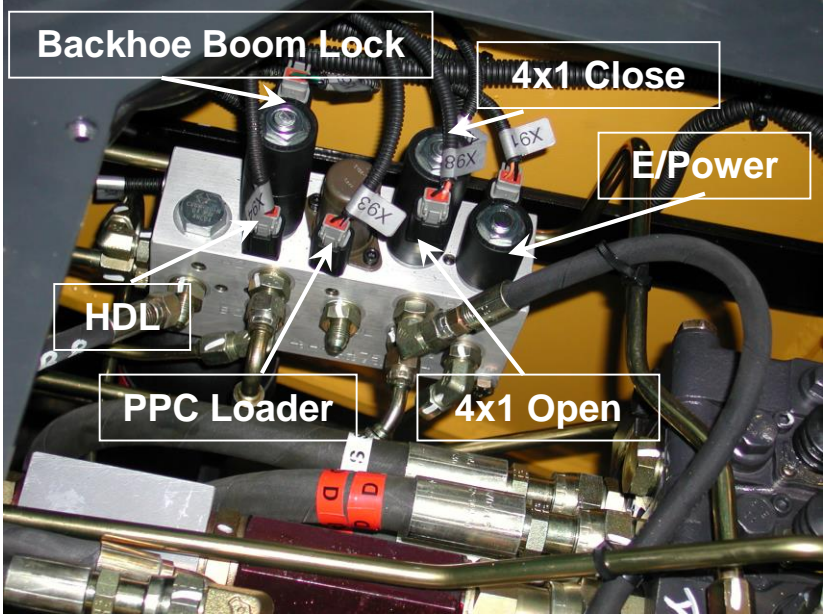
COLLEGARE A X26.p DELLA LINEA/A007219



Electric System : Solenoid Block Valve Line

X11s	TO X11.p
X11s	COLLEGARE A X11.p SU LINEA OA007219

- Z-M1
- Z-B1
- C-B1
- C-B1
- V-Z1
- A-M1
- V-M1
- H-M1
- H-L1
- N15

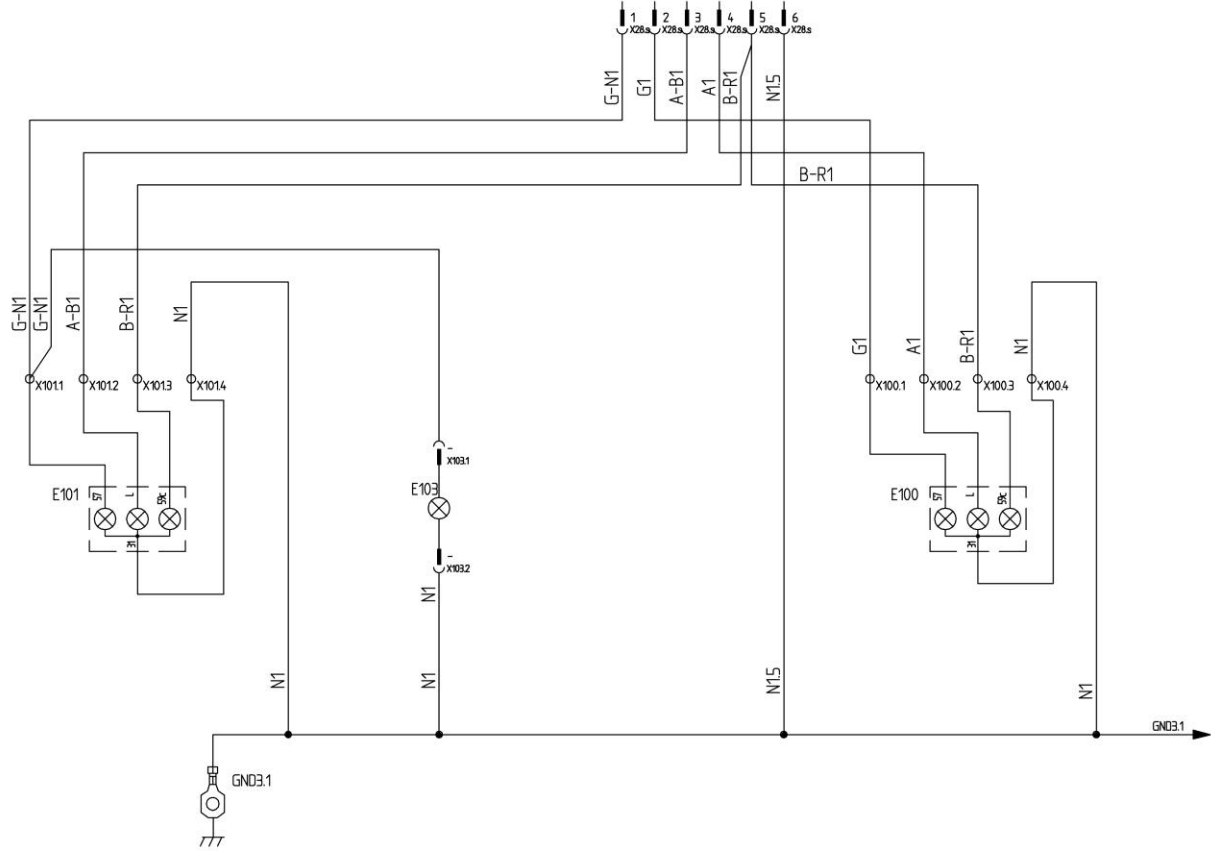


Nome/Item	Descrizione/Description
S4	Pulsante instabile/Horn
Y90	Ev PPC retro/Rear ppc solenoid valve
Y91	EV ecopower/Ecopower solenoid valve
Y92	Back-up-allarm/Back-up alarm
Y93	Ev PPC/PPC solenoid valve
Y94	Ev blocco differenziale/Differential lock
Y95	Ev sblocco braccio/Boom safety lock solenoid valve
Y96	Ev sblocco piastra/Sliding plate solenoid valve
Y98	Ev chiusura benna/4/1 bucket close solenoid valve
Y99	Ev apertura benna/4/1 bucket open solenoid valve

Electric System : Rear Light Line

Nome/Item	Descrizione/Description
E100	Massa fanale post. DX/R.R. head light GND
E101	Massa fanale post. SX/R.L. head light GND
E103	Massa luce targa/License plate light GND
GND 3.1	Occhiello C6 massa/C6 GND

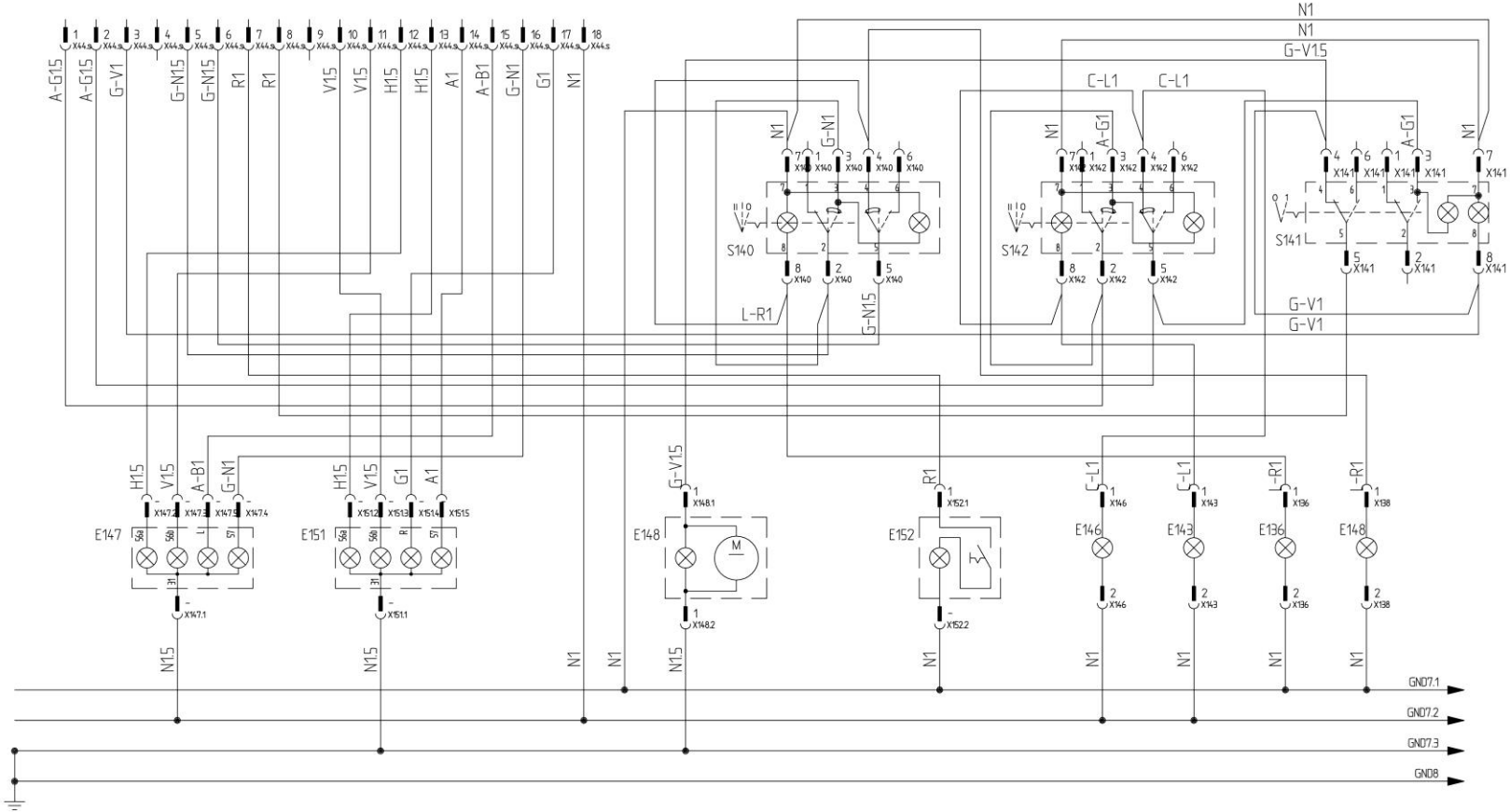
X12.p	TO X12.s
X12.p	COLLEGARE A X12.s DELLA LINEA 0A007219



Electric System : Roof Cabin Line

X44.S	TO X44.p
X44.S	COLLEGARE A X44.p DELLA LINEA 0A007219

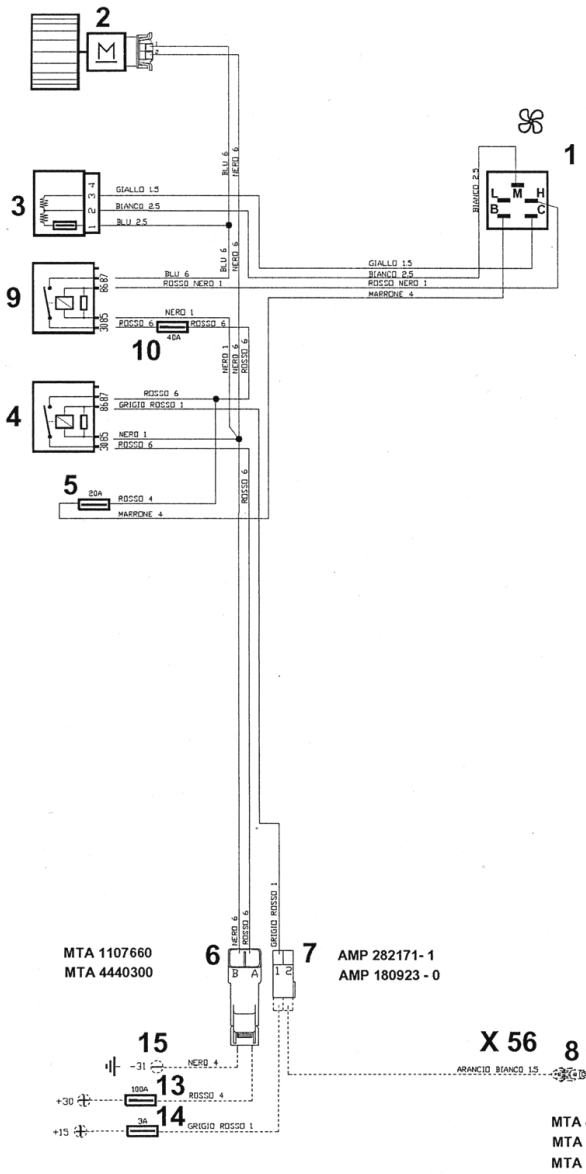
Nome/Item	Descrizione/Description
E136	Faro lavoro post.DX/Work light R.R.
E143	Faro lavoro ant.DX/Work light F.R.
E146	Faro lavoro ant.SX/Work light F.L.
E147	Faro ant. SX/Left head light
E148	Preso girofaro/Beacon lamp connector
E149	Faro lavoro post.SX/Work light R.L.
E151	Faro ant. DX/Right head light
E152	Plafoniera/Roof light
S140	Interruttore fari lavoro post./Rear work light switch
S141	Interruttore girofaro/Beacon lamp switch
S142	Interruttore fari lavoro ant./Front work lighth switch
X44.s	Connettore a linea posto guida/Cab line connector



Customer Service Department

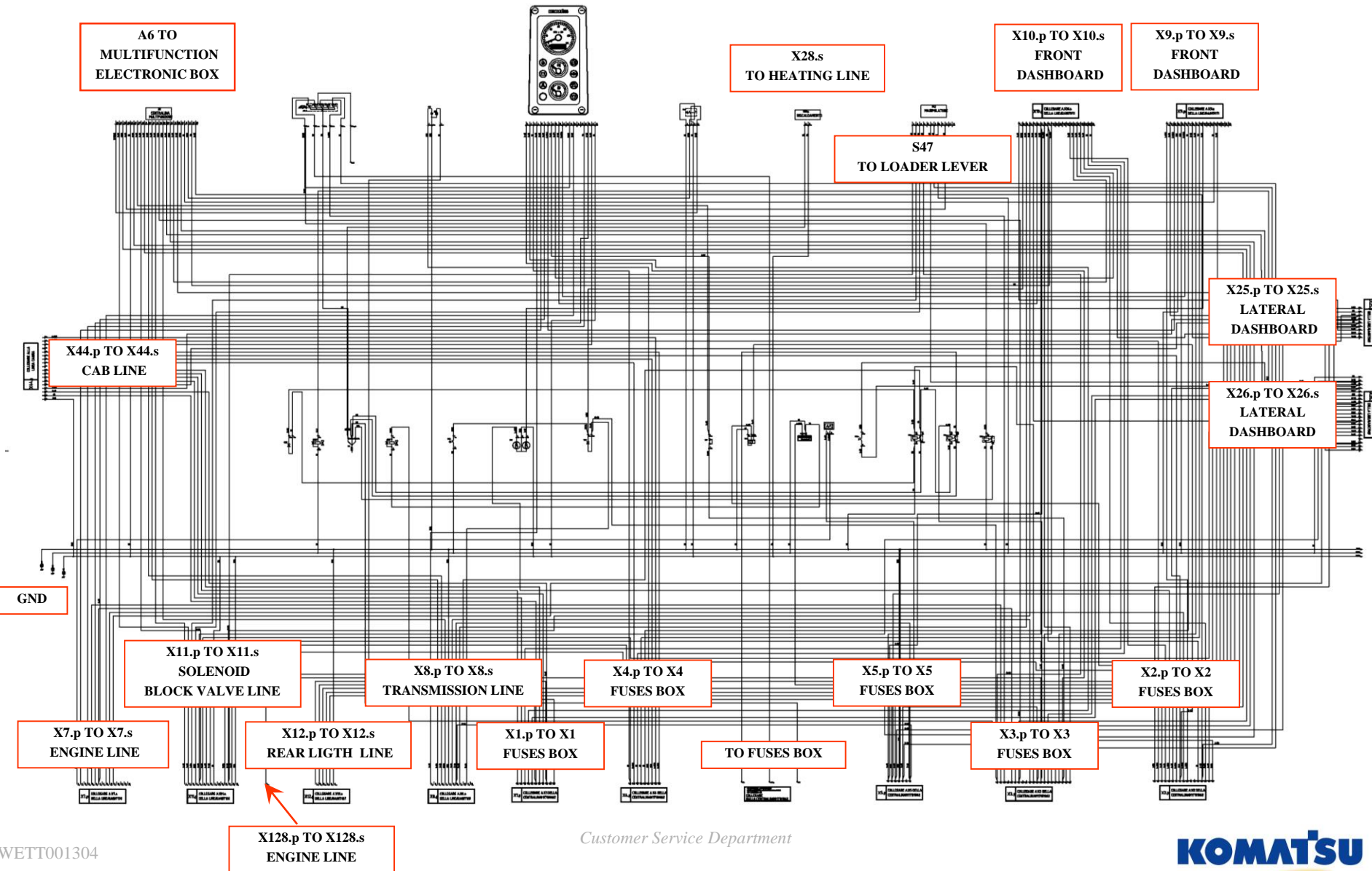


Electric System : Heating Wiring Diagram

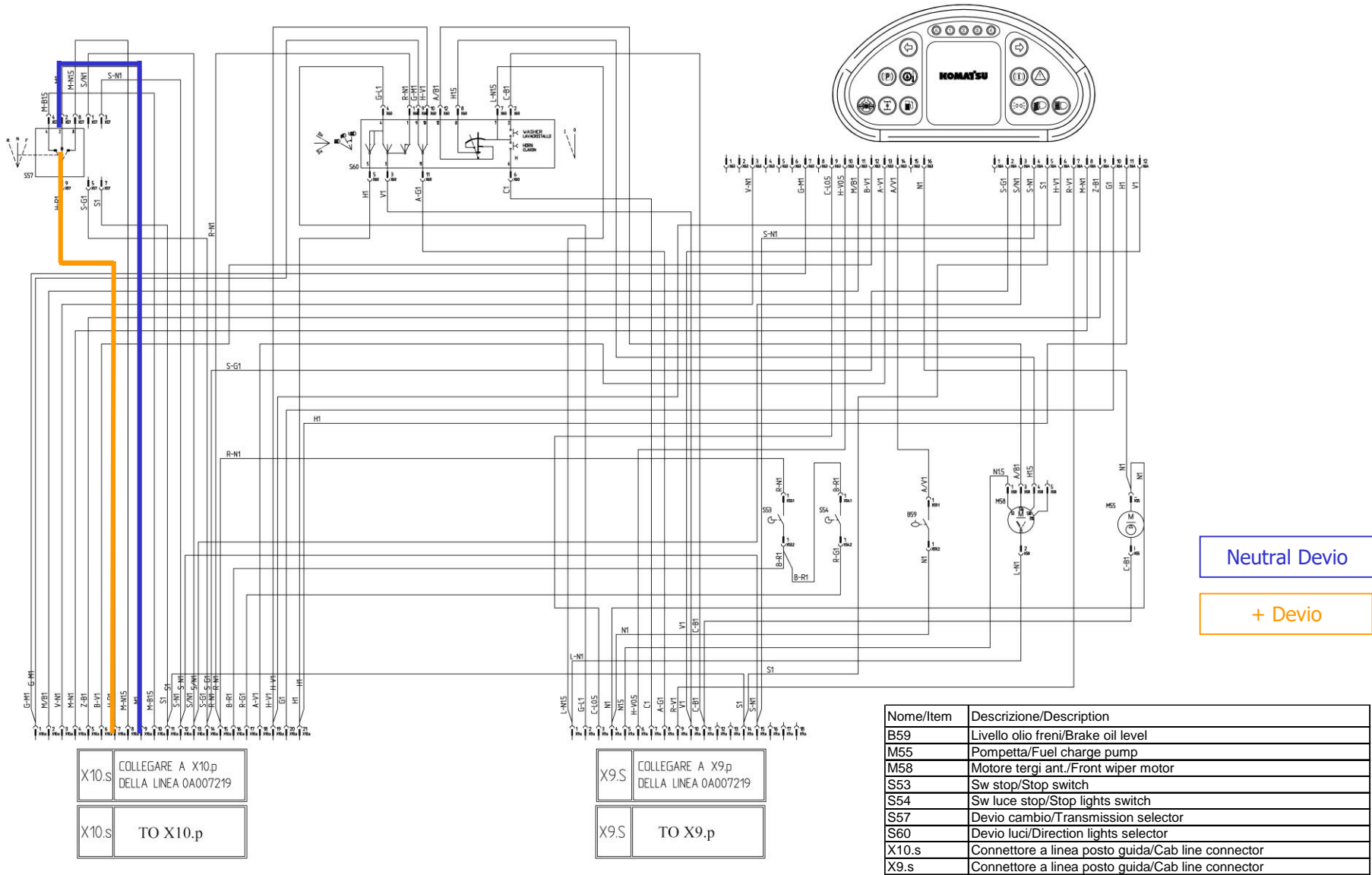


Pos.	DESCRIZIONE	DESCRIPTION
1	SELETTORE VENTILAZIONE	SELECTOR FAN
2	VENTILATORE	FAN
3	RESISTORE	RESISTOR
4	RELE 12V 40A	RELAY 12V 40A
5	FUSIBILE 20A	FUSE 20A
6	CONNETTORE 2 VIE MAXI	CONNECTOR 2 WAY
7	CONNETTORE 2 VIE	CONNECTOR 2 WAY MAXI
8	PREDISPOSIZIONE	PREDISPOSITION
9	RELE 12V 50A	RELAY 12V 50A
10	FUSIBILE 40A MAXI	FUSE 40A MAXI

Electric System : Lateral Dashboard (WB93R-5)



Electric System : Front Dashboard (WB93R-5)



Neutral Devio

+ Devio

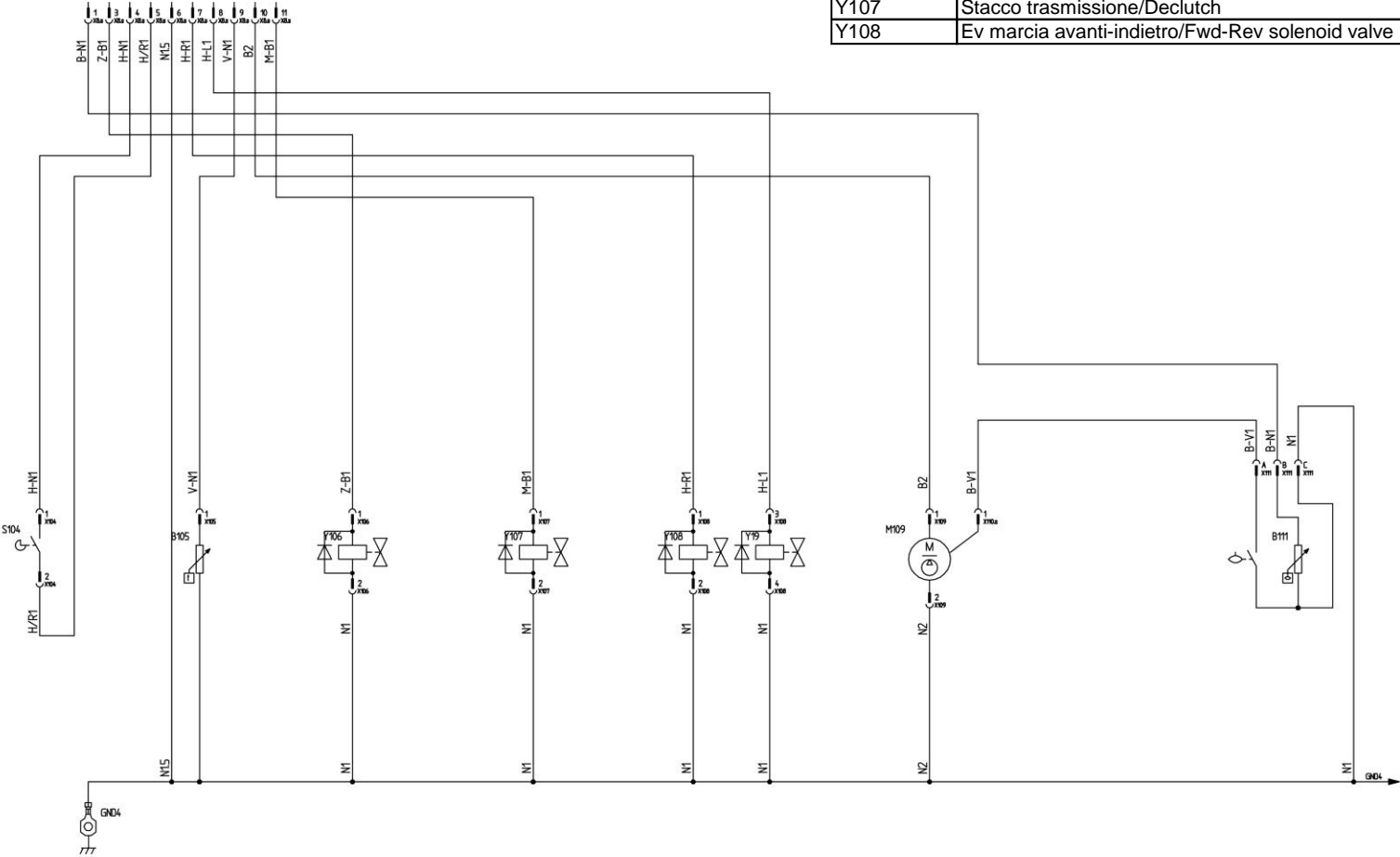
Nome/Item	Descrizione/Description
B59	Livello olio freni/Brake oil level
M55	Pompetta/Fuel charge pump
M58	Motore tergi ant./Front wiper motor
S53	Sw stop/Stop switch
S54	Sw luce stop/Stop lights switch
S57	Devio cambio/Transmission selector
S60	Devio luci/Direction lights selector
X10.s	Connettore a linea posto guida/Cab line connector
X9.s	Connettore a linea posto guida/Cab line connector

Electric System : Transmission Line (WB93R-5)

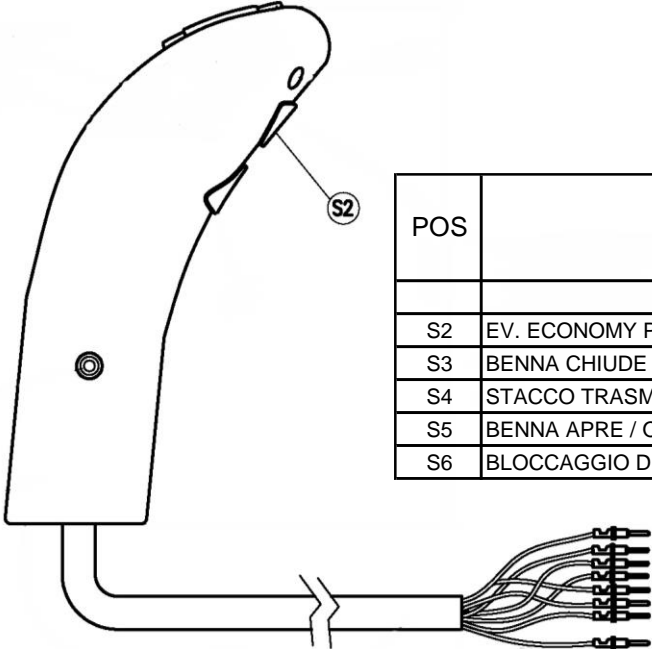
X8.s TO X8.p

X8.s COLLEGARE A X8.p DELLA LINEA 0A007219

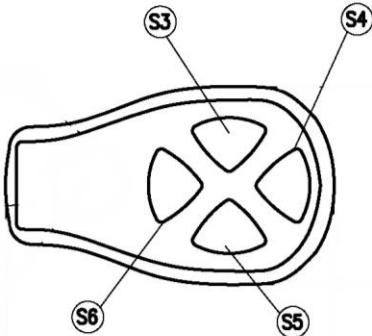
Nome/Item	Descrizione/Description
B105	Sensore temp. Olio trasm./Transmission oil temp. Sensor
B111	Galleggiante livello carburante/Fuel level sensor
GND4	Occhiello C6 massa/Ground
M109	Pompa travaso nafta/Fuel refill tank
S104	Sw 4° marcia/4th speed switch
Y19	Elettrovalvola/Solenoid valve
Y106	Ev 4WS/4ws solenoid valve
Y107	Stacco trasmissione/Declutch
Y108	Ev marcia avanti-indietro/Fwd-Rev solenoid valve



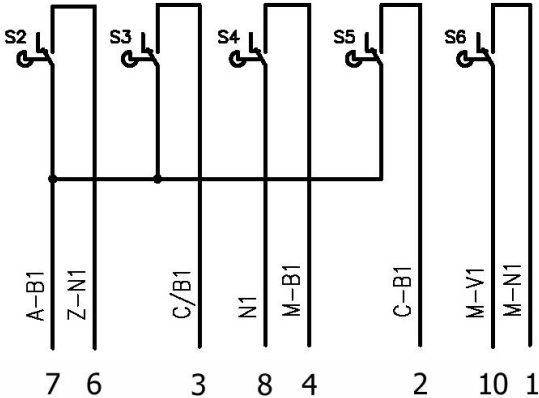
Electric System : Front Loader Lever (WB93R-5)



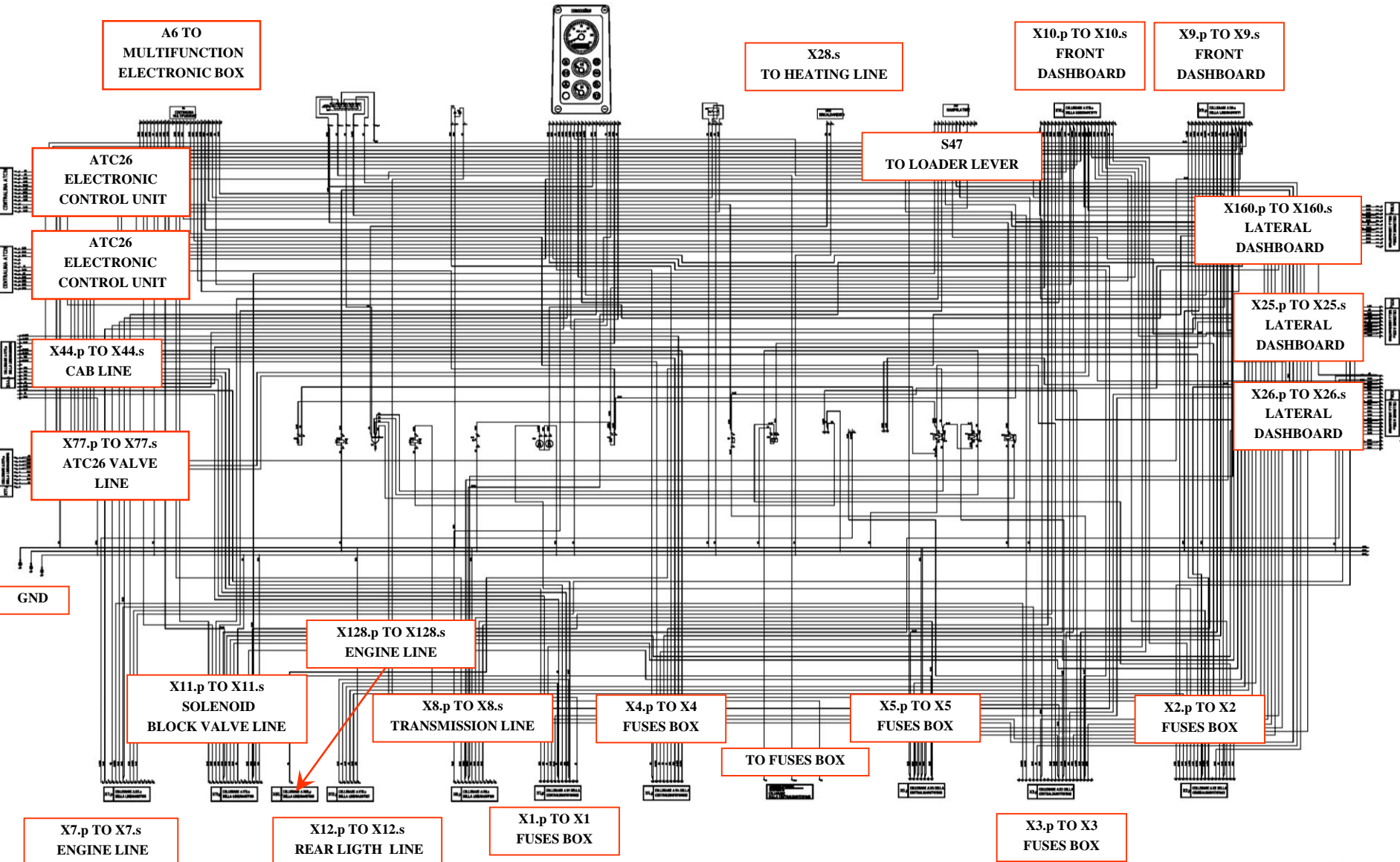
POS	DESCRIZIONE/DESCRIPTION	FILO COMUNE -- COM. WIRE	FILO CONT. N.A. -- N.O. CONTACT WIRE	FILO CONT. N.C. -- N.C. CONTACT WIRE
S2	EV. ECONOMY POWER	C - L1	Z - N1	
S3	BENNA CHIUDE / CLOSED GRAB	C - L1	C / B1	
S4	STACCO TRASMISSIONE / TRANSMISSION DETACHMENT	N1	M - B1	
S5	BENNA APRE / OPENED GRAB	C - L1	C - B1	
S6	BLOCCAGGIO DIFFERENZIALE / DIFFERENTIAL LOCK	M - V1	M - N1	



CONNECTOR POSITION



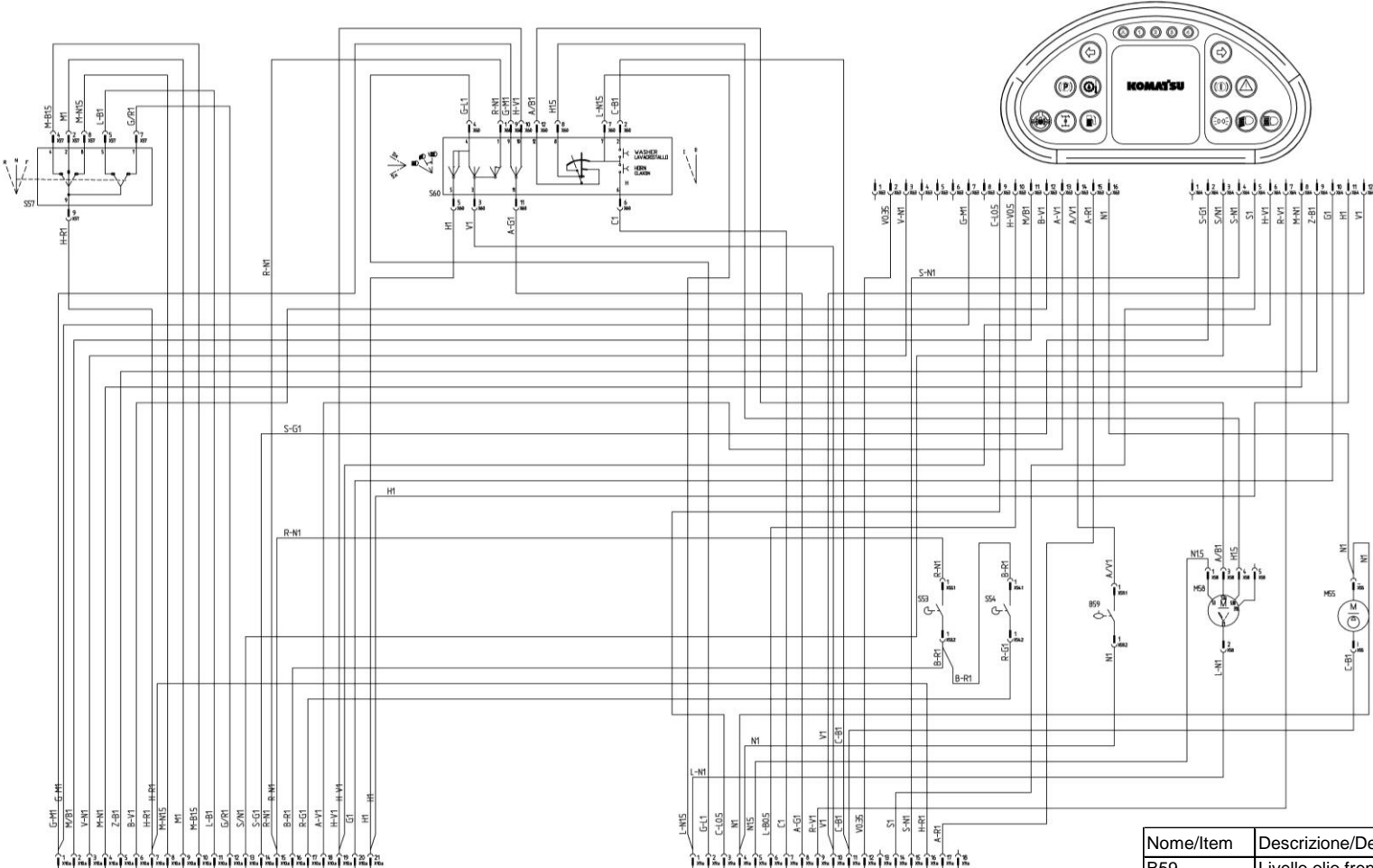
Electric System : Lateral Dashboard (WB97R-5)



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Electric System : Front Dashboard ATC 26 (WB97R-5)



X10.s COLLEGARE A X10.p DELLA LINEA 0A007219

X10.s TO X10.p

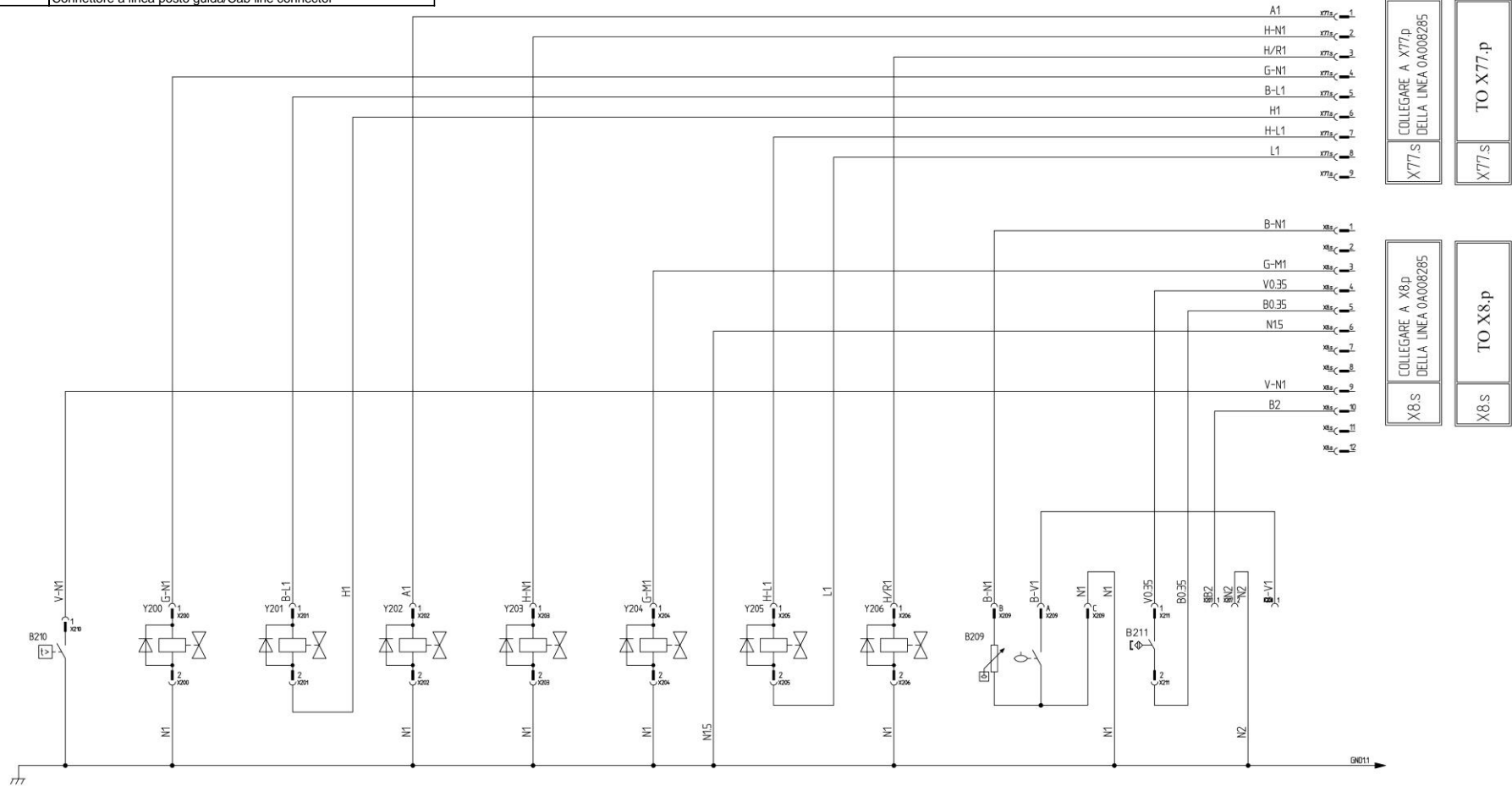
X9.S COLLEGARE A X9.p DELLA LINEA 0A007219

X9.S TO X9.p

Nome/Item	Descrizione/Description
B59	Livello olio freni/Brake oil level
M55	Pompetta/Fuel charge pump
M58	Motore tergi ant./Front wiper motor
S53	Sw stop/Stop switch
S54	Sw luce stop/Stop switch light
S57	Devio cambio/transmission selector
S60	Devio luci/Direction lights selector

Electric System : Transmission Line ATC 26 (WB97R-5)

Nome/Item	Descrizione/Description
B209	Galleggiante/Fuel level sensor
B210	Temp. Olio trasmissione/Transmission oil temp. Sensor
B211	Sensore cardano/Transmission speed sensor
Y200	Ev 4° marcia/4th speed solenoid valve
Y201	Ev marcia avanti/Forward solenoid valve
Y202	Ev 1° velocità/1st speed solenoid valve
Y203	Ev 2° marcia/2nd speed solenoid valve
Y204	Ev doppia trazione/4wd solenoid valve
Y205	Ev retromarcia/Reverse solenoid valve
Y206	Ev 3° marcia/3rd speed solenoid valve
X77.s	Connettore a centralina ATC26/ATC26 connector
X8.s	Connettore a linea posto guida/Cab line connector



COLLEGARE A X77.p
DELLA LINEA 0A008285

X77.s TO X77.p

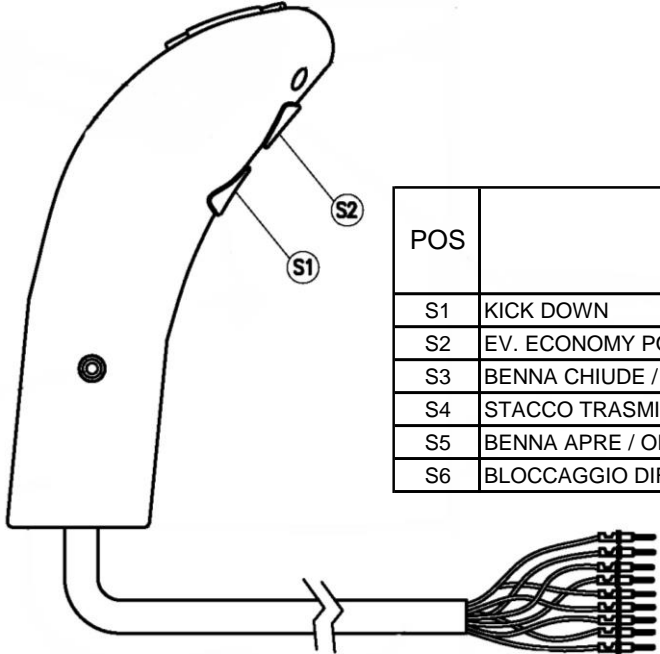
COLLEGARE A X8.p
DELLA LINEA 0A008285

X8.s TO X8.p

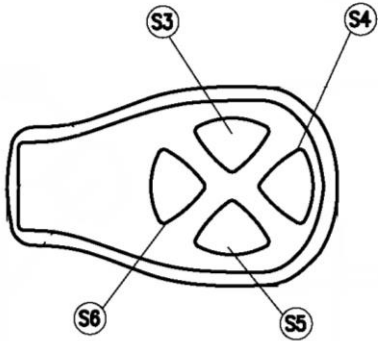
Customer Service Department



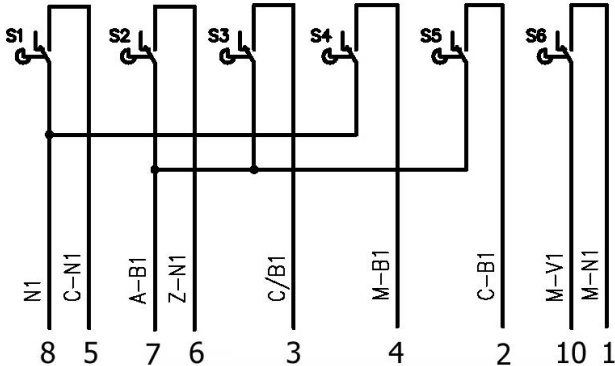
Electric System : Front Loader Lever (WB97R-5)



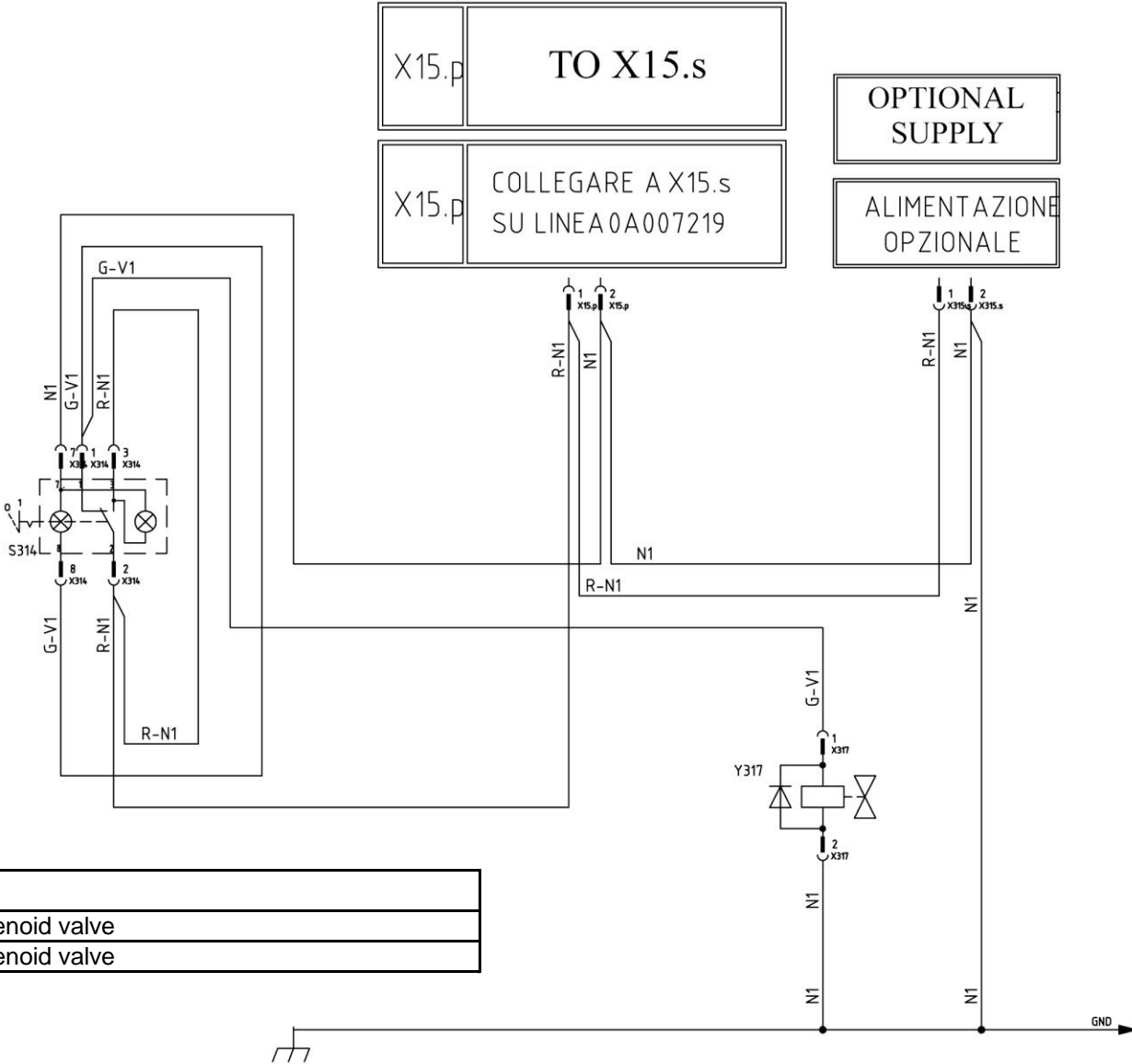
POS	DESCRIZIONE/DESCRIPTION	FILO COMUNE -- COM. WIRE	FILO CONT. N.A. -- N.O. CONTACT WIRE	FILO CONT. N.C. -- N.C. CONTACT WIRE
S1	KICK DOWN	N1	C - N1	
S2	EV. ECONOMY POWER	C - L1	Z - N1	
S3	BENNA CHIUDE / CLOSED GRAB	C - L1	C / B1	
S4	STACCO TRASMISSIONE / TRANSMISSION DETACHMENT	N1	M - B1	
S5	BENNA APRE / OPENED GRAB	C - L1	C - B1	
S6	BLOCCAGGIO DIFFERENZIALE / DIFFERENTIAL LOCK	M - V1	M - N1	



CONNECTOR POSITION



Electric System : Six-Way Valve Line (optional)



Nome/Item	Descrizione/Description
S314	Ev sicurezza/Safety solenoid valve
Y317	Ev sicurezza/Safety solenoid valve

Electric System : Six-Way Valve Line (optional)

X315.s

Alimentazione opzionale
125007

Connettore Amp 2 vie P.F.

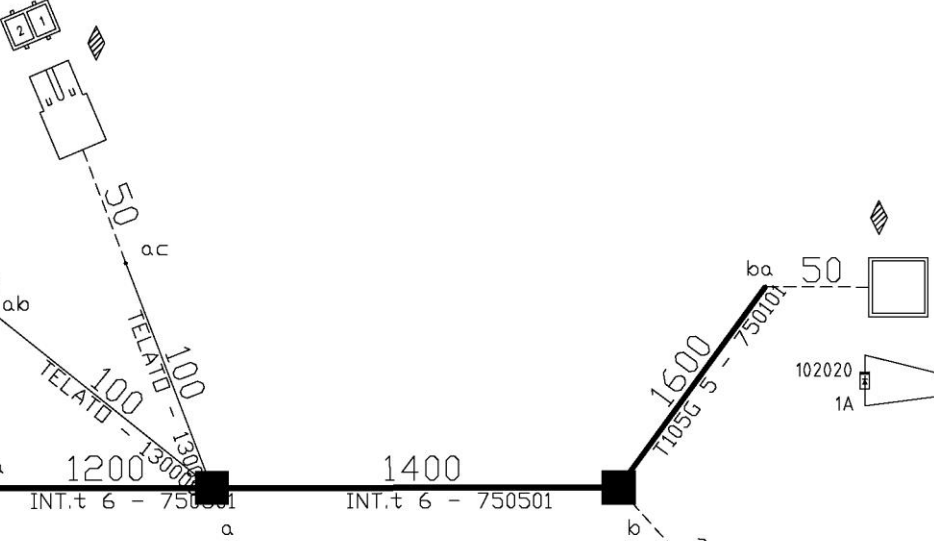
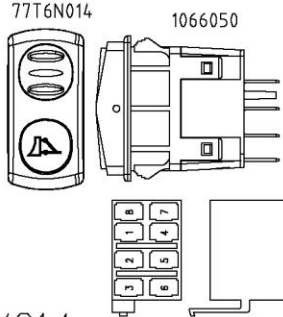
P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	R-N	1	X15.p/1	120473	Alimentaz. +15
2	N	1	X15.p/2	120473	Gnd
	N	1	Gnd/-	-	Gnd

X15.p

A linea posto guida
125008

Connettore Amp 2 vie P.M.

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	R-N	1	X315.s/1	120001	Alimentaz. +15
	R-N	1	X314/2	-	Alimentazione sw martello a mano
2	N	1	X315.s/2	120001	Gnd
	N	1	X314/7	-	Gnd



X314

Interruttore martello a mano
124331

Connettore int. COB0 serie 600

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	G-V	1	X317/1	120473	Comando ev martello a mano
	G-V	1	X314/8	-	Ponte 1
2	R-N	1	X15.p/1	120473	Alimentazione sw martello a mano
	R-N	1	X314/3	-	Ponte
3	R-N	1	X314/2	120473	Ponte
4					
5					
6					
7	N	1	X15.p/2	120473	Gnd
8	G-V	1	X314/1	120473	Ponte 1

X317

Ev martello a mano

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
*	G-V	1	X314/1	101077	Comando ev martello a mano
*	N	1	Gnd/-	101077	Gnd

Gnd

Punto di massa
101013

Capicorda non isolato D. 8 x 4-6mmq

COL./N.	SEZ.	RIF.	FUNZIONE_FILO
N	1	X317/2	Gnd
N	1	X315.s/2	Gnd

Electric System : Hand-Hammer Line (optional)

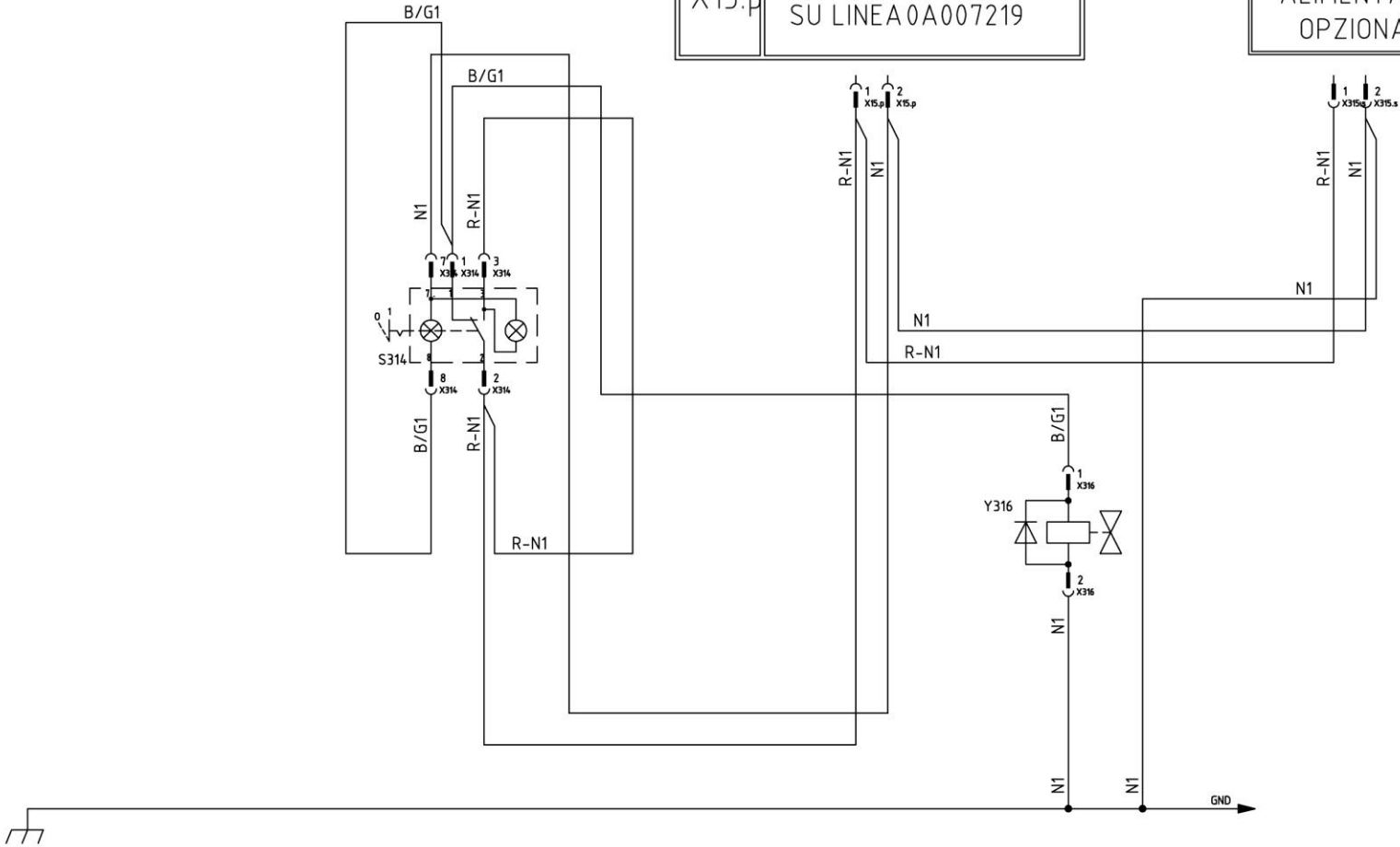
Nome/Item	Descrizione/Description
S314	Interruttore martello a mano/Hand hammer switch
Y316	Ev martello a mano/Hand hammer solenoid valve

X15.p TO X15.s

X15.p COLLEGARE A X15.s SU LINEA 0A007219

OPTIONAL SUPPLY

ALIMENTAZIONE OPZIONALE



Electric System : Hand-Hammer Line (optional)

X15.s

A linea posto guida
125007
Connettore Amp 2 vie P.F.

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	R-N	1	X315.p/1	120473	Alimentaz. +15
2	N	1	X315.p/2	120473	Gnd
	N	1	Gnd/-	-	Gnd

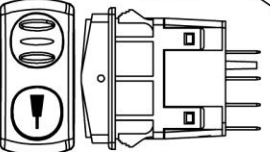
X315.p

Alimentazione opzionale
125008
Connettore Amp 2 vie P.M.

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	R-N	1	X15.s/1	120001	Alimentaz. +15
	R-N	1	X314/2	-	Alimentazione sw martello a mano
2	N	1	X15.s/2	120001	Gnd
	N	1	X314/7	-	Gnd

77T6N015

1066050



X314

Interruttore martello a mano
124331
Connettore Int. COBD serie 600

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	B/G	1	X316/1	120473	Comando ev martello a mano
	B/G	1	X314/8	-	Ponte 1
2	R-N	1	X315.p/1	120473	Alimentazione sw martello a mano
	R-N	1	X314/3	-	Ponte
3	R-N	1	X314/2	120473	Ponte
4					
5					
6					
7	N	1	X315.p/2	120473	Gnd
8	B/G	1	X314/1	120473	Ponte 1

X316

Ev martello a mano

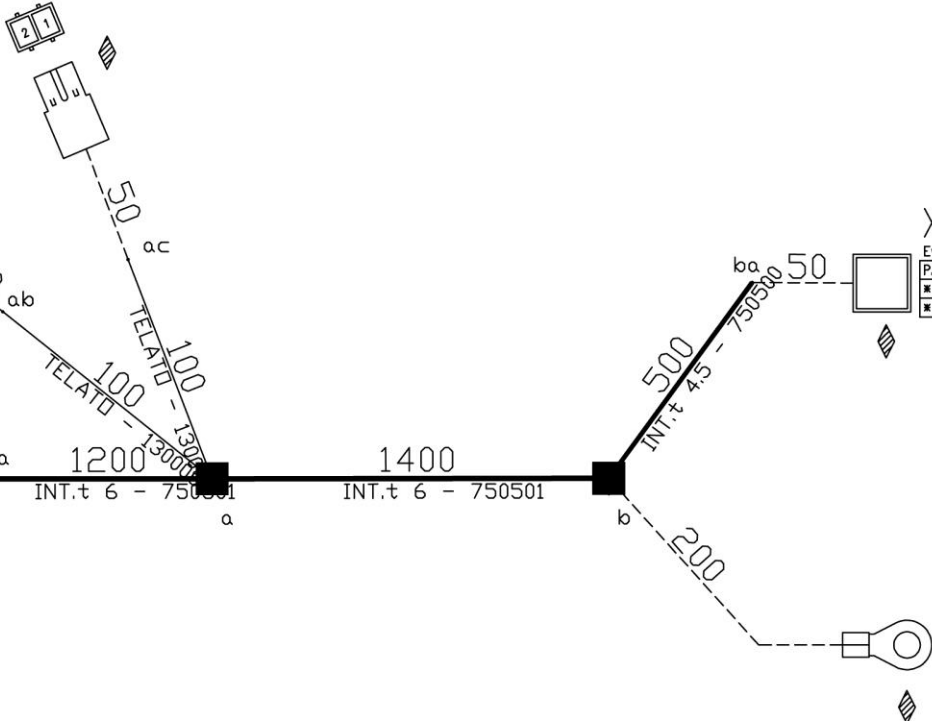
P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	B/G	1	X314/1	120111	Comando ev martello a mano
2	N	1	Gnd/-	120111	Gnd

Gnd

Punto di massa
101013

Capicorda non Isolato D. 8 x 4-6mm²

COL./N.	SEZ.	RIF.	FUNZIONE_FILO
N	1	X15.s/2	Gnd
N	1	X316/2	Gnd

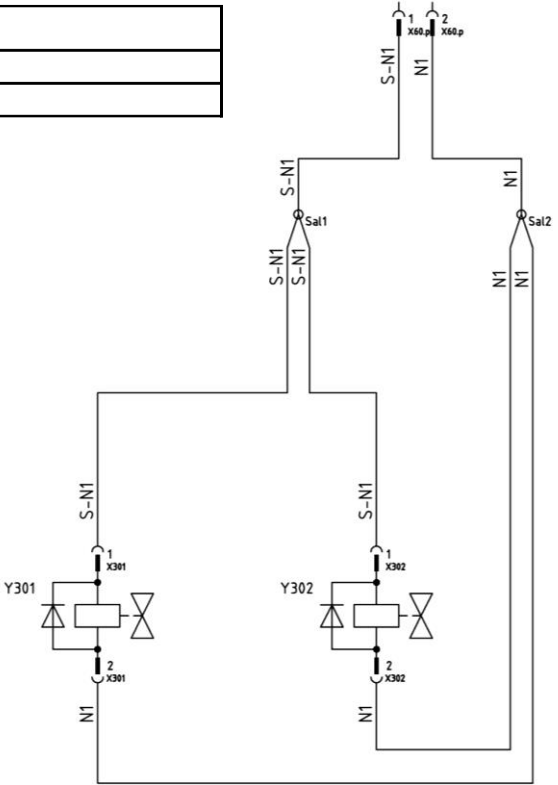


Electric System : Safety Valve Line (optional)

X60.p	TO X60.s
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X60.p	COLLEGARE A X60.s SU LINEA 0A007170
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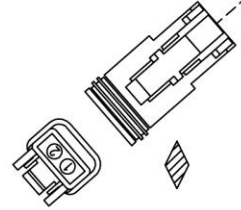
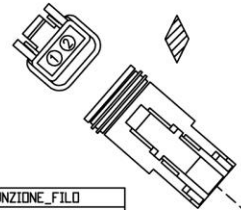
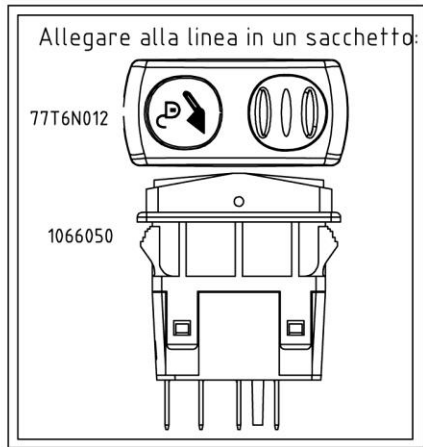
Nome/Item	Descrizione/Description
Y301	Ev sicurezza/Safety solenoid valve
Y302	Ev sicurezza/Safety solenoid valve



Electric System : Safety Valve Line (optional)

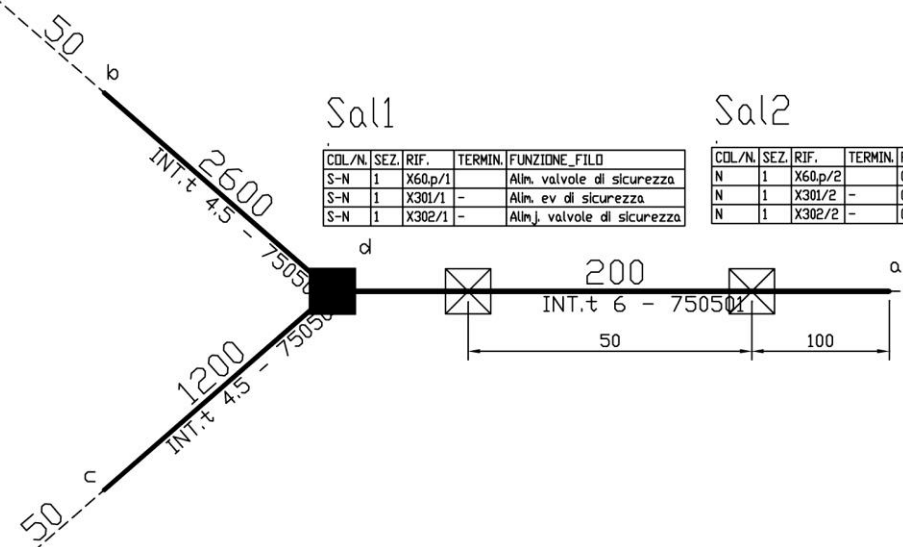
X301
 Ev sicurezza
 125402
 Conn. DT 2 vie M.
 125403

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	S-N	1	Sal1/-	120111	Alim. ev di sicurezza
2	N	1	Sal2/-	120111	Gnd



X302
 Ev sicurezza
 125402
 Conn. DT 2 vie M.
 125403

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	S-N	1	Sal1/-	120111	Alim. valvole di sicurezza
2	N	1	Sal2/-	120111	Gnd



COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
S-N	1	X60.p/1		Alim. valvole di sicurezza
S-N	1	X301/1		Alim. ev di sicurezza
S-N	1	X302/1		Alim. valvole di sicurezza

COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
N	1	X60.p/2		Gnd
N	1	X301/2		Gnd
N	1	X302/2		Gnd

X60.p
 A linea motore
 125400
 Conn. DT 2 vie F.
 125401

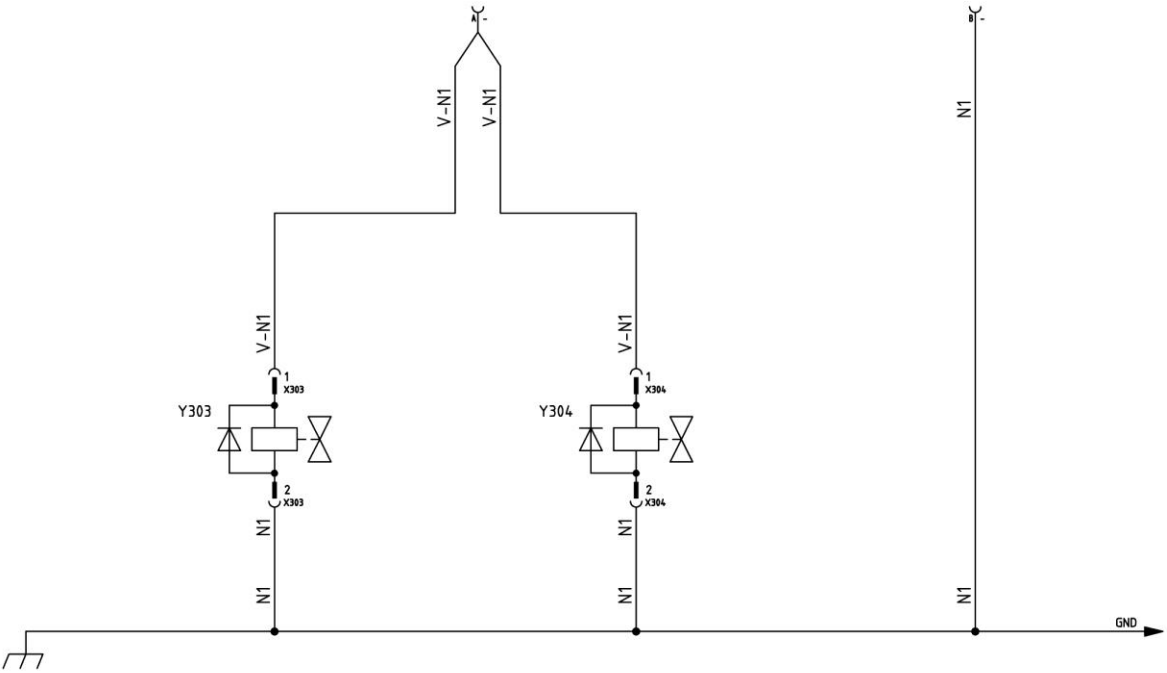
P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	S-N	1	Sal1/-	120110	Alim. valvole di sicurezza
2	N	1	Sal2/-	120110	Gnd

Electric System : Ride Control Line (optional)

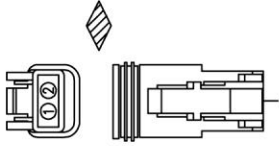
Nome/Item	Descrizione/Description
Y303	Ev ride control/Ride control solenoid valve
Y304	Ev ride control/Ride control solenoid valve

A	TO X11.s/8
A	COLLEGARE IN X11.s / 8 SU LINEA 0A007168

B	TO X11.s/9
B	COLLEGARE IN X11.s / 9 SU LINEA 0A007168

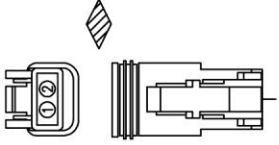


Electric System : Ride Control Line (optional)



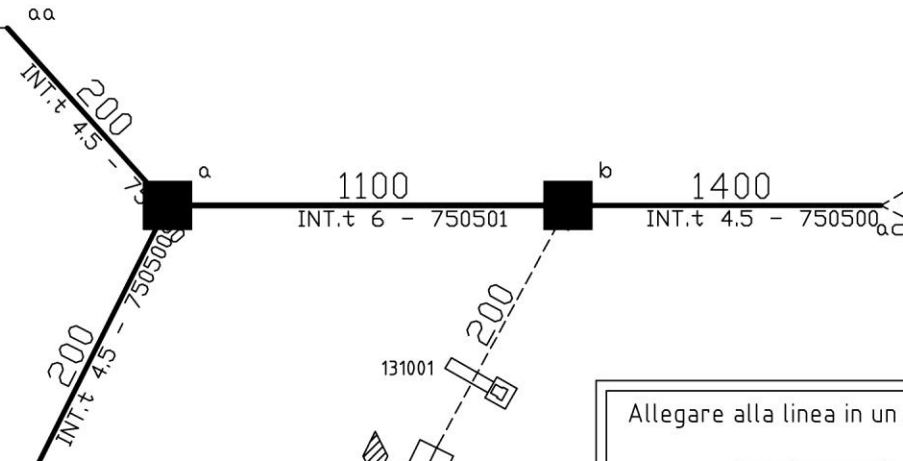
X303
Ev ride control
125402
Conn. DT 2 vie M.
125403

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	V-N	1	A/-	120111	Allm. ev ride control
2	N	1	Gnd/-	120111	Gnd



X304
Ev ride control
125402
Conn. DT 2 vie M.
125403

P.	COL./N.	SEZ.	RIF.	TERMIN.	FUNZIONE_FILO
1	V-N	1	A/-	120111	Allm. ev ride control
2	N	1	Gnd/-	120111	Gnd



Gnd
Punto di massa
101013
Capicorda non isolato D. 8 x 4-6mmq

COL./N.	SEZ.	RIF.	FUNZIONE_FILO
N	1	B/-	Gnd
N	1	X303/2	Gnd
N	1	X304/2	Gnd

Allegare alla linea in un sacchetto:

77T6N013

1066050

A
Pin 8 di X11.s
120238
Contatto MPC 2.8 femmina 0,5-1mm

COL./N.	SEZ.	RIF.	FUNZIONE_FILO
V-N	1	X303/1	Allm. ev ride control
V-N	1	X304/1	Allm. ev ride control

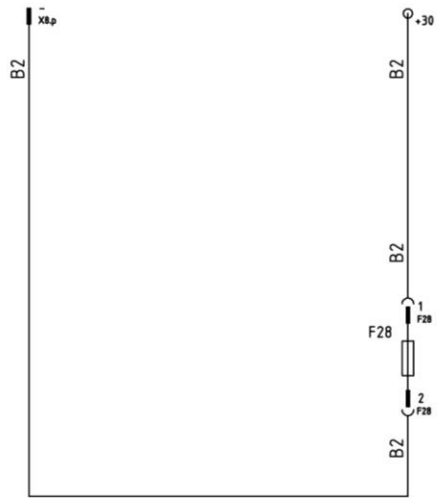
B
Pin 9 di X11.s
120238
Contatto MPC 2.8 femmina 0,5-1mm

COL./N.	SEZ.	RIF.	FUNZIONE_FILO
N	1	Gnd/-	Gnd

Electric System : Self Supply Pump Line (optional)

INSERT THE PIN IN THE CONNECTOR X8.s IN THE POSITION 10

Inserire il pin in posizione 10 del connettore X8.p della linea posto guida

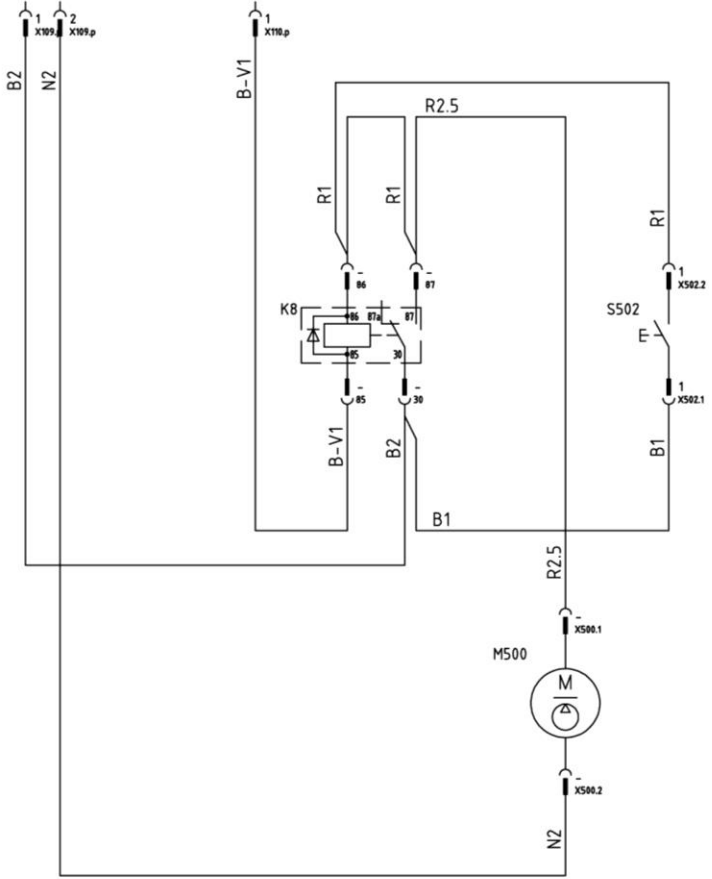


X109.p TO X109.s

X110.p TO X110.s

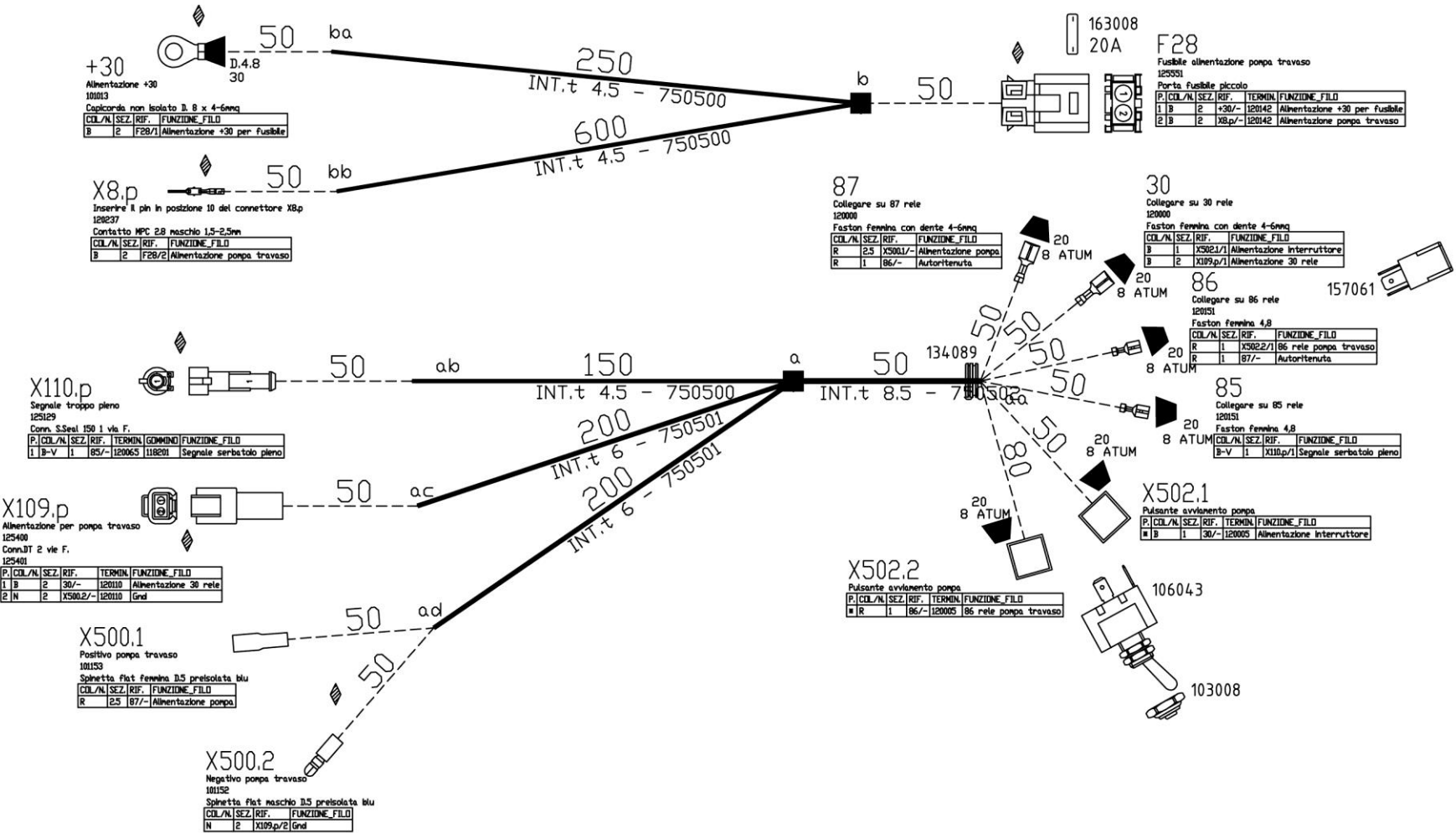
X109.p COLLEGARE A X109.s SU LINEA CAMBIO

X110.p COLLEGARE A X110.s SU LINEA CAMBIO

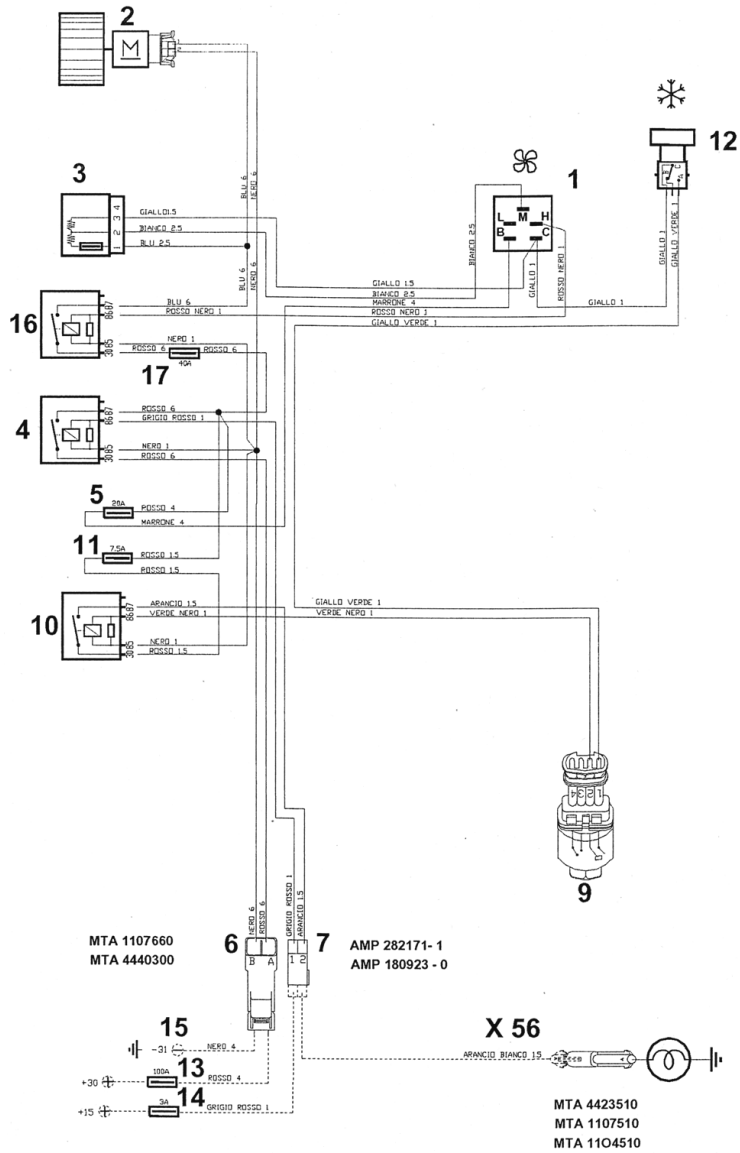


Nome/Item	Descrizione/Description
F28	Fusibile alim. Pompa travaso/Fuel refill tank fuse
K8	Rele pompa travaso/Fuel refill tank rele
M500	Pompa travaso/Fuel refill tank
S502	Pulsante avv. Pompa/Starting fuel refill pump button

Electric System : Self Supply Pump Line (optional)



Electric System : Wiring Diagram A/C (optional)



Pos.	DESCRIZIONE	DESCRIPTION
1	SELETTORE VENTILAZIONE	SELECTOR FAN
2	VENTILATORE	FAN
3	RESISTORE	RESISTOR
4	RELE 12V 40A	RELAY 12V 40A
5	FUSIBILE 20A MAXI	FUSE 20A MAXI
6	CONNETTORE 2 VIE MAXI	CONNECTOR 2 WAY
7	CONNETTORE 2 VIE	CONNECTOR 2 WAY MAXI
8	GIUNTO ELETTROMAGNETICO	A/C COMPRESSOR CLUTCH
9	PRESSOSTATO	PRESSURE-SWITCH
10	RELE 12V 30A	RELAY 12V 30A
11	FUSIBILE 7,5A	FUSE 7,5A
12	INTERRUTTORE A/C	SWITCH A/C
13	FUSIBILE 100A	FUSE 100A
14	FUSIBILE 3A	FUSE 3A
15	PUNTO DI MASSA	GROUND
16	RELE 12V 50A	RELAY 12V 50A
17	FUSIBILE 40A MAXI	FUSE 40A MAXI

ATC26



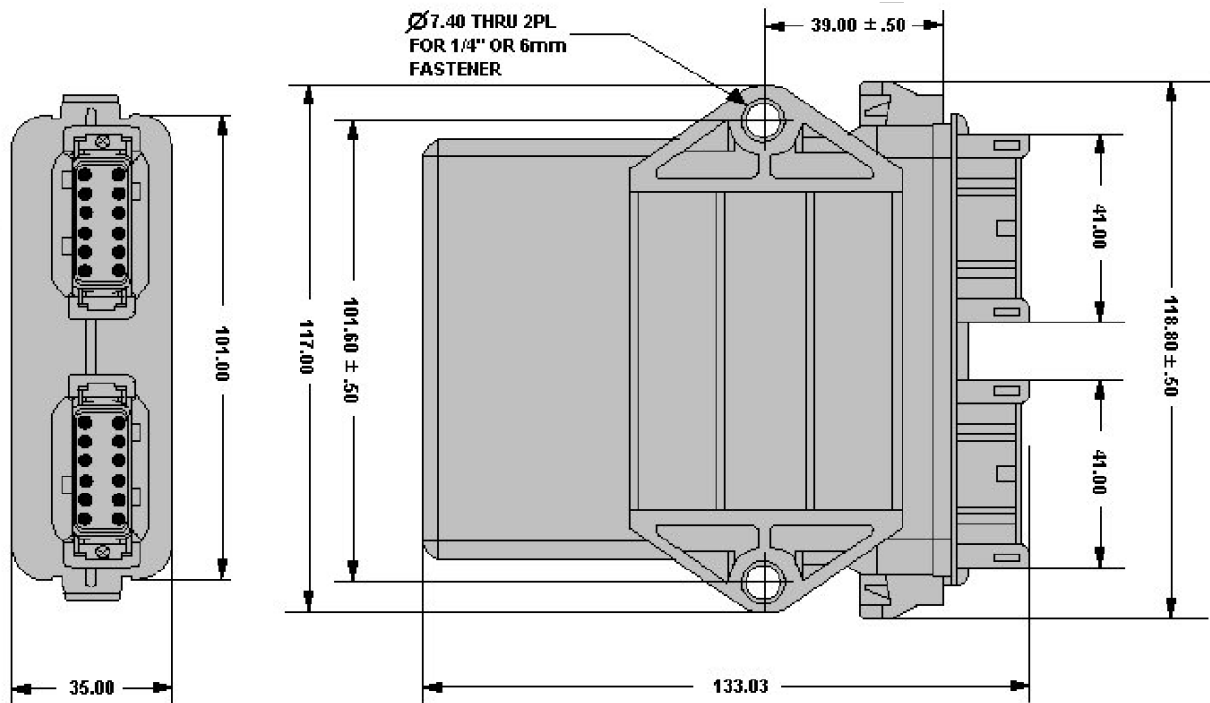
Electronic module



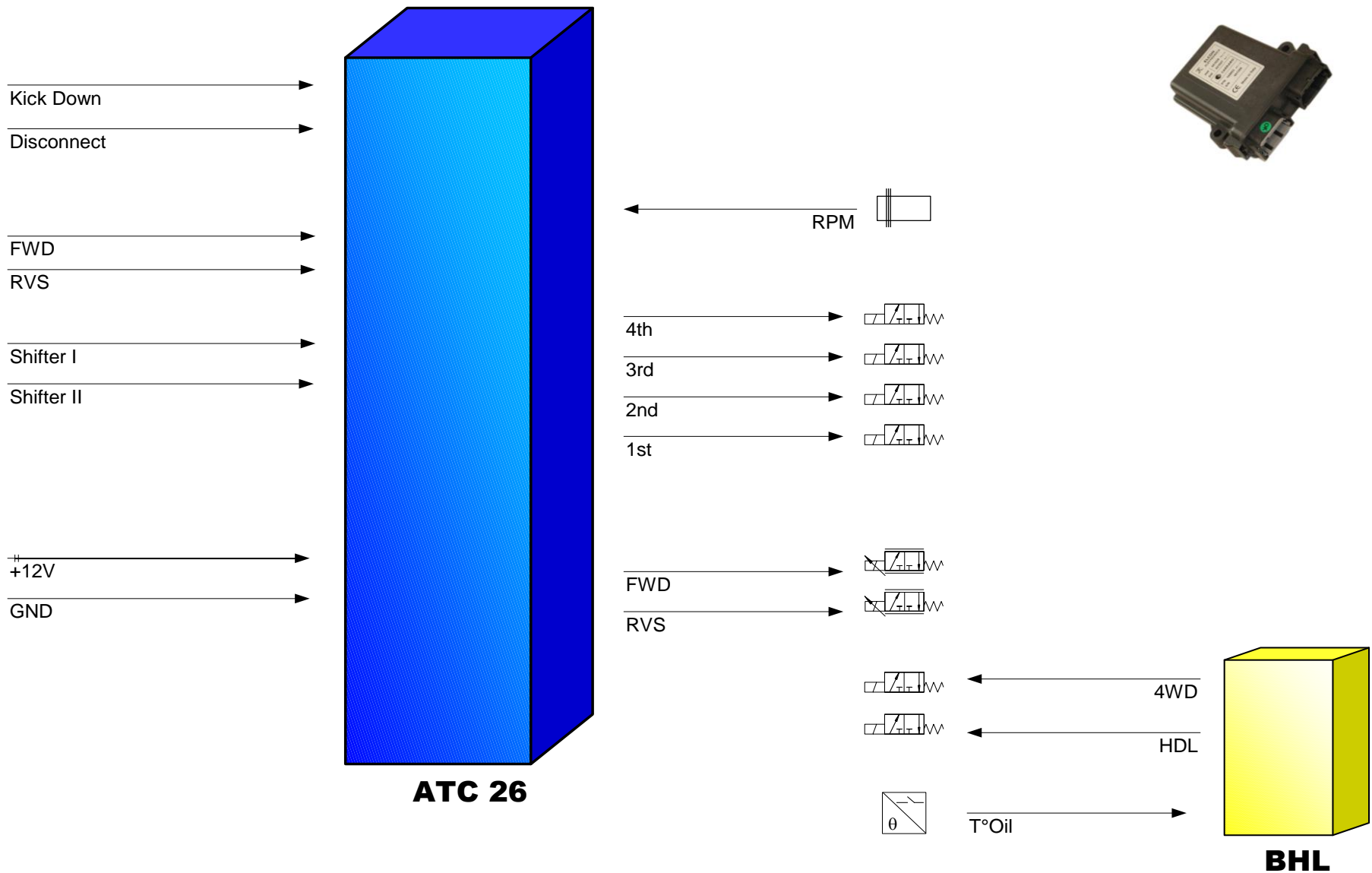
- ✓ FWD RVS management
- ✓ Manual - Automatic gearshifting combination
- ✓ Kick down
- ✓ Disconnect
- ✓ 4WD management (only 3rd 4th speed)
- ✓ HDL management (only 1st 2nd speed)



Outline Dimensions



Electric System : Information Flow Diagram



Electric System : Pin Out



S01	1	GND	GND	GND
	2	Digital Output	+12V, High Impedence, 2A limited	1 st Gear Solenoid
	3	Digital Input	Pull Down Resistance, 1k Ω	FWD
	4	Digital Input	Pull Up Resistance, 1k Ω	Kick Down
	5	Frequency input	Frequency input	Inductive Sensor (Vehicle Speed)
	6	Digital Input	Pull Down Resistance, 1k Ω	Shifter I
	7	Digital Input	Pull Down Resistance, 1k Ω	Shifter II
	8			
	9	Digital Input	Pull Down Resistance, 1k Ω	RVS
	10			
	11	Digital Output	GND, High Impedence, 2A limited	AUTO
	12	Power Supply	+12V	+12V
S02	1	Digital Output	+12V, High Impedence, 2A limited	4 th Gear Solenoid
	2	PWM Output	PWM Output	Reverse +
	3	PWM Output	PWM Output	Forward +
	4	RS 232 RxD	RS 232 RxD	RS 232 RxD
	5	RS 232 TxD	RS 232 TxD	RS 232 TxD
	6	Analog Input	EV current feedback	Reverse Feedback
	7	Digital Input	Pull Up Resistance, 1k Ω	Disconnect
	8	Analog Input	EV current feedback	Forward Feedback
	9	Digital Output	+12V, High Impedence, 2A limited	2 nd Gear Solenoid
	10	Digital Output	+12V, High Impedence, 2A limited	3 rd Gear Solenoid
	11	Power Supply	+12V	PWM Mosfets Power Supply
	12			

Electric System : Dashboard Output



S01	1	GND	GND	GND
	2	Digital Output	+12V, High Impedance, 2A limited	1st Gear Solenoid
	3	Digital Input	Pull Down Resistance, 1kΩ	FWD
	4	Digital Input	Pull Up Resistance, 1kΩ	Kick Down
	5	Frequency input	Frequency input	Inductive Sensor (Vehicle Speed)
	6	Digital Input	Pull Down Resistance, 1kΩ	Shifter I
	7	Digital Input	Pull Down Resistance, 1kΩ	Shifter II
	8			
	9	Digital Input	Pull Down Resistance, 1kΩ	RVS
	10			
	11	Digital Output	GND, High Impedance, 2A limited	AUTO
	12	Power Supply	+12V	+12V
S02	1	Digital Output	+12V, High Impedance, 2A limited	4th Gear Solenoid
	2	PWM Output	PWM Output	Reverse +
	3	PWM Output	PWM Output	Forward +
	4	RS 232 RxD	RS 232 RxD	RS 232 RxD
	5	RS 232 TxD	RS 232 TxD	RS 232 TxD
	6	Analog Input	EV current feedback	Reverse Feedback
	7	Digital Input	Pull Up Resistance, 1kΩ	Disconnect
	8	Analog Input	EV current feedback	Forward Feedback
	9	Digital Output	+12V, High Impedance, 2A limited	2nd Gear Solenoid
	10	Digital Output	+12V, High Impedance, 2A limited	3rd Gear Solenoid
	11	Power Supply	+12V	PWM Mosfets Power Supply
	12			

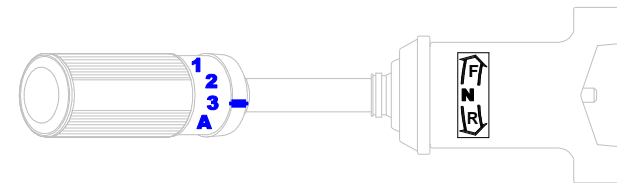


AUTO mode

Manual mode

1st to 3rd shifting in Manual mode

2rd to 4th shifting in AUTO mode



Engaged gears shall be displayed

AUTO mode shall be displayed





Manual mode

- Manual to AUTO mode subjected to gear speed thresholds
- During transient event, AUTO led blinking

AUTO mode

- 2nd to 4th gear shifting depending on BHL speed thresholds
- 2nd gear engaged in AUTO mode @ starting
- AUTO to Manual mode switching always available



Basic features

Sequential Up & Down shifting (i.e 2nd to 1st, then 1st to 2nd, ...)

Kick Down function always available, irrespective of shifter position (F, N, R)

Kick Down is cancelled shifting the gear selector (1st, 2nd, 3rd, Auto)

Kick Down is maintained moving the shifter position (F to N, F to R, ...)

Manual mode

AUTO led blinking during Kick Down operation

After Kick-down selection, 1st gear is maintained irrespective of vehicle speed

AUTO mode

AUTO led always active

Kick Down is cancelled exceeding a programmable speed threshold



Manual mode

Instantaneous interruption in power transmission, irrespective of shifter position (FWD, Neutral, RVS)

AUTO mode

Instantaneous interruption in power transmission, irrespective of shifter position (FWD, Neutral, RVS)