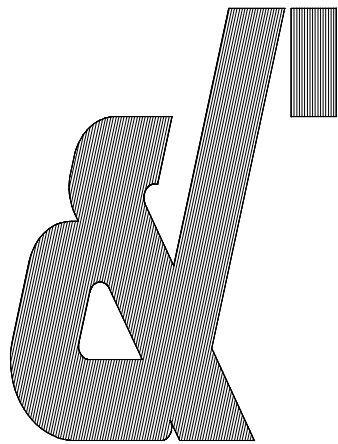


Manuale schemi elettrici **ITA**
Electric diagrams manual **GBR**

scorpion 2313

scorpion 2122

OIL&STEEL



IDENTIFICAZIONE IMPIANTO
SYSTEM IDENTIFICATION

IMPIANTO ELETTRICO PER: ELECTRIC SYSTEM FOR:	SCORPION 2313 (TLK23), SCORPION 2112 J (TLKJ21)
NUMERO DISEGNO DRAWING NUMBER	0.467.286
REVISIONE REVISION	03
DATA PRIMA EMISSIONE FIRST DATE EMISSION	06/03/2015
DATA AGGIORNAMENTO DATE OF UPDATE	23/11/2015
ALIMENTAZIONE POWER SUPPLY	12VDC
TEMPERATURA OPERATIVA OPERATING TEMPERATURE	-25°...+70°C
TEMP IMMAGAZZINAMENTO STORAGE TEMPERATURE	-40°...+85°C
UMIDITA' OPERATIVA OPERATING HUMIDITY	0-100%
POTENZA ASSORBITA POWER CONSUMPTION	<20W (LOGIC) <16x22W (POWER) + 12x22W FOR REMOTE I/O
PROTEZIONE IP IP PROTECTION	>= 65

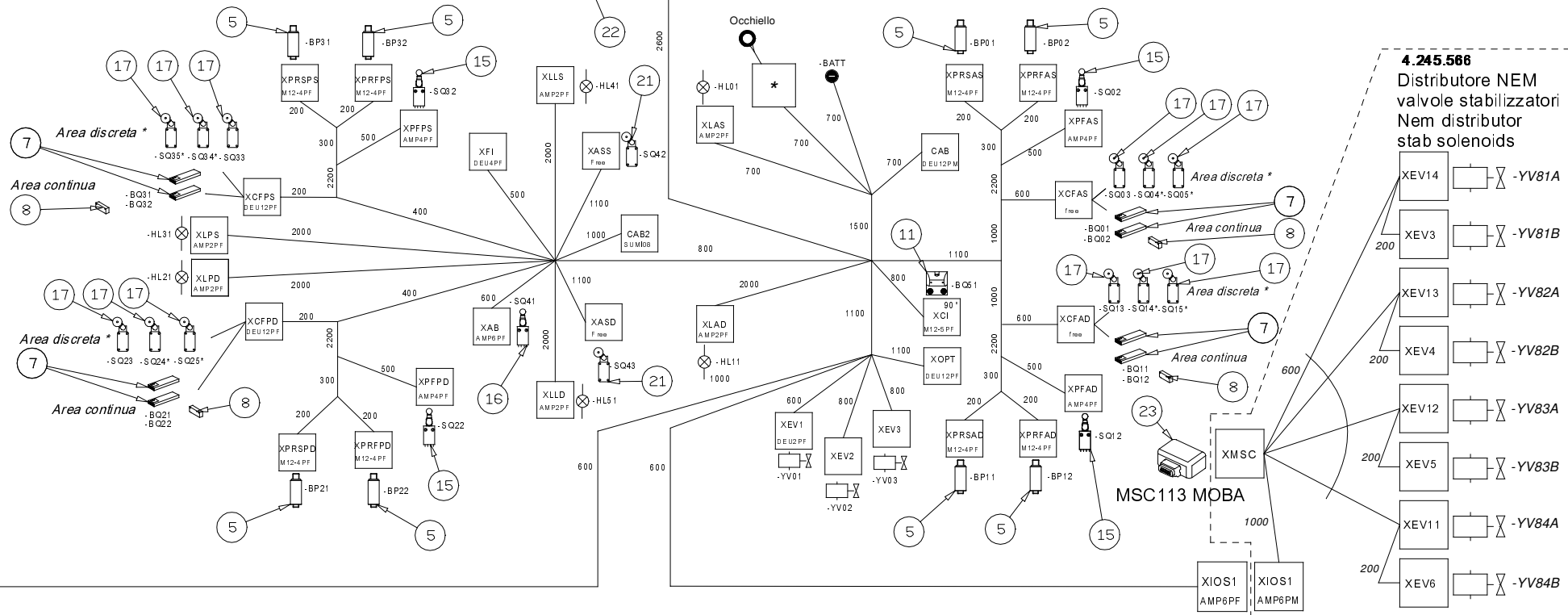
REVISIONS HISTORY		
#	Date	Note
00	06/03/2015	First emission
01	29/06/2015	Harnesses update.
02	22/11/2015	Improvements in lower structure
03	23/11/2015	Updates on upper structure

PAG	OGGETTO	SUBJECT
2	Indice	Index
3	Layout generale	Global layout
4	Dettaglio sottostruttura (4.245.563)	Lower structure details (4.245.563)
5	Inserimenti sottostruttura	Lower structure wiring
6	Inserimenti centralina Moba	Moba ECU wiring
7	Cablaggio pacco bracci (4.245.564)	Booms harness (4.245.564)
8	Cablaggio pressostati (4.245.565)	Pressure switches harness (4.245.565)
9	Cablaggio MSC piedi (4.245.566)	Stabilizers MSC harness (4.245.566)
10	Cablaggio verso cestello TLK23 (4.245.660)	TLK23 harness to basket (4.245.660)
11	Cablaggio verso cestello TLKJ21 (4.245.661)	TLKJ21 harness to basket (4.245.661)
12	Layout cablaggio distributore colonna (4.245.579)	Column distributor harness layout (4.245.579)
13	Inserimenti cablaggio distributore colonna	Column distributor harness wiring
14	Cablaggio MSC traverse (4.245.580)	Crossbars MSC harness (4.245.580)
15	Cablaggio connessione a FC traverse (4.245.638)	Crossbars LS connection harness (4.245.638)
16	Posizionamento sensori e circuiti	Sensors displacement and other circuits
17	Allegati	Annexes

SENSORI E ALTRO	
Sigla	Funzione
BQ01	Sfilo traversa ANT SX 1
BQ02	Sfilo traversa ANT SX 2
BQ11	Sfilo traversa ANT DX 1
BQ12	Sfilo traversa ANT DX 2
BQ21	Sfilo traversa POST DX 1
BQ22	Sfilo traversa POST DX 2
BQ31	Sfilo traversa POST SX 1
BQ32	Sfilo traversa POST SX 2
BQ51	Angolo telaio
BR51	Encoder rotazione colonna
BQ71	Angolo bracci
BQ72	Sfilo bracci
AP81	IO remoto valvole stabilizzatori
AP82	IO remoto valvole traverse
AP91	IO remoto colonna
AP61	Tastiera con joystick cestello
BR61	Rotazione cestello
BP61	Cella di carico cestello



VALVOLE DISTRIBUTORE HAWE	
Sigla	Funzione
YV90	Generale
YV91A	Cesto avanti
YV91B	Cesto indietro
YV92A	Rotazione cesto CW
YV92B	Rotazione cesto CCW
YV93A	Jib UP
YV93B	Jib DOWN
YV94A	Braccio fuori
YV94B	Braccio dentro
YV95A	Braccio UP
YV95B	Braccio DOWN
YV96A	Rotazione colonna CW
YV96B	Rotazione colonna CCW



25	1	686211	FILE	3323 3/23/01	NR	04-25-0020	NR
24	1	682633	93	04-25-30-30-30-30	NR	04-25-0040	NR
23	1	682631	93	RENTED NR-113 04-25-7035	TL	NR	NR
22	1	615029	DN	03C-02E14 3/11-3/28-2/01	NR		
21	1	640111	1	INCORPORAS FD 751-290K33	NR		
20	1	640111	1	INCORPORAS FD 751-290K33	NR		
19	1	640106	NR	RECEIVED PER 68622	NR		
18	1	640101	NR	RECEIVED PER 68622	NR		
17	1	640101	NR	RECEIVED PER 68622	NR		
16	1	640098	NR	RECEIVED PER 68622	NR		
15	1	640098	NR	RECEIVED PER 68622	NR		
14	1	537299	NR	RECEIVED PER 68622	NR		
13	1	534212	NR	RECEIVED PER 68622	NR		
12	1	534212	NR	RECEIVED PER 68622	NR		
11	1	510281	NR	RECEIVED PER 68622	NR		
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9	1	510099	NR	RECEIVED PER 68622	NR		
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7	1	510099	NR	RECEIVED PER 68622	NR		
6	1	510093	NR	RECEIVED PER 68622	NR		
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2	1	245638	NR	RECEIVED PER 68622	NR		
1	1	245638	NR	RECEIVED PER 68622	NR		

Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione:

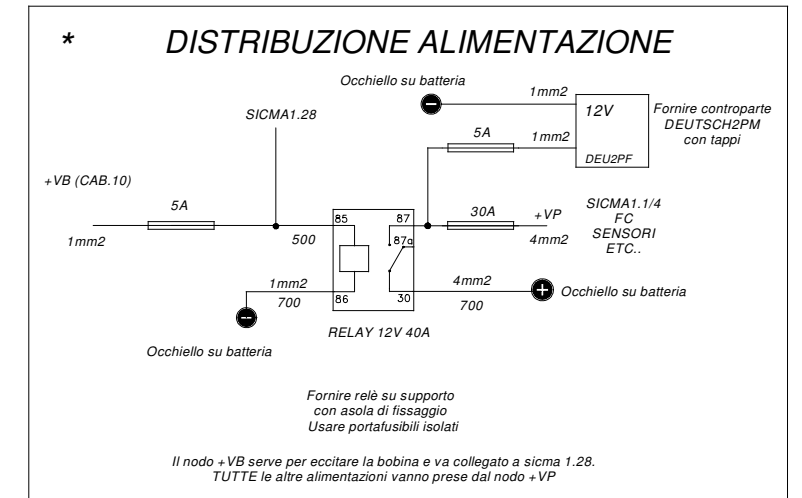
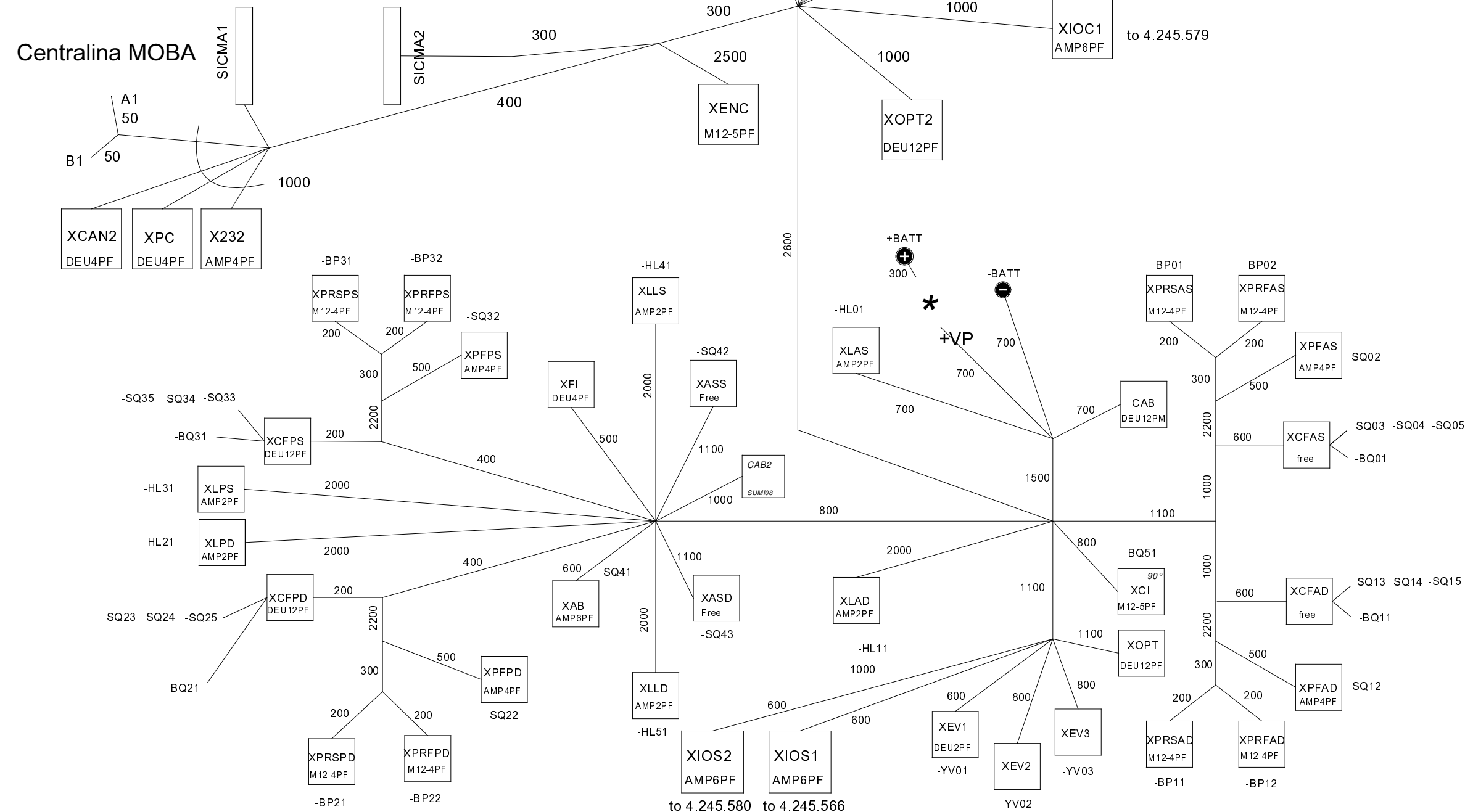
LAYOUT GENERALE
GLOBAL LAYOUT

Note:

CL merc.	0
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N° DISEGNO:
467286

ETICHETTARE COME REV.02
LABEL AS REV.02



*XCAN2 e XPC:
mettere tappo con R120
5.537.296*

*XFCBR, XBAS, XSENS, XBP, XRS
fornire porta connettore rigido
invece di cuffia*

*XCFAS e XCFAD:
fornire fili liberi già crimpati
e connettore DEU12PF a parte*

*XOPT2 e X232: fornire
controparte con tappi*

*XOPT: fornire controparte
con tappi e ponticello
tra pin 11 e 12*

Data :	16/10/2015		Descrizione: DETTAGLIO SOTTOSTRUTTURA LOWER STRUCTURE DETAIL 4.245.563	Pagina: 4 di 16 Note:	CL merc. 0	N° DISEGNO: 467286
Diseg.:	DiSimoneA					
Revisione:	02					
Visto:	Falceri C.					

POSTERIORE SX
REAR LEFT

Pold	Sigla	Cross
1	S1C	XPFPD.4
2	+VP	S_+VP
3	-SQ32	1.12
4	S3	CAB.11

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP31	XBP.7
4	-	-

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP32	XBP.8
4	-	-

Pold	Sigla	Cross
1	+VP	S_+VP
2	CAN1H	1.56
3	CAN1L	1.55
4	GND	2.1
5	+VP	S_+VP
6	-SQ34	2.49
7	+VP	S_+VP
8	-SQ35	2.50
9	+VP	S_+VP
10	S1	CAB.8
11	S2	CAB.9
12	-SQ33	1.21

ANTERIORE SX
FRONT LEFT

Pold	Sigla	Cross
1	S1	CAB.8
2	+VP	S_+VP
3	-SQ02	1.16
4	S1A	XPFAD.1

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP01	XBP.1
4	-	-

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP02	XBP.2
4	-	-

Pold	Sigla	Cross
1	+VP	S_+VP
2	CAN1H	1.56
3	CAN1L	1.55
4	GND	2.1
5	+VP	S_+VP
6	-SQ04	2.47
7	+VP	S_+VP
8	-SQ05	2.23
9	+VP	S_+VP
10	S1	CAB.8
11	S2	CAB.9
12	-SQ03	1.44

POSTERIORE DX
REAR RIGHT

Pold	Sigla	Cross
1	S1B	XPFPD.4
2	+VP	S_+VP
3	-SQ22	1.49
4	S1C	XPFPS.1

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP21	XBP.5
4	-	-

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP22	XBP.6
4	-	-

Pold	Sigla	Cross
1	+VP	S_+VP
2	CAN1H	1.56
3	CAN1L	1.55
4	GND	2.1
5	+VP	S_+VP
6	-SQ24	2.46
7	+VP	S_+VP
8	-SQ25	2.22
9	+VP	S_+VP
10	S1	CAB.8
11	S2	CAB.9
12	-SQ23	1.20

ANTERIORE DX
FRONT RIGHT

Pold	Sigla	Cross
1	S1A	XPFAS.4
2	+VP	S_+VP
3	-SQ12	1.48
4	S1B	XPFPD.1

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP11	XBP.3
4	-	-

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-	-
3	-BP12	XBP.4
4	-	-

Pold	Sigla	Cross
1	+VP	S_+VP
2	CAN1H	1.56
3	CAN1L	1.55
4	GND	2.1
5	+VP	S_+VP
6	-SQ14	2.48
7	+VP	S_+VP
8	-SQ15	2.21
9	+VP	S_+VP
10	S1	CAB.8
11	S2	CAB.9
12	-SQ13	1.47

APPOGGIO BR.
ASSALE
INCLINOMETRO
FUORI INGOMBRO
ENCODER COL.

Pold	Sigla	Cross
1	+VP	S_+VP
2	GND	2.1
3	-SQ41	2.16
4	-SQ41	2.40
5	-SQ41	2.45
6	-	-

Pold	Sigla	Cross
1	-	-
2	+VP	S_+VP
3	GND	2.1
4	CAN1H	1.56
5	CAN1L	1.55

Pold	Sigla	Cross
1	GND	2.1
2	OUT_15V	2.54
3	GND	2.1
4	CAN2H	2.39
5	CAN2L	2.38

Pold	Sigla	Cross
1	-	-
2	+VP	S_+VP
3	GND	2.1
4	CAN1H	1.56
5	CAN1L	1.55

Pold	Sigla	Cross
1	S1	S1
2	S2	S2
3	S1	S1
4	S2	S2

LUCI/LIGHTS

Pold	Sigla	Cross
1	R_LAMP	CAB2.2
2	GND	CAB2.3

Pold	Sigla	Cross
1	L_LAMP	CAB2.1
2	GND	CAB2.3

Pold	Sigla	Cross
1	R_LAMP	CAB2.2
2	GND	CAB2.3

Pold	Sigla	Cross
1	L_LAMP	CAB2.1
2	GND	CAB2.3

Pold	Sigla	Cross
1	R_LAMP	CAB2.2
2	GND	CAB2.3

Pold	Sigla	Cross
1	L_LAMP	CAB2.1
2	GND	CAB2.3

ELETTROVALVOLE/SOLENOIDS

Pold	Sigla	Cross
1	GND	2.1
2	YV90	1.11
3	-	-
4	-	-

Pold	Sigla	Cross
1	YV01	1.5
2	GND	1.15

Pold	Sigla	Cross
1	YV02S2	XI0C1.6
2	GND	1.15

Pold	Sigla	Cross
1	YV03S3	XI0S2.6
2	GND	1.15

PC

Pold	Sigla	Cross
1	CAN1L	1.55
2	CAN1H	1.56
3	GND	1.45
4	-	-

Pold	Sigla	Cross
1	TX232	1.50
2	RX232	1.51
3	GND	1.45
4	-	-

BATTERIA/BATTERY
BUZZER

Pold	Sigla	Cross
1	+VP	RELE/30

Pold	Sigla	Cross
1	GND	1.27

Pold	Sigla	Cross
A1	C_BUZZ	1.31
B1	GND	1.27

AI MOBA MSC113/TO MOBA MSC113

Pold	Sigla	Cross
1	CAN1L	1.55
2	CAN1H	1.56
3	+VP	S_+VP
4	GND	1.24
5	YV03S1	1.33
6	YV03S2	XI0S2.5

Pold	Sigla	Cross
1	CAN1L	1.55
2	CAN1H	1.56
3	+VP	S_+VP
4	GND	1.25
5	YV03S2	XI0S1.6
6	YV03S3	XEV3.1

Pold	Sigla	Cross
1	CAN2L	2.38
2	CAN2H	2.39
3	+VP	S_+VP
4	GND	1.26
5	YV02S1	1.6
6	YV02S2	XEV2.1

AD ALTRI
CABLAGGI/
TO OTHER
HARNESSES

Pold	Sigla	Cross
1	SQ91A	2.4
2	SQ91B	2.9
3	SQ93A	2.6
4	SQ93B	2.11
5	SQ94A	2.31
6	SQ94B	2.42
7	SQ95A	2.32
8	SQ95B	2.43
9	SQ96A	2.33
10	SQ96B	2.44
11	+VP	S_+VP
12	GND	2.30

Pold	Sigla	Cross
1	+VP	S_+VP
2	GND	2.30
3	CAN2H	2.39
4	CAN2L	2.38
5	+VP	S_+VP
6	S5	XOPT.11
7	+VP	S_+VP
8	-SQ61	2.3
9	-SQ62	2.37
10	-SQ63	2.36
11	SP11	XOPT2.11
12	SP12	XOPT2.12

Pold	Sigla	Cross
1	OUT_15V	2.54
2	-BP74	2.14
3	OUT_15V	2.54
4	-BP72	2.12
5	OUT_15V	2.54
6	-BP73	2.15
7	OUT_15V	2.54
8	-BP71	2.13
9	+VP	S_+VP
10	CAN2H	2.39
11	CAN2L	2.38
12	GND	2.30

CAB

Pold	Sigla	Cross
1	-	-
2	C_START	1.30
3	IN_ALT	1.32
4	C_HORN	1.7
5	-	-
6	C_STOP	2.27
7	C_RPM	1.34
8	S1	S1
9	S2	S2
10	+VB	1.28
11	S3	XPFPS.4
12	-	-

Pold	Sigla	Cross
1	L_LAMP	V.LUCI
2	R_LAMP	V.LUCI
3	-	-
4	-	-
5	-	-
6	GND	V.LUCI
7	-	-
8	-	-

CABINA/CABIN

OIL TEMPERATURE SENSOR:
XOPT PIN 4
OIL PRESSURE SENSOR:
XOPT PIN 10

OPZIONALE: PROXIMITY CENTRAGGIO COLONNA
OPTIONAL: TURRET CENTERED PROXIMITY
XOPT2: PIN7 (+12V), 8 (GND), 10 (SIGNAL)

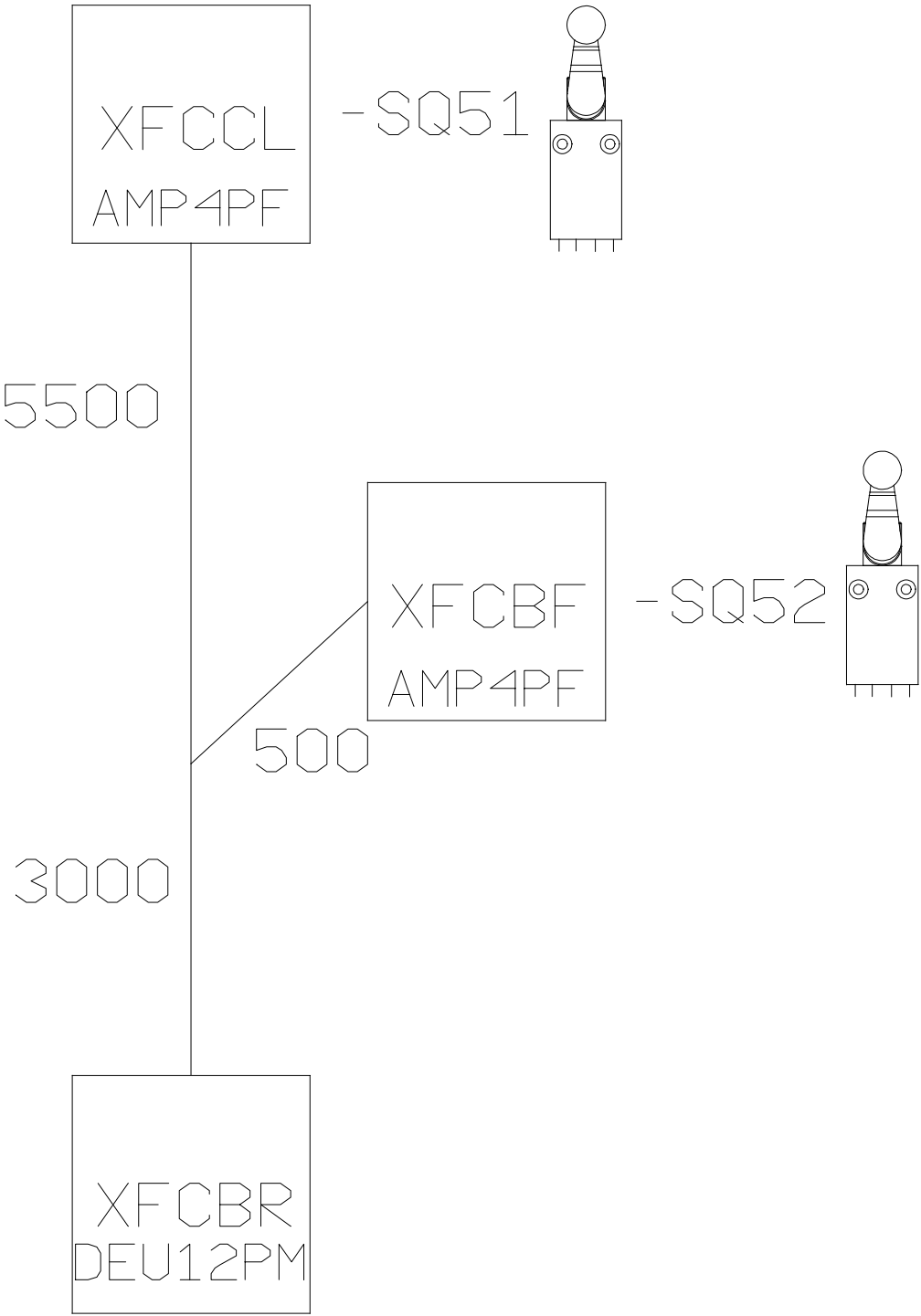
SICMA 1						
Polo	ID	Sezione	Sigla	Cross	Contatto_Mod	Gommino_Mod
1	ROSSO	1	+VP	S_+VP	211CC2S2160	
2	ROSSO	1	+VP	S_+VP	211CC2S2160	
3	ROSSO	1	+VP	S_+VP	211CC2S2160	
4	ROSSO	1	+VP	S_+VP	211CC2S2160	
5	BIANCO	1	-YV01	XEV1/1	211CC2S2160	
6	BIANCO	1	YV02S1	XIOC1/5	211CC2S2160	
7	BIANCO	1	C_HORN	CAB/4	211CC2S2160	
8						210A015019
9						210A015019
10						210A015019
11	BIANCO	1	YV90	YV90/2	211CC2S2160	
12	BIANCO	1	-SQ32	XPFPS/3	211CC2S2160	
13	BIANCO	1	C_BRL	XOPT/9	211CC2S2160	
14						210A015019
15	NERO	1		S_GND	211CC2S2160	
16	BIANCO	1	-SQ02	XPFAS/3	211CC2S2160	
17						210A015019
18	BIANCO	1	-SQ42	XASS/1	211CC2S2160	
19						210A015019
20	BIANCO	1	-SQ23	XCFPD/12	211CC2S2160	
21	BIANCO	1	-SQ33	XCFPS/12	211CC2S2160	
22	BIANCO	1	-SQ43	XASD/1	211CC2S2160	
23	BIANCO	1	EME_IN	XOPT/12	211CC2S2160	
24	N	1.5		XIOS1/4	211CC2S2160	
25	N	1.5		XIOS2/4	211CC2S2160	
26	N	1.5		XIOC1/4	211CC2S2160	
27	NERO	1		B1	211CC2S2160	
28	ROSSO	1	+VB	S_SIC1.28	211CC2S2160	
29						210A015019
30	BIANCO	1	C_START	CAB/2	211CC2S2160	
31	BIANCO	1	C_BUZZ	A1	211CC2S2160	
32	BIANCO	1	IN_ALT	CAB/3	211CC2S2160	
33	BIANCO	1	YV03S1	XIOS1/5	211CC2S2160	
34	BIANCO	1	C_RPM	CAB/7	211CC2S2160	
35						210A015019
36						210A015019
37						210A015019
38						210A015019
39	BIANCO	1	C_AUXP	XOPT/8	211CC2S2160	
40						210A015019
41						210A015019
42						210A015019
43						210A015019
44	BIANCO	1	-SQ03	XCFAS/12	211CC2S2160	
45	NERO	1		S_GND145	211CC2S2160	
46						210A015019
47	BIANCO	1	-SQ13	XCFAD/12	211CC2S2160	
48	BIANCO	1	-SQ12	XPFAD/3	211CC2S2160	
49	BIANCO	1	-SQ22	XPFPD/3	211CC2S2160	
50	BIANCO	1	TX232	X232/1	211CC2S2160	
51	BIANCO	1	RX232	X232/2	211CC2S2160	
52	BIANCO	1	IN_MAIN	XOPT/7	211CC2S2160	
53						210A015019
54						210A015019
55	BIANCO	1	CAN1L	S_CANL	211CC2S2160	
56	BIANCO	1	CAN1H	S_CANH	211CC2S2160	

SICMA 2						
Polo	ID	Sezione	Sigla	Cross	Contatto_Mod	Gommino_Mod
1	NERO	1		S_GND_1	211CC2S2160	
2	NERO	1		S_GND_1	211CC2S2160	
3	BIANCO	1	-SQ61	XBAS/8	211CC2S2160	
4	BIANCO	1	SQ91A	XRS/1	211CC2S2160	
5	BIANCO	1	IN_DIG5	XOPT2/9	211CC2S2160	
6	BIANCO	1	SQ93A	XRS/3	211CC2S2160	
7	BIANCO	1	IN_DIG7	XOPT2/10	211CC2S2160	
8	BIANCO	1	-SQ51	XFCBR/7	211CC2S2160	
9	BIANCO	1	SQ91B	XRS/2	211CC2S2160	
10	BIANCO	1	IN_PRESS	XOPT/10	211CC2S2160	
11	BIANCO	1	SQ93B	XRS/4	211CC2S2160	
12	BIANCO	1	-BP72	XSENS/4	211CC2S2160	
13	BIANCO	1	-BP71	XSENS/8	211CC2S2160	
14	BIANCO	1	-BP74	XSENS/2	211CC2S2160	
15	BIANCO	1	-BP73	XSENS/6	211CC2S2160	
16	BIANCO	1	-SQ41_16	XAB/3	211CC2S2160	
17						210A015019
18						210A015019
19						210A015019
20						210A015019
21	BIANCO	1	-SQ15	XCFAD/8	211CC2S2160	
22	BIANCO	1	-SQ25	XCFPD/8	211CC2S2160	
23	BIANCO	1	-SQ05	XCFAS/8	211CC2S2160	
24						210A015019
25						210A015019
26	BIANCO	1	C_EMEP	XOPT/2	211CC2S2160	
27	BIANCO	1	C_STOP	CAB/6	211CC2S2160	
28						210A015019
29	NERO	1		S_GND229	211CC2S2160	
30	NERO	1		S_GND230	211CC2S2160	
31	BIANCO	1	SQ94A	XRS/5	211CC2S2160	
32	BIANCO	1	SQ95A	XRS/7	211CC2S2160	
33	BIANCO	1	SQ96A	XRS/9	211CC2S2160	
34						210A015019
35						210A015019
36	BIANCO	1	-SQ63	XBAS/10	211CC2S2160	
37	BIANCO	1	-SQ62	XBAS/9	211CC2S2160	
38	BIANCO	1	CAN2L	S_CAN2L	211CC2S2160	
39	BIANCO	1	CAN2H	S_CAN2H	211CC2S2160	
40	BIANCO	1	-SQ41_40	XAB/4	211CC2S2160	
41	BIANCO	1	IN_PTC	XOPT/4	211CC2S2160	
42	BIANCO	1	SQ94B	XRS/6	211CC2S2160	
43	BIANCO	1	SQ95B	XRS/8	211CC2S2160	
44	BIANCO	1	SQ96B	XRS/10	211CC2S2160	
45	BIANCO	1	-SQ41_45	XAB/5	211CC2S2160	
46	BIANCO	1	-SQ24	XCFPD/6	211CC2S2160	
47	BIANCO	1	-SQ04	XCFAS/6	211CC2S2160	
48	BIANCO	1	-SQ14	XCFAD/6	211CC2S2160	
49	BIANCO	1	-SQ34	XCFPS/6	211CC2S2160	
50	BIANCO	1	-SQ35	XCFPS/8	211CC2S2160	
51						210A015019
52						210A015019
53						210A015019
54	BIANCO	1	OUT_15V	S_15V	211CC2S2160	
55						210A015019
56						210A015019

XFCBR		
Polo	Sigla	Cross
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-
6	+VB	XFCCL .2
7	-SQ51	XFCCL .3
8	S1	XFCBF .1
9	S2	XFCBF .4
10	-	-
11	-	-
12	-	-

XFCCL		
Polo	Sigla	Cross
1	-	-
2	+VB	XFCBR .6
3	-SQ51	XFCBR .7
4	-	-

XFCBF		
Polo	Sigla	Cross
1	S1	XFCBR .8
2	-	-
3	-	-
4	S2	XFCBR .9



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione: CABLAGGIO PACCO BRACCI BOOM HARNESS 4.245.564	Pagina: 7 di 16	CL merc. 0	N° DISEGNO: 467286
	Note:		

XSSENS		
Polo	Sigla	Cross
1	OUT_15V	XPRF2.1
2	-BP74	XPRF2.2
3	OUT_15V	XPRF1.1
4	-BP72	XPRF1.2
5	OUT_15V	XPRS2.1
6	-BP73	XPRS2.2
7	OUT_15V	XPRS1.1
8	-BP71	XPRS1.2
9	+VP	XSSFI/XSANG
10	CAN2H	XSSFI/XSANG
11	CAN2L	XSSFI/XSANG
12	GND	XSSFI/XSANG

XSSFI		
Polo	Sigla	Cross
1	GND	XSENS.12
2	+VP	XSENS.9
3	GND	XSENS.12
4	CAN2H	XSENS.10
5	CAN2L	XSENS.11

XSANG		
Polo	Sigla	Cross
1	GND	XSENS.12
2	+VP	XSENS.9
3	GND	XSENS.12
4	CAN2H	XSENS.10
5	CAN2L	XSENS.11

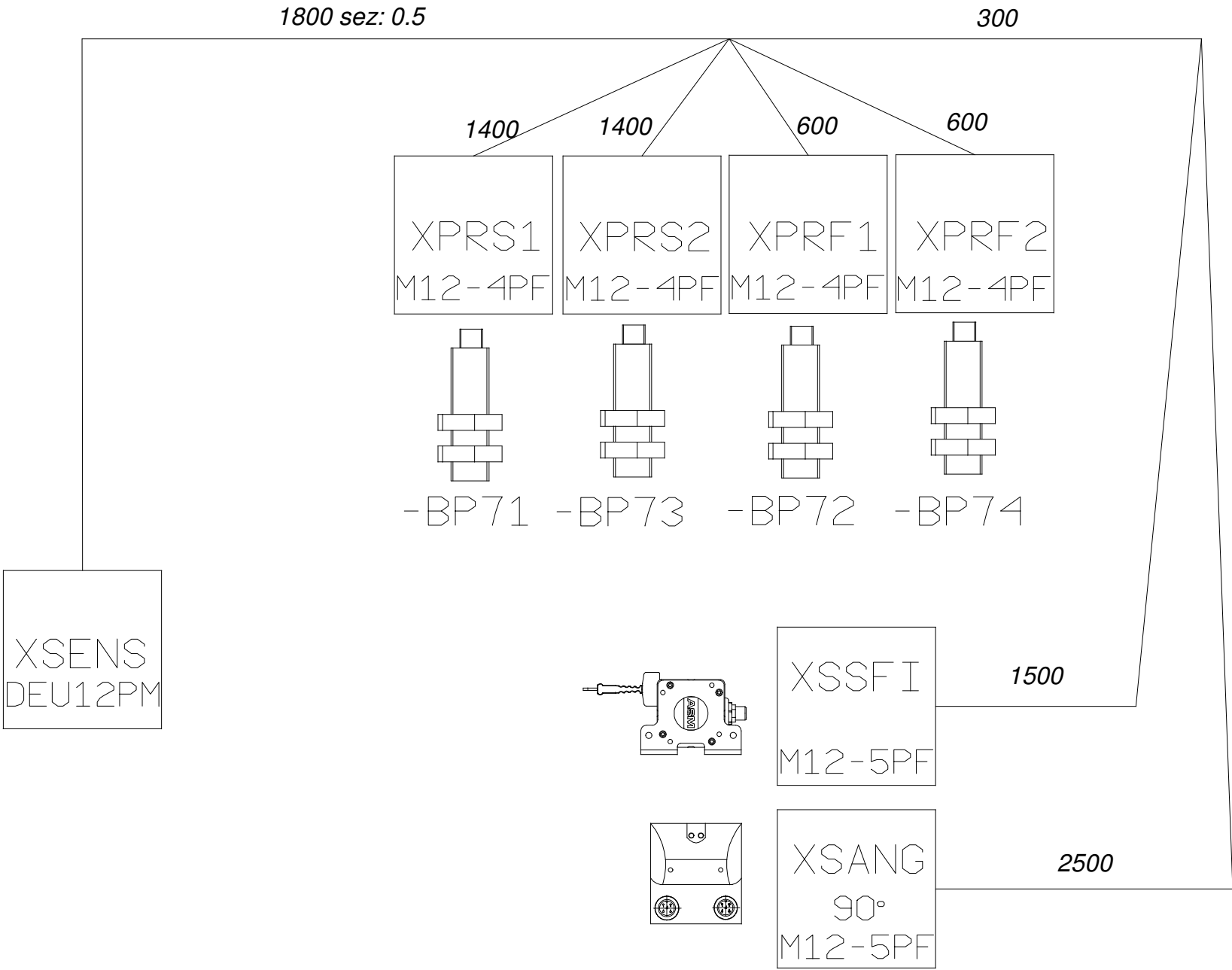
XPRS2		
Polo	Sigla	Cross
1	OUT15V	XSENS.5
2	-	-
3	-BP73	XSENS.6
4	-	-

XPRS1		
Polo	Sigla	Cross
1	OUT15V	XSENS.7
2	-	-
3	-BP71	XSENS.8
4	-	-

XPRF2		
Polo	Sigla	Cross
1	OUT15V	XSENS.1
2	-	-
3	-BP74	XSENS.2
4	-	-

XPRF1		
Polo	Sigla	Cross
1	OUT15V	XSENS.3
2	-	-
3	-BP72	XSENS.4
4	-	-

ETICHETTARE COME REV.01
LABEL AS REV.01



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione:
CABLAGGIO PRESSOSTATI
PRESSURE SWITCHES HARNESS
4.245.565

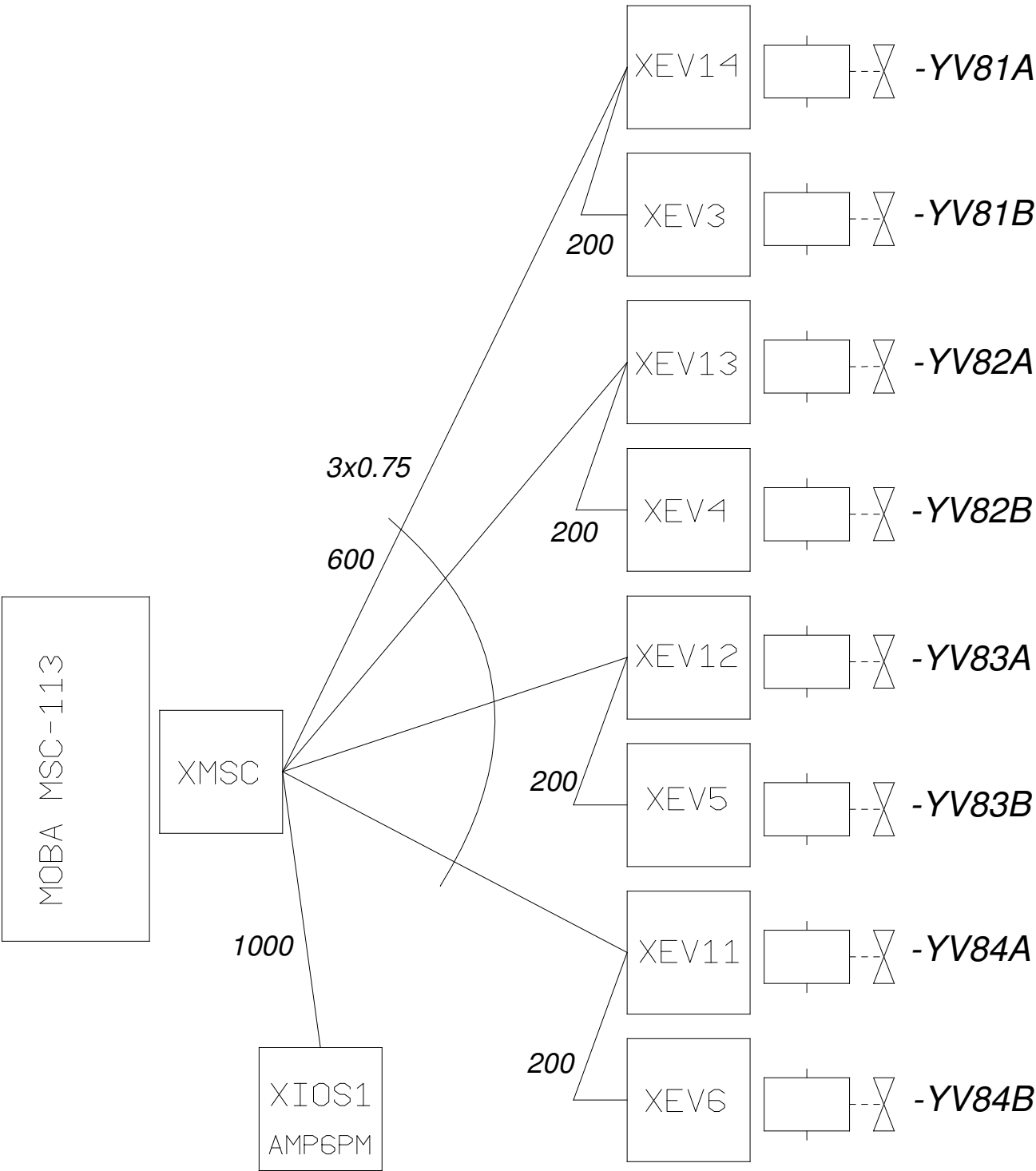
XMSC		
Polo	Sigla	Cross
1	YV81A	XEV3.2
2	YV82A	XEV4.2
3	+VP	XIO.3
4	YV83A	XEV14.2
5	YV84A	XEV13.2
6	+VP	XIO.3
7	YV81B	XEV5.2
8	+VP	XIO.3
9	YV82B	XEV6.2
10	+VP	XIO.3
11	YV83B	XEV12.2
12	YV84B	XEV11.2
13	-	-
14	-	-
15	-	-
16	-	-
17	CANL	XIO.1
18	-	-
19	CANH	XIO.2
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	+VP	XIO.3
27	GND	XIO/XEV
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	YV03S1	XIO.5
35	YV03S2	XIO.6
36	-	-

XIO		
Polo	Sigla	Cross
1	CAN1L	XMSC.17
2	CAN1H	XMSC.19
3	+VP	XMSC.n
4	GND	XMSC.27
5	YV03S1	XMSC.34
6	YV03S2	XMSC.35

XEVn		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV	vedi XMSC

+VP: 1.5mm2 da diramare in 0.5

Più largo possibile
prima della diramazione



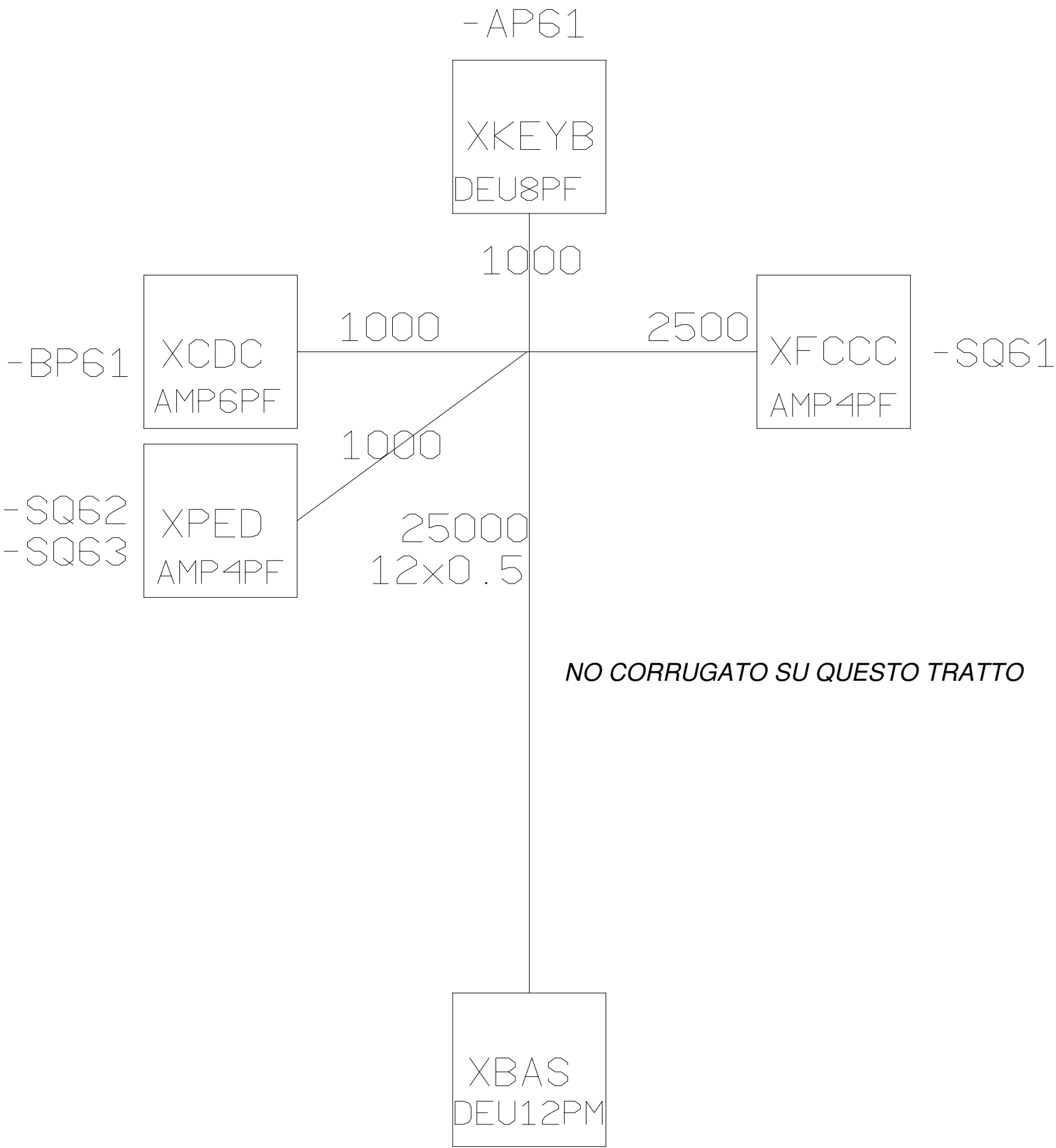
XBAS		
Polo	Sigla	Cross
1	+VP	XCDC/XKEYB
2	GND	XCDC/XKEYB
3	CAN2H	XCDC/XKEYB
4	CAN2L	XCDC/XKEYB
5	+VP	XKEYB.5
6	S5	XKEYB.6
7	+VP	SQ61/62/63
8	-SQ61	XFCCC.3
9	-SQ62	XPED.2
10	-SQ63	XPED.3
11	SP11	XOPT2.11
12	SP12	XOPT2.12

XPED		
Polo	Sigla	Cross
1	+VP	XBAS.7
2	-SQ62	XBAS.9
3	-SQ63	XBAS.10
4	-	-

XFCCC		
Polo	Sigla	Cross
1	-	-
2	+VP	XBAS.7
3	-SQ61	XBAS.8
4	-	-

XKEYB		
Polo	Sigla	Cross
1	+VP	XBAS.1
2	CAN2H	XBAS.3
3	GND	XBAS.2
4	CAN2L	XBAS.4
5	+VP	XBAS.5
6	S5	XBAS.6
7	-	-
8	-	-

XCDC		
Polo	Sigla	Cross
1	CAN2L	XBAS.4
2	CAN2H	XBAS.3
3	+VP	XBAS.1
4	GND	XBAS.2
5	+VP	XBAS.1
6	GND	XBAS.2



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione:
CABLAGGIO VERSO CESTELLO SC2313 HARNESS TO BASKET SC2313 4.245.660

Pagina: 10 di 16	CL merc. 0	N° DISEGNO: 467286
Note:		

XBAS		
Polo	Sigla	Cross
1	+VP	BUS CAN
2	GND	BUS CAN
3	CAN2H	BUS CAN
4	CAN2L	BUS CAN
5	+VP	XKEYB.5
6	S5	XKEYB.6
7	+VP	SQ61/62/63
8	-SQ61	-
9	-SQ62	XPED.2
10	-SQ63	XPED.3
11	SP11	-
12	SP12	-

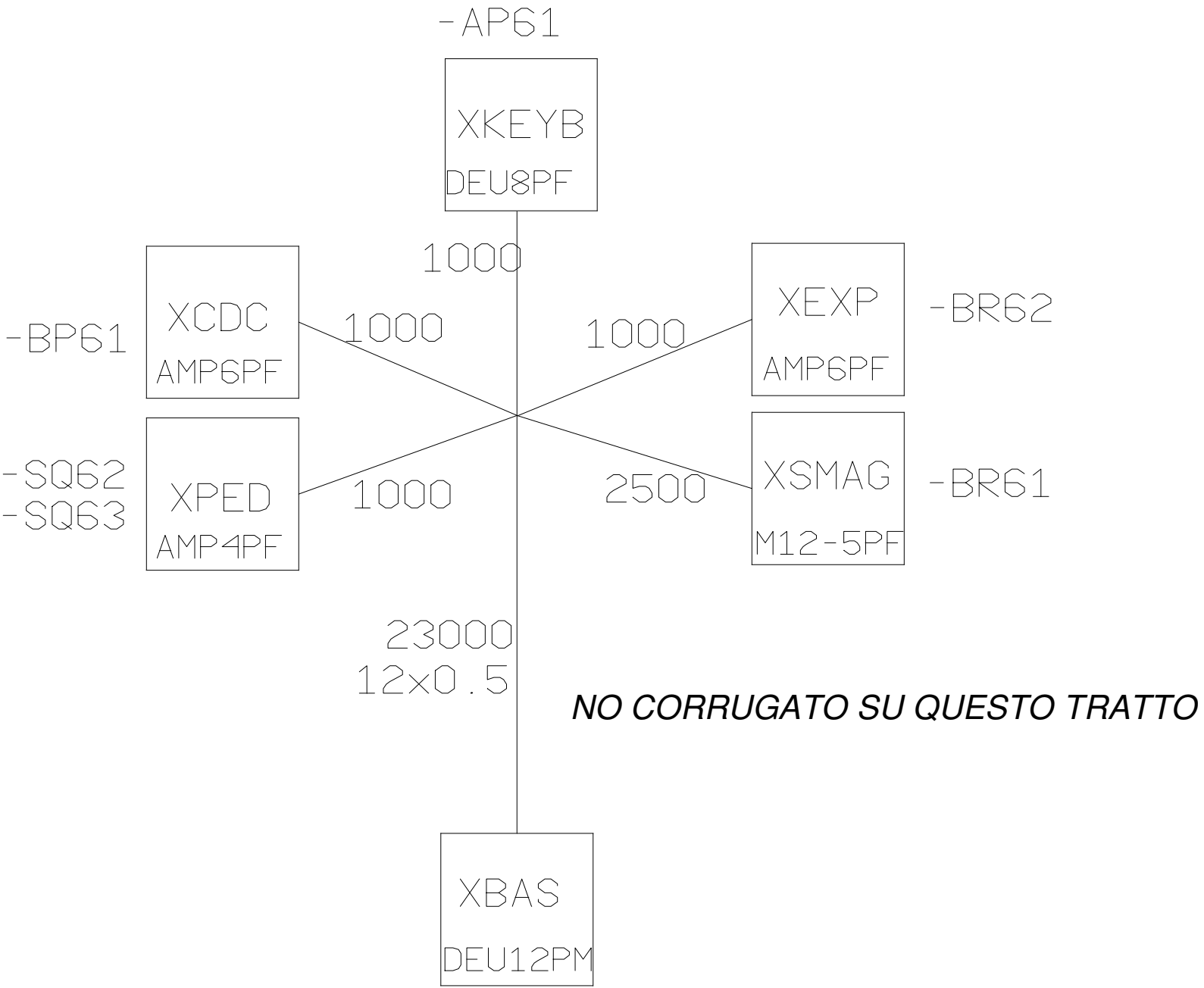
XKEYB		
Polo	Sigla	Cross
1	+VP	XBAS.1
2	CAN2H	XBAS.3
3	GND	XBAS.2
4	CAN2L	XBAS.4
5	+VP	XBAS.5
6	S5	XBAS.6
7	-	-
8	-	-

XSMAG		
Polo	Sigla	Cross
1	GND	XBAS.2
2	+VP	XBAS.1
3	GND	XBAS.2
4	CAN2H	XBAS.3
5	CAN2L	XBAS.4

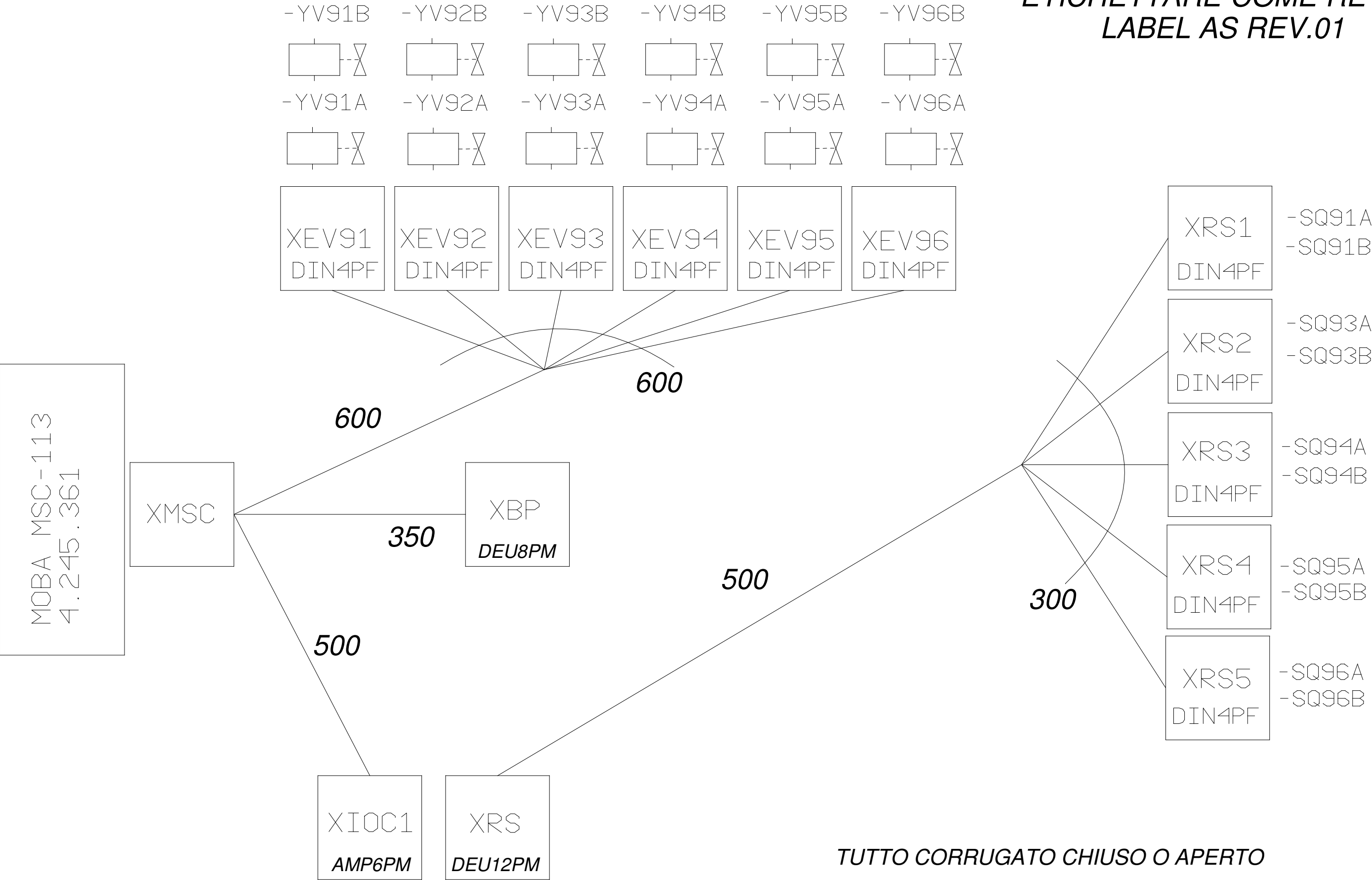
XPED		
Polo	Sigla	Cross
1	+VP	XBAS.7
2	-SQ62	XBAS.9
3	-SQ63	XBAS.10
4	-	-

XCDC		
Polo	Sigla	Cross
1	CAN2L	XBAS.4
2	CAN2H	XBAS.3
3	+VP	XBAS.1
4	GND	XBAS.2
5	+VP	XBAS.1
6	GND	XBAS.2

XEXP		
Polo	Sigla	Cross
1	CAN2L	XBAS.4
2	CAN2H	XBAS.3
3	+VP	XBAS.1
4	GND	XBAS.2
5	+VP	XBAS.1
6	GND	XBAS.2



ETICHETTARE COME REV.01
LABEL AS REV.01



TUTTO CORRUGATO CHIUSO O APERTO

XMSC		
Polo	Sigla	Cross
1	YV91A	XEV91.2
2	YV92A	XEV92.2
3	+VP	XIO.3
4	YV93A	XEV93.2
5	YV94A	XEV94.2
6	+VP	XIO.3
7	YV91B	XEV91.3
8	+VP	XIO.3
9	YV92B	XEV92.3
10	+VP	XIO.3
11	YV93B	XEV93.3
12	YV94B	XEV94.3
13	YV95A	XEV95.2
14	BP31	XBP.7
15	-	-
16	BP01	XBP.1
17	CANL	XIO.1
18	-	-
19	CANH	XIO.2
20	-	-
21	BP11	XBP.3
22	-	-
23	BP22	XBP.6
24	YV95B	XEV95.3
25	YV96A	XEV96.2
26	+VP	XIO.3
27	GND	XIO/XEV
28	BP21	XBP.5
29	BP32	XBP.8
30	-	-
31	-	-
32	BP02	XBP.2
33	BP12	XBP.4
34	YV02S1	XIO.5
35	YV02S2	XIO.6
36	YV96B	XEV96.3

XEV91		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV91A	XMSC.1
3	-YV91B	XMSC.7
4	-	-

XEV93		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV93A	XMSC.4
3	-YV93B	XMSC.11
4	-	-

XEV95		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV95A	XMSC.13
3	-YV95B	XMSC.24
4	-	-

XRS		
Polo	Sigla	Cross
1	-SQ91B	XRS1.2
2	-SQ91A	XRS1.1
3	-SQ93B	XRS2.2
4	-SQ93A	XRS2.1
5	-SQ94B	XRS3.2
6	-SQ94A	XRS3.1
7	-SQ95B	XRS4.2
8	-SQ95A	XRS4.1
9	-SQ96B	XRS5.2
10	-SQ96A	XRS5.1
11	+VP	XRSn.3
12	GND	XRSn.4

XEV92		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV92A	XMSC.2
3	-YV92B	XMSC.9
4	-	-

XEV94		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV94A	XMSC.5
3	-YV94B	XMSC.12
4	-	-

XEV96		
Polo	Sigla	Cross
1	GND	XMSC.27
2	-YV96A	XMSC.25
3	-YV96B	XMSC.36
4	-	-

XBP		
Polo	Sigla	Cross
1	-BP01	XMSC.16
2	-BP02	XMSC.32
3	-BP11	XMSC.21
4	-BP12	XMSC.33
5	-BP21	XMSC.28
6	-BP22	XMSC.23
7	-BP31	XMSC.14
8	-BP32	XMSC.29

XRS1		
Polo	Sigla	Cross
1	-SQ91A	XRS.1
2	-SQ91B	XRS.2
3	+VP	XRS.11
4	GND	XRS.12

XRS3		
Polo	Sigla	Cross
1	-SQ94A	XRS.5
2	-SQ94B	XRS.6
3	+VP	XRS.11
4	GND	XRS.12

XRS5		
Polo	Sigla	Cross
1	-SQ96A	XRS.9
2	-SQ96B	XRS.10
3	+VP	XRS.11
4	GND	XRS.12

XIO		
Polo	Sigla	Cross
1	CAN1L	XMSC.17
2	CAN1H	XMSC.19
3	+VP	XMSC.n
4	GND	XMSC.27
5	YV02S1	XMSC.34
6	YV02S2	XMSC.35

XRS2		
Polo	Sigla	Cross
1	-SQ93A	XRS.3
2	-SQ93B	XRS.4
3	+VP	XRS.11
4	GND	XRS.12

XRS4		
Polo	Sigla	Cross
1	-SQ95A	XRS.7
2	-SQ95B	XRS.8
3	+VP	XRS.11
4	GND	XRS.12

Più largo possibile
prima della diramazione

+VP: 1.5mm da diramare in 0.5

+VP: 1mm da diramare in 0.5
GND: 1mm da diramare in 0.5

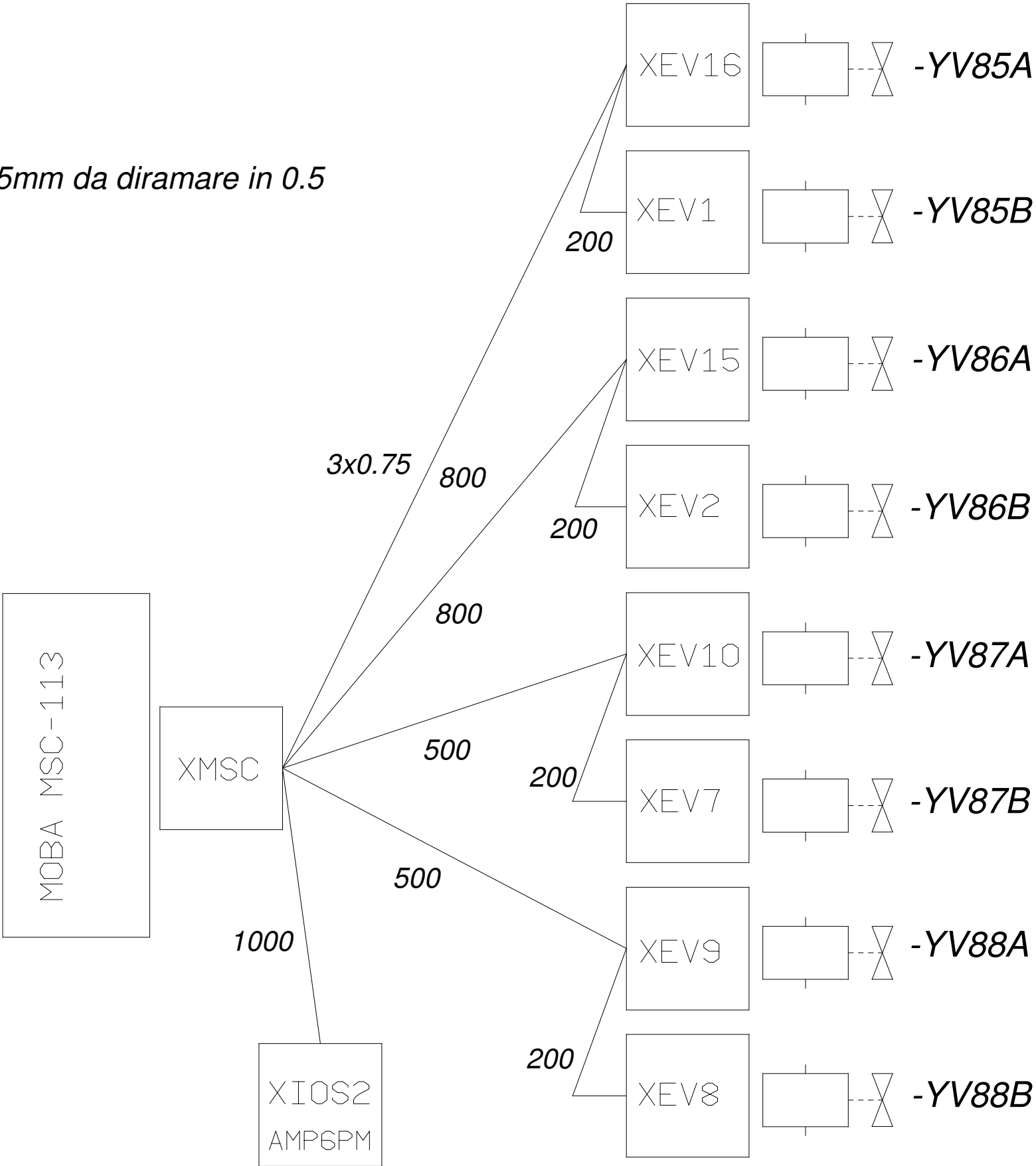
XMSC		
Polo	Sigla	Cross
1	YV85A	XEV16.2
2	YV86A	XEV10.2
3	+VP	XIO.3
4	YV87A	XEV8.2
5	YV88A	XEV7.2
6	+VP	XIO.3
7	YV85B	XEV15.2
8	+VP	XIO.3
9	YV86B	XEV9.2
10	+VP	XIO.3
11	YV87B	XEV2.2
12	YV88B	XEV1.2
13	-	-
14	-	-
15	-	-
16	-	-
17	CANL	XIO.1
18	-	-
19	CANH	XIO.2
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	+VP	XIO.3
27	GND	XIO/XEV
28	-	-
29	-	-
30	-	-
31	-	-
32	-	-
33	-	-
34	YV03S2	XIO.5
35	YV03S3	XIO.6
36	-	-

XIO		
Polo	Sigla	Cross
1	CAN1L	XMSC . 17
2	CAN1H	XMSC . 19
3	+VP	XMSC . n
4	GND	XMSC . 27
5	YV03S2	XMSC . 34
6	YV03S3	XMSC . 35

XEVn		
Polo	Sigla	Cross
1	GND	XMSC . 27
2	-YV	vedi XMSC

+VP: 1.5mm da diramare in 0.5

Più largo possibile
prima della diramazione



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.

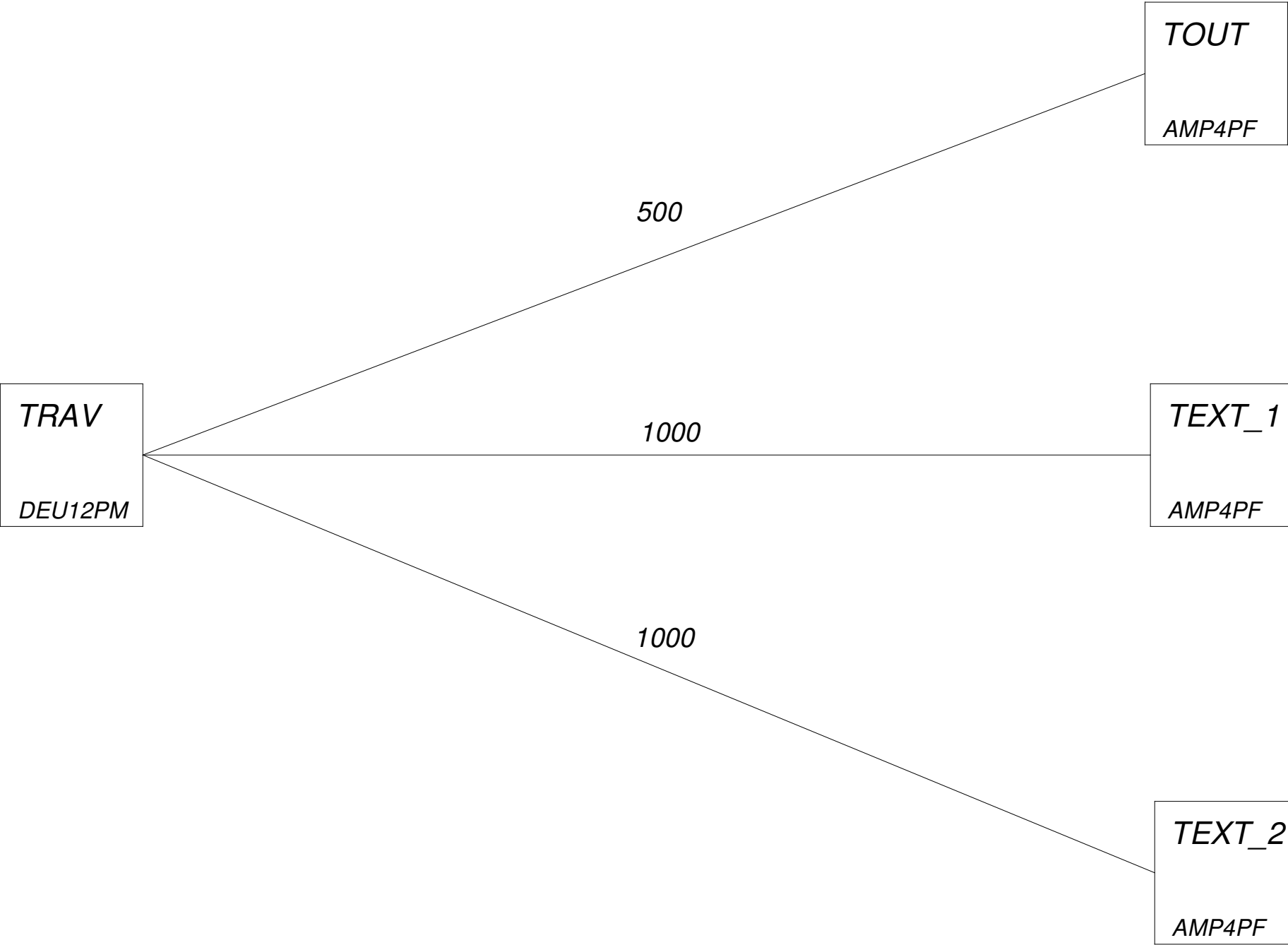


Descrizione:
INSERIMENTI WIRING 4.245.579

Pagina: 14 di 16	CL merc. 0	N° DISEGNO: 467286
Note:		

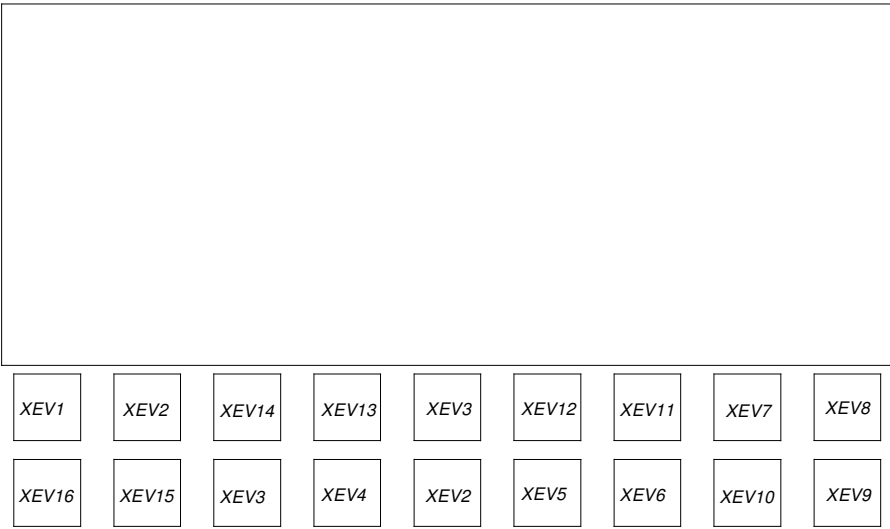
NO CORRUGATO
FILI SEZ 0,5

TRAV		
Polo	Sigla	Cross
1	-	-
2	-	-
3	-	-
4	-	-
5	+VP	TEXT_1.2
6	SQX4	TEXT_1.3
7	+VP	TEXT_2.2
8	SQX5	TEXT_2.3
9	+VP	TOUT.1
10	S1	TOUT.2
11	S2	TOUT.3
12	SQX3	TOUT.4

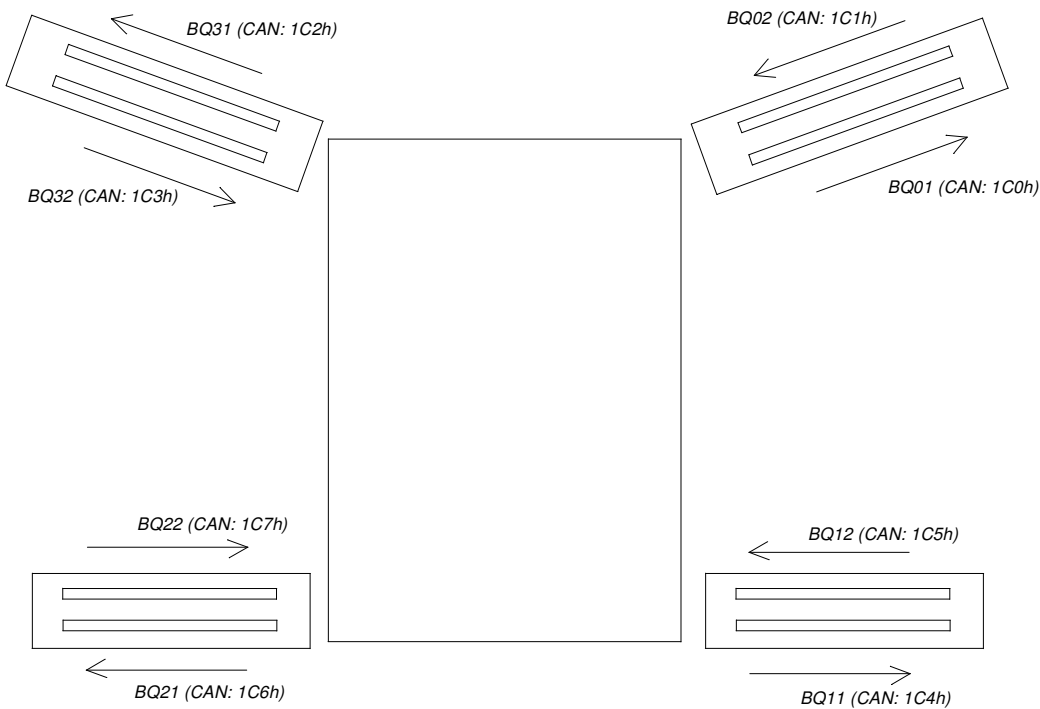


Data :	16/10/2015		Descrizione: CONNESSIONE A FC TRAVERSE CONNECTION TO CROSSBARS LS 4.245.638	Pagina: 15 di 16	CL merc. 0	N° DISEGNO: 467286
Diseg.:	DiSimoneA			Note:		
Revisione:	02					
Visto:	Falceri C.					

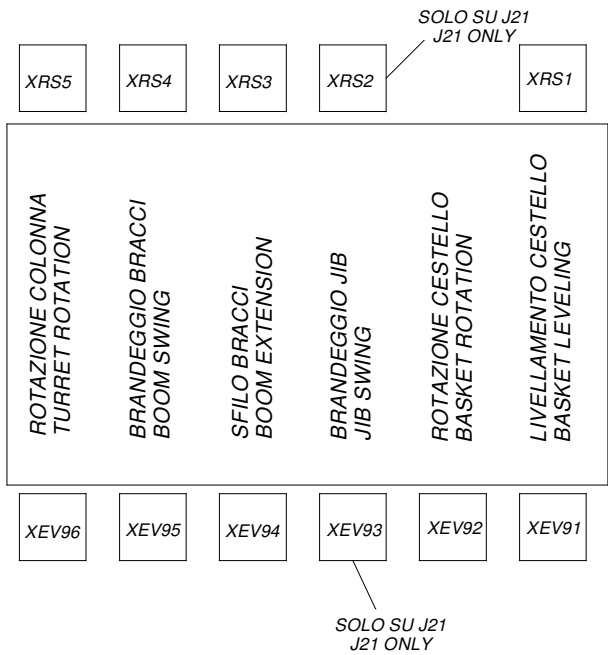
DISTRIBUTORE NEM - VISTA DALL'ALTO
NEM DISTRIBUTOR - TOP VIEW



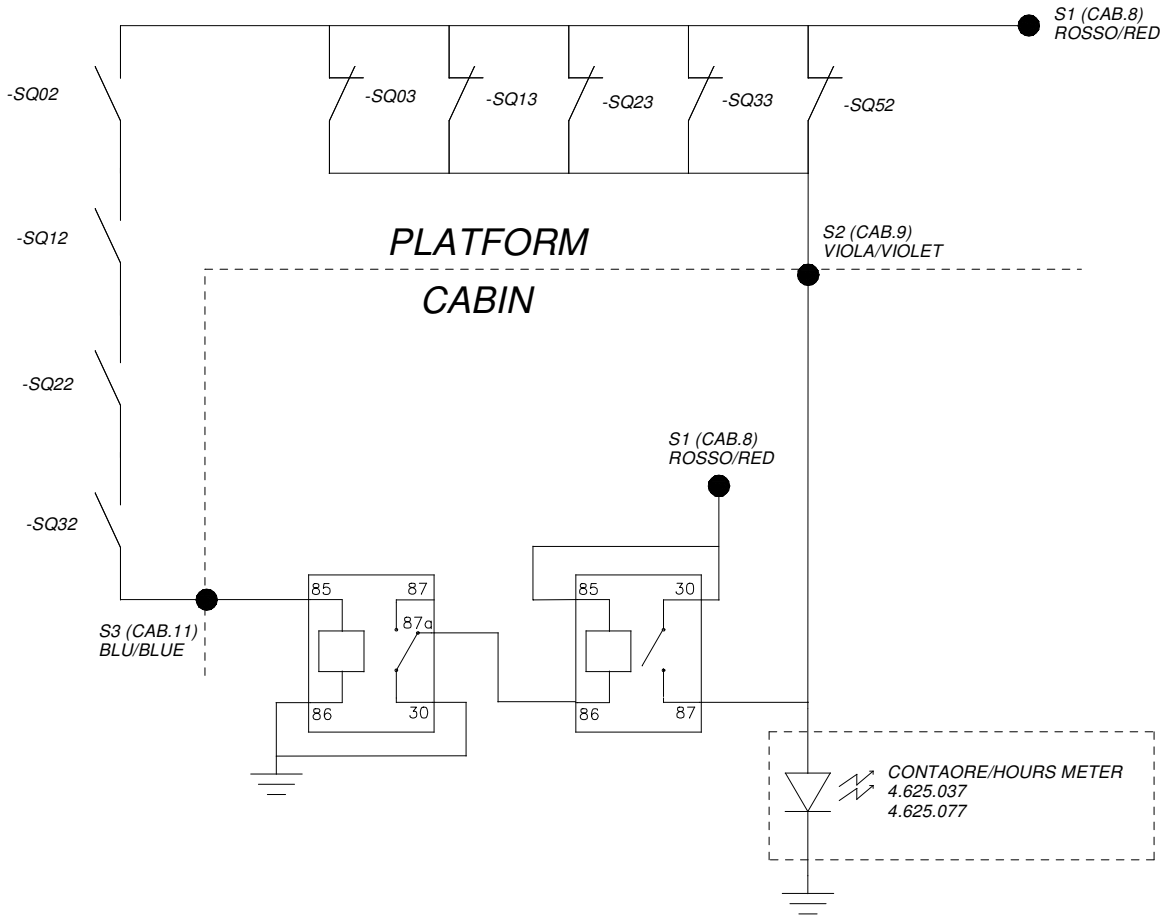
OPZ: DISPOSIZIONE SENSORI DI SFILO
OPT: EXTENSION SENSORS DISPLACEMENT



DISTRIBUTORE HAWE: VISTA DALL'ALTO
HAWE DISTRIBUTOR: TOP VIEW



CIRCUITO SPIA IN CABINA
CABIN LIGHT CIRCUIT



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.

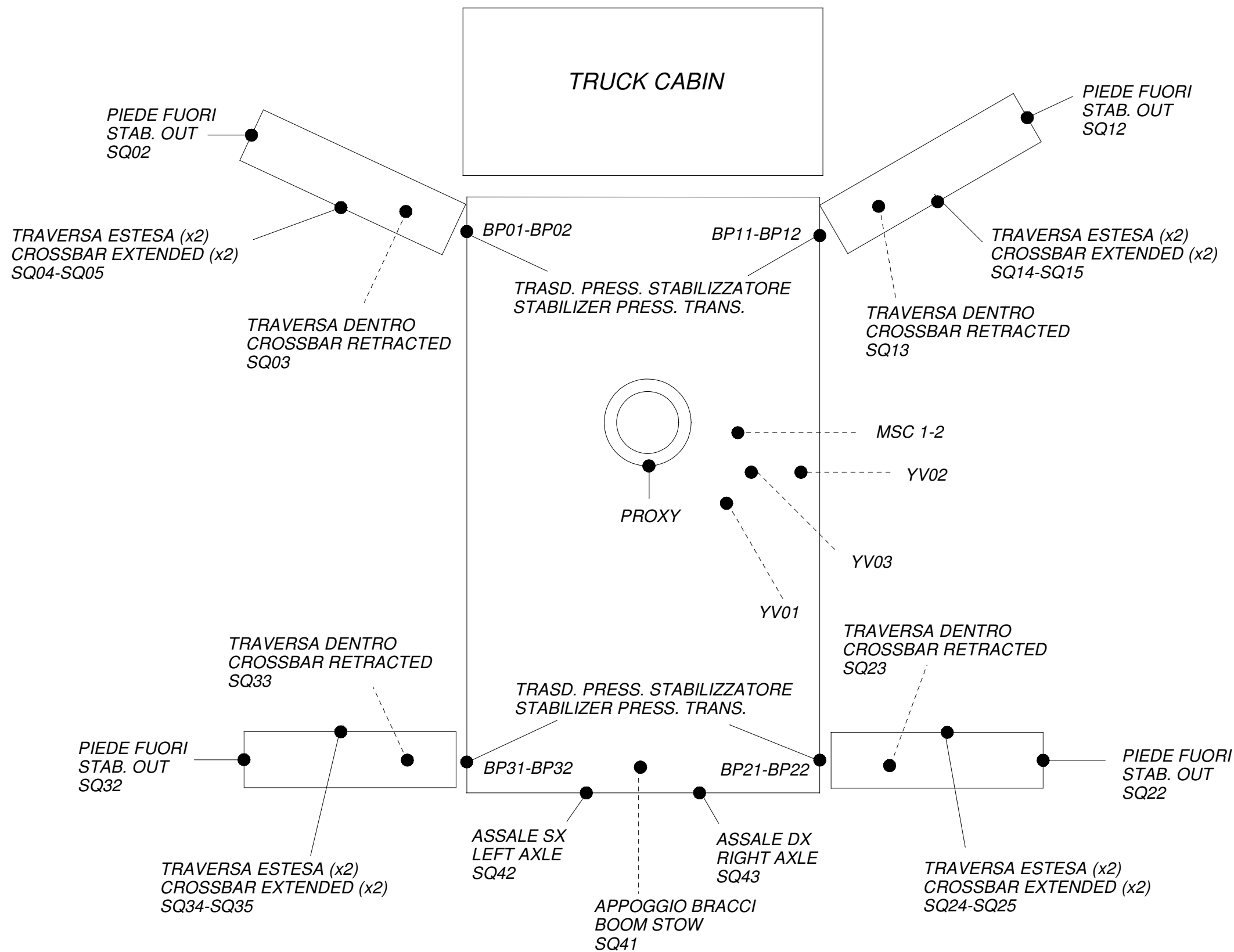


Descrizione:
POSIZIONAMENTO SENSORI E CIRCUITI SENSORS DISPLACEMENT AND CIRCUITS

Pagina: 16 di 16
Note:

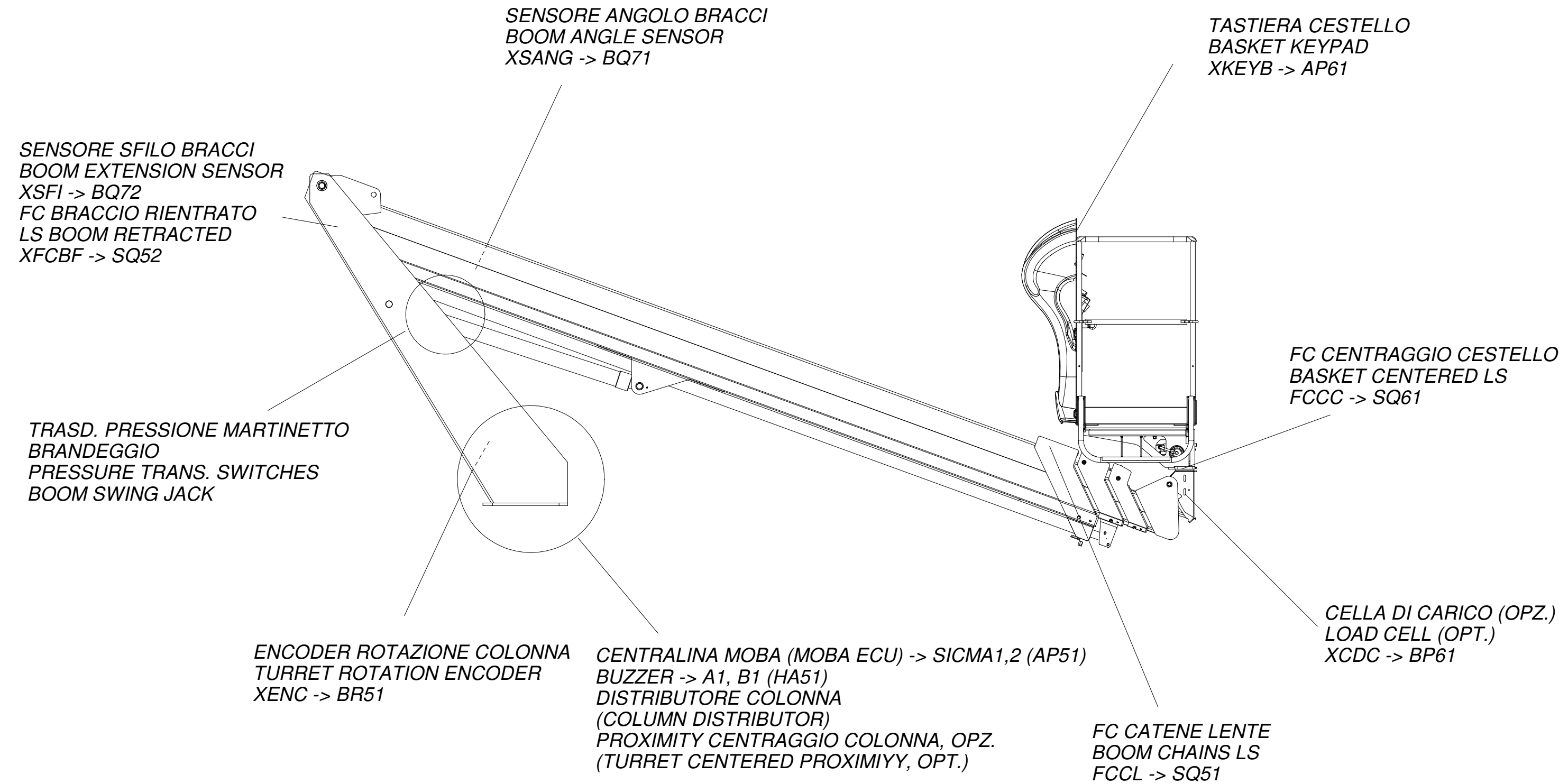
CL merc.	N° DISEGNO:
0	467286

DISPOSIZIONE DISPOSITIVI PARTE BASSA
LOWER STRUCTURE DEVICES DISPLACEMENT



Data :	16/10/2015		Descrizione: DISPOSITIVI SOTTOSTRUTTURA LOWER STRUCTURE DEVICES	ANNEX A	CL merc.	N° DISEGNO:
Diseg.:	DiSimoneA				0	467286
Revisione:	02			Note:		
Visto:	Falceri C.					

POSIZIONAMENTO SENSORI PARTE AEREA SC2313
AERIAL PART SENSORS DISPLACEMENT SC2313



Data :	16/10/2015		Descrizione: POSIZIONAMENTO SENSORI SC2313 SENSORS DISPLACEMENT SC2313	ANNEX B	CL merc.	N° DISEGNO:	
Diseg.:	DiSimoneA				0	467286	
Revisione:	02			Note:			
Visto:	Falceri C.						

POSIZIONAMENTO SENSORI PARTE AEREA SC2112J
AERIAL PART SENSORS DISPLACEMENT SC2112J

SENSORE ANGOLO BRACCI
 BOOM ANGLE SENSOR
 XSANG -> BQ71

FC CATENE LENTE
 BOOM CHAINS FC
 FCCL -> SQ51

SENSORE ANGOLO JIB
 JIB ANGLE SENSOR
 XEXP -> BR62

SENSORE SFILO BRACCI
 BOOM EXTENSION SENSOR
 XSFI -> BQ72
 FC BRACCIO RIENTRATO
 LS BOOM RETRACTED
 XFCBF -> SQ52

TASTIERA CESTELLO
 BASKET KEYPAD
 XKEYB -> AP61

TRASD. PRESSIONE MARTINETTO
 BRANDEGGIO
 PRESSURE TRANS. SWITCHES
 BOOM SWING JACK

ENCODER ROTAZIONE COLONNA
 TURRET ROTATION ENCODER
 XENC -> BR51

CENTRALINA MOBA (MOBA ECU) -> SICMA1,2 (AP51)
 BUZZER -> A1, B1 (HA51)
 DISTRIBUTORE COLONNA
 (COLUMN DISTRIBUTOR)
 PROXIMITY CENTRAGGIO COLONNA, OPZ.
 (TURRET CENTERED PROXIMITY, OPT.)

CELLA DI CARICO
 LOAD CELL
 XCDC -> BP61

SENSORE ROTAZIONE CESTA
 BASKET ROTATION SENSOR
 XSMAG -> BR61

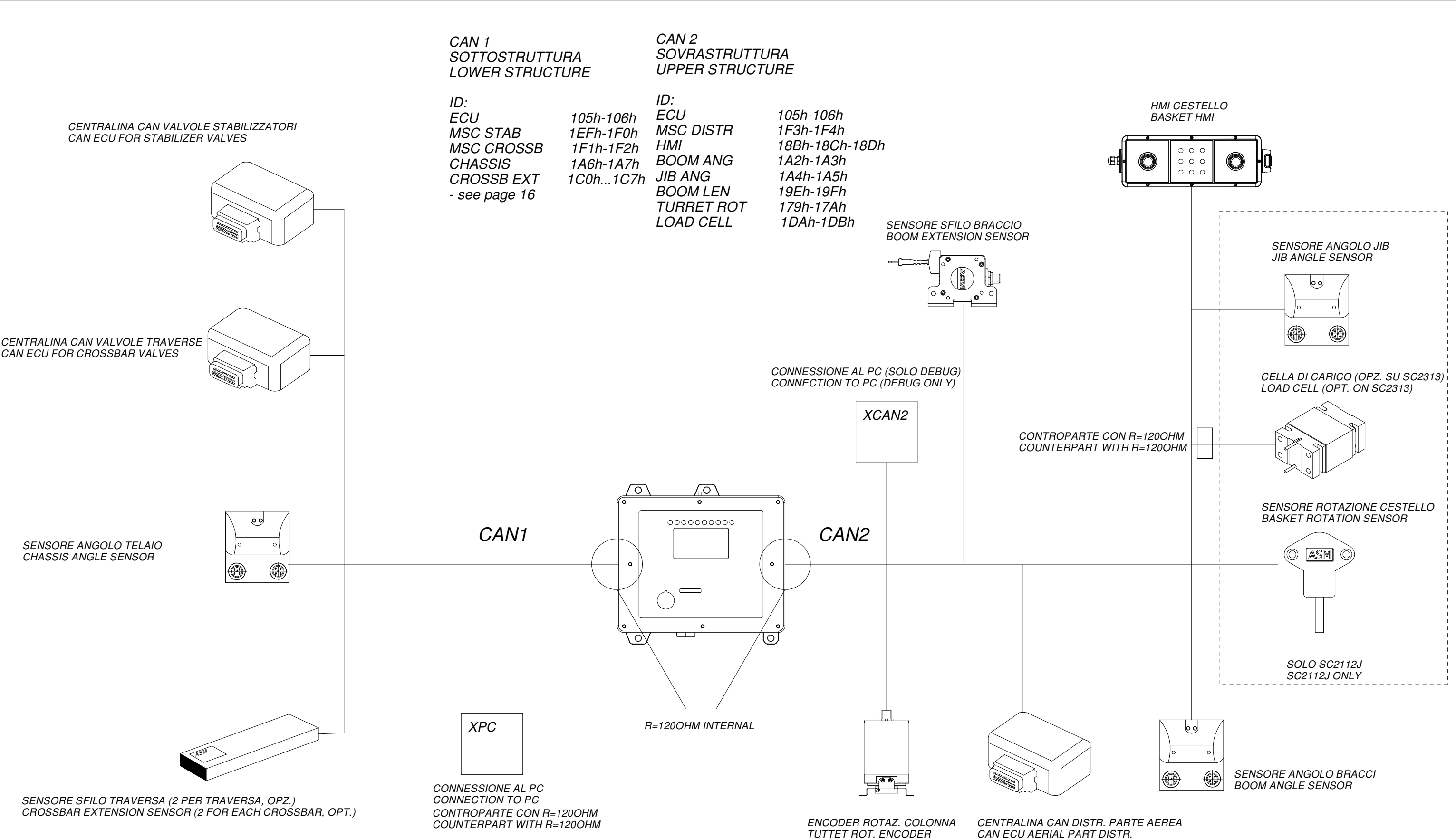
Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione:
POSIZIONAMENTO SENSORI SC2112J SENSORS DISPLACEMENT SC2112J

ANNEX C
Note:

CL merc.	N° DISEGNO:
0	467286



Data :	16/10/2015
Diseg.:	DiSimoneA
Revisione:	02
Visto:	Falceri C.



Descrizione:
RETE CAN CAN NETWORK

ANNEX D
Note:

CL merc.	N° DISEGNO:
0	467286

LIMIT SWITCHES	
Name	Function
SQ02	Stab out front left
SQ03	Crossbar retracted front left
SQ04	Crossbar extended front left 1
SQ05	Crossbar extended front left 2
SQ12	Stab out front right
SQ13	Crossbar retracted front right
SQ14	Crossbar extended front right 1
SQ15	Crossbar extended front right 2
SQ22	Stab out rear right
SQ23	Crossbar retracted rear right
SQ24	Crossbar extended rear right 1
SQ25	Crossbar extended rear right 2
SQ32	Stab out rear left
SQ33	Crossbar retracted rear left
SQ34	Crossbar extended rear left 1
SQ35	Crossbar extended rear left 2
SQ41	Boom stow
SQ42	Left axle
SQ43	Right axle
SQ51	Boom chains
SQ52	Boom out
SQ61	Basket centered
SQ62	Deadman pedal 1
SQ63	Deadman pedal 2

SENSORS AND OTHERS	
Name	Function
BQ01	Front left crossbar extension 1
BQ02	Front left crossbar extension 2
BQ11	Front right crossbar extension 1
BQ12	Front right crossbar extension 2
BQ21	Rear right crossbar extension 1
BQ22	Rear right crossbar extension 2
BQ31	Rear left crossbar extension 1
BQ32	Rear left crossbar extension 2
BQ51	Chassis angle
BR51	Turret rotation encoder
BQ71	Boom angle
BQ72	Boom extension
AP81	Remote IO stabilizers solenoids
AP82	Remote IO crossbars solenoids
AP91	Remote IO turret
AP61	Basket keypad with joystick
BR61	Basket rotation angle
BP61	Basket load

NEM DISTRIBUTOR SOLENOIDS	
Name	Function
YV02	Aerial part selection
YV03	Lower part selection
YV81A	Rear right stabilizer IN
YV81B	Rear right stabilizer OUT
YV82A	Rear left stabilizer IN
YV82B	Rear left stabilizer OUT
YV83A	Front left stabilizer IN
YV83B	Front left stabilizer OUT
YV84A	Front right stabilizer IN
YV84B	Front right stabilizer OUT
YV85A	Rear right crossbar OUT
YV85B	Rear right crossbar IN
YV86A	Rear left crossbar OUT
YV86B	Rear left crossbar IN
YV87A	Front left crossbar OUT
YV87B	Front left crossbar IN
YV88A	Front right crossbar OUT
YV88B	Front right crossbar IN

HAWE DISTRIBUTOR SOLENOIDS	
Name	Function
YV90	Main
YV91A	Basket outward
YV91B	Basket inward
YV92A	Basket rotation CW
YV92B	Basket rotation CCW
YV93A	Jib UP
YV93B	Jib DOWN
YV94A	Boom out
YV94B	Boom in
YV95A	Boom up
YV95B	Boom down
YV96A	Turret rotation CW
YV96B	Turret rotation CCW

PRESSURE TRANSDUCERS	
Name	Function
BP01	Front left stabilizer piston
BP02	Front left stabilizer bottom
BP11	Front right stabilizer piston
BP12	Front right stabilizer bottom
BP21	Rear right stabilizer piston
BP22	Rear right stabilizer bottom
BP31	Rear left stabilizer piston
BP32	Rear left stabilizer bottom
BP71	Boom swing jack piston 1
BP72	Boom swing jack bottom 1
BP73	Boom swing jack piston 2
BP74	Boom swing jack bottom 2

Data :	16/10/2015		Descrizione: LIST OF DEVICES	ANNEX E	CL merc.	N° DISEGNO:
Diseg.:	DiSimoneA				0	467286
Revisione:	02			Note:		
Visto:	Falceri C.					

OIL & STEEL

AERIAL PLATFORMS

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