

EXHIBIT 4

Block Diagram & Schematics

DIVISIONE: R I C E R C A

BMPEPGM1 *** ESPLOSIONE SINGOLO LIVELLO *** ELAB.DEL: 02/03/98

COD.ART.: 6386641050 E86 SONDA - INSIEME ELETTRONICO USA PAG.: 1

PROG: 0310 DATA ISRT: 04/06/97 TIPO RICH: DT. 02/03/98 QTA': 1

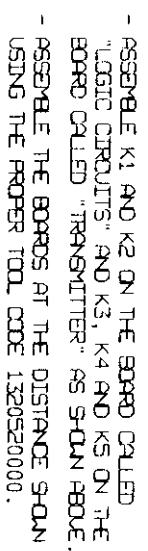
PREC.D'USO: SENSIBILE A CARICHE STATICHE - VEDI N.T. 0993700601

DIMOSTRATIVO	PREF	DESCRIZIONE	D
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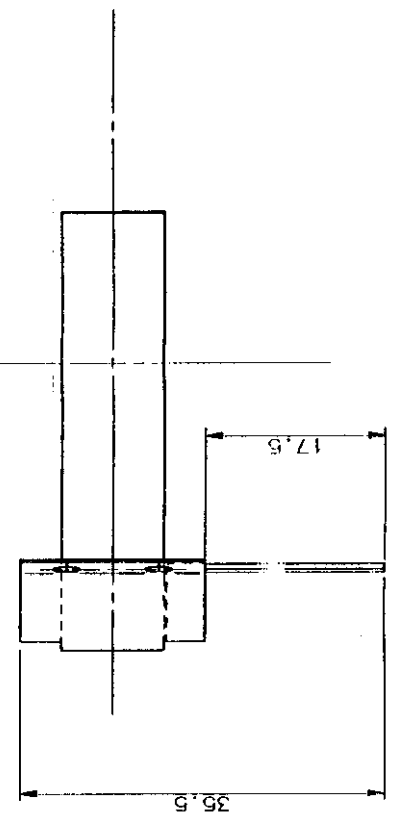
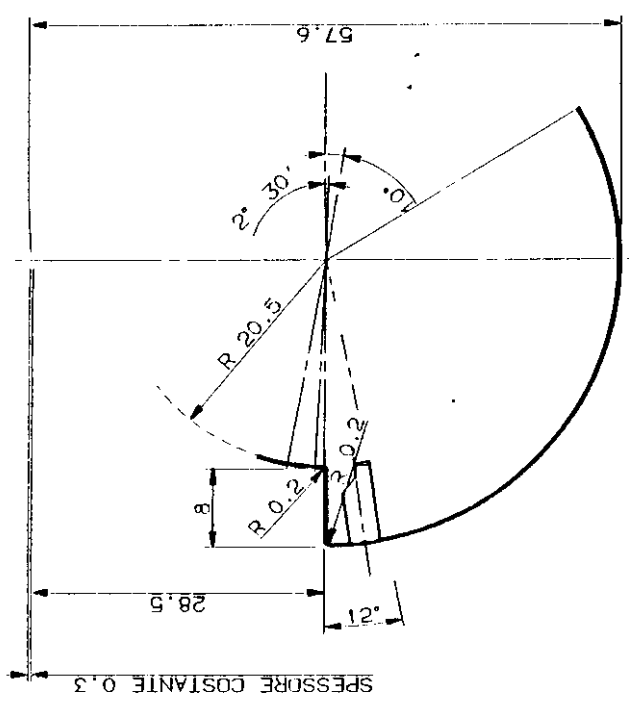
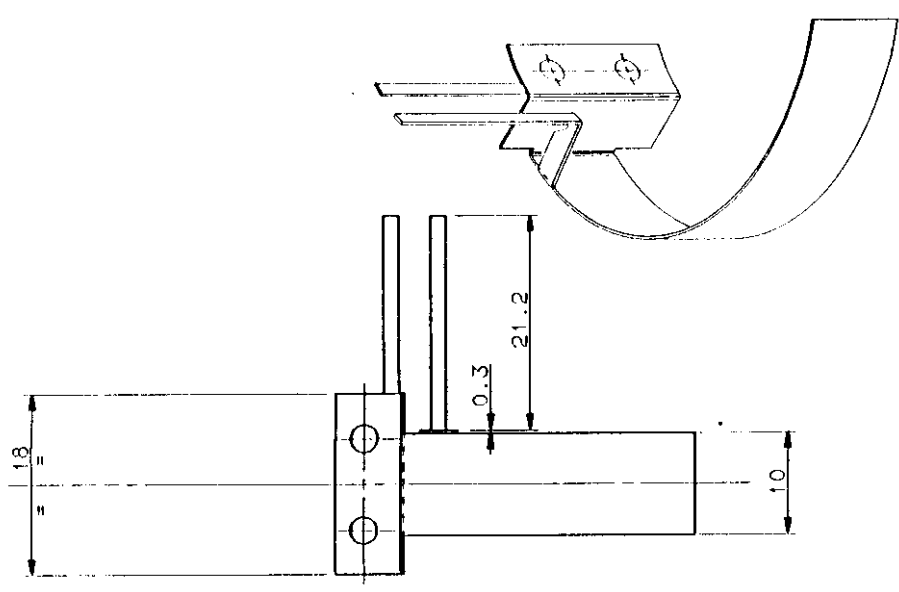
6386641050D	01	MONTAGGIO E86 SONDA - INS.ELET.USA	
6386641050F	02	DESCRIZ. E86 SONDA - INS.ELET.USA	

PH	COMPONENTE	US	PREF	DESCRIZIONE	D	UM	QTA'
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4140S06002	M	K001	J	332.1671.106.440	P=1.27	6P	SN.	1,0
4140S07001	M	K002	J	332.1671.107.440	P=1.27	7P	SN.	1,0
4140S06002	M	K003	J	332.1671.106.440	P=1.27	6P	SN.	1,0
4140S04002	M	K004	J	332.1671.104.440	P=1.27	4P	SN.	1,0
4140102002	M	K005	J	75160-302-2	PIN	1X2P-DS	T BERG	1,0
6386640400		0001		E86 SONDA - CIRCUITI LOGICI USA				1,0
6386640100		0002		E86 SONDA - ALIMENTATORE				1,0
6386640500		0003		E86 SONDA - TRASMETTITORE USA				1,0
6386640600		0004		E86 SONDA - RICEVITORE USA				1,0

[illegible]

PRELIMINAR



DISEGNO ESEGUITO CON SISTEMA CAD
Non sono consentite variazioni o modifiche manuali

INVIARE SECONDO NORMA N. 093700606

Prodotto e distribuito per la prima volta
Data: 11/01/1991
Firma: [Signature]
Luogo: [Location]

PROVA DI SENSIBILIZZAZIONE		MILITARE		FORM	
FERRARI A.		04/12/97		A2	
3/1		-		-	
ANTENNA (MISCELA)		-		-	
MARPOSS S.p.A.		110119191110815		-	

DIVISIONE: R I C E R C A

BMPEPGM1 *** ESPLOSIONE SINGOLO LIVELLO *** ELAB.DEL: 02/03/98

COD.ART.: 6386640100 E86 SONDA - ALIMENTATORE PAG.: 1

PROG: 0394 DATA ISRT: 24/11/93 TIPO RICH: DT. 02/03/98 QTA': 1

PREC.D'USO: SENSIBILE A CARICHE STATICHE - VEDI N.T. 0993700601

DIMOSTRATIVO	PREF	DESCRIZIONE	D
6386640100E	01	ELETTRICO E86 SONDA - ALIMENTATORE A	
6386640100C	02	CABLAGGIO E86 SONDA - ALIMENTATORE A	
6386640100H	03	NOTE DI RIPARAZIONE	
6386640100I	04	PIANO STANDARD DI COLLAUDO E B.I.	

PH	COMPONENTE	US	PREF	DESCRIZIONE	D	UM	QTA'
4207222001	M C001	C	TSMD 22	M 20% 20V D=7343			1,0
4212710021	M C002	C	1M BP 16V Z5U 1206	*NON USARE*			1,0
4212310003	M C003	C	MCSMD 100	P 5% 50V NPO 0805			1,0
4212410012	M C004	C	MCSMD 1	N 10% 50V X7R 0805			1,0
4207222001	M C005	C	TSMD 22	M 20% 20V D=7343			1,0
4212310003	M C006	C	MCSMD 100	P 5% 50V NPO 0805			1,0
4207210001	M C007	C	TSMD 10	M 20% 20V C=6032			1,0
4212710021	M C008	C	1M BP 16V Z5U 1206	*NON USARE*			1,0
4212710021	M C009	C	1M BP 16V Z5U 1206	*NON USARE*			1,0
4212710021	M C010	C	1M BP 16V Z5U 1206	*NON USARE*			1,0
4212647021	M C011	C	MCSMD 470	N 8P 50V Y5V 1206			1,0
4212333003	M C012	C	MCSMD 330	P 5% 50V NPO 0805			1,0
4212210003	M C013	C	MCSMD 10	P 5% 50V NPO 0805			1,0
4212333003	M C014	C	MCSMD 330	P 5% 50V NPO 0805			1,0
4212210003	M C015	C	MCSMD 10	P 5% 50V NPO 0805			1,0
4212322003	M C016	C	MCSMD 220	P 5% 50V NPO 0805			1,0
4212222003	M C017	C	MCSMD 22	P 5% 50V NPO 0805			1,0
4212510012	M C018	C	MCSMD 10	N 10% 50V X7R 0805			1,0
4212610011	M C019	C	100N 10% 50V X7R 1206	*NON USARE*			1,0
4218040200	M D001	D	SCH-SOT23 BAT54	0,2A 30V			1,0
4218010201	M D002	D	SI-SOT23 BAV70	DUAL 70V			1,0
4218040001	M D003	D	SCH-SOT23 BAS40-04	DUAL 40V			1,0
4226544001	M IC01	I	REG-S08	MAX639CSA R.SWITCH.			1,0
4224160132	M IC02	I	HC-S014	74HC132			1,0
4147400032	M L001	IND.	8RDB TOKO 470UH	0.15A Q=30			1,0
4222010207	M Q001	Q	NPN-SOT23 BCX70K	45V 100MA			1,0
4222020200	M Q002	Q	PNP-SOT23 BCX71K	45V 100MA			1,0

DIVISIONE: R I C E R C A

BMPEPGM1

*** ESPLOSIONE SINGOLO LIVELLO ***

ELAB.DEL: 02/03/98

COD.ART.: 6386640100

E86 SONDA - ALIMENTATORE

PAG.: 2

PROG: 0394

DATA ISRT: 24/11/93

TIPO RICH: DT. 02/03/98

QTA': 1

PREC.D'USO: SENSIBILE A CARICHE STATICHE - VEDI N.T. 0993700601

PH	COMPONENTE	US	I	PREF	DESCRIZIONE			D	UM	QTA'
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4222020200	M Q003	Q	PNP-SOT23		BCX71K	45V	100MA			1,0
4222010207	M Q004	Q	NPN-SOT23		BCX70K	45V	100MA			1,0
4222010207	M Q005	Q	NPN-SOT23		BCX70K	45V	100MA			1,0
4222020200	M Q006	Q	PNP-SOT23		BCX71K	45V	100MA			1,0
4222020200	M Q007	Q	PNP-SOT23		BCX71K	45V	100MA			1,0
4222010207	M Q008	Q	NPN-SOT23		BCX70K	45V	100MA			1,0
4222020200	M Q009	Q	PNP-SOT23		BCX71K	45V	100MA			1,0
4201147009	M R001	R	SMD	4,7	R 5% TC200	0,1W	0805			1,0
4201710002	M R002	R	SMD	1	M 1% TC100	0,1W	0805			1,0
4201633202	M R003	R	SMD	332	K 1% TC100	0,1W	0805			1,0
4201410009	M R004	R	SMD	1	K 5% TC200	0,1W	0805			1,0
4201710002	M R005	R	SMD	1	M 1% TC100	0,1W	0805			1,0
4201646402	M R006	R	SMD	464	K 1% TC100	0,1W	0805			1,0
4201410009	M R007	R	SMD	1	K 5% TC200	0,1W	0805			1,0
4201647009	M R008	R	SMD	470	K 5% TC200	0,1W	0805			1,0
4201710009	M R009	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201610009	M R010	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201510009	M R011	R	SMD	10	K 5% TC200	0,1W	0805			1,0
4201633009	M R012	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201633009	M R013	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201468009	M R014	R	SMD	6,8	K 5% TC200	0,1W	0805			1,0
4201547009	M R015	R	SMD	47	K 5% TC200	0,1W	0805			1,0
4201710009	M R016	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201710009	M R017	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201610009	M R018	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201547009	M R019	R	SMD	47	K 5% TC200	0,1W	0805			1,0
4201710009	M R020	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201710009	M R021	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201610009	M R022	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201610009	M R023	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201710009	M R024	R	SMD	1	M 5% TC200	0,1W	0805			1,0
4201610009	M R025	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201610009	M R026	R	SMD	100	K 5% TC200	0,1W	0805			1,0
4201633009	M R027	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201633009	M R028	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201633009	M R029	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201633009	M R030	R	SMD	330	K 5% TC200	0,1W	0805			1,0
4201710009	M R031	R	SMD	1	M 5% TC200	0,1W	0805			1,0

DIVISIONE: R I C E R C A

BMPEPGM1 *** ESPLOSIONE SINGOLO LIVELLO *** ELAB.DEL: 02/03/98

COD.ART.: 6386640100 E86 SONDA - ALIMENTATORE PAG.: 3

PROG: 0394 DATA ISRT: 24/11/93 TIPO RICH: DT. 02/03/98 QTA': 1

PREC.D'USO: SENSIBILE A CARICHE STATICHE - VEDI N.T. 0993700601

PH	COMPONENTE	US	PREF	DESCRIZIONE		DUM	QTA'
	4201710009	M R032	R SMD	1	M 5% TC200 0,1W 0805		1,0
	4201533009	M R033	R SMD	33	K 5% TC200 0,1W 0805		1,0
	4201647009	M R034	R SMD	470	K 5% TC200 0,1W 0805		1,0
	4201310009	M R035	R SMD	100	R 5% TC200 0,1W 0805		1,0
	4201710009	M R036	R SMD	1	M 5% TC200 0,1W 0805		1,0
	6830313800	0001	CS E86 SONDA - ALIMENTATORE			C	1,0
P	1019911080	0002	SCHERMO				1,0