



AEROSTAR S.A.

GRUP INDUSTRIAL AERONAUTIC-BACAU-ROMANIA

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MAINTENANCE MANUAL FESTIVAL R40S, APPENDIX #3

ELECTRIC DIAGRAMS ALBUM FOR FESTIVAL R40S AIRPLANE

Serial number:

Registration:

Owner:

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.....
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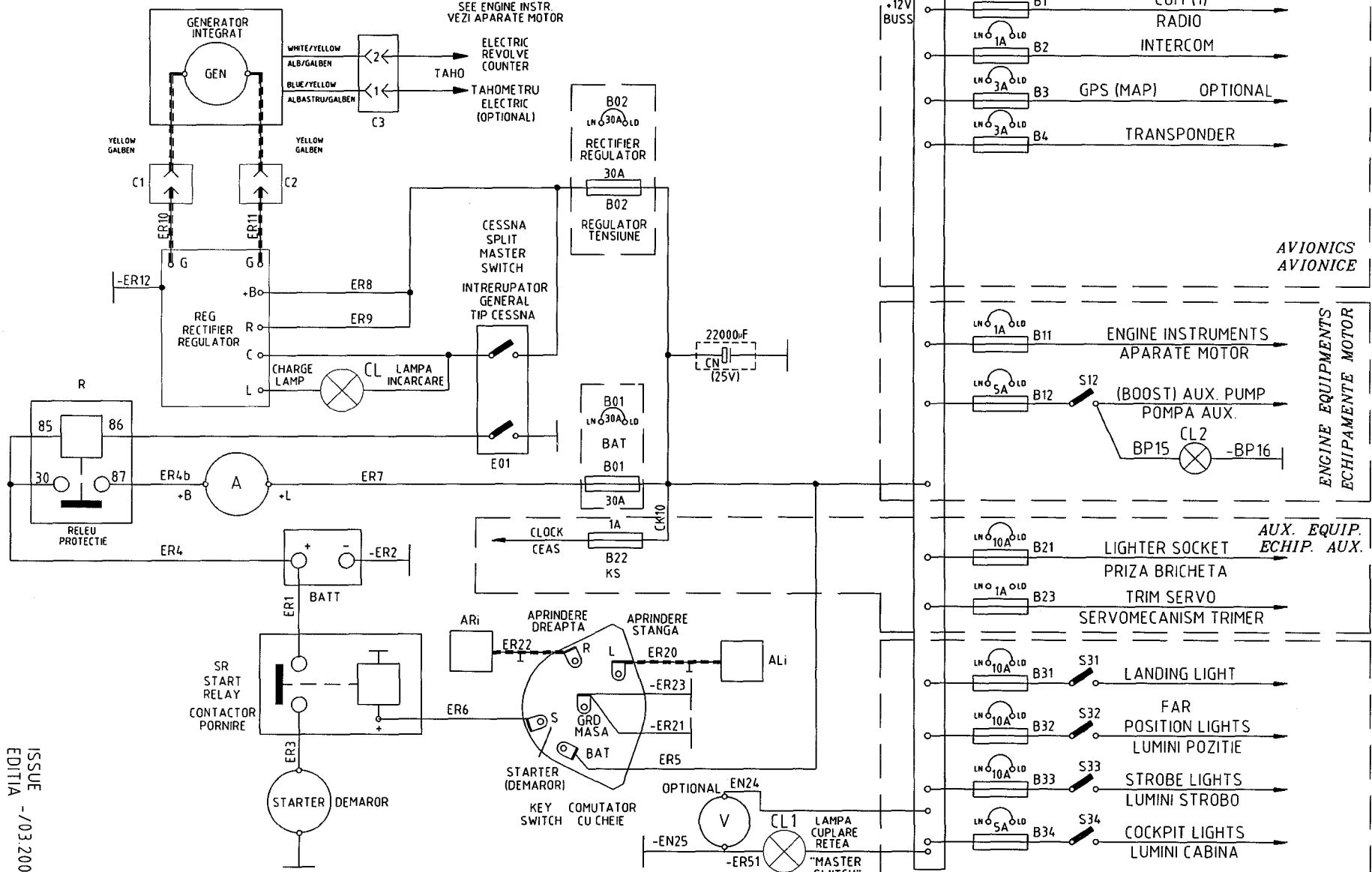
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CHANGE NOTIFICATION
EVIDENTA MODIFICARILOR

SERIAL NUMBER	SECTION CHANGED	NAME	SIGNATURE	DATE

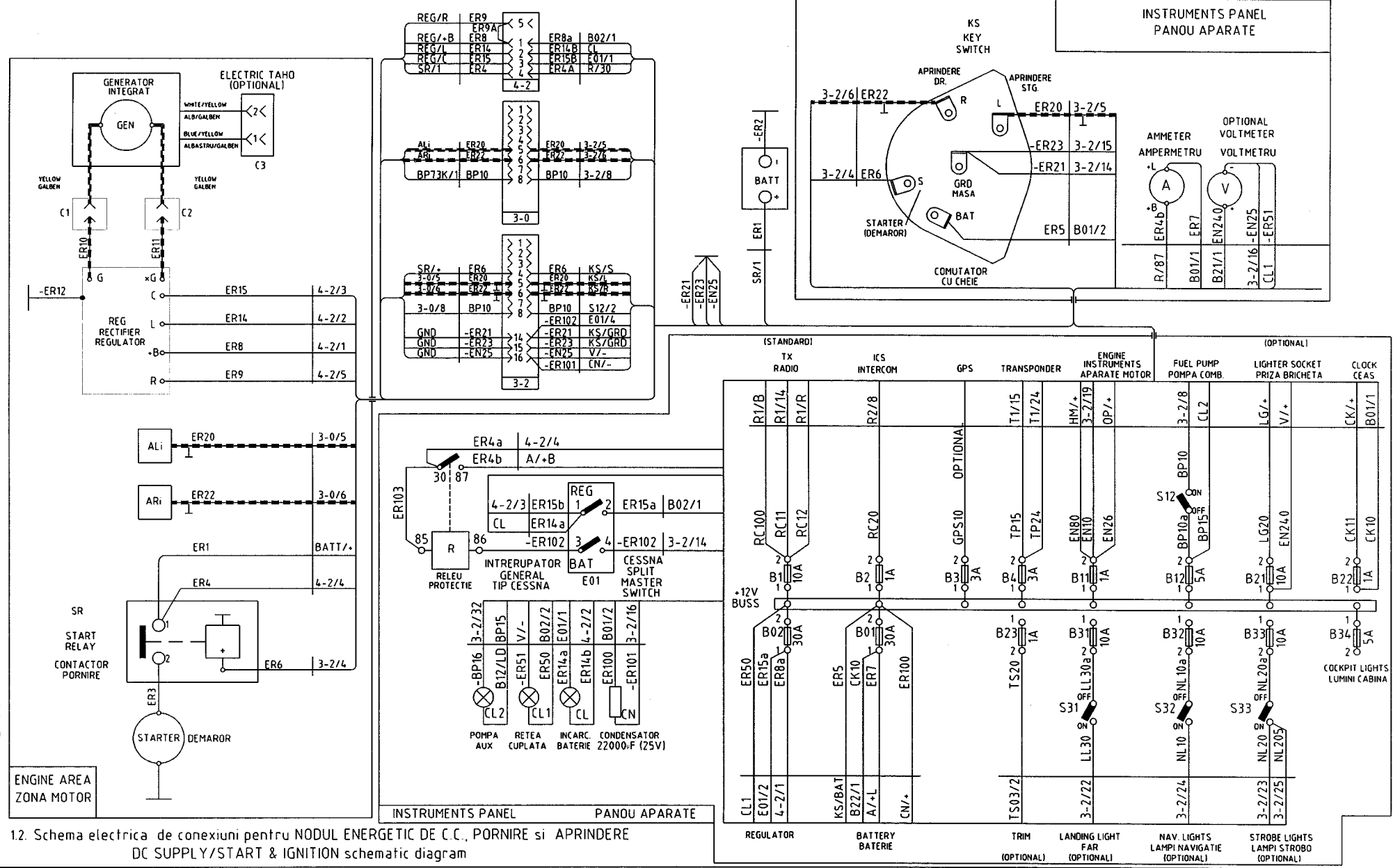
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1.1 Schema electrica de principiu pentru NODUL ENERGETIC DE C.C., PORNIRE si APRINDERE
DC SUPPLY/START & IGNITION schematic diagram

OPTIONAL

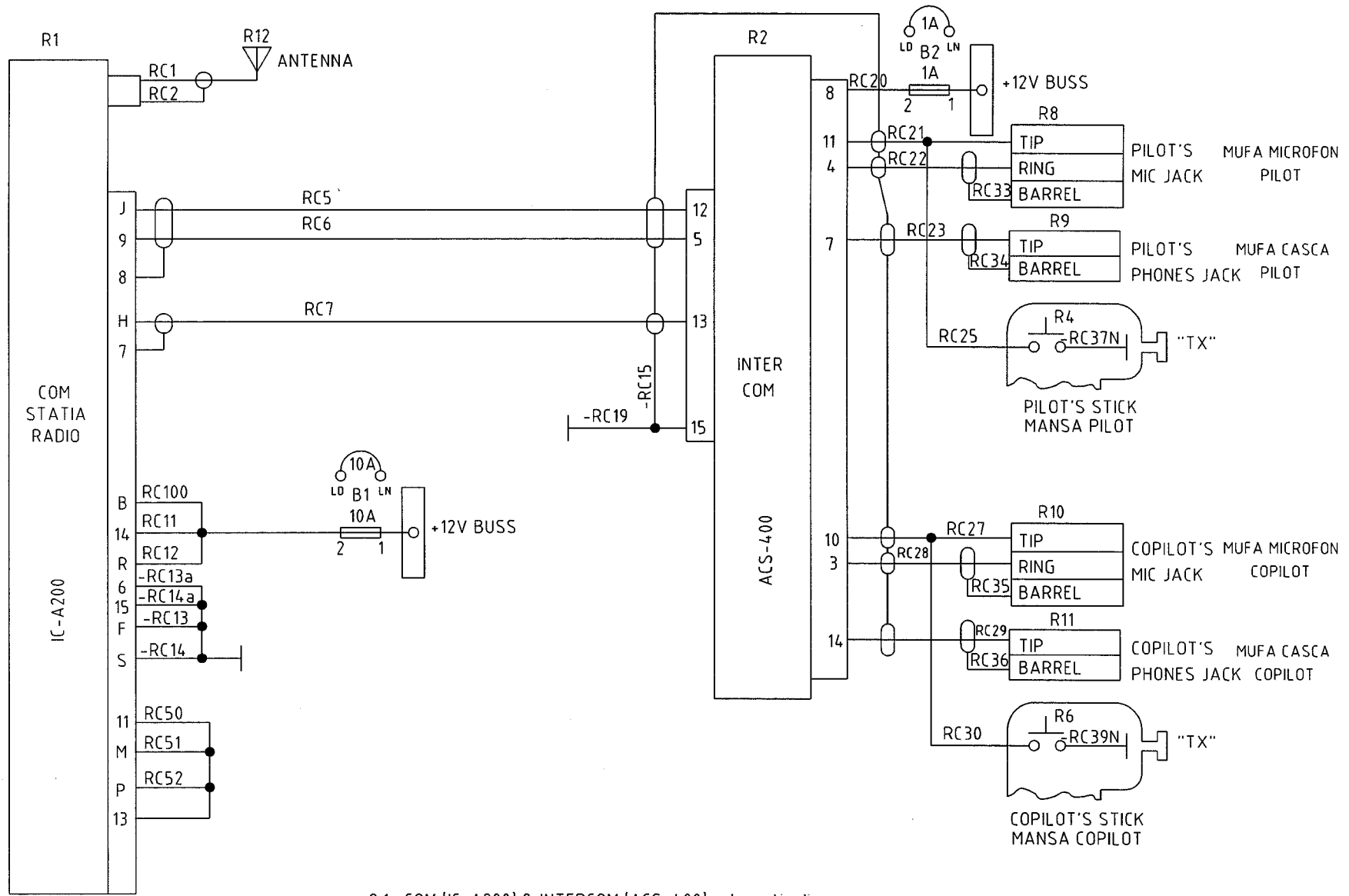


12. Schema electrica de conexiuni pentru NODUL ENERGETIC DE C.C., PORNIRE si APRINDERE
DC SUPPLY/START & IGNITION schematic diagram

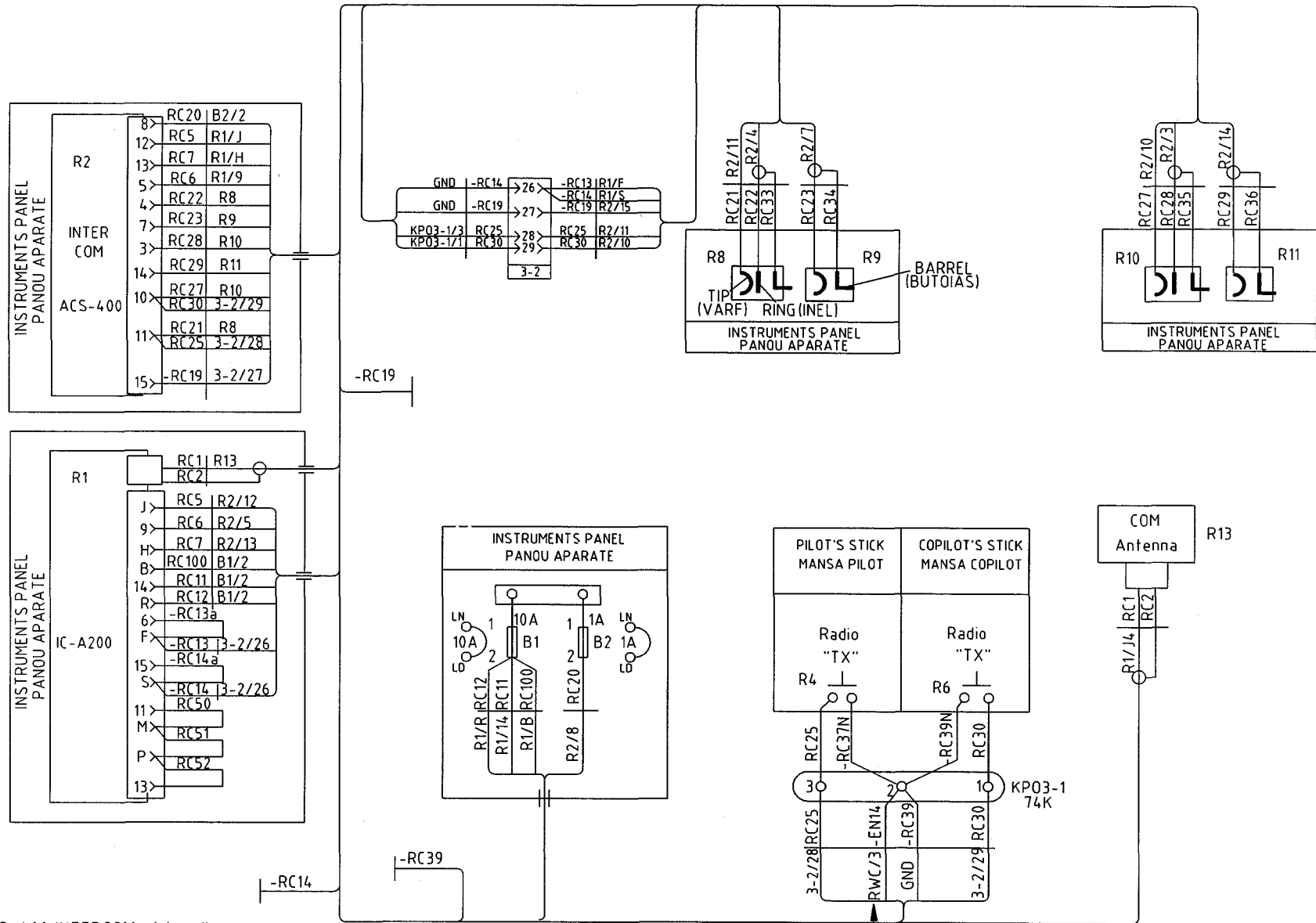
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1.3

Pos. Poz.	Name Denumire		Amount Cantitate	P/N	Obs.(Mounting place) Obs.(Loc de montare)	
GEN	Generator	Generator	1	Engine kit Complet motor	Engine area	Zona motor
BATT	Battery	Acumulator	1			
KS	Key switch	Cheie contact	1	A-510-2	Instruments panel	Panou instrumente
SR	Start relay	Contactore pornire	1	Engine kit Complet motor	Frame No.0	Cadrul 0
STARTER	Start motor	Demaror	1	Engine kit Complet motor	Engine area	Zona motor
A	Ammeter	Ampermetru	1	AM011	Instruments panel	Panou instrumente
V	Voltmeter	Voltmetru	1	VM011	Instruments panel	Panou instrumente
CL	Charge lamp	Lampa incarcare baterie	1	17410	Instruments panel	Panou instrumente
CL1	Net connection lamp	Lampa cuplare retea	1	17411	Instruments panel	Panou instrumente
CL2	Pump connection lamp	Lampa cuplare pompa	1	17412	Instruments panel	Panou instrumente
ALi	Ignition block	Bloc aprindere	1	Engine kit Complet motor	Engine area	Zona motor
ARi	Ignition block	Bloc aprindere	1	Engine kit Complet motor	Engine area	Zona motor
REG	Rectifier-Regulator	Regulator Tensiune	1	Engine kit Complet motor	Engine area	Zona motor
C1	Connector	Cupla	1	Engine kit Complet motor	Engine area	Zona motor
C2	Connector	Cupla	1	Engine kit Complet motor	Engine area	Zona motor
C3	Connector	Cupla	1	Engine kit Complet motor	Engine area	Zona motor
CN	Capacitor	Condensator	1	Engine kit Complet motor	Instruments panel	Panou instrumente
E01	Master switch	Intrerupator general	1		Instruments panel	Panou instrumente
B01	Fuse	Siguranta	1	AGC 30	Instruments panel	Panou instrumente
B02	Fuse	Siguranta	1	AGC 30	Instruments panel	Panou instrumente
R	Protection relay	Releu protectie	1		Instruments panel	Panou instrumente
3-2	Connector	Cupla	1	2RMD33KPE32G5V1 2RMD33BPE32S5V1	Frame No.1	Cadrul 1
3-0	Connector	Cupla	1	2RMD30KPN24G5V1 2RMD30BPN24S5V1	Frame No.0	Cadrul 0
4-2	Connector	Cupla	1	SR28P7EG9 SR28PK7ES9	Frame No.1	Cadrul 1



2.1. COM [IC-A200] & INTERCOM [ACS-400] schematic diagram
 STATIA RADIO & INTERCOMUNICATIE schema de principiu
 [STATIE RADIO IC-A200 - INTERCOM ACS-400]



2.2. IC-A200 & ACS-400 INTERCOM wiring diagram
 STATIE IC-A200 & INTERCOMUNICATIE ACS-400 schema de conexiuni

VEZI 4.2. APARATE MOTOR
 SEE 4.2. ENGINE INSTRUMENTS

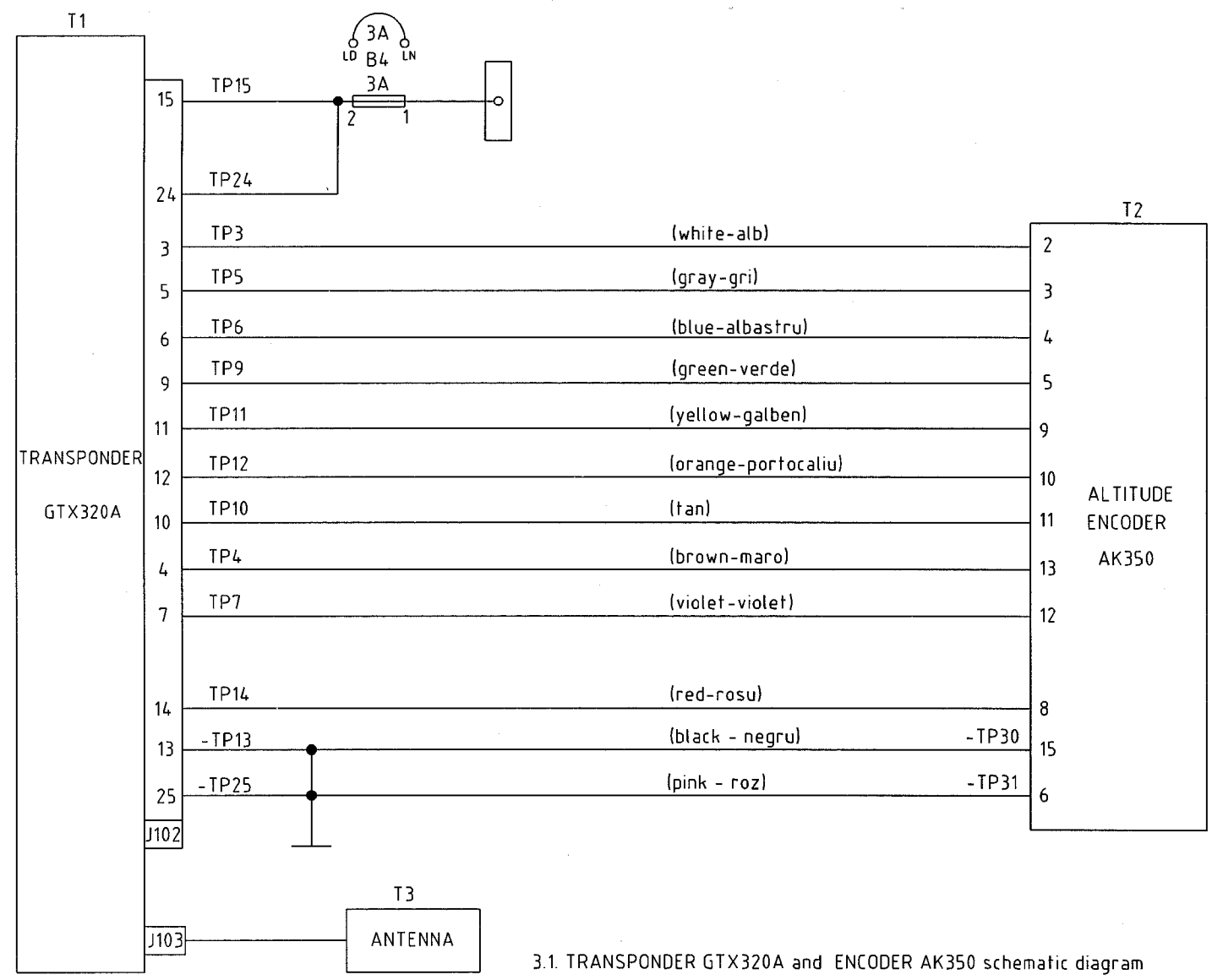
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2.3.

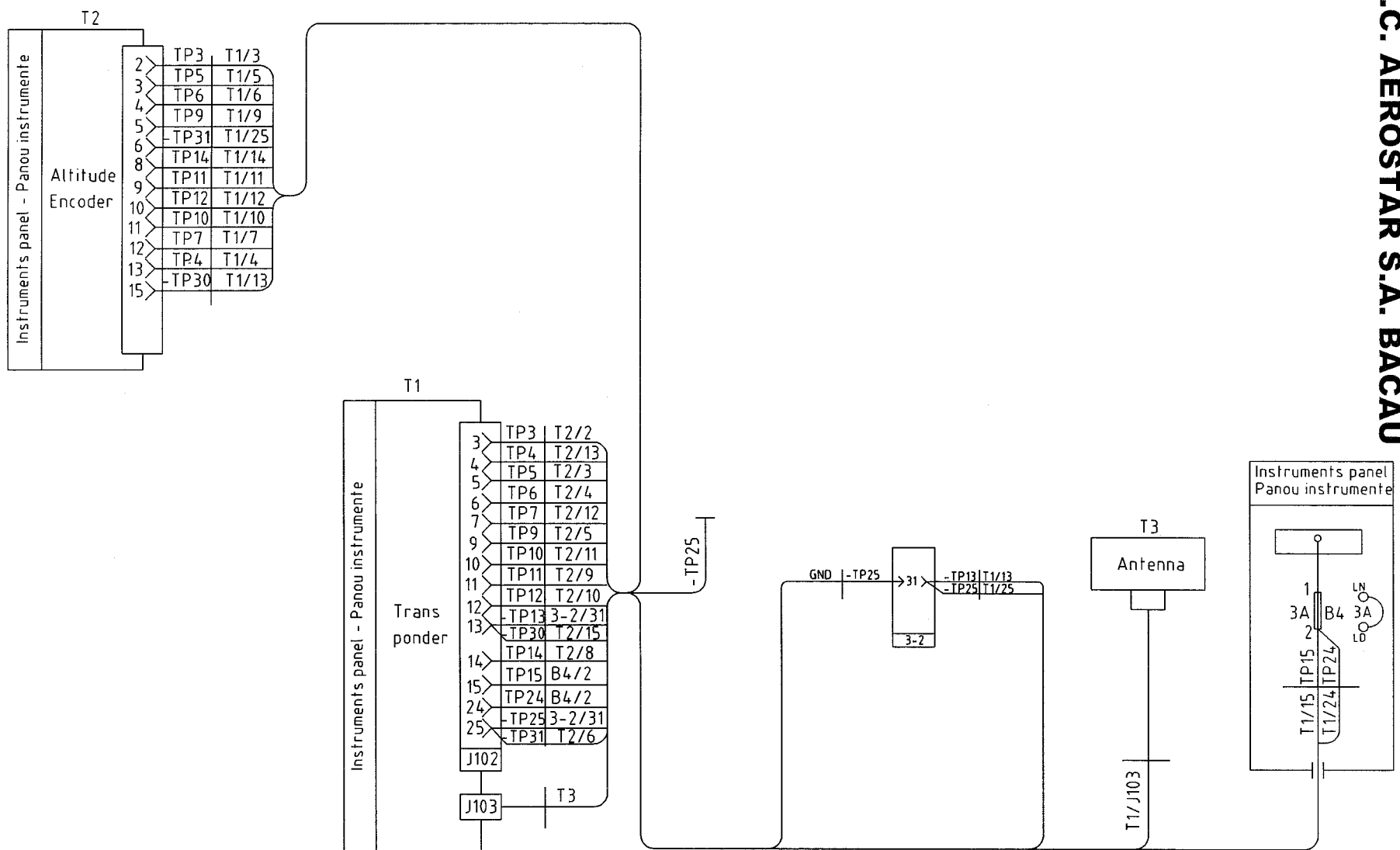
Pos. Poz.	Name Denumire	Amount Cantitate	P/N	Obs.(Mounting place) Obs.(Loc de montare)
R1	RADIO STATIE RADIO	1	IC-A200	Instruments panel Panou instrumente
R2	INTERCOM INTERCOMUNICATIE	1	ACS-400	Instruments panel Panou instrumente
R4	Push button "TX" Buton emisie "TX"	1	KNR	Pilot's stick Mansa pilot
R6	Push button "TX" Buton emisie "TX"	1	KNR	Copilot's stick Mansa copilot
R8	Microphone plug Mufa microfon pilot	1	JJ-033	Instruments panel Panou instrumente
R9	Phones plug Mufa casca pilot	1	JJ-034	Instruments panel Panou instrumente
R10	Microphone plug Mufa microfon copilot	1	JJ-033	Instruments panel Panou instrumente
R11	Phones plug Mufa casca copilot	1	JJ-034	Instruments panel Panou instrumente
R13	COM antenna Antena STATIE RADIO	1	CI 121	Upper rear fuselage Fuselaj posterior - partea de sus
KP03-1	Connector Conector	1	74K	Behind instruments panel In spatele panoului de instrumente
B1	Fuse Siguranta	1	AGC 10	Instruments panel Panou instrumente
B2	Fuse Siguranta	1	AGC 1	Instruments panel Panou instrumente
3-2	Connector Conector	1	2RMD33KPE32G5V1 2RMD33BPE32S5V1	Instruments panel Panou instrumente

Optional - instead of fuses & switches (inlocuiesc sigurantele fuzibile & intreruptoarele)

B1	Circuit breaker Automat de protectie	1	W31-X2M1G-10	Instruments panel Panou instrumente
B2	Circuit breaker Automat de protectie	1	W31-X2M1G-1	Instruments panel Panou instrumente



3.1. TRANSPONDER GTX320A and ENCODER AK350 schematic diagram
 Schema de principiu TRANSPONDER GTX320A si ENCODER AK350



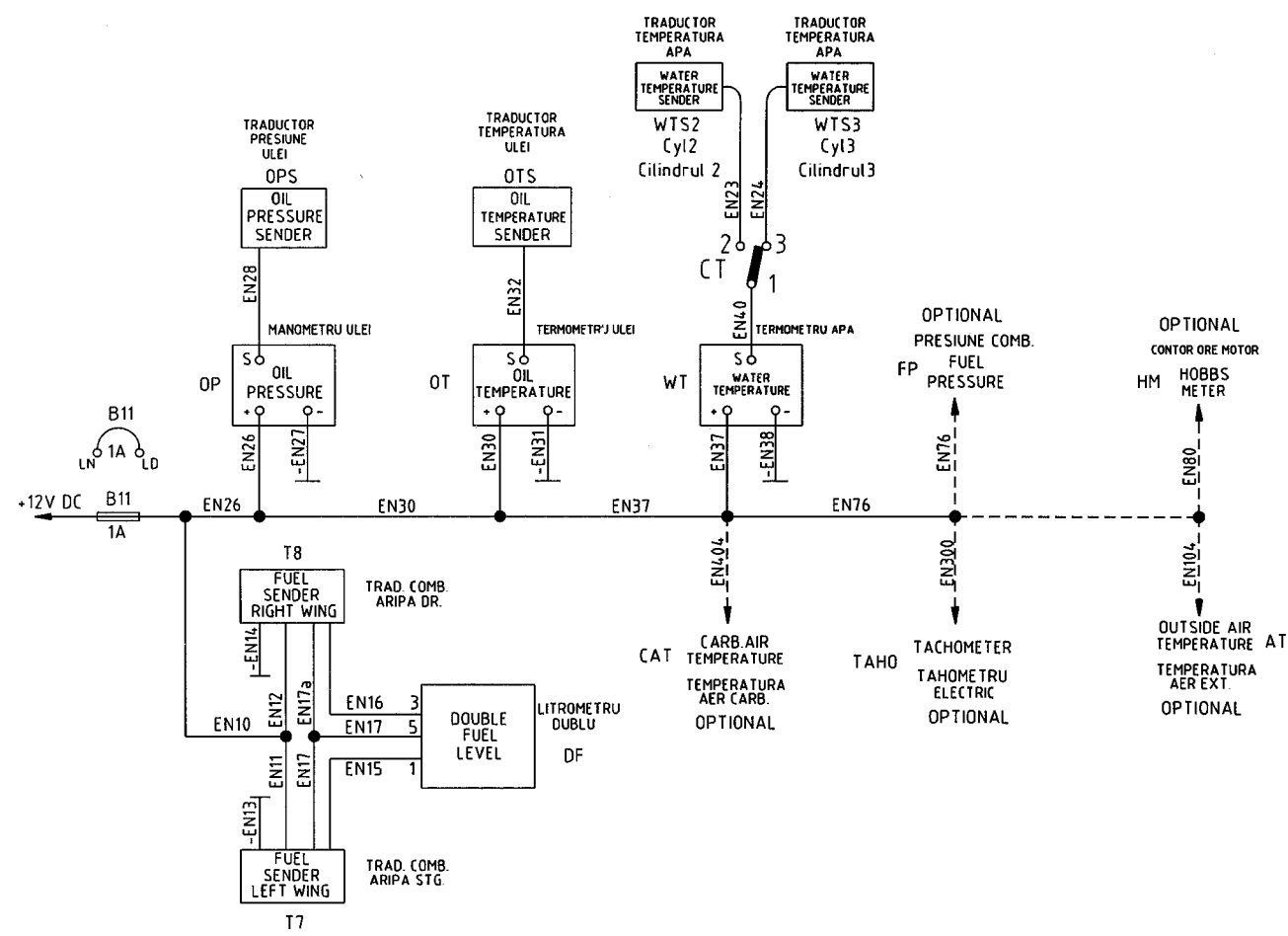
3.2. TRANSPONDER GTX320A and ENCODER AK350 wiring diagram
 Schema de conexiuni TRANSPONDER GTX320A si ENCODER AK350

3.3

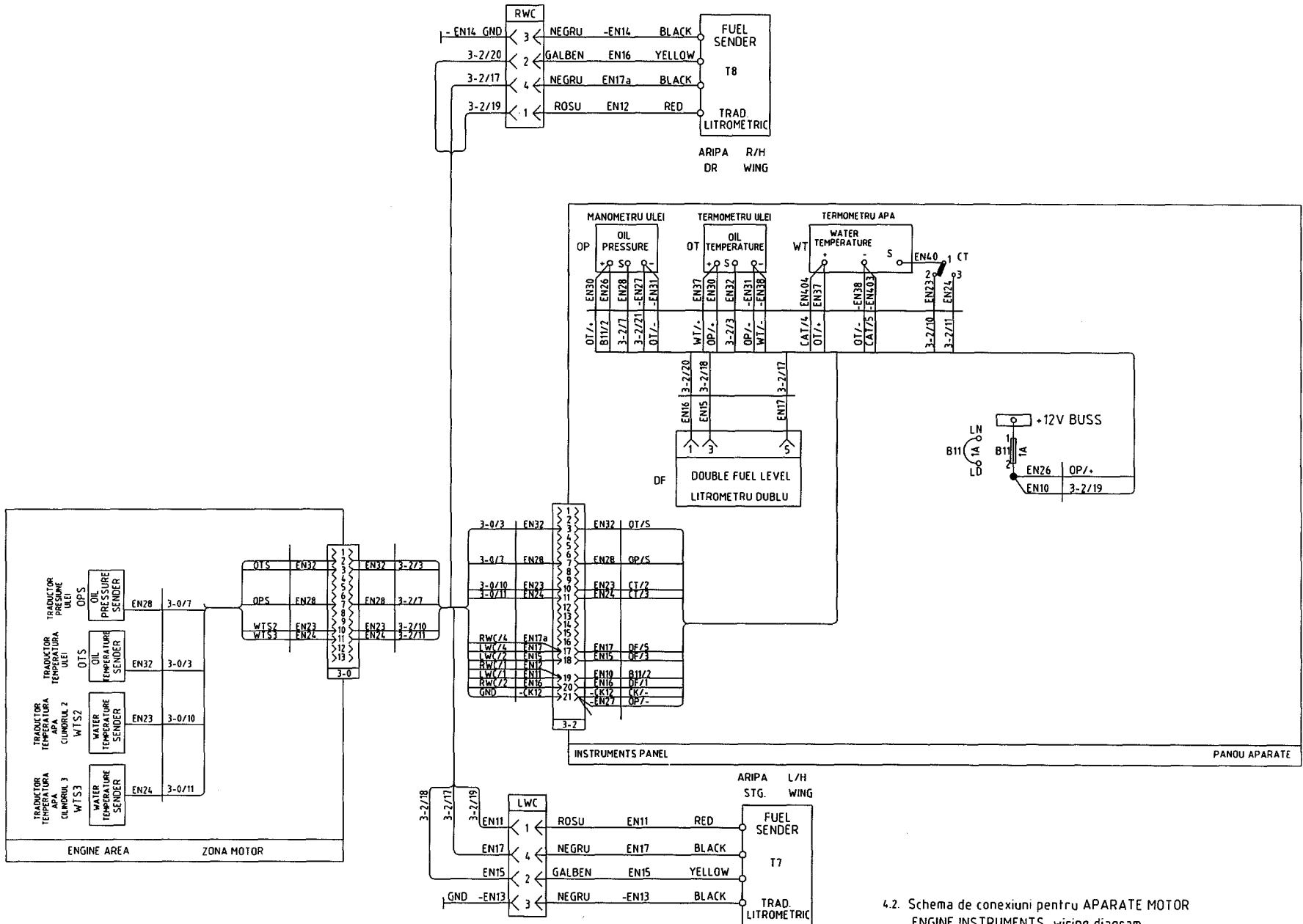
Pos.	Name		Amount	P/N	Obs.(Mounting place)	Obs.(Locul de montare)
T1	Transponder	Transponder	1	GTX-320A	Instruments panel	Panou instrumente
T2	Altimeter encoder	Encoder	1	AK-350	Instruments panel	Panou instrumente
T3	Antenna	Antena	1	K26	Frame No.3-lower side	Cadrul Nr.3-partea de jos
B4	Fuse	Siguranta	1	AGC 3	Instruments panel	Panou instrumente

Optional - instead of fuses & switches (inlocuiesc sigurantele fuzibile & intreruptoarele)

B4	Circuit breaker	Automat de protectie	1	W31-X2M1G-3	Instruments panel	Panou instrumente
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4.1. Schema de principiu pentru APARATE MOTOR
ENGINE INSTRUMENTS schematic diagram

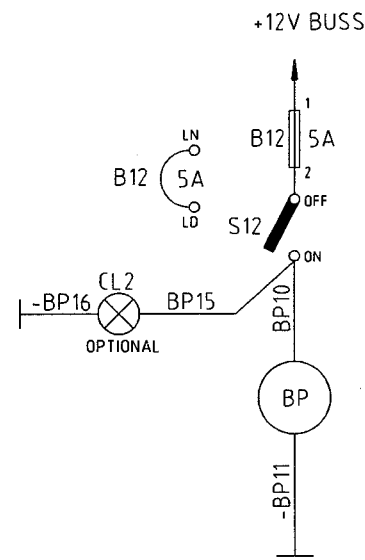


4.2. Schema de conexiuni pentru APARATE MOTOR
ENGINE INSTRUMENTS wiring diagram

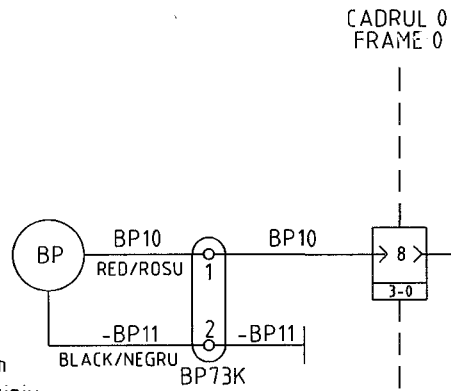
Pos. Poz.	Name Denumire	Amount Cantitate	P/N	Obs (Mounting place) Obs (Loc de montare)	
DF	Dual fuel indicator Litrometru dublu	1	2DA4V	Instruments panel Panou instrumente	
T7	Left fuel sender Traductor comb. stg.	1	395-5SB-5	Left wing-fuel tank Rezervor aripa stg.	
T8	Right fuel sender Traductor comb. dr.	1	395-5SB-5	Right wing-fuel tank Rezervor aripa dr.	
TAHO	Tachometer Tahometru	1	646 051 7054/19-505-20B	Instruments panel Panou instrumente	OPTIONAL
WT	Water temperature ind. Ind. temperatura apa	1+1	VDO 310 030 003	Instruments panel Panou instrumente	1xOPTIONAL
WTS2	Water temperature sender Traductor WT	1	Engine kit Complet motor	Engine cylinder No2 Cilindrul 2	
WTS3	Water temperature sender Traductor WT	1	Engine kit Complet motor	Engine cylinder No3 Cilindrul 3	
OT	Oil temperature ind. Ind. temperatura ulei	1	VDO 310 030 003	Instruments panel Panou instrumente	
OTS	Oil temperature sender Traductor temp. ulei	1	Engine kit Complet motor	Engine Motor	
OP	Oil pressure ind. Ind. presiune ulei	1	VDO 350 030 004	Instruments panel Panou instrumente	
OPS	Oil pressure sender Traductor presiune ulei	1	Engine kit Complet motor	Engine Motor	
AT	Air temperature ind. Ind. temperatura aer	1	2A3-3	Instruments panel Panou instrumente	OPTIONAL
ATS	Air temperature sender Traductor temp. aer	1		Fwd of window shield In fata parbrizului	OPTIONAL
CHT	CHT indicator Indicator CHT	1	2A1-2	Instruments panel Panou instrumente	OPTIONAL
EGT1	EGT indicator Indicator EGT	1	2A2P	Instruments panel Panou instrumente	OPTIONAL
CT1	Switch EGT Comutator EGT	1	EGT kit Complet EGT	Instruments panel Panou instrumente	OPTIONAL
CT2	Switch CHT Comutator CHT	1	CHT kit Complet CHT	Instruments panel Panou instrumente	OPTIONAL
HMCT	Pressure switch Manocontact	1		Engine Motor	OPTIONAL
HM	Hobbs Meter Contor ore motor	1	1774	Instruments panel Panou instrumente	OPTIONAL
CAT	Carb. air temperature ind. Termometru aer carburator	1	2A3-3	Instruments panel Panou instrumente	OPTIONAL
CATS	Carb. air temperature sender Traductor temp. aer carburator	1		Engine area Zona motor	OPTIONAL
RWC	Connector Cupla	1	7502683 - 09038 SAU 6501686/a 7502583 - 10038 6500886/a	R/H wing Aripa dr.	
LWC	Connector Cupla	1	7502683 - 09038 SAU 6501686/a 7502583 - 10038 6500886/a	L/H wing Aripa stg.	
3-2	Connector Cupla	1	2RMD33KPE32GSV1 2RMD33BPE32SV1	Frame No.1 Cadrul 1	
3-0	Connector Cupla	1	2RMD30KPN24GSV1 2RMD30BPN24SV1	Frame No.0 Cadrul 0	
B11	Fuse Siguranta	1	AGC 1	Instruments panel Panou instrumente	
CT	Switch WT Comutator WT	1		Instruments panel Panou instrumente	
EGT2	Dual EGT indicator Indicator dublu EGT	1	2DA2	Instruments panel Panou instrumente	OPTIONAL
EGTS1	EGT sender Traductor EGT	4	712-2DWK	Engine area Zona motor	OPTIONAL
EGTS2	EGT sender Traductor EGT	2	712-2DWK	Engine area Zona motor	OPTIONAL
CHTS2	CHT sender Traductor CHT	4		Engine area Zona motor	OPTIONAL
FP	Fuel pressure indicator Ind. presiune combustibil	1	H-03	Instruments panel Panou instrumente	OPTIONAL
FPS	Fuel pressure sender Trad. presiune combustibil	1	350-030-004	Engine area Zona motor	OPTIONAL

Optional - instead of fuses & switches (inlocuiesc sigurantele fuzibile & intreruptoarele)

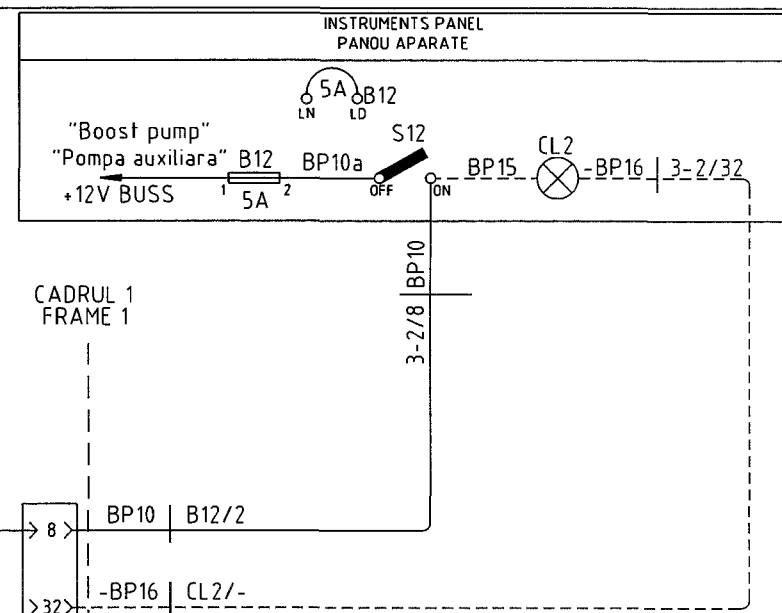
B11	Circuit breaker Automat de protectie	1	W31-X2M1G-1	Instruments panel Panou instrumente	OPTIONAL instead of the fuse
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5.1 AUX. FUEL PUMP schematic diagram
POMPA AUXILIARA schema de principiu
5.3



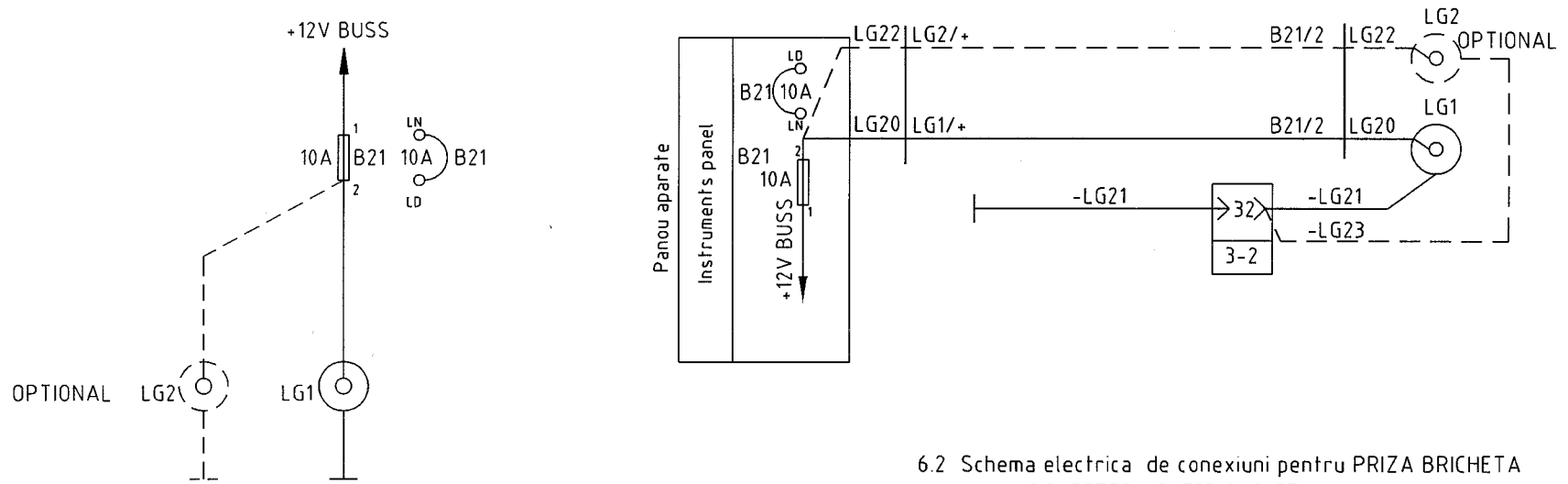
5.2 AUX. FUEL PUMP wiring diagram
POMPA AUXILIARA schema de conexiuni



Pos. Poz.	Name Denumire	Amount Cantitate	P/N	Obs.(Mounting place) Obs.(Loc de montare)
BP	Boost pump Pompa auxiliara	1	FACET 12V 21/2-41/2PSI	Frame "0"-Engine area Cadrul 0-zona motor
B12	Fuse Siguranta	1	AGC 5	Instruments panel Panou instrumente
3-2	Connector Cupla	1	2RMD33KPE32G5V1 2RMD33BPE32S5V1	Frame "1" Cadrul 1
3-0	Connector Cupla	1	2RMD30KPN24G5V1 2RMD30BPE24S5V1	Frame "0"-Engine area Cadrul 0-zona motor
CL2	Lamp boost pump Lampa pompa auxiliara	1	174 12	Instruments panel Panou instrumente
BP73K	Connector Conector	1	73K	Frame "0"-Engine area Cadrul 0-zona motor
S12	Switch Intrerupator	1	AN3021-2	Instruments panel Panou instrumente

Optional - instead of fuses & switches (inlocuiesc sigurantele fuzibile & intrerupatoarele)

B12	Circuit breaker Automat de protectie	1	AGC 5	Instruments panel Panou instrumente
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6.2 Schema electrica de conexiuni pentru PRIZA BRICHETA
CIGARETTE LIGHTER SOCKET wiring diagram

6.1 Schema electrica de principiu pentru PRIZA BRICHETA
CIGARETTE LIGHTER SOCKET schematic diagram

6.3

Pos.	Name	Amount	P/N	Obs.(Mounting place)	Locul de montaj
LG(1,2)	Cigarette Lighter socket Priza bricheta	1+1		Instruments panel	Panou aparate
B21	Fuse Siguranta	1	AGC 10	Instruments panel	Panou aparate
3-2	Connector Conector	1	2RMD33KPE32G5V1 2RMD33BPE32S5V1	Frame 2	Cadrul 2

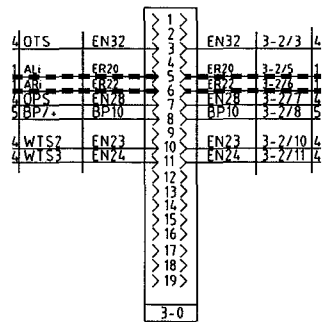
Optional - instead of fuses & switches (inlocuiesc sigurantele fuzibile & intrerupatoarele)

B21	Circuit breaker Automat de protectie	1	W31-X2M1G-10	Instruments panel	Panou aparate
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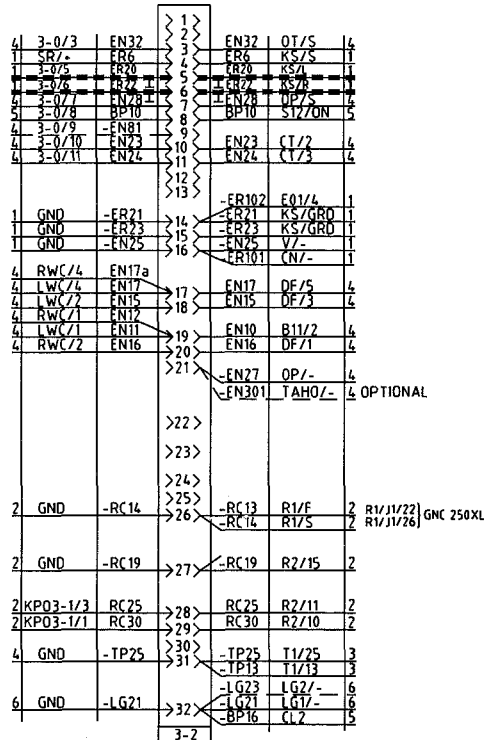
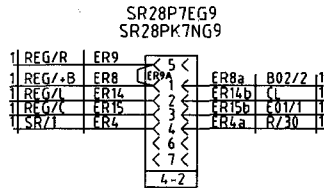
FRAME "0" / ENGINE - FUSELAGE
CADRUL "0" / MOTOR - FUSELAJ

FUSELAGE - INSTRUMENT PANEL
FUSELAJ - PANOU INSTRUMENTE

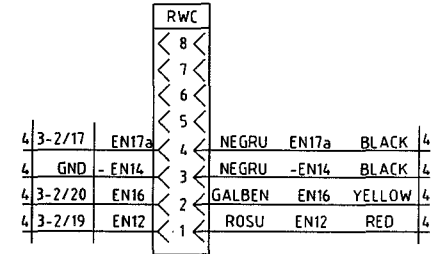
FUSELAGE - R/H WING
FUSELAJ - ARIPA DREAPTA



2RMD30KPN24G5V1
2RMD30BPE24S5V1

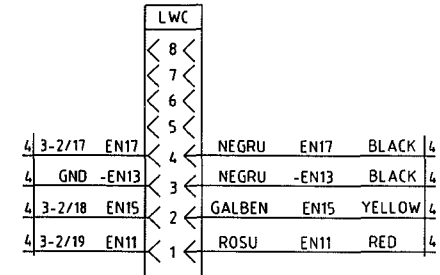


2RMD33KPE32G5V1
2RMD33BPE32S5V1



7502683 - 09038 SAU 6501686/a
7502583 - 10038 6500886/a

FUSELAGE - L/H WING
FUSELAJ - ARIPA STANGA



7502683 - 09038 OR 6501686/a
7502583 - 10038 SAU 6500886/a

7. Connectors diagram
Diagrama cupletor

8. OPTIONAL

THIS SECTION IS CREATED FOR THE ELECTRIC DIAGRAMS OF THE OPTIONAL EQUIPMENTS.

ACEASTA SECTIUNE ESTE CREATA PENTRU SCHEMELE ELECTRICE ALE ECHIPAMENTELOR OPTIONALE.

No	CODE REPER	NAME DENUMIRE	REMARKS OBS.