

PS-28 Cruiser / SportCruiser
(Analog equipment)

WIRING MANUAL



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PS-28 Cruiser / SportCruiser
(Analog equipment)

WIRING MANUAL



PS-28 Cruiser / SportCruiser aircraft is designed and manufactured by



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AIRCRAFT**

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RECORD OF REVISIONS

Rev. No.	Revision name	Changed pages	Issue date	Date and signature
1	Supplementation of SL30 NAV/COMM with CDI Garmin MD200-306 Installation	i, ii, iii, iv, RoR 0-1, LoEP 0-1, 2-1 to 2-4	2013-02-18	2013-02-18 Konečný
2	Supplementation of 12 V Socket, Defogging Blowers, GNC 255A NAV/COMM with CDI Garmin MD200-306 and GTR 225A Installations	i, ii, iii, iv, RoR 0-1, LoEP 0-1, 2-1 to 2-4	2014-02-24	2014-02-24 Konečný
3	Change of the Circuit Breaker for Attitude Indicator LUN 1241.A4G4R and Directional Gyro RCA 15EK-1	i, ii, iii, iv, RoR 0-1, LoEP 0-1, 1-1 to 1-16, Supl.1: 4, 5, 6, 7, Supl.2: 4, 5, 7 to 11, 2-1 to 2-4	2015-09-07	2015-09-07 Konečný
4	Coolant Temperature (CT) as an alternative to the Cylinder Head Temperature (CHT) added for cases that the engine is equipped with new cylinder heads design acc.to the SB-912-066 and SB-912-066UL Rotax bulletin. Relay Type Replacement (valid from S/N 0416): Change of the relay type from NVF4-2C-Z40A to FRC-DC12, change of the P/N for starting relay from 992819 to 992818.	i, ii, iii, iv, RoR 0-1, LoEP: 0-1, Contents: 0-1, 1-6, 1-11,	2015-09-07	2015-09-07 Konečný
5	Fuel Tank Electrical Bonding – Update of technical documentation New company logo in the entire document	i, ii, iii, iv, RoR: 0-1 LoEP: 0-1, Contents: 0-1, 1-2, 1-19	2016-06-16	2016-06-19 Konečný
6	Landing Light Replacement added – type TrailTech 4213-SX replaced by type Kuntzleman 11-06854 - valid from S/N 0571	i to iv, RoR: 0-2 LoEP: 0-1, Contents: 0-1, 1-2, 1-19, 1-20	2016-08-19	2016-08-19 Konečný



Rev. No.	Revision name	Changed pages	Issue date	Date and signature



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LoEP	0-1	2016-08-29			
LoEP	0-2	2011-11-11			
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Supplements	2-2	2015-09-07			
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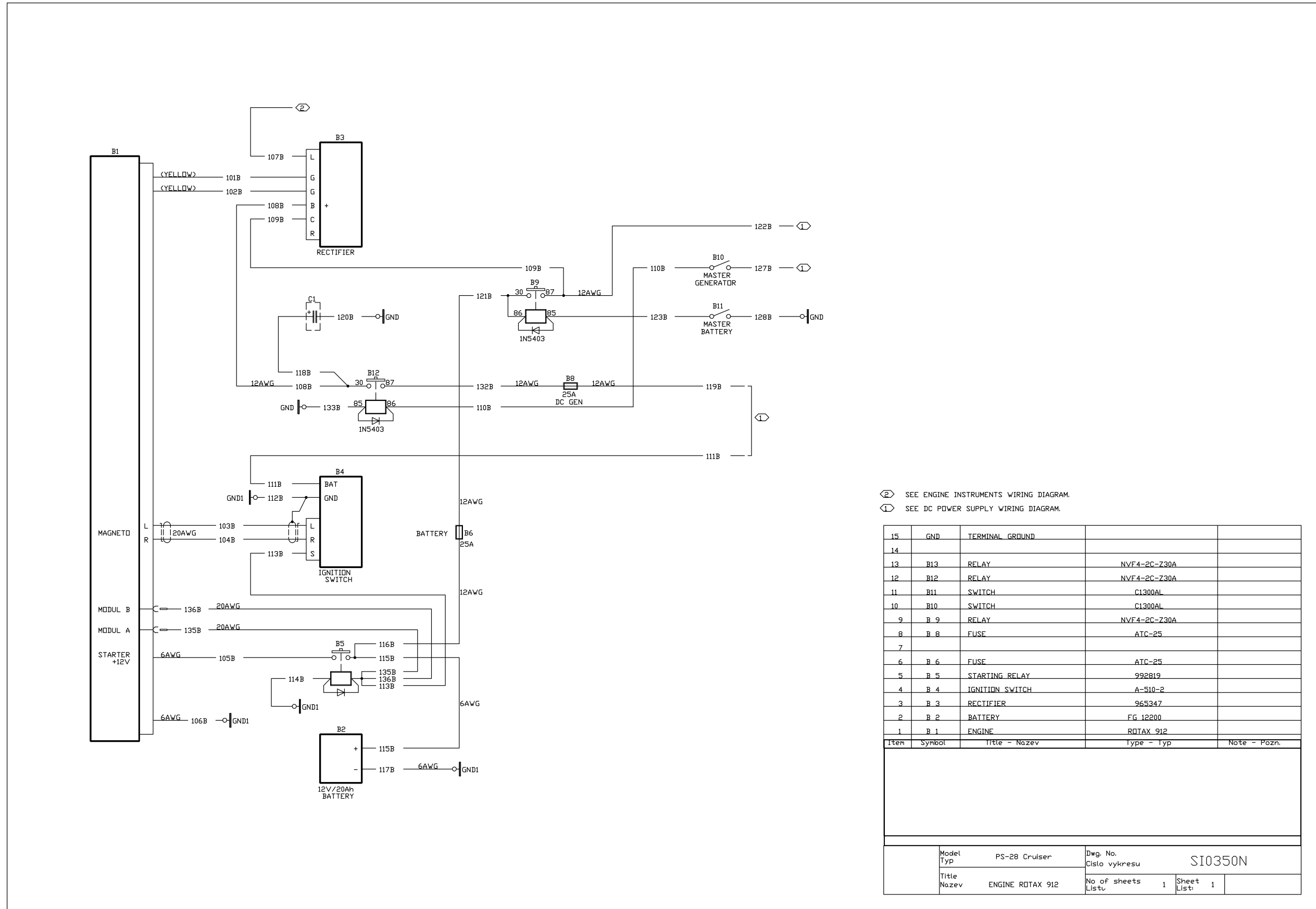
Chapter			Chapter	Page	Date



ENGINE ROTAX 912	SI0350N.....	1-1
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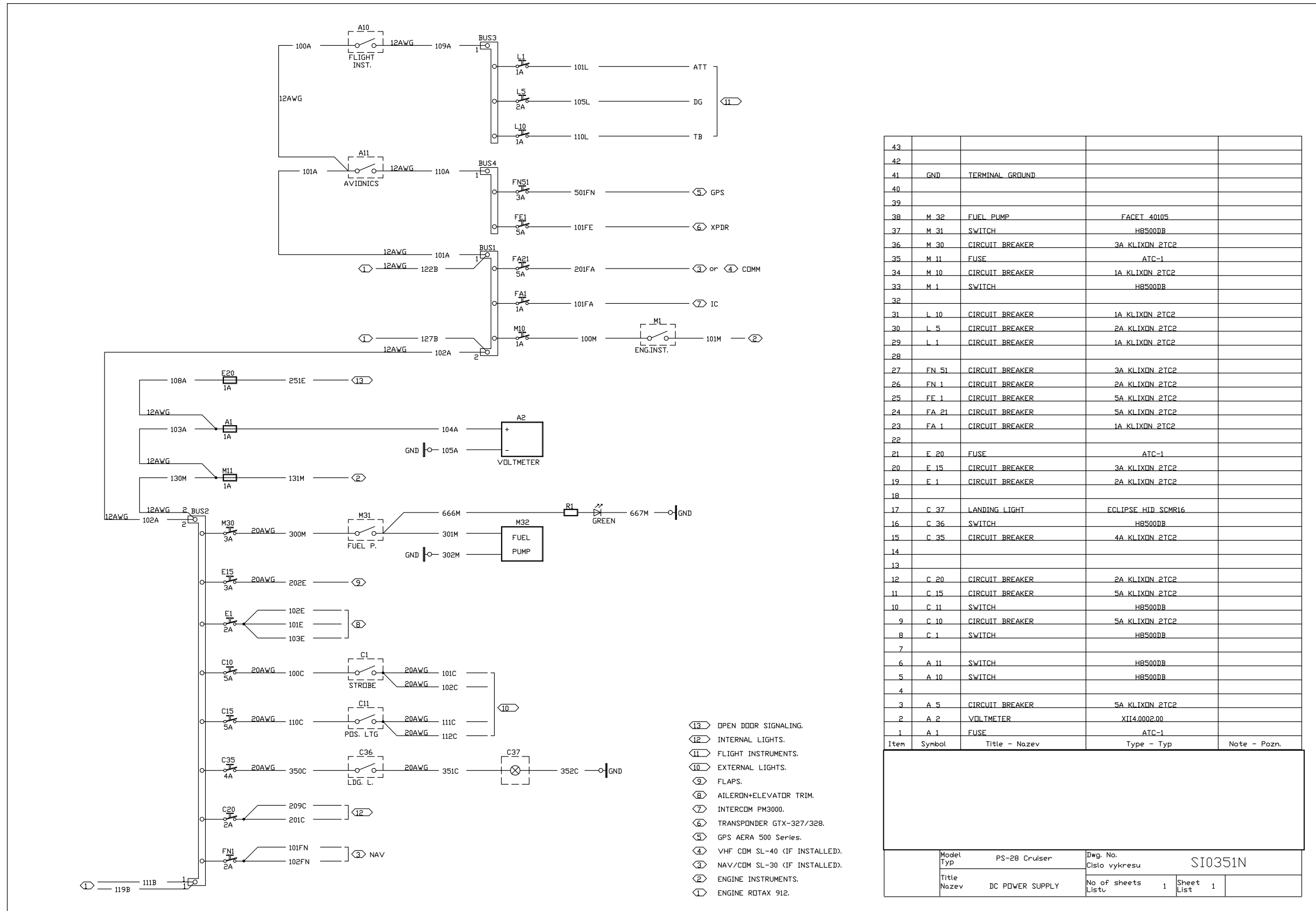
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② SEE ENGINE INSTRUMENTS WIRING DIAGRAM.
 Ⓛ SEE DC POWER SUPPLY WIRING DIAGRAM.

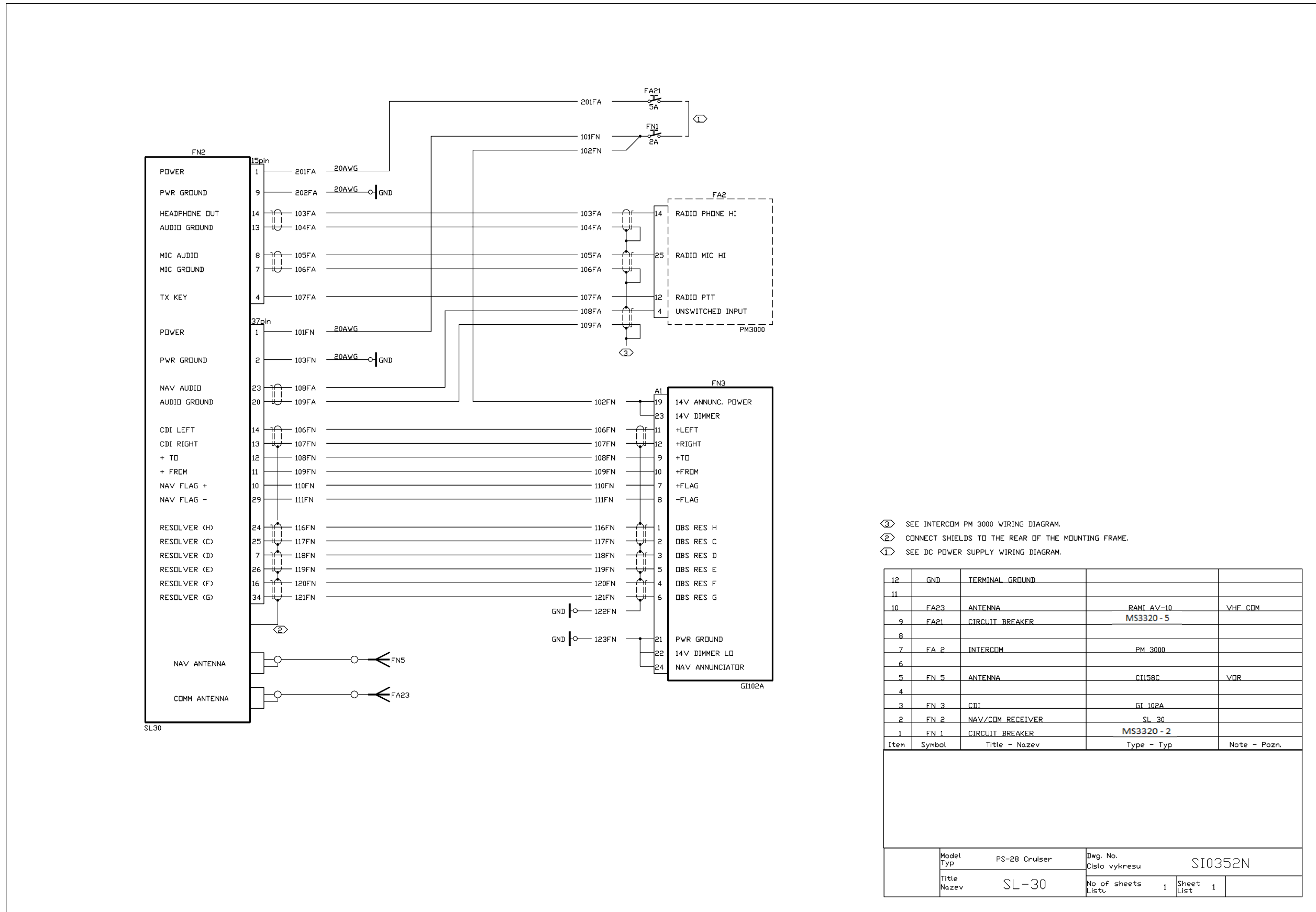
15	GND	TERMINAL GROUND		
14				
13	B13	RELAY	NVF4-2C-Z30A	
12	B12	RELAY	NVF4-2C-Z30A	
11	B11	SWITCH	C1300AL	
10	B10	SWITCH	C1300AL	
9	B 9	RELAY	NVF4-2C-Z30A	
8	B 8	FUSE	ATC-25	
7				
6	B 6	FUSE	ATC-25	
5	B 5	STARTING RELAY	992819	
4	B 4	IGNITION SWITCH	A-510-2	
3	B 3	RECTIFIER	965347	
2	B 2	BATTERY	FG 12200	
1	B 1	ENGINE	RQTAX 912	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

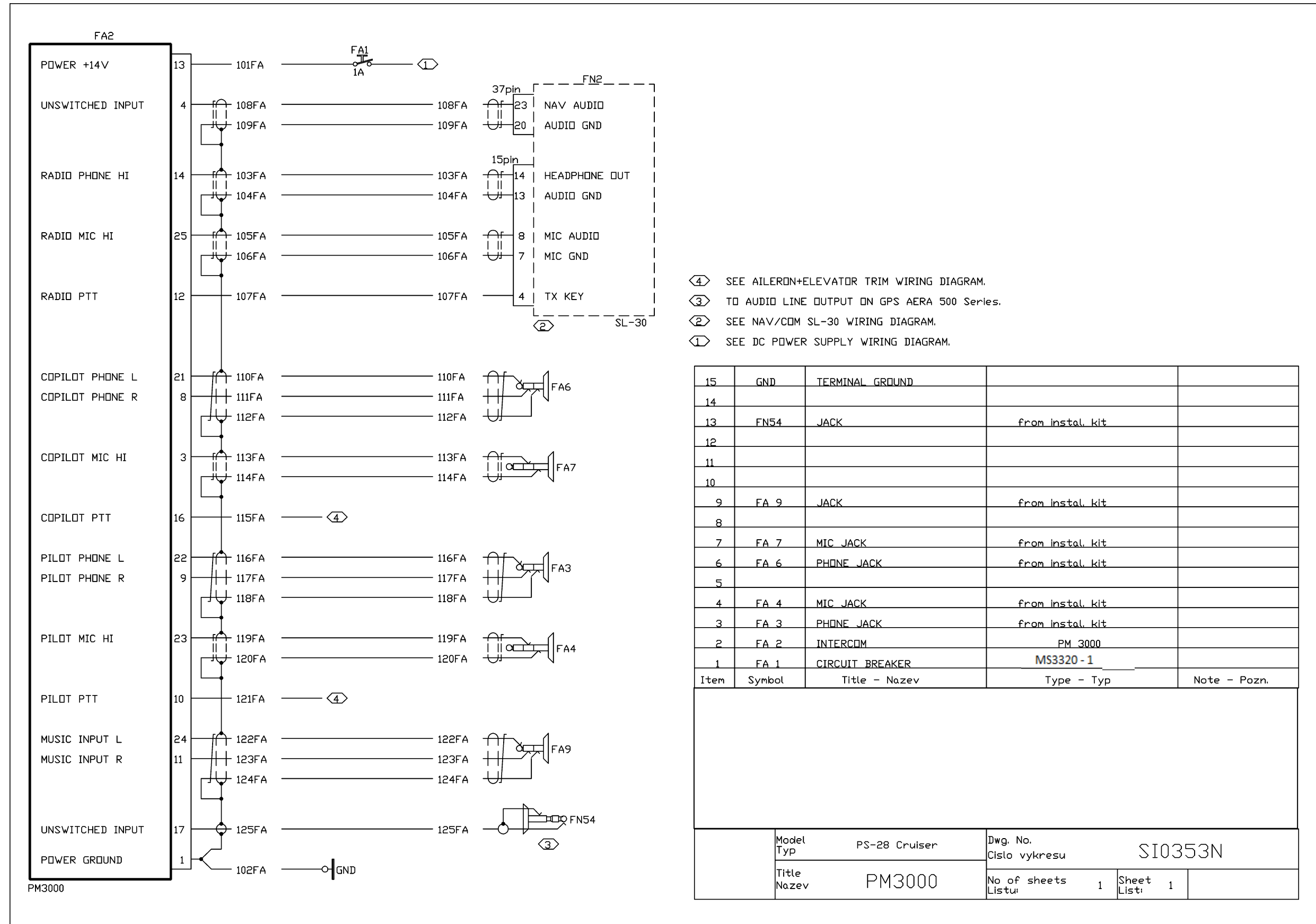
Model Typ		PS-28 Cruiser	Dwg. No. Císlo vykresu		SI0350N	
Title Nazev		ENGINE RQTAX 912	No of sheets Listv	1	Sheet Listi	1

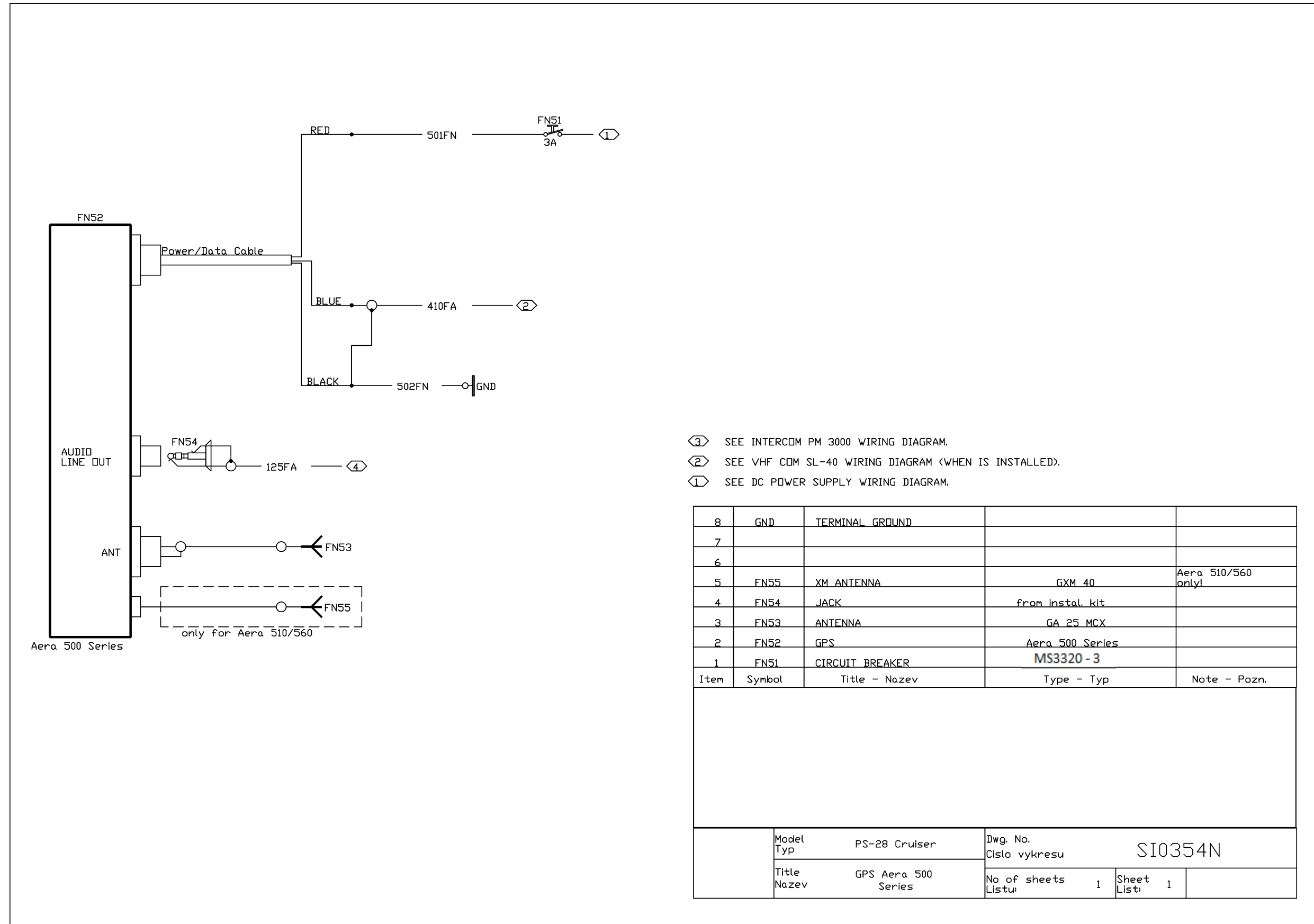


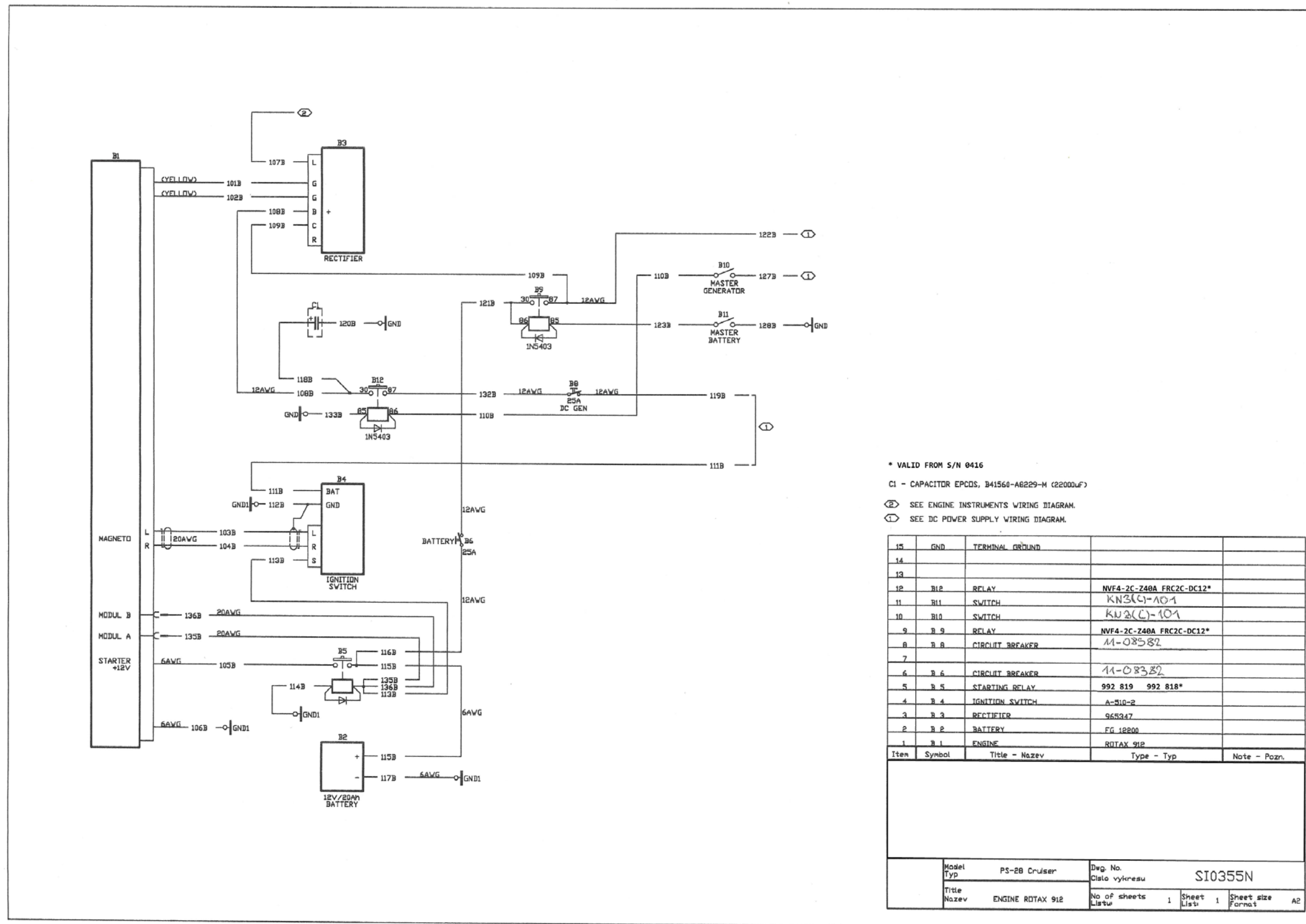
43				
42				
41	GND	TERMINAL GROUND		
40				
39				
38	M 32	FUEL PUMP	FACET 40105	
37	M 31	SWITCH	H8500DB	
36	M 30	CIRCUIT BREAKER	3A KLIXON 2TC2	
35	M 11	FUSE	ATC-1	
34	M 10	CIRCUIT BREAKER	1A KLIXON 2TC2	
33	M 1	SWITCH	H8500DB	
32				
31	L 10	CIRCUIT BREAKER	1A KLIXON 2TC2	
30	L 5	CIRCUIT BREAKER	2A KLIXON 2TC2	
29	L 1	CIRCUIT BREAKER	1A KLIXON 2TC2	
28				
27	FN 51	CIRCUIT BREAKER	3A KLIXON 2TC2	
26	FN 1	CIRCUIT BREAKER	2A KLIXON 2TC2	
25	FE 1	CIRCUIT BREAKER	5A KLIXON 2TC2	
24	FA 21	CIRCUIT BREAKER	5A KLIXON 2TC2	
23	FA 1	CIRCUIT BREAKER	1A KLIXON 2TC2	
22				
21	F 20	FUSE	ATC-1	
20	E 15	CIRCUIT BREAKER	3A KLIXON 2TC2	
19	E 1	CIRCUIT BREAKER	2A KLIXON 2TC2	
18				
17	C 37	LANDING LIGHT	ECLIPSE HID SCMR16	
16	C 36	SWITCH	H8500DB	
15	C 35	CIRCUIT BREAKER	4A KLIXON 2TC2	
14				
13				
12	C 20	CIRCUIT BREAKER	2A KLIXON 2TC2	
11	C 15	CIRCUIT BREAKER	5A KLIXON 2TC2	
10	C 11	SWITCH	H8500DB	
9	C 10	CIRCUIT BREAKER	5A KLIXON 2TC2	
8	C 1	SWITCH	H8500DB	
7				
6	A 11	SWITCH	H8500DB	
5	A 10	SWITCH	H8500DB	
4				
3	A 5	CIRCUIT BREAKER	5A KLIXON 2TC2	
2	A 2	VOLTMETER	XII4.0002.00	
1	A 1	FUSE	ATC-1	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

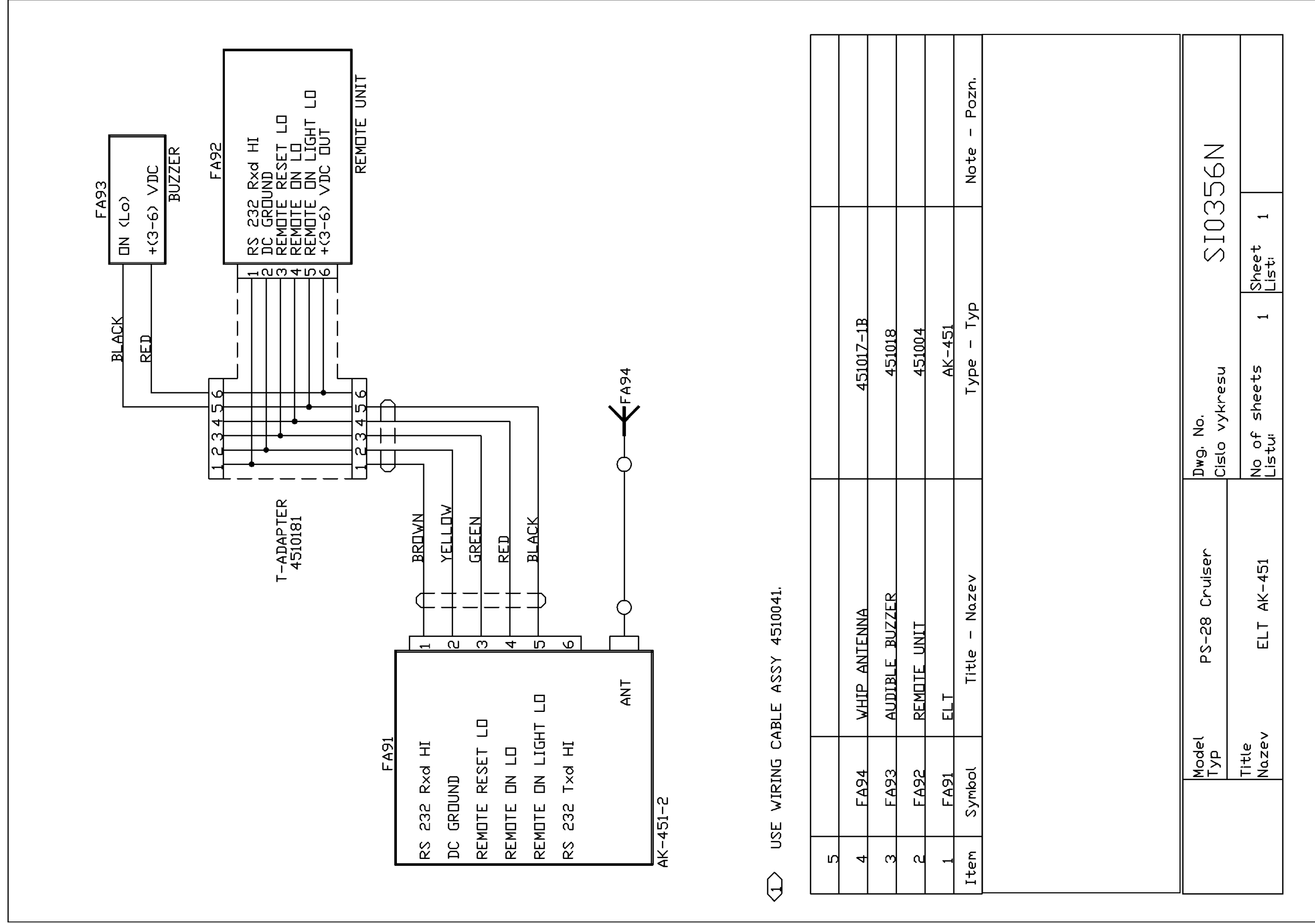
Valid till S/N 0570







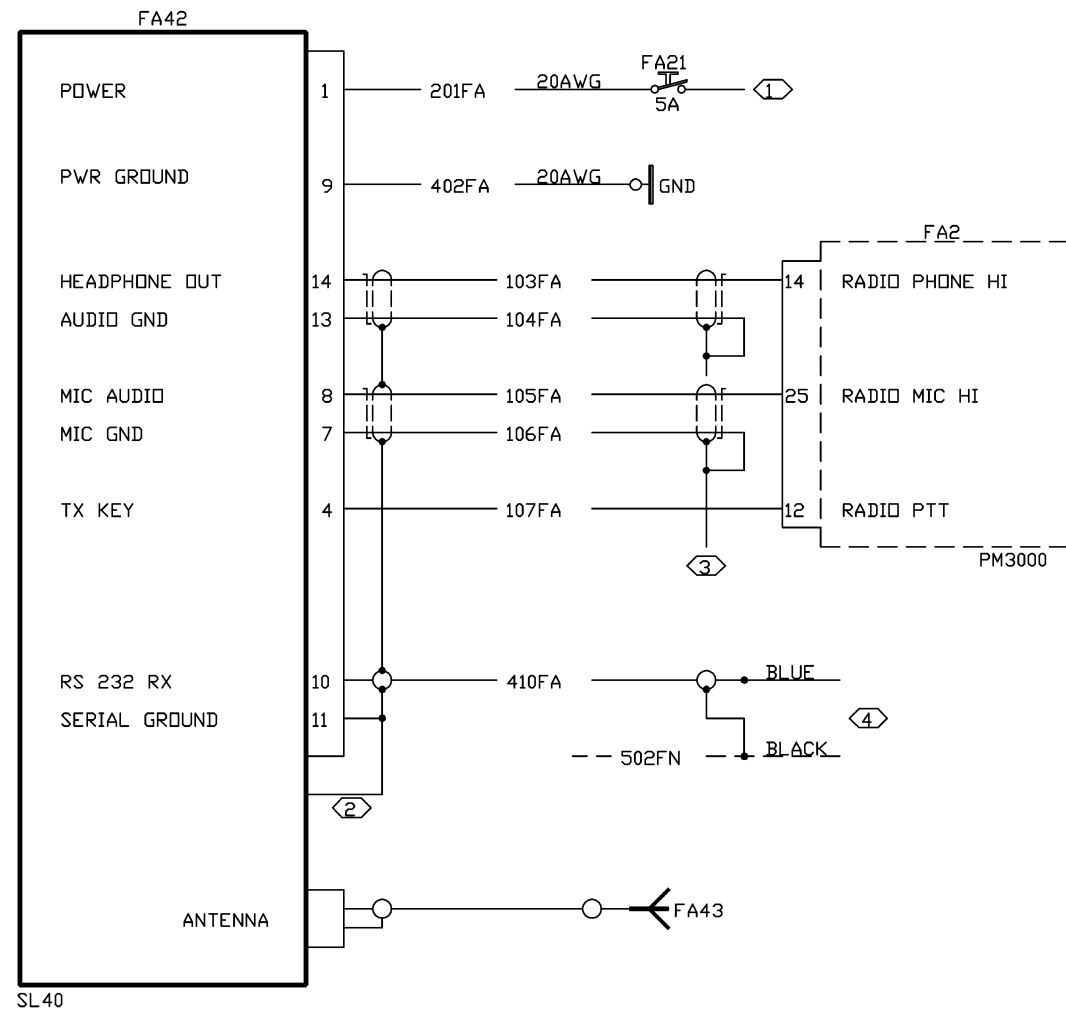




① USE WIRING CABLE ASSY 4510041.

5			
4	FA94	WHIP ANTENNA	451017-1B
3	FA93	AUDIBLE BUZZER	451018
2	FA92	REMOTE UNIT	451004
1	FA91	ELT	AK-451
Item	Symbol	Title - Nazev	Type - Typ Note - Pozn.

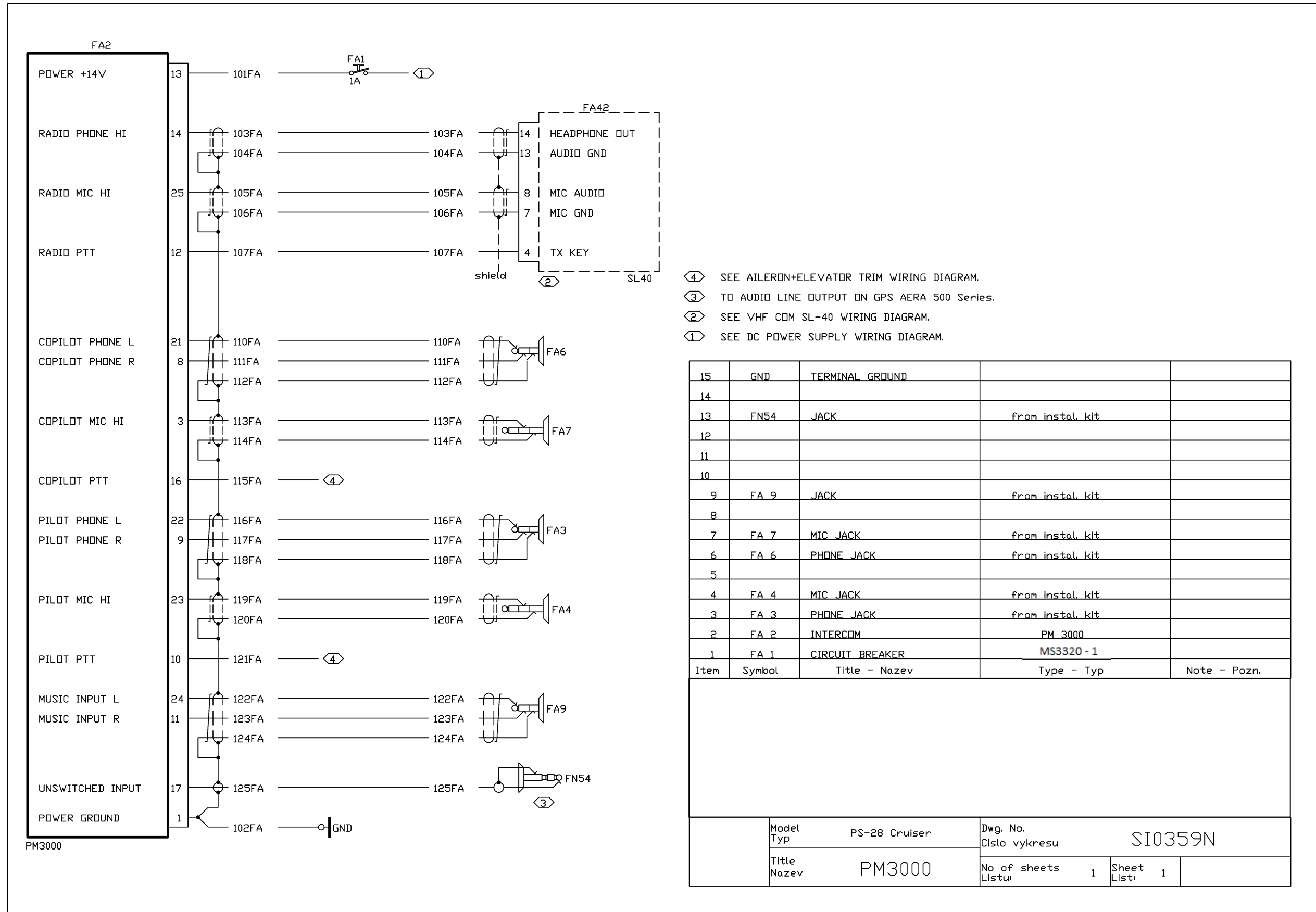
Model Typ	PS-28 Cruiser	Dwg. No. Cislo vykresu	SI0356N
Title Nazev	ELT AK-451	No of sheets Listu	1
		Sheet Listu	1



- ④ SEE GPS AERA 500 Series WIRING DIAGRAM.
- ③ SEE INTERCOM PM 3000 WIRING DIAGRAM.
- ② CONNECT SHIELDS TO THE REAR OF THE MOUNTING FRAME.
- ① SEE DC POWER SUPPLY WIRING DIAGRAM.

8	GND	TERMINAL GROUND		
7				
6				
5	FA 2	INTERCOM	PM 3000	
4				
3	FA43	ANTENNA	RAMI AV-10	VHF COM
2	FA42	VHF COMM TRANSCEIVER	SL 40	
1	FA21	CIRCUIT BREAKER	MS3320 - 5	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

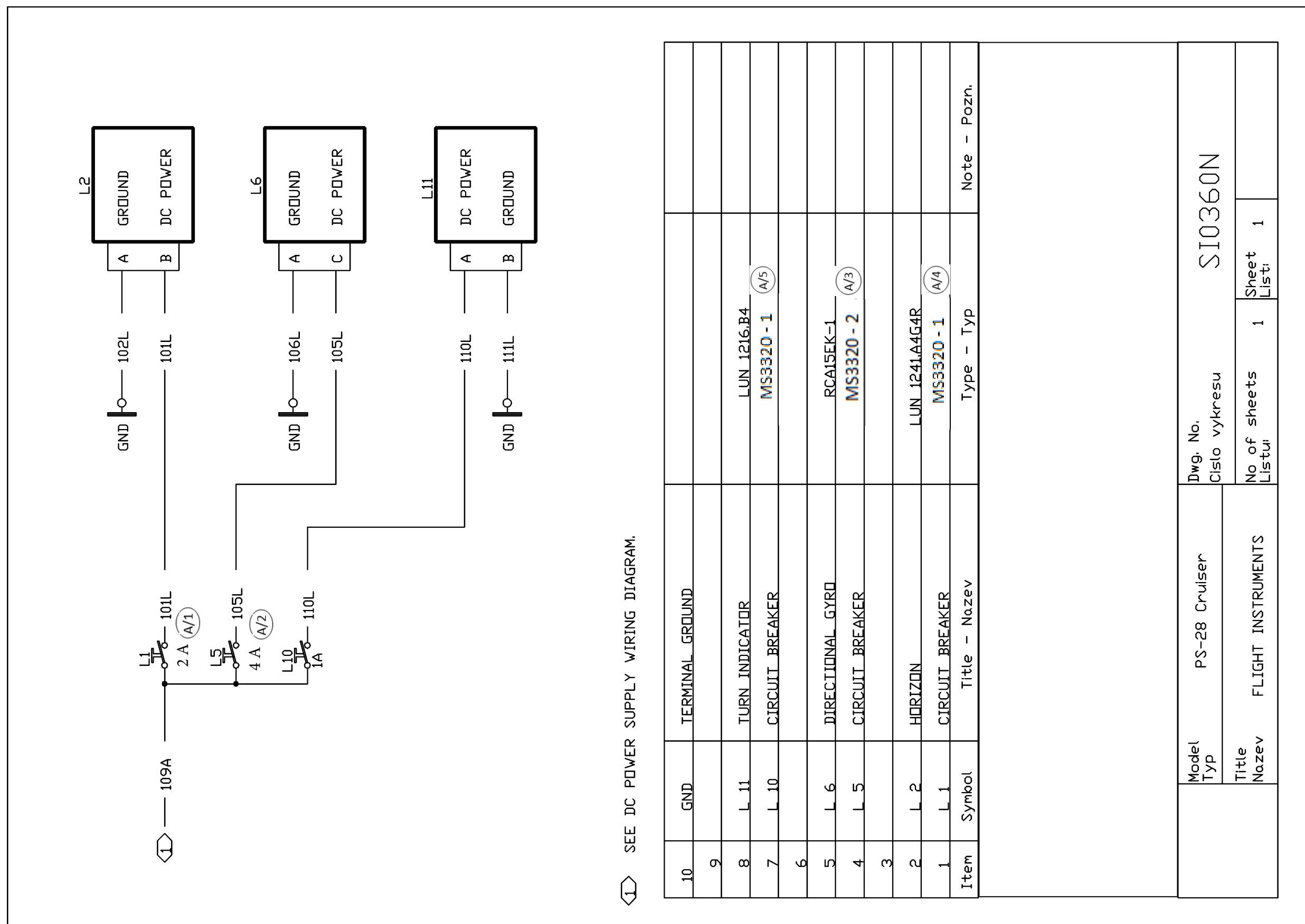
Model Typ	PS-28 Cruiser	Dwg. No.	SI0358N	
Title Nazev	SL-40	Cislo vykresu	No of sheets Listu:	1
			Sheet List:	1

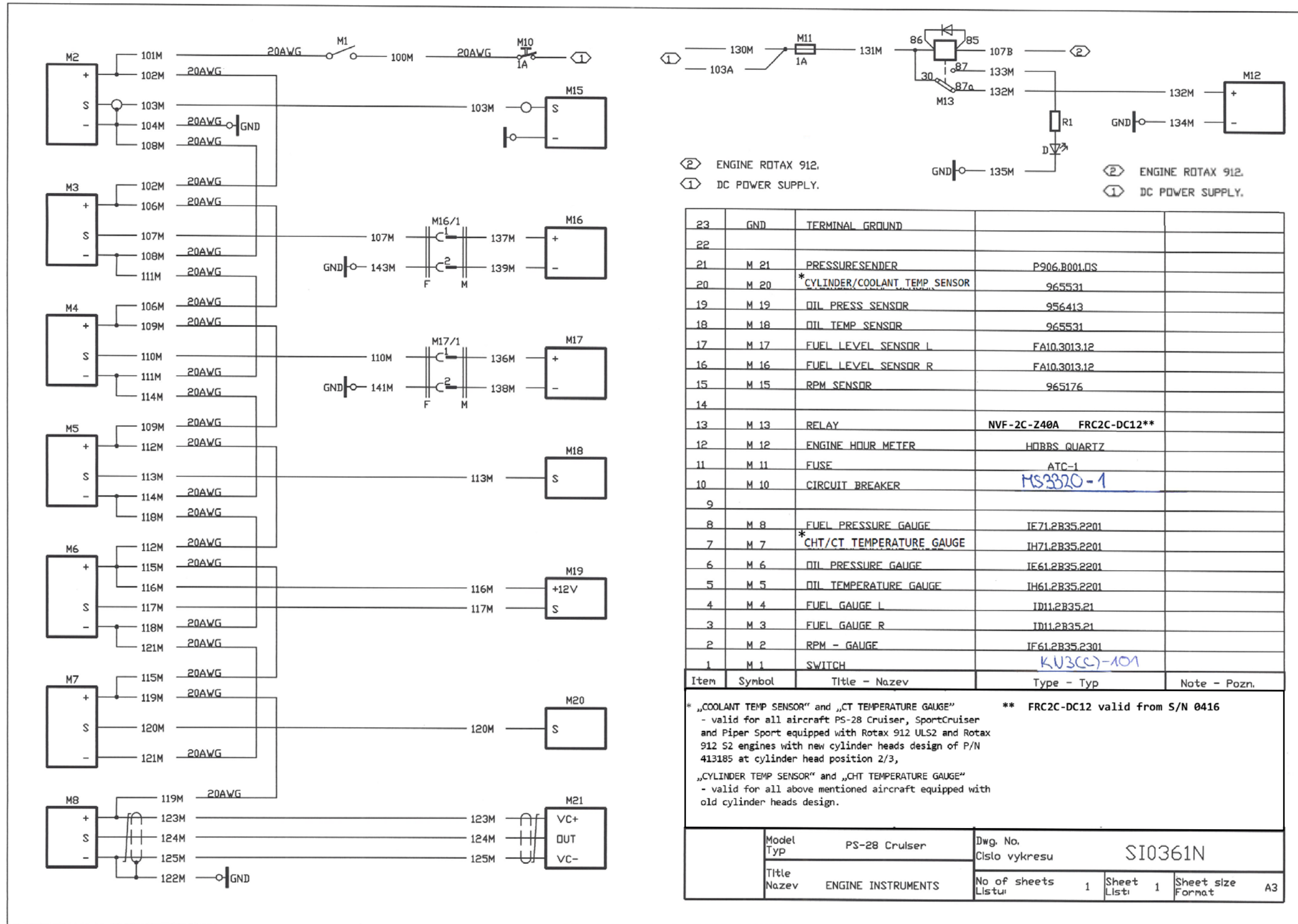


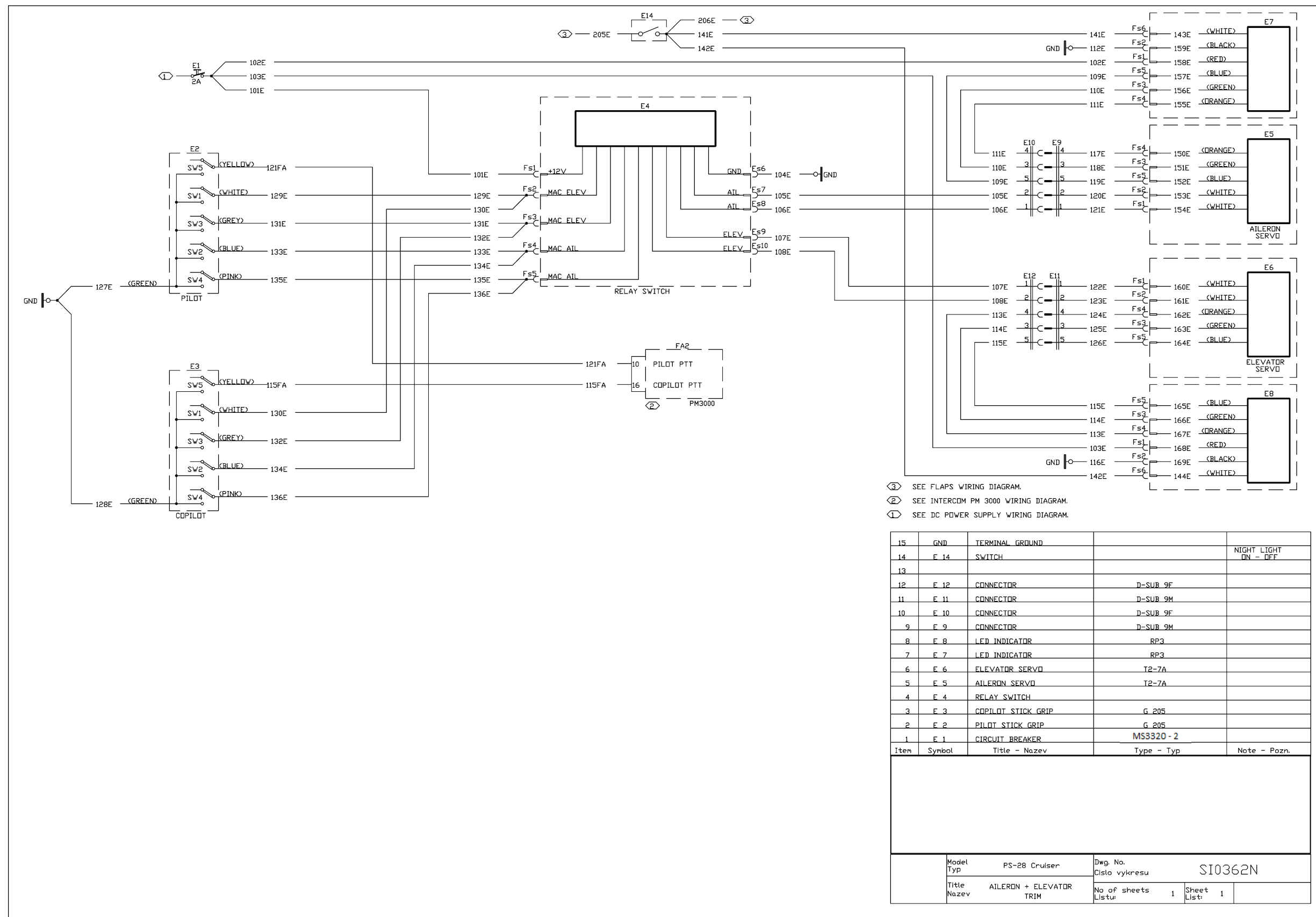
- ④ SEE AILERON+ELEVATOR TRIM WIRING DIAGRAM.
- ③ TO AUDIO LINE OUTPUT ON GPS AERA 500 Series.
- ② SEE VHF COM SL-40 WIRING DIAGRAM.
- ① SEE DC POWER SUPPLY WIRING DIAGRAM.

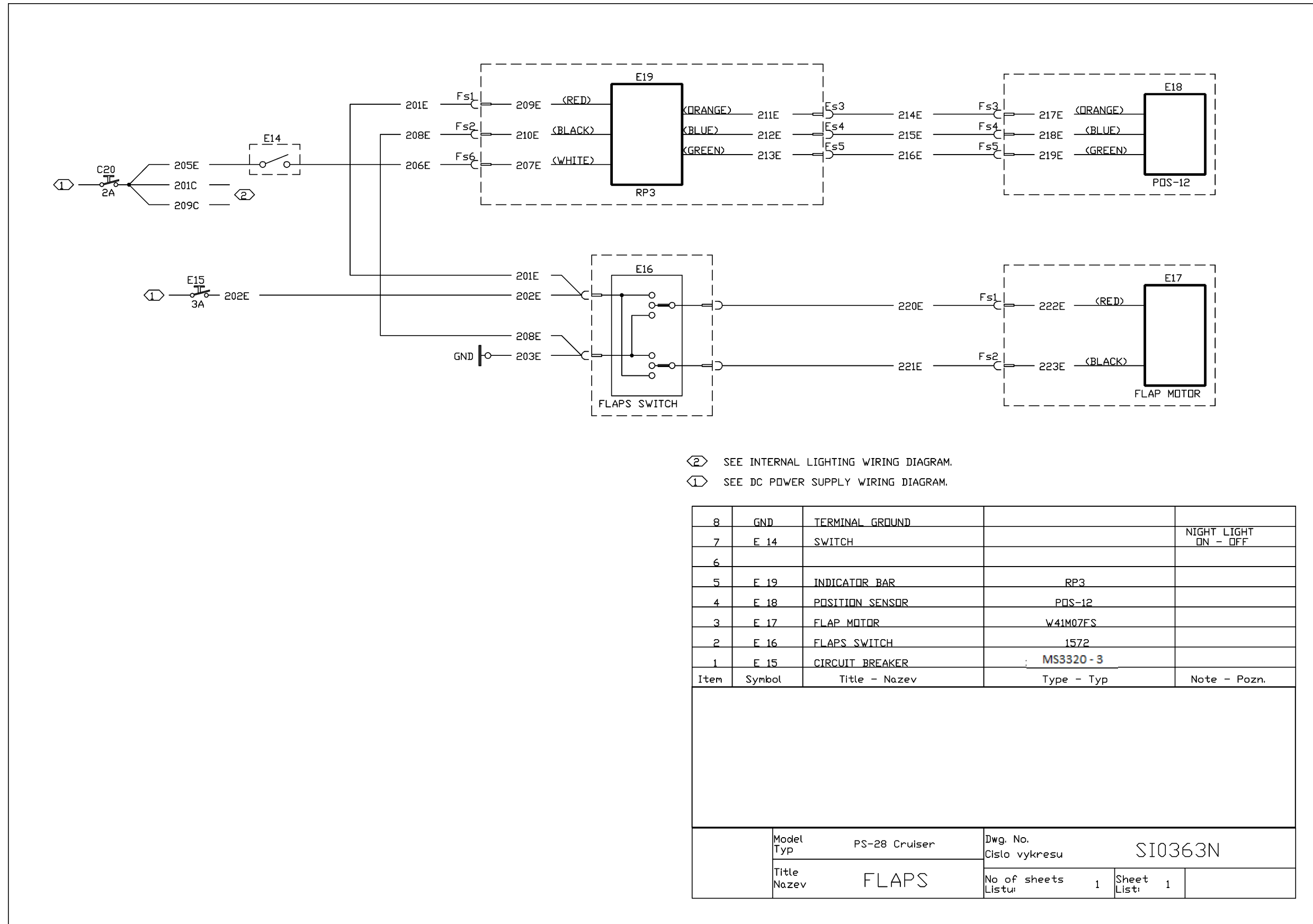
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.
15	GND	TERMINAL GROUND		
14				
13	FNS4	JACK	from instal. kit	
12				
11				
10				
9	FA 9	JACK	from instal. kit	
8				
7	FA 7	MIC JACK	from instal. kit	
6	FA 6	PHONE JACK	from instal. kit	
5				
4	FA 4	MIC JACK	from instal. kit	
3	FA 3	PHONE JACK	from instal. kit	
2	FA 2	INTERCOM	PM 3000	
1	FA 1	CIRCUIT BREAKER	MS3320-1	

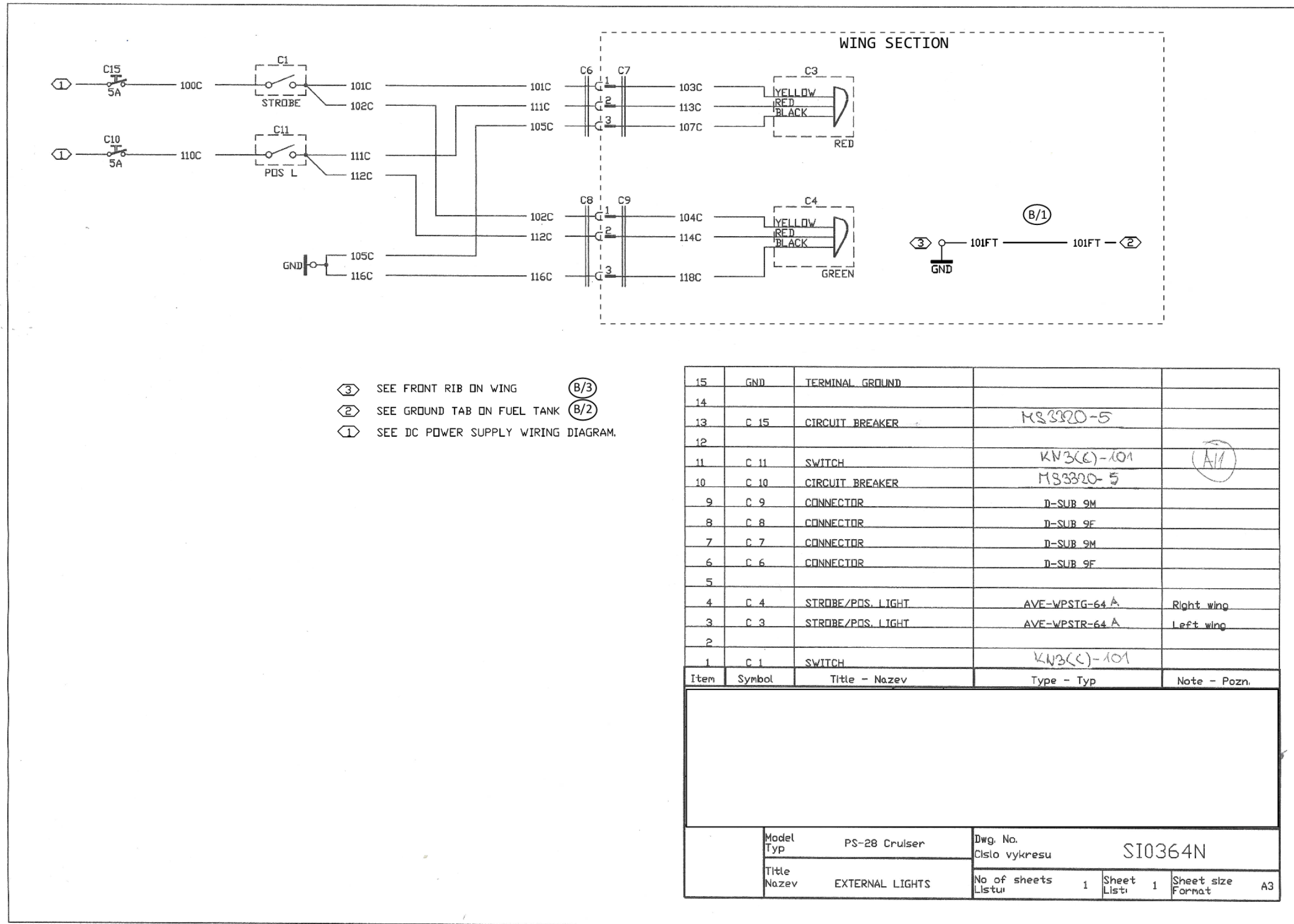
Model Typ	PS-28 Cruiser	Dwg. No. Císlo vykresu	SI0359N	
Title Nazev	PM3000	No of sheets Listu:	1	Sheet List: 1

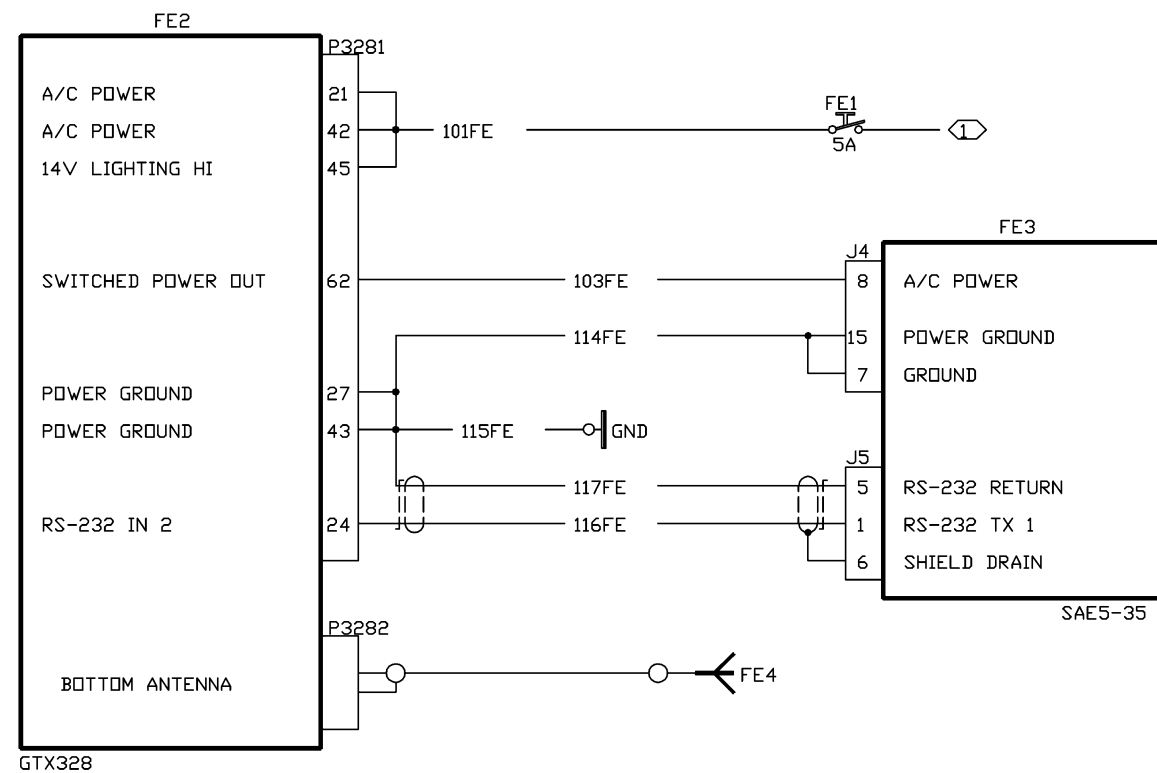








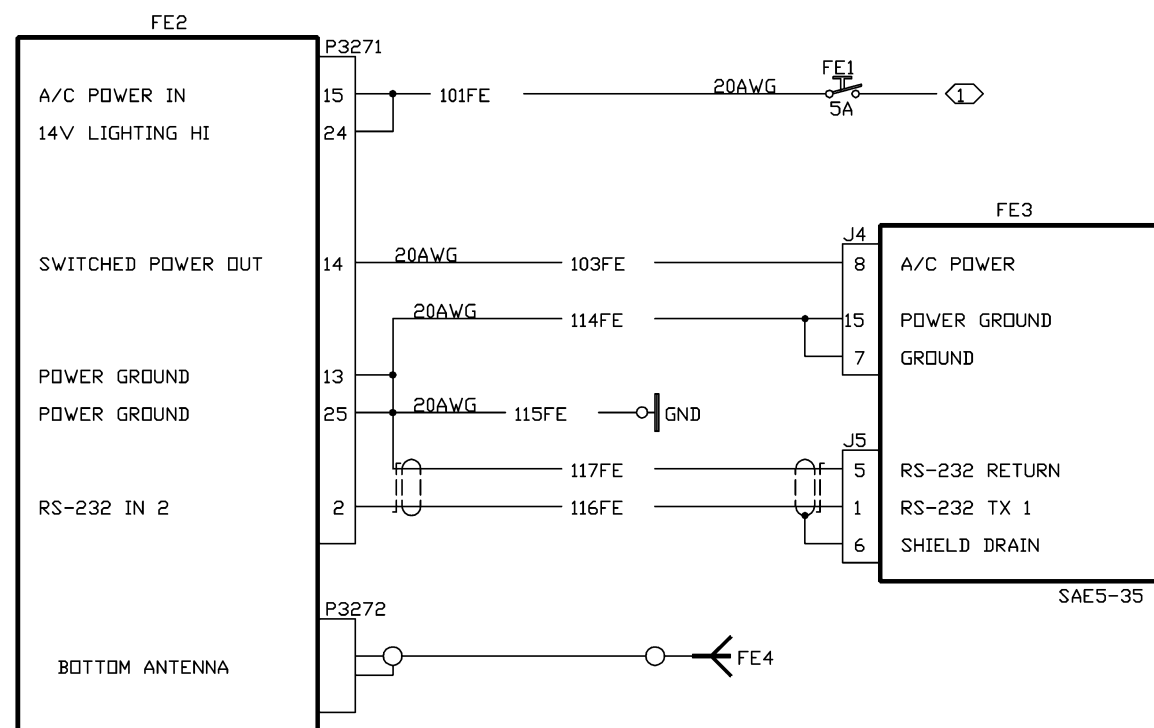




① SEE DC POWER SUPPLY WIRING DIAGRAM.

Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.
8				
7				
6	GND	TERMINAL GROUND		
5				
4	FE 4	ANTENNA	RAMI AV-22	
3	FE 3	ALT DATA SYSTEM	SAE 5-35	
2	FE 2	TRANSPONDER	GTX 328	
1	FE 1	CIRCUIT BREAKER	MS3320 - 5	

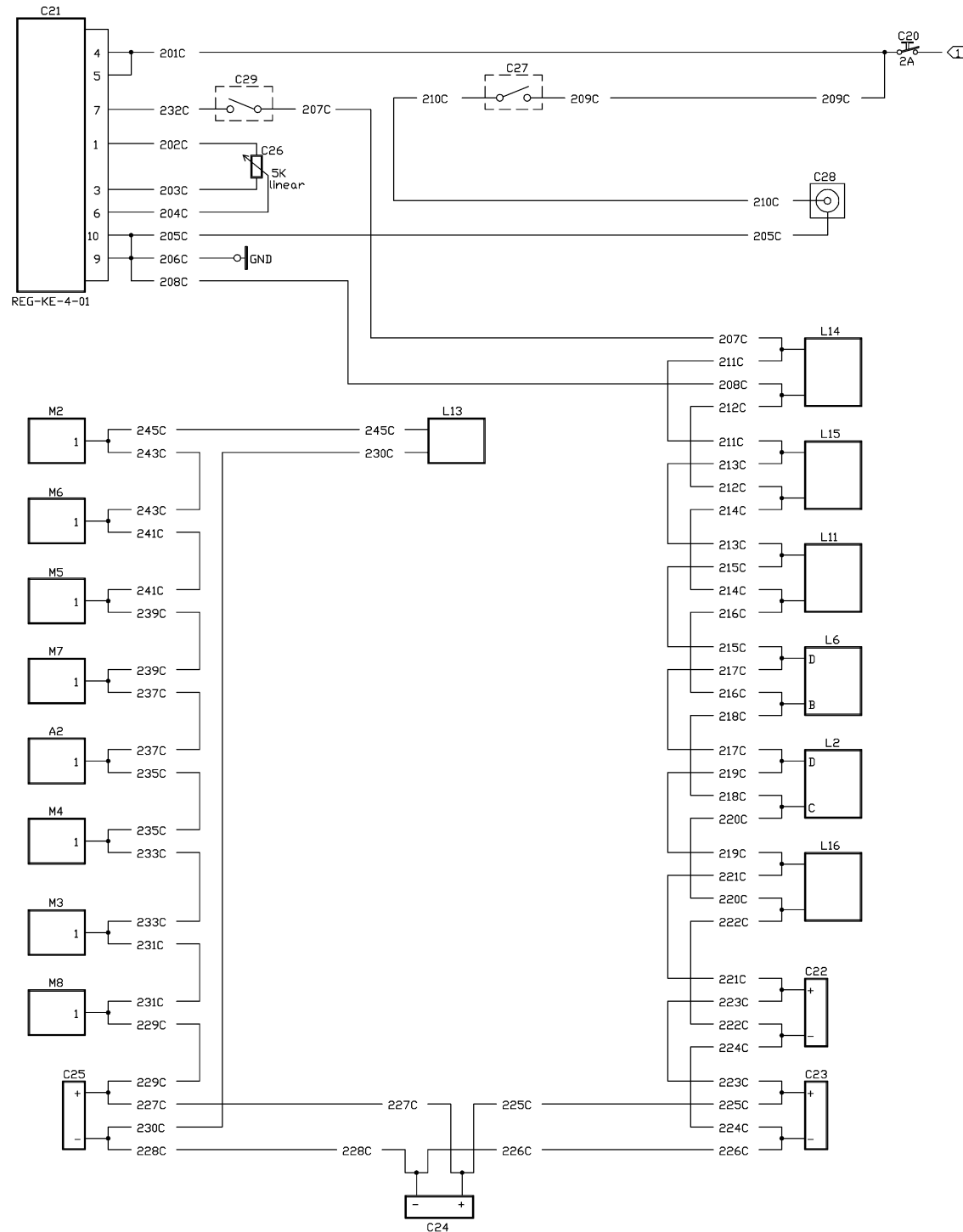
Model Typ	PS-28 Cruiser	Dwg. No. / Cislo vykresu	SI0365N	
Title / Nazev	GTX 328	No of sheets / Listu	1	Sheet List / 1



① SEE DC POWER SUPPLY WIRING DIAGRAM.

8				
7				
6	GND	TERMINAL GROUND		
5				
4	FE 4	ANTENNA	RAMI AV-22	
3	FE 3	ALT DATA SYSTEM	SAE 5-35	
2	FE 2	TRANSPONDER	GTX 327	
1	FE 1	CIRCUIT BREAKER	MS3320 - 5	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

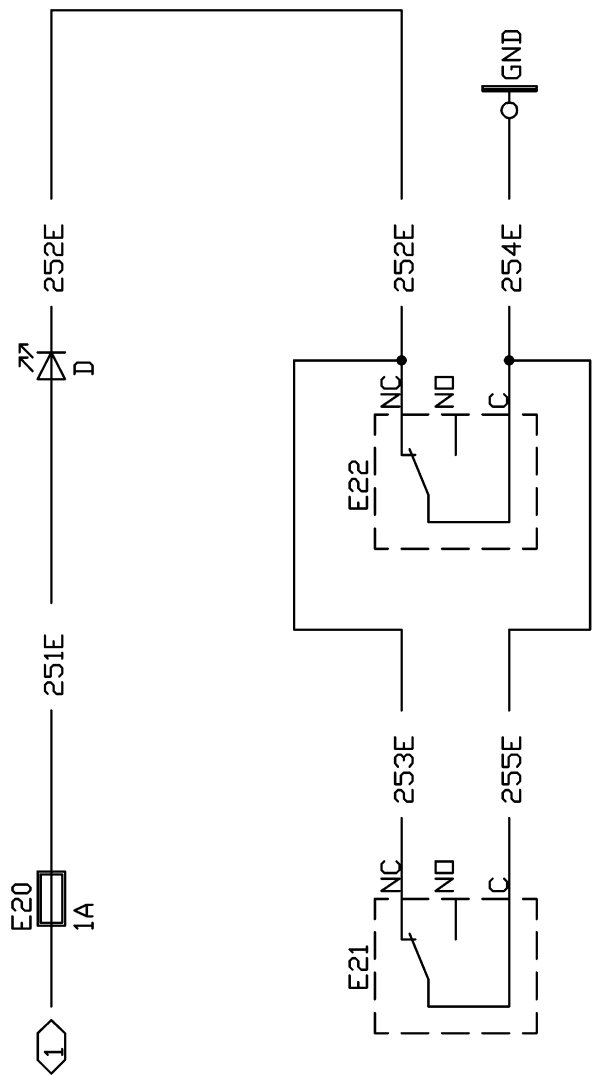
Model Typ	PS-28 Cruiser	Dwg. No.	SI0366N	
Title Nazev	GTX 327	Cislo vykresu	No of sheets Listu	Sheet List
			1	1



① SEE DC POWER SUPPLY WIRING DIAGRAM.

30	GND	TERMINAL GROUND		
29				
28	A 2	VOLTMETER	III1.2B35.2001	
27				
26	M 8	FUEL PRESSURE GAUGE	IF71.2B35.2201	
25	M 7	CHT TEMPERATURE GAUGE	IH71.2B35.2201	
24	M 6	OIL PRESSURE GAUGE	IF61.2B35.2201	
23	M 5	OIL TEMPERATURE GAUGE	IH61.2B35.2201	
22	M 4	FUEL GAUGE L	ID11.2B35.21	
21	M 3	FUEL GAUGE R	ID11.2B35.21	
20	M 2	RPM - GAUGE	IF61.2B35.2301	
19				
18	L 16	ALTITUDE INDICATOR	LUN 1128.12B6	
17	L 15	AIRSPEED INDICATOR	LUN 1116.F2B2	
16	L 14	VERTICAL SPEED IND.	LUN 1144.A2B1	
15	L 13	MAGNETIC COMPASS	PAI 700	
14	L 11	TURN AND BANK IND.	LUN 1241.A4G4R	
13	L 6	DIRECTIONAL GYRO	RCA 15EK-1	
12	L 2	HORIZON		
11				
10	C 29	SWITCH		
9	C 28	XLR CONNECTOR	XLR187	
8	C 27	SWITCH		
7	C 26	POTENTIOMETER	5K/linear	
6	C 25	LIGHT RAMP		Co-pilot's panel
5	C 24	LIGHT RAMP		Control panel
4	C 23	LIGHT RAMP		Control panel
3	C 22	LIGHT RAMP		Pilot's panel
2	C 21	REGULATOR	REG-KE-4-01	
1	C 20	CIRCUIT BREAKER	MS3320 - 2	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

Model Typ	PS-28 Cruiser	Dwg. No. Císlo vykresu	SI0367N	
Title Nazev	INTERNAL LIGHTING	No of sheets Listu	1	Sheet List 1

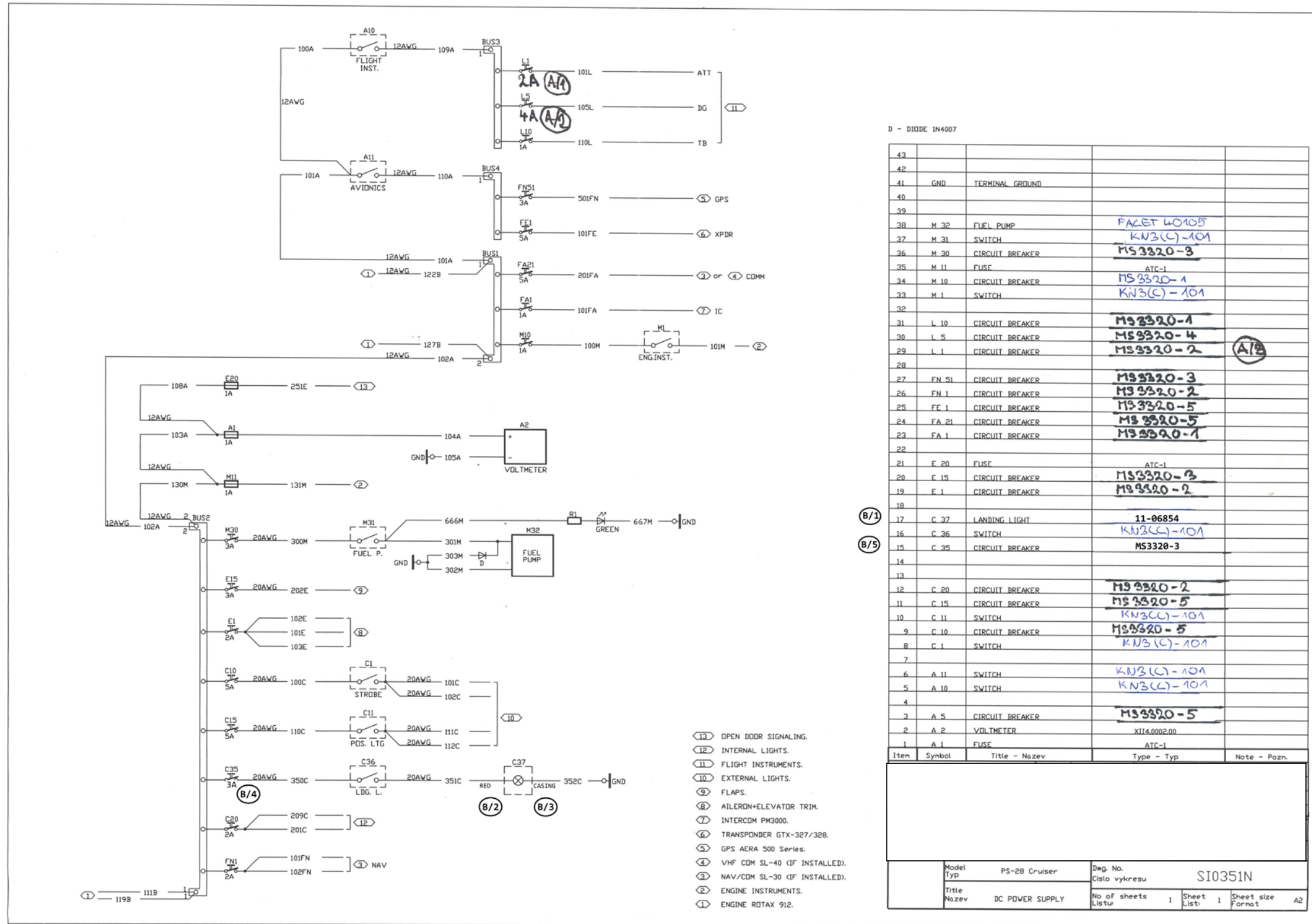


D - LED DIODE L-56BID

① SEE DC POWER SUPPLY WIRING DIAGRAM.

5	GND	TERMINAL GROUND			
4					
3	E 22	SWITCH	D2VW-5-1M		
2	E 21	SWITCH	D2VW-5-1M		
1	E 20	FUSE	ATC-1		
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.	

Model Typ	PS-28 Cruiser	Dwg. No. Císlo vykresu	SI0368N
Title Nazev	OPENED DOOR SIGNALLING	No of sheets Listu	1
		Sheet Listu	1



Valid from S/N 0571



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**CHAPTER 2 SUPPLEMENTS (GENERAL)****DESCRIPTION AND OPERATION****1. General**

This Chapter contains supplementary information on the optional equipment which is installed in the airplane.

The information given in this Chapter complete or supersede the basic Wiring Manual in those sections as specified. Where not otherwise stated, information shown in the basic Wiring Manual remains effective. Each Supplement consists of a Title Page, List of Revisions, and the proper text.

2. List of supplements

No.	Contents	Note
1.	Installation of Garmin Apollo SL30 NAV/COMM with CDI Garmin MD200-306	
2	Installation of 12 V Socket, Defogging blowers, Garmin GNC 255A NAV/COMM with CDI Garmin MD200-306, Garmin GTR 225A	



No.	Contents	Note



3. List of airplane S/No. covered by the supplement

Airplane model	Serial No.	Supplement. No.	Note
PS-28 Cruiser	C0412	1	
PS-28 Cruiser	C0435	1	



Airplane model	Serial No.	Supplement. No.	Note



**SUPPLEMENT 1 - Installation of Garmin Apollo SL30 NAV/COMM with CDI
Garmin MD200-306**

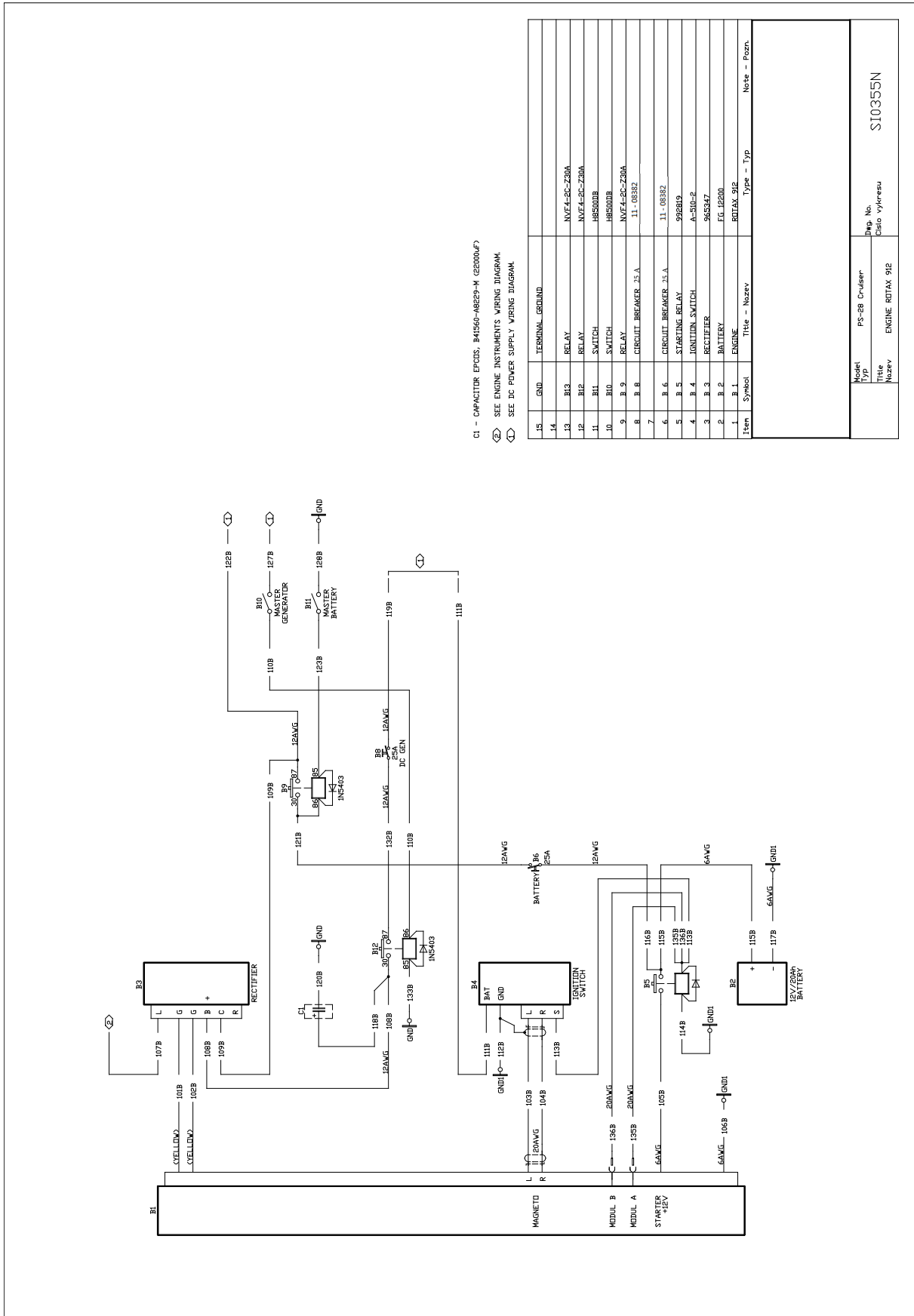
ENGINE ROTAX 912	SI0355N	6
SL-30	SI0357N	7
INTERNAL LIGHTING	SI0369N	8



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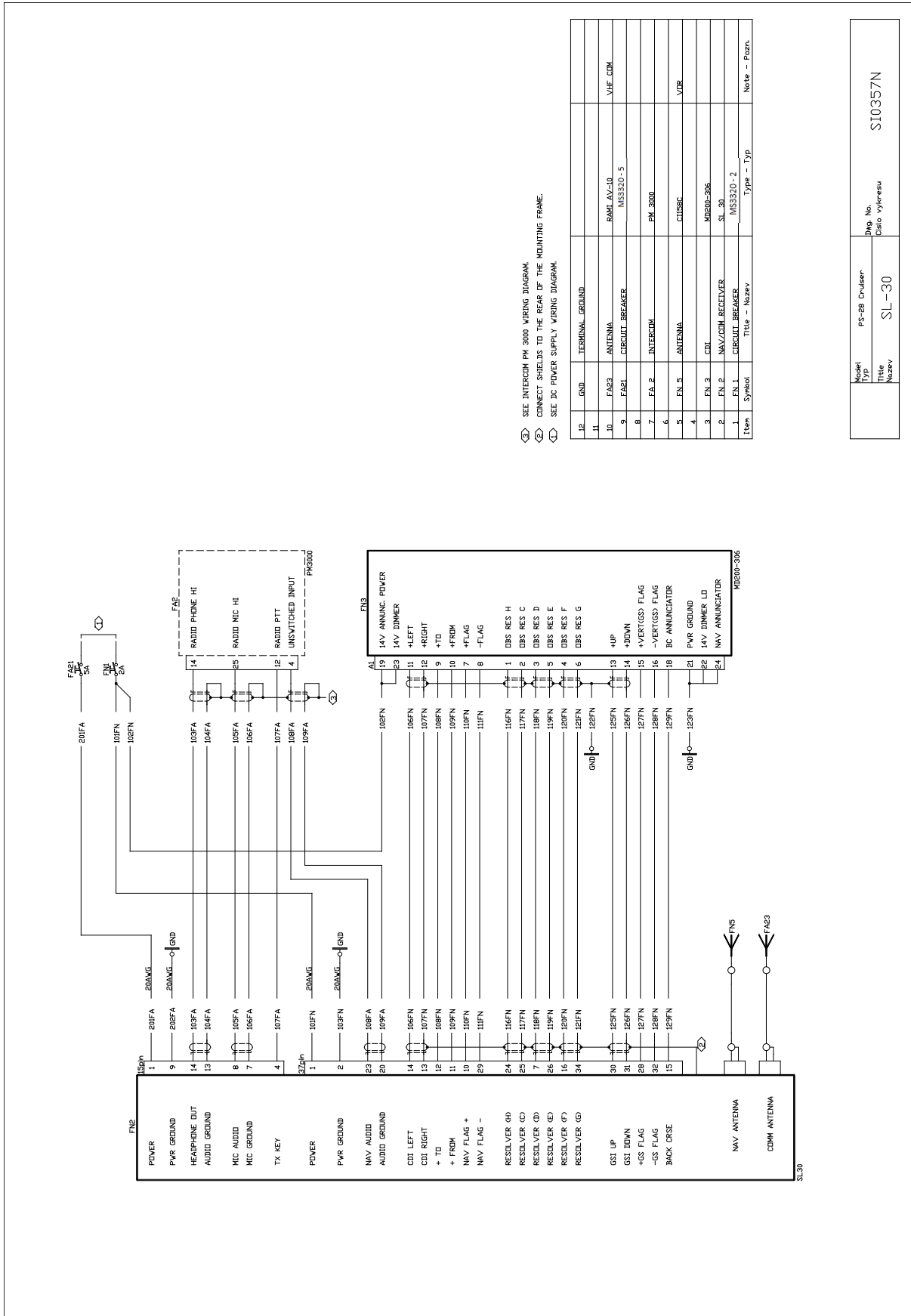
**RECORD OF REVISIONS**

Rev. No.	Revision name	Changed pages	Issue date	Date and signature
1	Administrative corrections in drawings, Name of Circuit Breaker 25A 2TC2 changed to 11-08382, name of Circuit Breaker Klixon 2TC2 changed to MS3320 -	3, 4, 5, 6, 7	2015-09-07	2015-09-07 Konečný

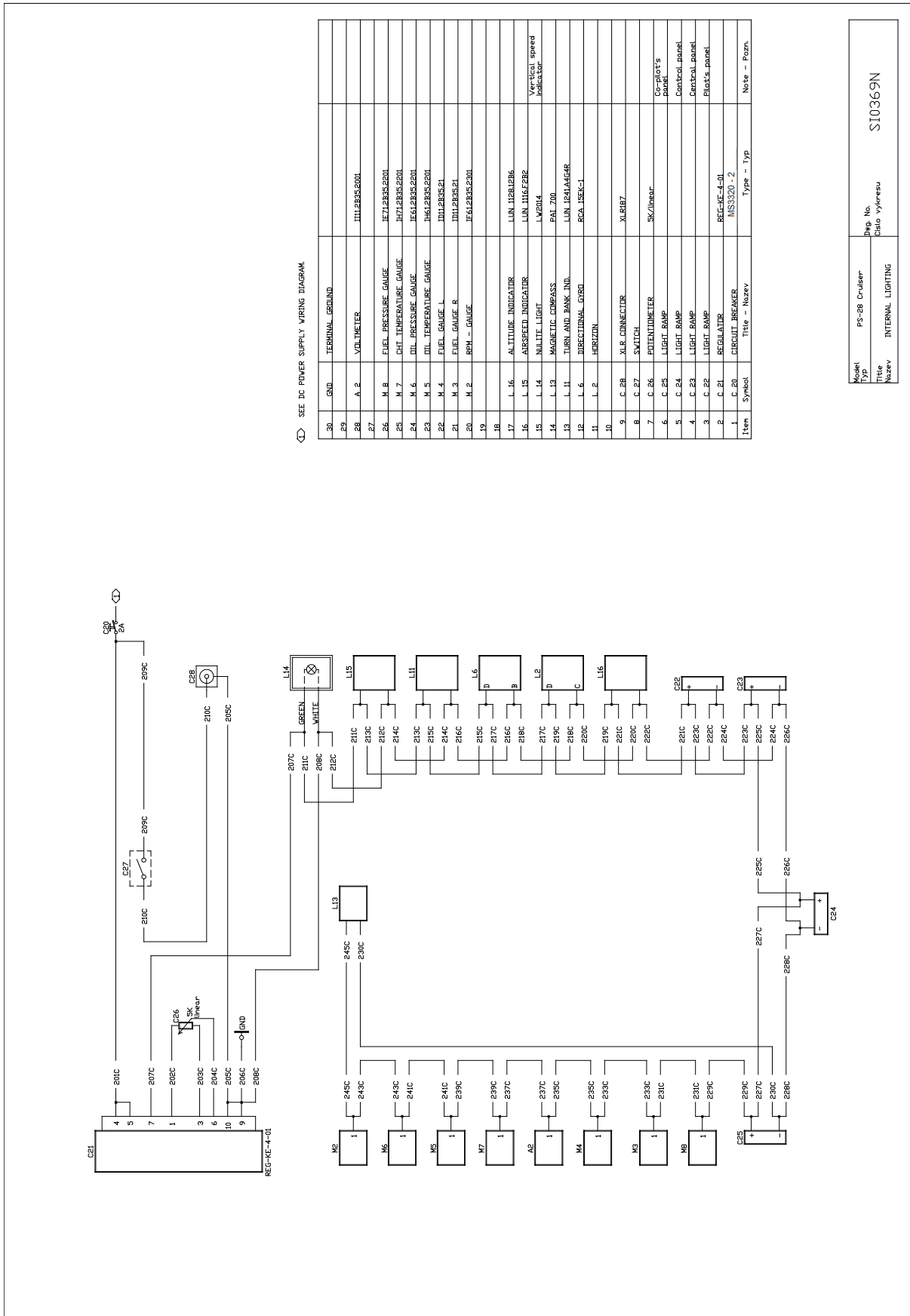


C1 - CAPACITOR EPICIS, 341560-ABE29-M (22000µF)
 SEE ENGINE INSTRUMENTS WIRING DIAGRAM.
 SEE DC POWER SUPPLY WIRING DIAGRAM.

15	END	TERMINAL_GROUND	
14	B13	RELAY	NVF4-RC-Z30A
12	B12	RELAY	NVF4-RC-Z30A
11	B11	SWITCH	H85000B
10	B10	SWITCH	H85000B
9	B 9	RELAY	NVF4-RC-Z30A
8	B 8	CIRCUIT BREAKER 25.A	11-08382
7			
6	B 6	CIRCUIT BREAKER 3.A	11-08382
5	B 5	STARTING RELAY	932810
4	B 4	IGNITION SWITCH	A-310-2
3	B 3	RECTIFIER	965347
2	B 2	BATTERY	FG 12200
1	B 1	ENGINE	ROTAX 912
Item	Symbol	Titre - Nazev	Type - Typ
			Netze - Pozn.
		PS-28 Cruiser	S10355N
		ENGINE ROTAX 912	



Model Type	PS-28 Cruiser	Draw. No.	S10357N
Title	SL-30	Draw. Name	





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- SUPPLEMENT 2 - Installation of**
- 12 V Socket
 - Defogging blowers
 - Garmin GNC 255A NAV/COMM with CDI
Garmin MD200-306
 - Garmin GTR 225A
 - Stall Warning Signalization

CONNECTOR 12V	SI0300N	5
BLOWERS	SI0312N	6
GNC255	SI1015N	7
PM3000	SI1016N	8
GTR225	SI1019N	9
PM3000	SI1020N	10
INTERNAL LIGHTING	SI1021N	11
STALL WARNING SIGNALIZATION	SI0375N	12



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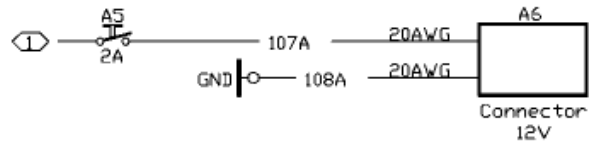
RECORD OF REVISIONS

Rev. No.	Revision name	Changed pages	Issue date	Date and signature
1	Administrative corrections in drawings, name of Circuit Breaker Klixon 2TC2 changed to MS3320 -	1, 3, 4, 5, 7, 8, 9,10, 11, 12	2015-09-07	2015-09-07



LIST OF EFFECTIVE PAGES

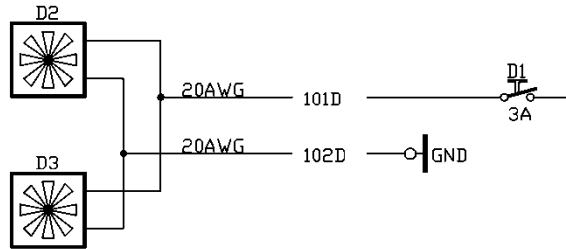
Page	Date	Page	Date	Page	Date
1	2015-09-07				
2	2014-02-24				
3	2015-09-07				
4	2015-09-07				
5	2015-09-07				
6	2014-02-24				
7	2015-09-07				
8	2015-09-07				
9	2015-09-07				
10	2015-09-07				
11	2015-09-07				
12	2015-09-07				
13	2015-09-07				



① SEE DC POWER SUPPLY WIRING DIAGRAM.

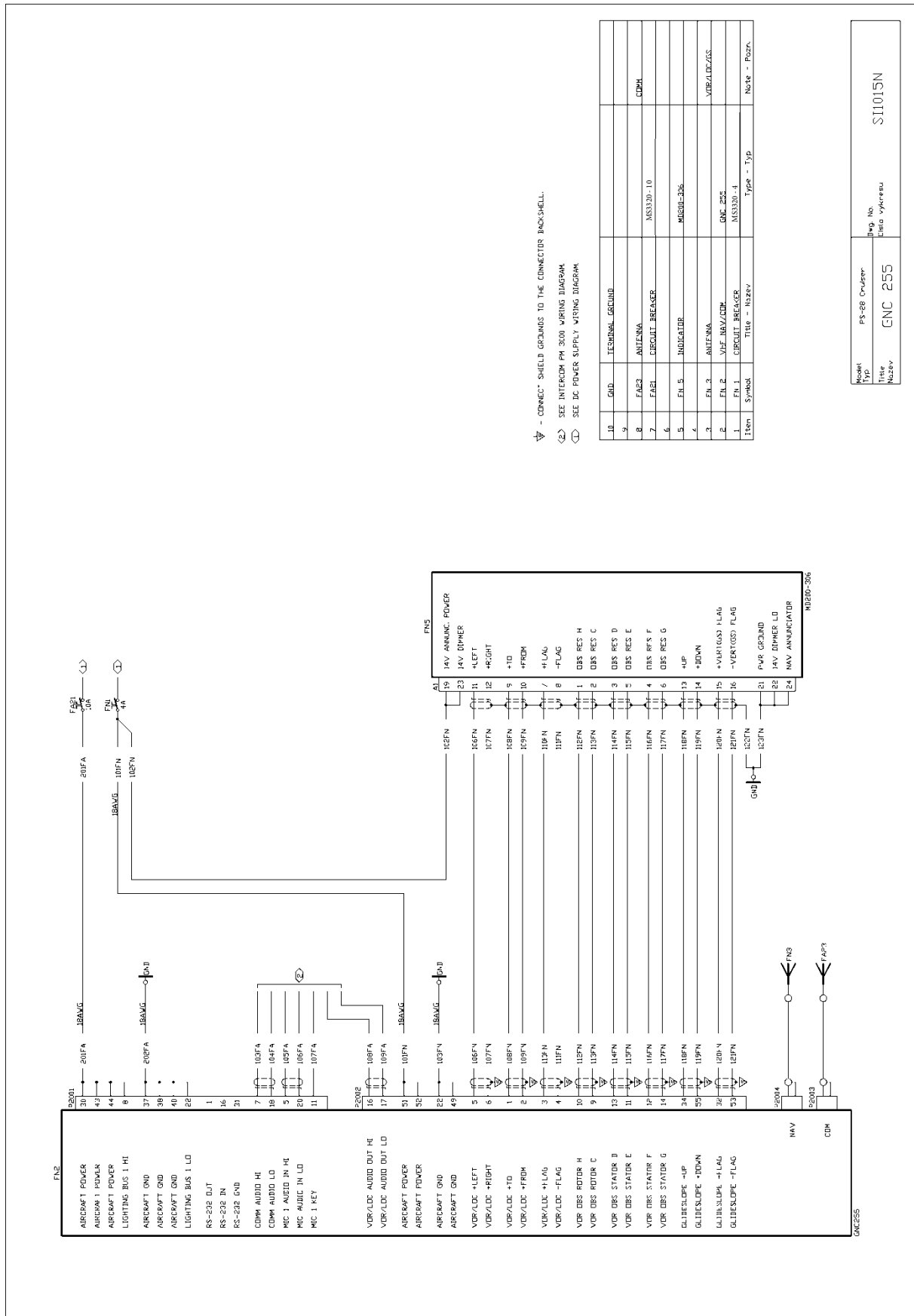
5				
4				
3				
2	A 6	CONNECTOR 12V	7400	
1	A 5	CIRCUIT BREAKER	MS3320 - 2	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

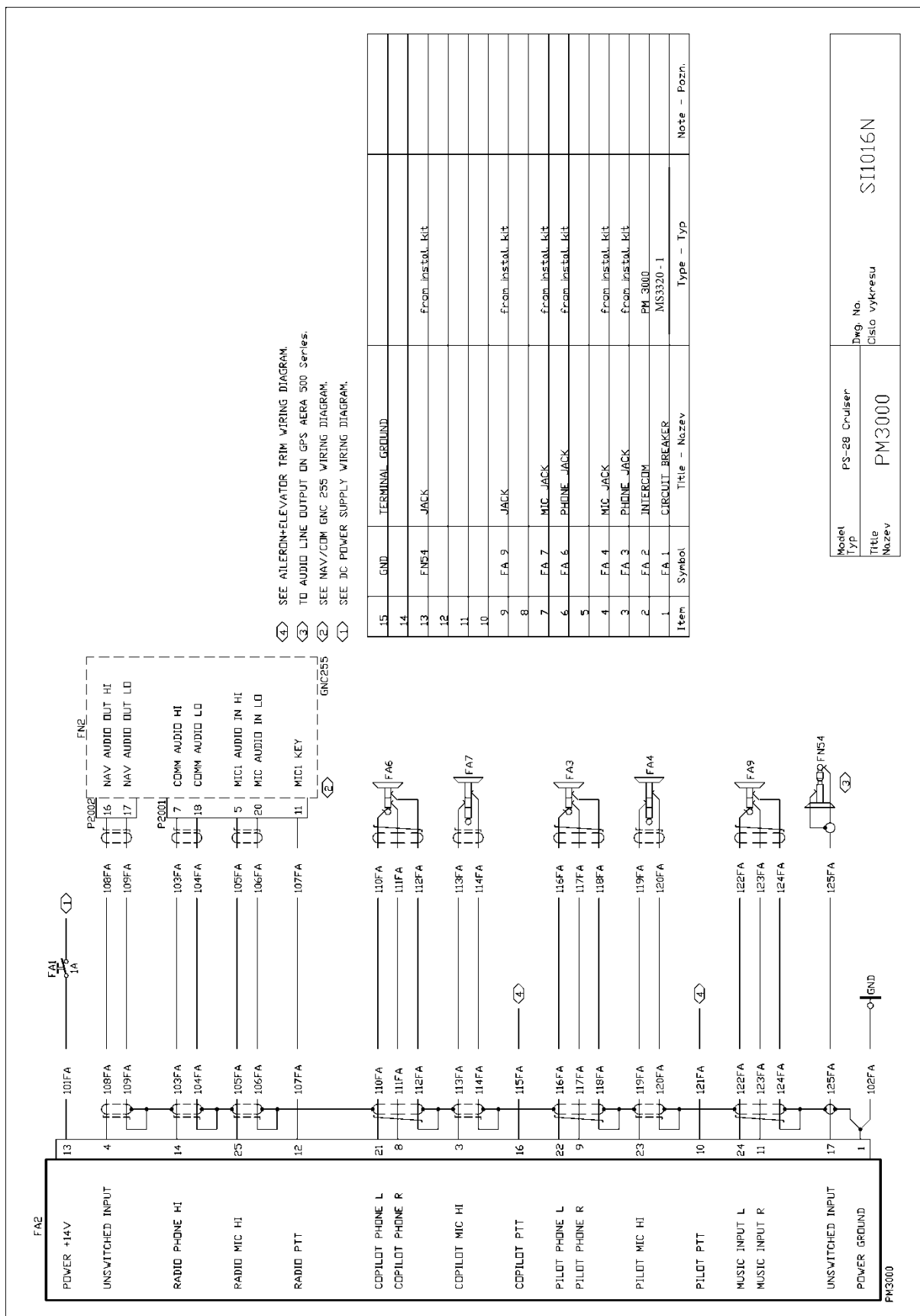
Model Typ	SportCruiser	Dwg. No.	SI0300N
Title Nazev	Connector 12V	Cislo vykresu	

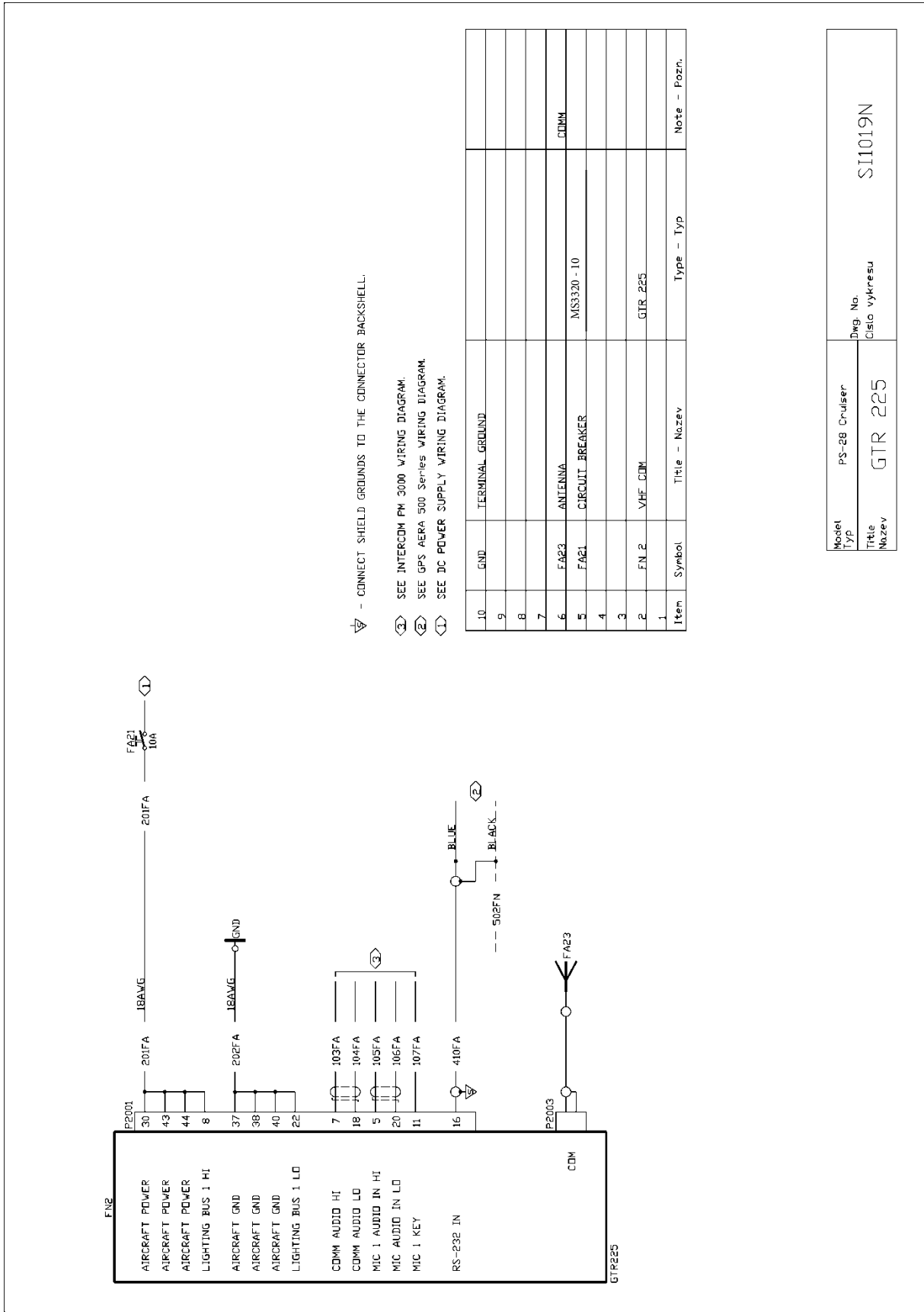


5	GND	TERMINAL_GROUND		
4				
3	D 3	BLOWER	PMD1212PMB1-A	
2	D 2	BLOWER	PMD1212PMB1-A	
1	D 1	CIRCUIT BREAKER	3A W31-X2M1G-3	
Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.

Model Typ	Dwg. No.	SI0312N
Title Nazev	Cislo vykresu	
	BLOWER	







▽ - CONNECT SHIELD GROUNDS TO THE CONNECTOR BACKSHELL.

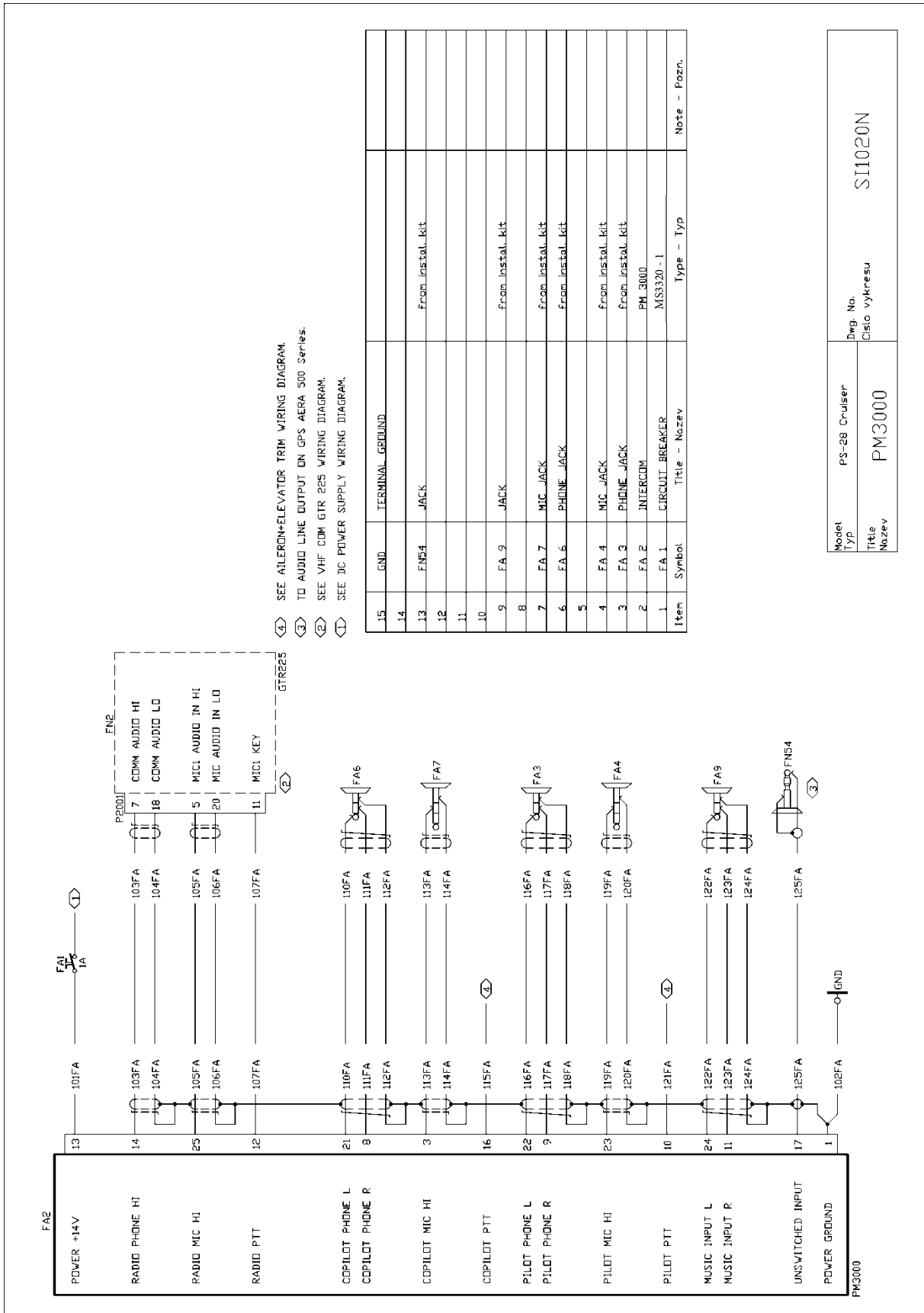
③ - SEE INTERCOM FM 3000 WIRING DIAGRAM.

② - SEE GPS AERA 500 Series WIRING DIAGRAM.

◁ - SEE DC POWER SUPPLY WIRING DIAGRAM.

Item	Symbol	Title - Nazev	Type - Typ	Note - Pozn.
10	GND	TERMINAL GROUND		
9				
8				
7				
6	FA23	ANTENNA		COMM
5	FA21	CIRCUIT_BREAKER	MS3320 - 10	
4				
3				
2	FN 2	VHF GDM	GTR_225	
1				

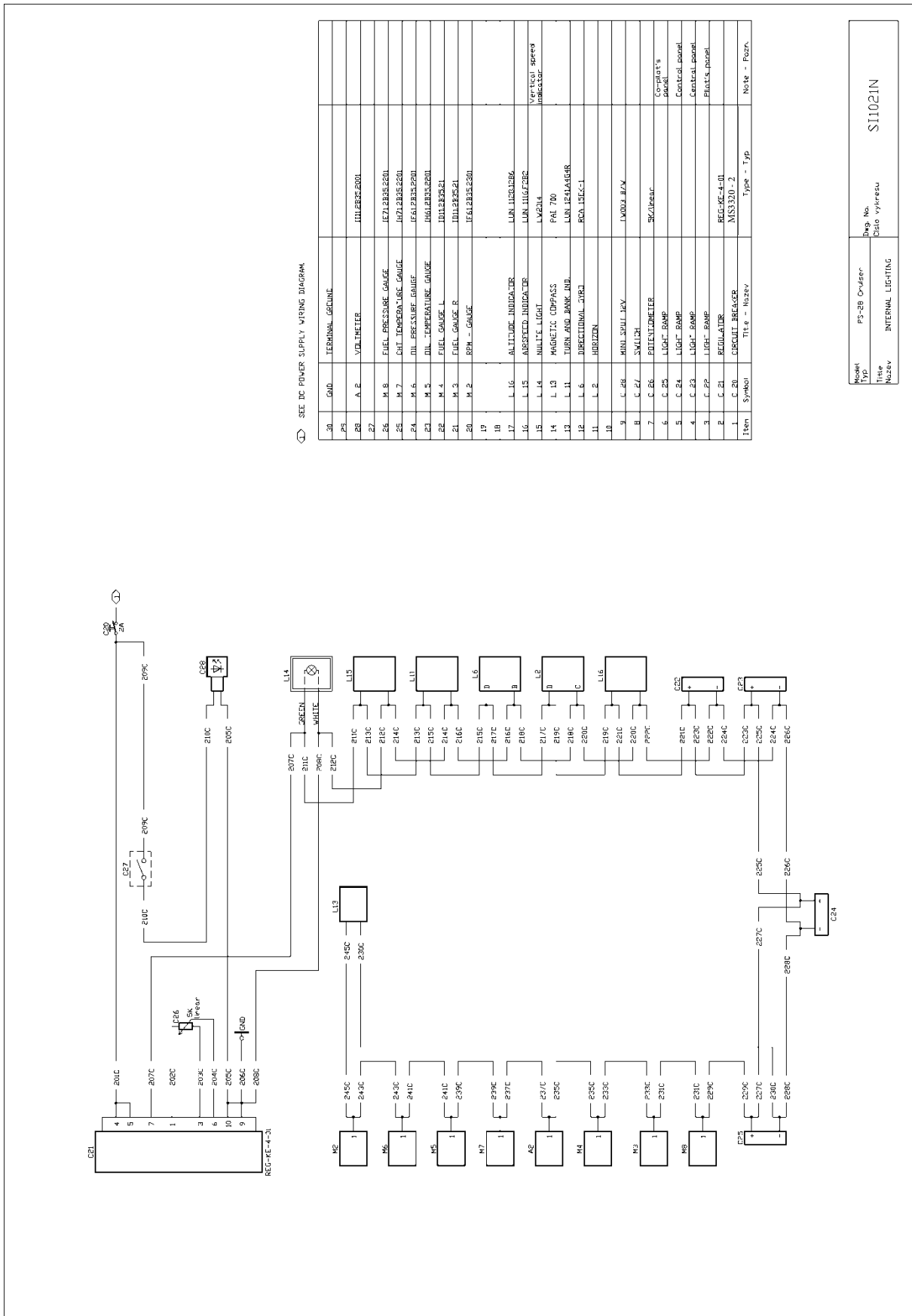
Model Typ	PS-28 Cruiser	Dwg. No.	SI1019N
Title Nazev	GTR 225	Cislo vykresu	

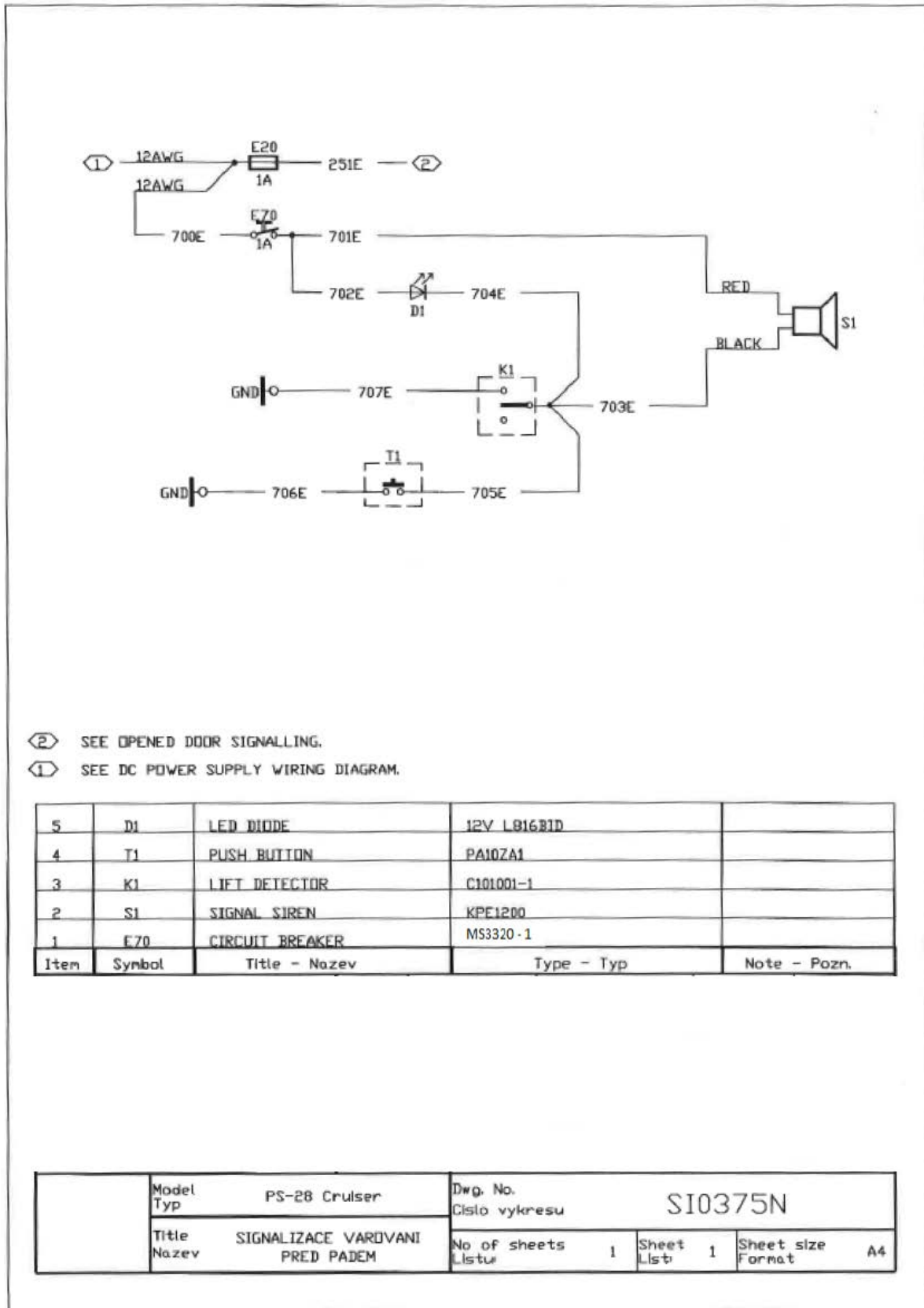


- ④ SEE AILERON/ELEVATOR TRIM WIRING DIAGRAM.
- ③ TO AUDIO LINE OUTPUT ON GPS AERA 500 Series.
- ② SEE VHF COM GTR 225 WIRING DIAGRAM.
- ① SEE DC POWER SUPPLY WIRING DIAGRAM.

Item	Symbol	Title - Nozev	Type - Typ	Note - Pozn.
15	GND	TERMINAL GROUND		
14				
13	FNS4	JACK	from instal.kit	
12				
11				
10				
9	FA 9	JACK	from instal.kit	
8				
7	FA 7	MIC JACK	from instal.kit	
6	FA 6	PHONE JACK	from instal.kit	
5				
4	FA 4	MIC JACK	from instal.kit	
3	FA 3	PHONE JACK	from instal.kit	
2	FA 2	INTERCOM	PM_3000	
1	FA 1	CIRCUIT BREAKER	MS3320 - 1	

Model Typ	PS-28 Cruiser	Dwg. No.	SI1020N
Title Nozev	PM3000	Cislo vykresu	







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