

**CHAPTER**

**91**

**WIRING DIAGRAMS**



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## GENERAL

This chapter contains electric wiring diagrams A, B, C, D, E, F, L and M.

The wiring diagram F for airplanes up to S/N 0045 including is issued in Chapter 95 (SUPPLEMENTS).

### EXPLANATORY NOTES:

- 1) Marking of conductors in diagrams:

===== shielded lead  
\_\_\_\_\_ unshielded lead

- 2) Numbering of leads in electric diagrams - example:

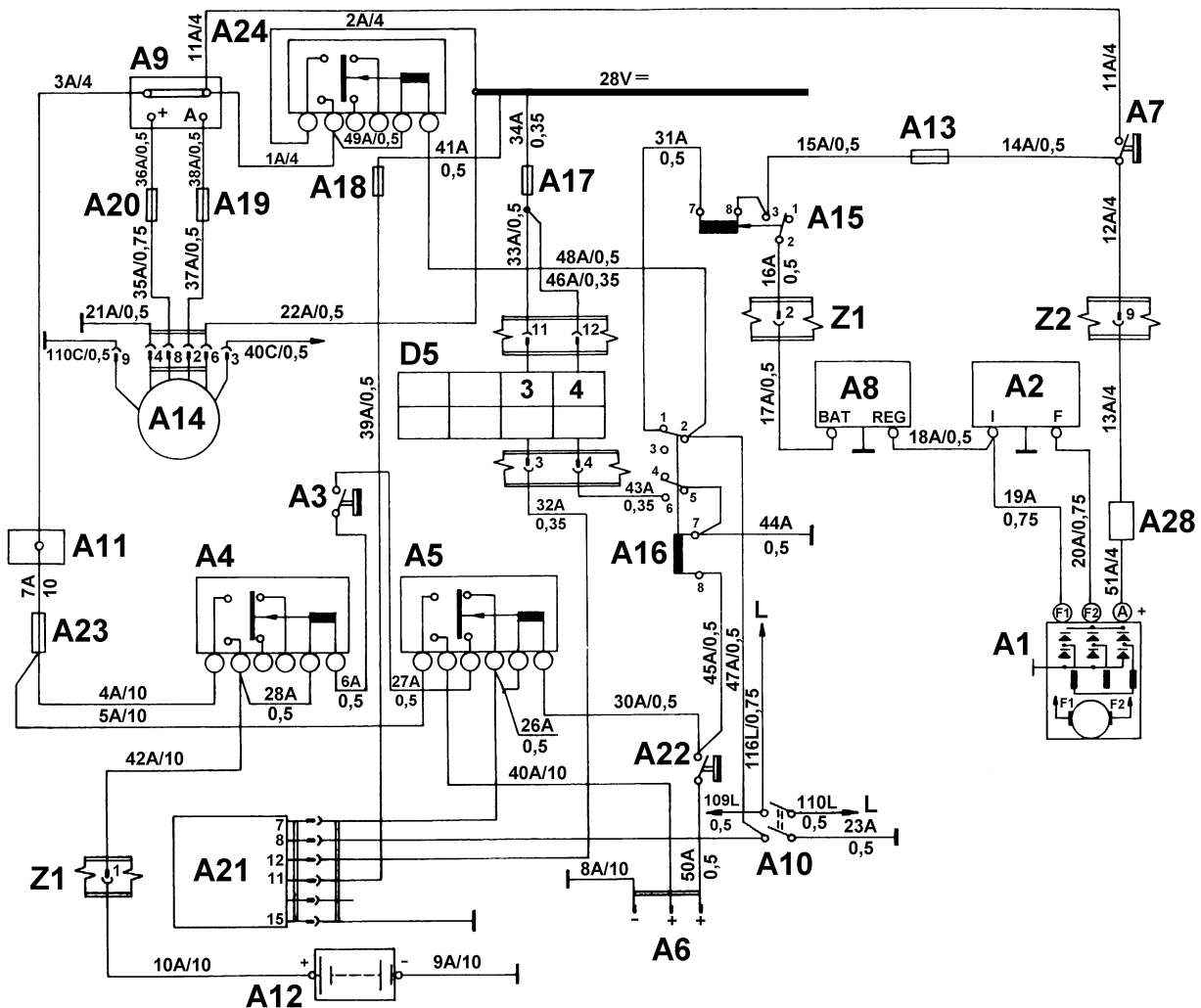
11 D / 0,75  
└──┬──┘  
└──┬──┘ conductor cross-section in mm<sup>2</sup>  
└──┬──┘ number of conductor in diagram (letter marks designation of wiring diagram)

- 3) The switches and fuses in wiring diagram are provided with labels (placards) used to designate individual parts in the airplane.

### NOTE

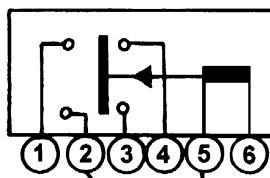
For reasons of airplane accident the wiring diagram of the Z 143 LSi airplane S/N 0042 are not described in this manual.

# CIRCUIT A

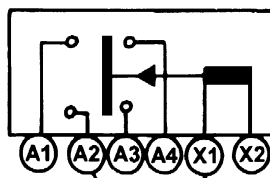


Inscriptions used in D5 light annunciator panel:

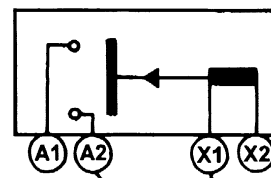
- 3 ... GENERATOR
- 4 ... EXT. POW. SOURCE



LUN 2285



MS-24187-D1



MS-24166-D2

Fig. 91-1 Alternator, external power socket, battery, VA meter, contactors  
(page 1 of 2)

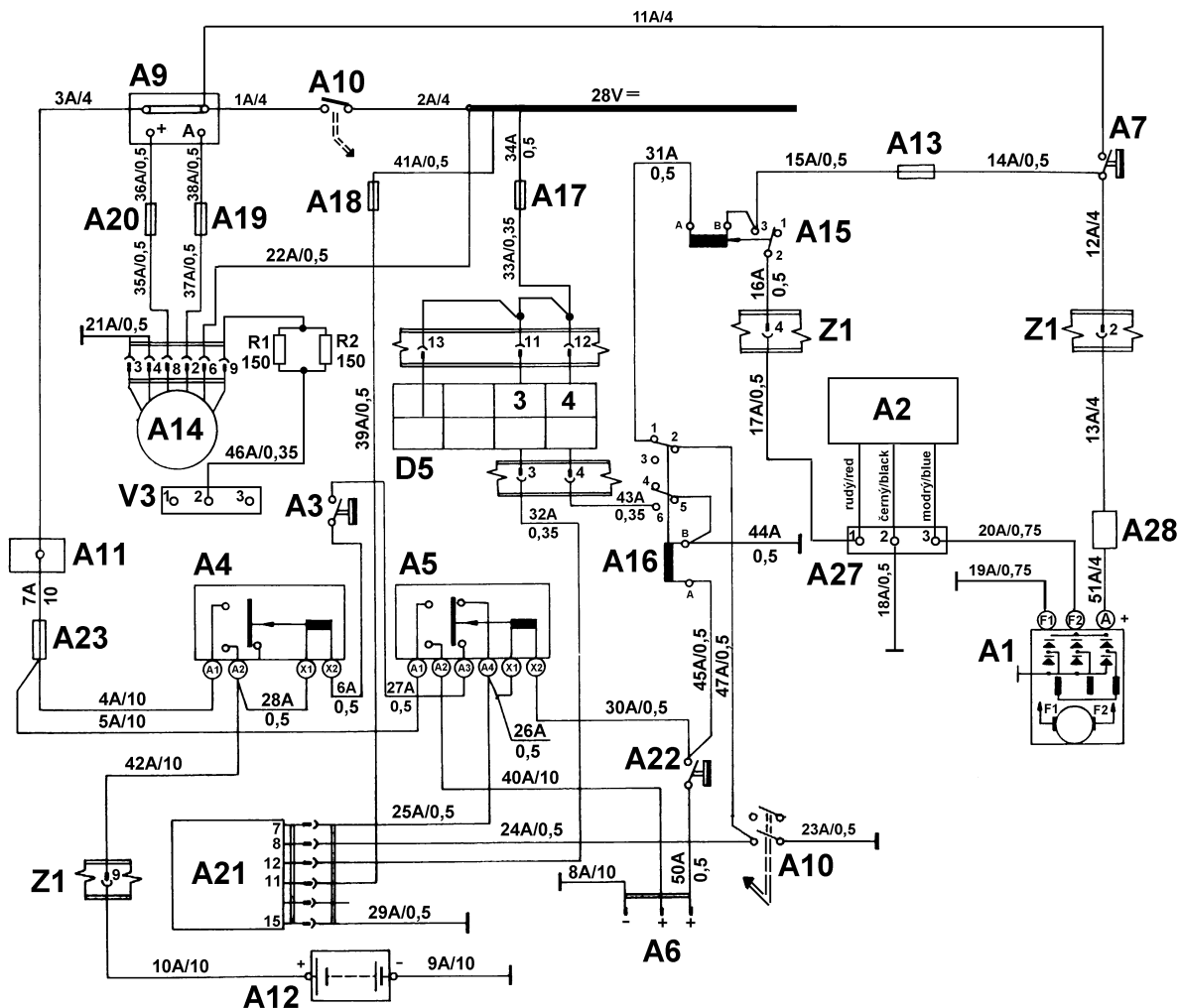
EFFECTIVITY: up to S/N 0045 incl. (except S/N 0042)

Item	Name	Type	Note	Location
A1	alternator	Prestolite 24V		Upon the engine
A2	voltage regulator	VSF 740 3A-24V		Upon firewall
A2	voltage regulator	Lamar B-00368-25 or Lamar B-00368-17L		
A3	<b>BATTERY</b> switch	AZS 5		Panel between fwd seats
A4, A5, A24	contactor	LUN 2285	up to S/N 0003	Upon firewall
A4, A24	contactor	MS-24166-D2	from S/N 0004	
A5	contactor	MS-24187-D1		
A6	external power socket	Z 142.8526-00.00		Left side of fuselage
A7	<b>GENERATOR</b> switch	AZS 30		Panel between fwd seats
A8	overvoltage relay	P/N 0575-24V	A2 regulator only	Upon firewall
A9	shunt	ŠA 240		Behind right instrument panel
A10	<b>MASTER SWITCH</b>	2 V 45		Console under instrument panel
A11	terminal board	990-226		Behind right instrument panel
A12	battery	GILL G-246 or CONCORDE RG-24		Upon firewall
A13	<b>EXCIT</b> fuse	4 A / 250 V		Console under instrument panel
A14	VA meter	LUN 2744.03-8		Instrument panel
A15, A16	relay	RP-2 or TKE 52 PDT		Upon firewall
A17	<b>ANN. PAN.</b> fuse	2 A / 250 V		Console under instrument panel
A18	<b>CHECK</b> fuse	1 A / 250 V		
A19, A20	<b>VA METER</b> fuse	1 A / 250 V		
A21	control unit	L 143.8521-00.00	(Fig. 91- 2)	Beam of fwd floors
A22	<b>EXT. POW. SOURCE</b> switch	AZS 5		Panel between fwd seats
A23	fuse	IP 250		Upon firewall
A27	terminal board	74K	A2 regulator only	
A28	alternator filter	RFI KING 100 A		Upon engine
D5	sleeve of light annunciator panel	08 LUN 2697.04-8	(Fig. 91- 8)	In middle instrument panel
Z1	ŠR 3S connector: male female	LN 30 BPE 3 Š1 LN 30 KPE 3 G1		Upon firewall
Z2	ŠR 13S connector: male female	LN 30 BPE 13 Š1 LN 30 KPE 13 G1		

Fig. 91-1 Alternator, external power socket, battery, VA meter, contactors  
(page 2 of 2)

**EFFECTIVITY:** up to S/N 0045 incl. (except S/N 0042)

# CIRCUIT A



Inscriptions used in D5 light annunciator panel:

- 3 ... GENERATOR
- 4 ... EXT. POW. SOURCE

Fig. 91-1A Alternator, external power socket, battery, VA meter, contactors  
(page 1 of 2)



Item	Name	Type	Note	Location
A1	alternator	Prestolite 24V		Upon the engine
A2	voltage regulator	Lamar B-00368-17		Upon firewall
A3	<b>BATTERY</b> switch	AZS 5		Panel between fwd seats
A4	contactor	MS-24166-D2		Upon firewall
A5	contactor	MS-24187-D1		
A6	external power socket	Z 142.8526-00.00		Left side of fuselage
A7	<b>GENERATOR</b> switch	AZS 30		Panel between fwd seats
A9	shunt	ŠA 240		Behind right instrument panel
A10	<b>MASTER SWITCH</b>	2 V 45 and V 45		Console under instrument panel
A11	terminal board	990-226		Behind right instrument panel
A12	battery	GILL G-246 or CONCORDE RG 24-20		Upon firewall
A13	<b>EXCIT</b> circuit breaker	ETA 1110-4 A		Console under instrument panel
A14	VA meter	LUN 2744.01-8		Instrument panel
A15, A16	relay	TKE 52 PDT		Upon firewall
A17	<b>ANN. PAN.</b> circuit breaker	ETA 1110-2 A		Console under instrument panel
A18	<b>CHECK</b> circuit breaker	ETA 1110-1 A		
A19, A20	<b>VA-METER</b>	ETA 1110-1 A		
A21	control unit	L 143.8521-00.00 up S/N 0052 incl. L 143.8521-00.00B from S/N 0053 incl.	(Fig. 91- 2) (Fig. 91- 2A)	Beam of fwd floors
A22	<b>EXT. POWER SOURCE</b> switch	AZS 5		Panel between fwd seats
A23	fuse	IP 250 up to S/N 0050 incl. and S/N 0052 IP 100 from S/N 0051 incl. (except S/N 0052)		Upon firewall
A27	terminal board	74K		
A28	alternator suppressor	RFI KING 100 A		Upon engine
D5	sleeve of light annunciation panel	08 LUN 2697.04-8	(Obr. 91- 8A)	In middle instrument panel
Z1	ŠR 9S connector: male female	ŠR 48 BPN 9 Š1U2 ŠR 48 KPN 9 G1U2		Upon firewall

*Fig. 91-1A Alternator, external power socket, battery, VA meter, contactors*  
(page 2 of 2)

**EFFECTIVITY:** from S/N 0046 incl.

## CIRCUIT A

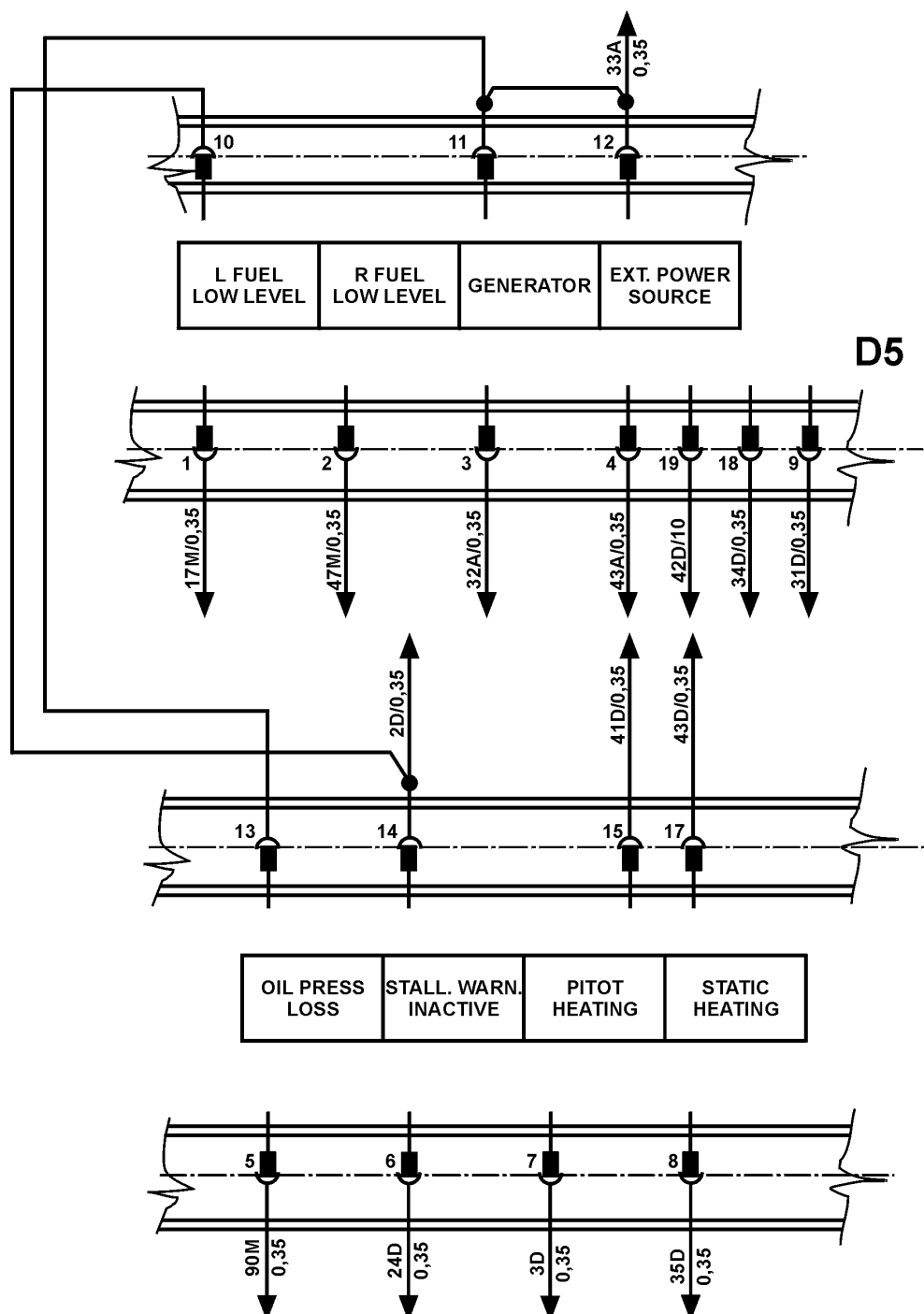


Fig. 91-1B 08 LUN 2697.04-8 light annunciation panel

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**EFFECTIVITY:** All

**91-10-00**

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# CONTROL UNIT

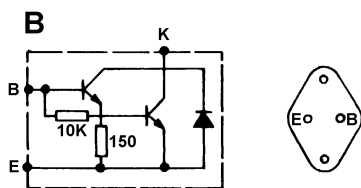
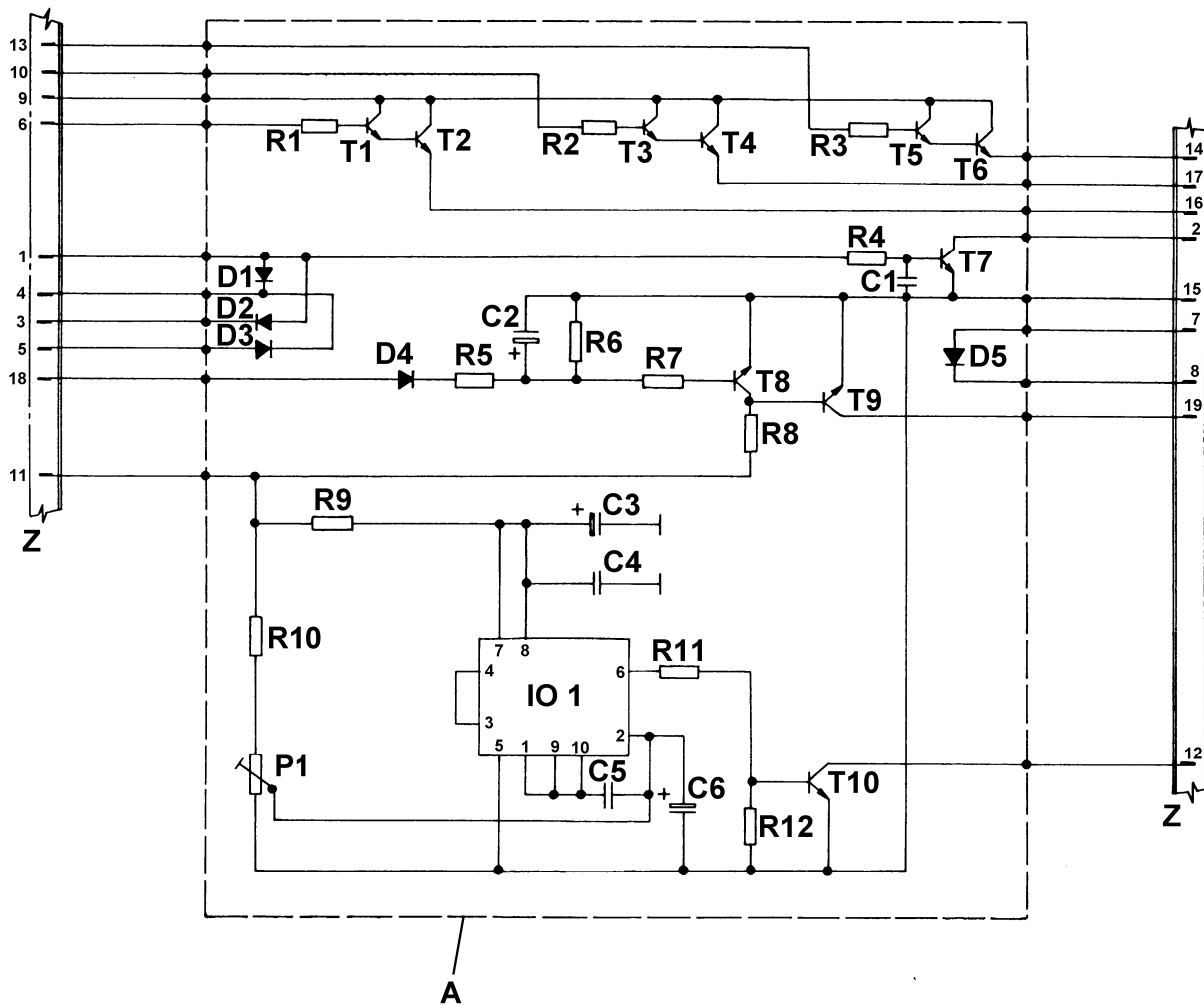


Fig. 91-2 Control unit  
(page 1 of 2)

Item	Name	Type
C1, C4	capacitor	TK 764 68K/40V
C2, C6	capacitor	TE 134 4M7
C3	capacitor	WK 705 63 47M
C5	capacitor	TK 774 100
D1, D2, D3	diode	KY 132/300
D4	diode	KA 262
D5	diode	KY 724 F
IO 1	integrated circuit	MAA 723
P1	potentiometer	TP 011 10K
R1, R2, R3, R8, R10, R11	resistor	MLT 0,5 4K7
R4	resistor	MLT 0,5 15K
R5, R6	resistor	MLT 0,5 10K
R7	resistor	MLT 0,5 22K
R9	resistor	MLT 0,5 47
R12	resistor	MLT 0,5 470
T1, T3, T5	transistor	KFY 46
T2, T4, T6	transistor	KD 502
T7	transistor	KD 367 A
T8	transistor	KC 508
T9, T10	transistor	KU 611
Z	connector	LN 45 BPE 23 Š1

A ... printed circuit  
B ... connection of KD 367 A

*Fig. 91- 2 Control unit*  
(page 2 of 2)

**EFFECTIVITY:** up to S/N 0052 incl.

# CONTROL UNIT

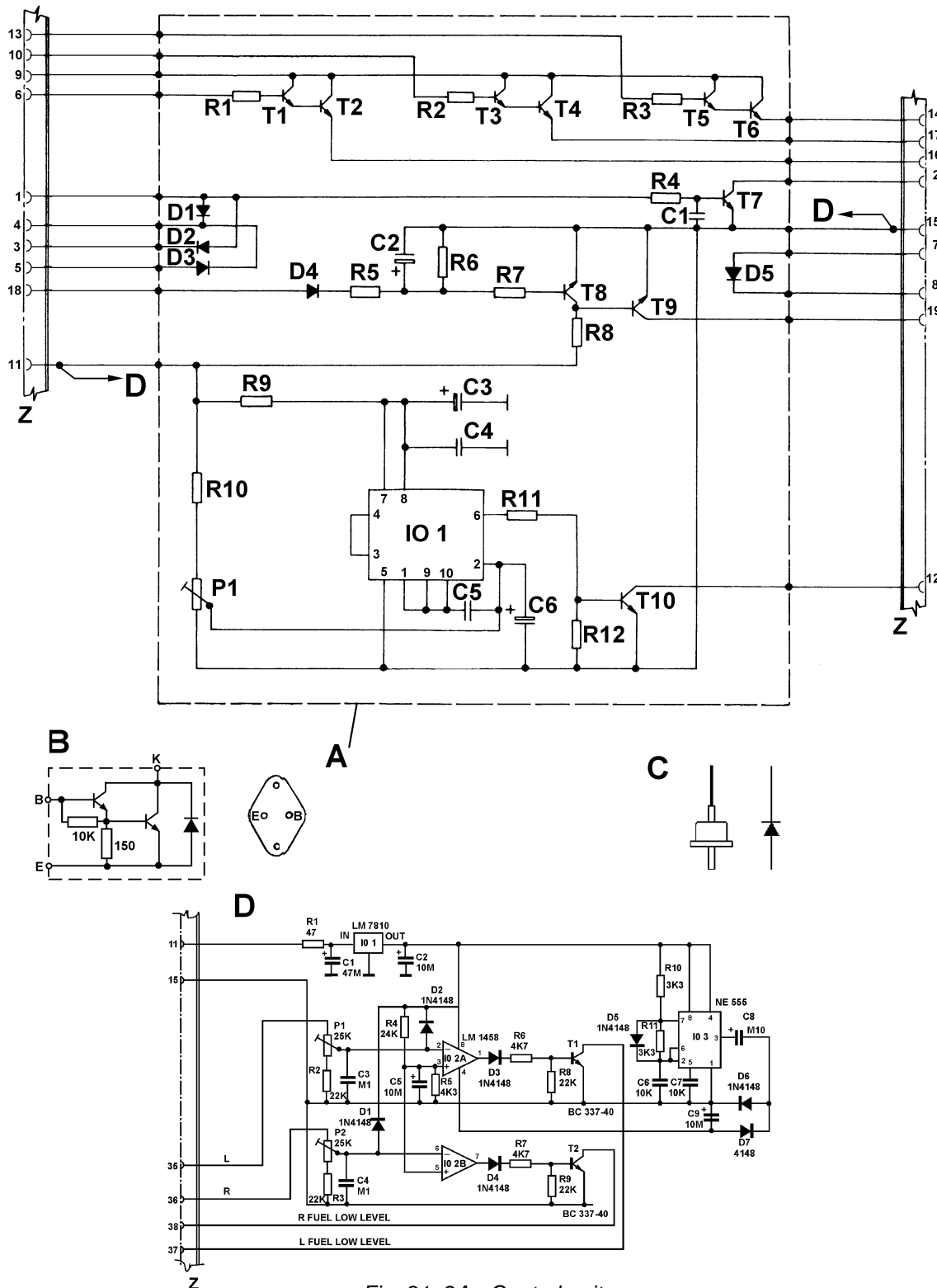


Fig. 91-2A Control unit  
(page 1 of 2)

EFFECTIVITY: from S/N 0053 incl.

Item	Name	Type
A		
C1, C4	capacitor	TK 764 68K/40V
C2, C6	capacitor	TE 134 4M7
C3	capacitor	WK 705 63 47M
C5	capacitor	TK 774 100
D1, D2, D3	diode	KY 132/300
D4	diode	KA 262
D5	diode	KY 724 F
IO 1	integrated circuit	MAA 723
P1	potentiometer	TP 011 10K
R1, R2, R3, R8, R10, R11	resistor	MLT 0,5 4K7
R4	resistor	MLT 0,5 15K
R5, R6	resistor	MLT 0,5 10K
R7	resistor	MLT 0,5 22K
R9	resistor	MLT 0,5 47
R12	resistor	MLT 0,5 470
T1, T3, T5	transistor	KFY 46
T2, T4, T6	transistor	KD 502
T7	transistor	KD 367 A
T8	transistor	KC 508
T9, T10	transistor	KU 611
Z	male	AMP 23-57
D		
IO 1	integrated circuit	LM 7810
IO 2	integrated circuit	LM 1458
IO 3	integrated circuit	NE 555
T1, T2	transistor	BC 337-40
D1, D2, D3, D4, D5, D6, D7	diode	1N 4148
C1	capacitor	E 47/50VT
C2,C5, C8, C9	capacitor	E 10M/50VT
C3, C4	capacitor	CK100N/63V
C6,C7	capacitor	CK10N/100V
R1	resistor	RR 47R
R2, R3, R8, R9	resistor	RR 22K
R4	resistor	RR 24K
R5	resistor	RR 4K3
R6, R7	resistor	RR 4K7
R10, R11	resistor	RR 3K3
P1, P2	trimming resistor	PTC 10V K025
Z	male	AMP 23-57

A ... printed circuit

B ... connection of KD 367 A

C ... Diode KY 724F

D ... fuel low levels signalling diagram

*Fig. 91- 2A Control unit  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0053 incl.

# CIRCUIT B

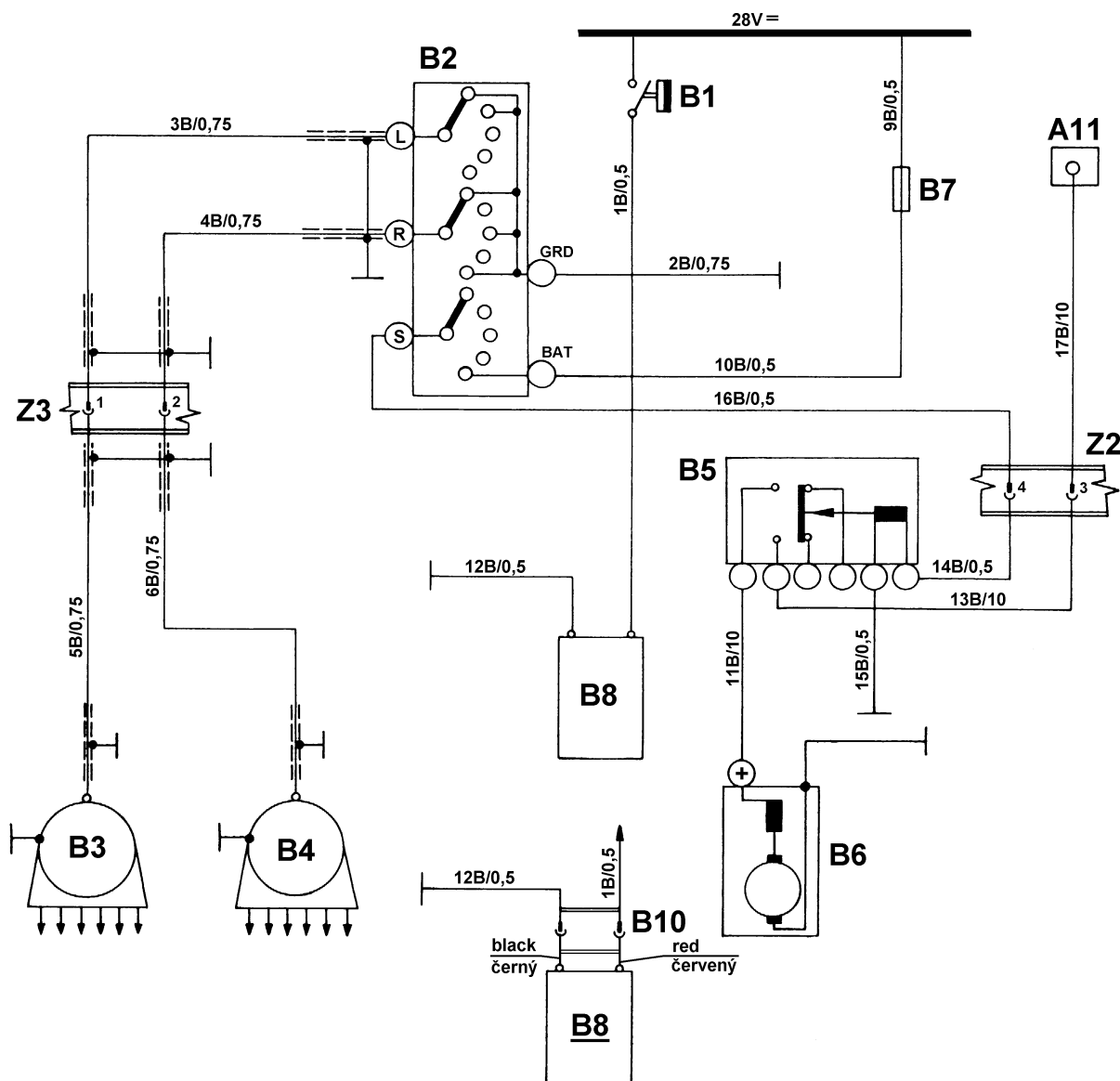


Fig 91-3 Engine start-up and ignition  
(page 1 of 2)



Item	Name	Type	Note	Location
A11	terminal board	990-266		Behind right instrument panel
B1	<b>FUEL PUMP</b> switch	AZS 5		Panel between fwd seats
B2	magneto switch	BENDIX 10-357200-1		Console under instrument panel
B3	magneto L (BENDIX)	-----	a part of engine	Engine
B4	magneto P (BENDIX)	-----		
B5	contactor	LUN 2285	up to S/N 0003 (Fig. 91-1)	Upon firewall
B5	contactor	MS-24166-D2	from S/N 0004 (Fig. 91-1)	
B6	starter motor	-----	a part of engine	Engine
B7	<b>STARTER</b> fuse	2 A / 250 V		Console under instrument panel
B8	electric booster pump	FACET 476088	up to S/N 0014	Fwd fuselage latticework
<u>B8</u>	electric booster pump	WELDON A 8150-B1	from S/N 0015	
B10	connector	FASTIN-FASTO N 2,8		
Z2	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall
Z3	ŠR 4S connector: male female	LN 24 BPE 4 Š1 LN 24 KPE 4 G1		

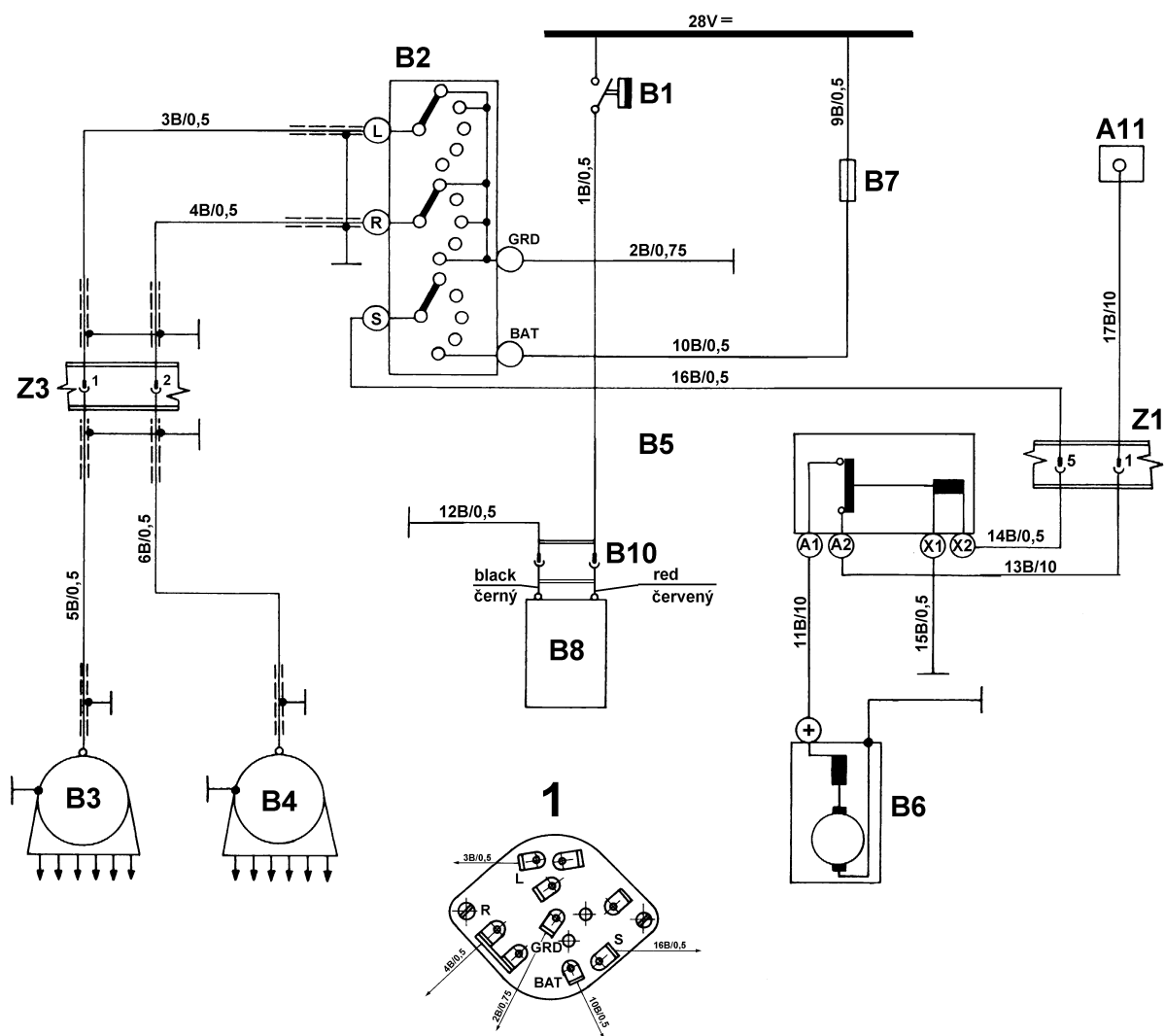
*Fig 91-3 Engine start-up and ignition  
(page 2 of 2)*

**EFFECTIVITY:** up to S/N 0045 incl.

**91-20-00**

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2011-02-02

# CIRCUIT B



**NOTE:**

- 1 Connection of switch B2

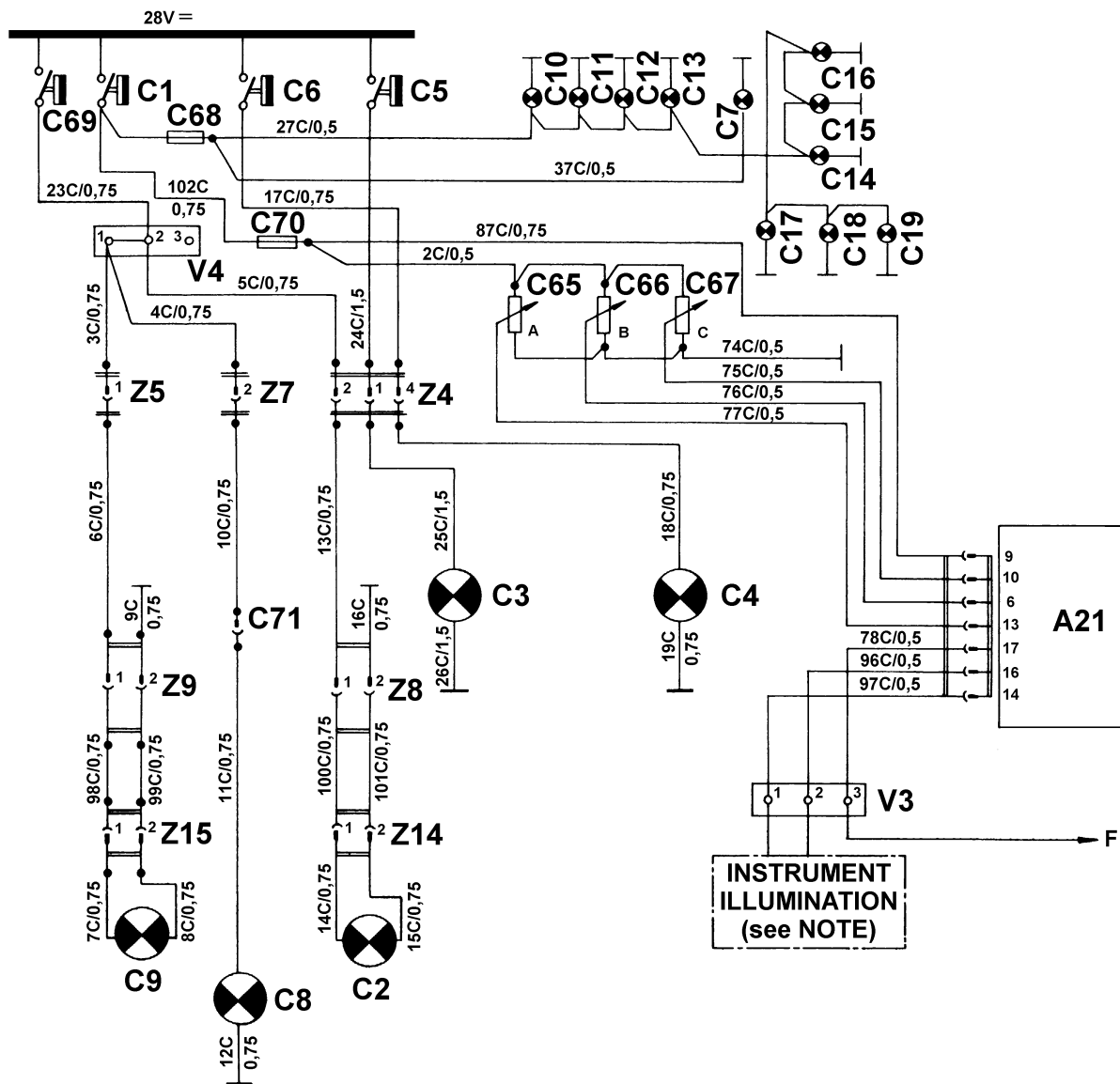
Fig. 91-3A Engine start-up and ignition  
(page 1 of 2)

Item	Name	Type	Note	Location
A11	terminal board	990-266		Behind right instrument panel
B1	<b>FUEL PUMP</b> switch	AZS 5		Panel between fwd seats
B2	magneto switch	BENDIX 10-357200-1		Console under instrument panel
B3	magneto L (BENDIX)	-----	a part of engine	Engine
B4	magneto P (BENDIX)	-----		
B5	contactor	MS-24166-D2		Upon firewall
B6	starter motor	-----	a part of engine	Engine
B7	<b>STARTER</b> circuit breaker	ETA 1110-2 A		Console under instrument panel
B8	electric booster pump	FACET 476088 or WELDON A 8150-B1		Fwd fuselage latticework
B10	connector	FASTIN-FASTO N 2,8		
Z1	ŠR 9S connector: male female	ŠR 48 BPN 9 Š1U2 ŠR 48 KPN 9 G1U2		Upon firewall
Z3	ŠR 5S connector: male female	ŠR 20 BPN 5 Š7U2 ŠR 20 KPN 5 G7U2		

*Fig. 91-3A Engine start-up and ignition  
(page 2 of 2)*

**EFFECTIVITY:** from 0046 incl.

# CIRCUIT C



## NOTE

This figure illustrates HELLA position lights (C2, C9). In case the WHELEN strobe lights are used the wiring diagram is issued in Chapter 95 (SUPPLEMENTS).

The wiring diagram of instrument illumination is issued in Chapter 95 (SUPPLEMENTS).

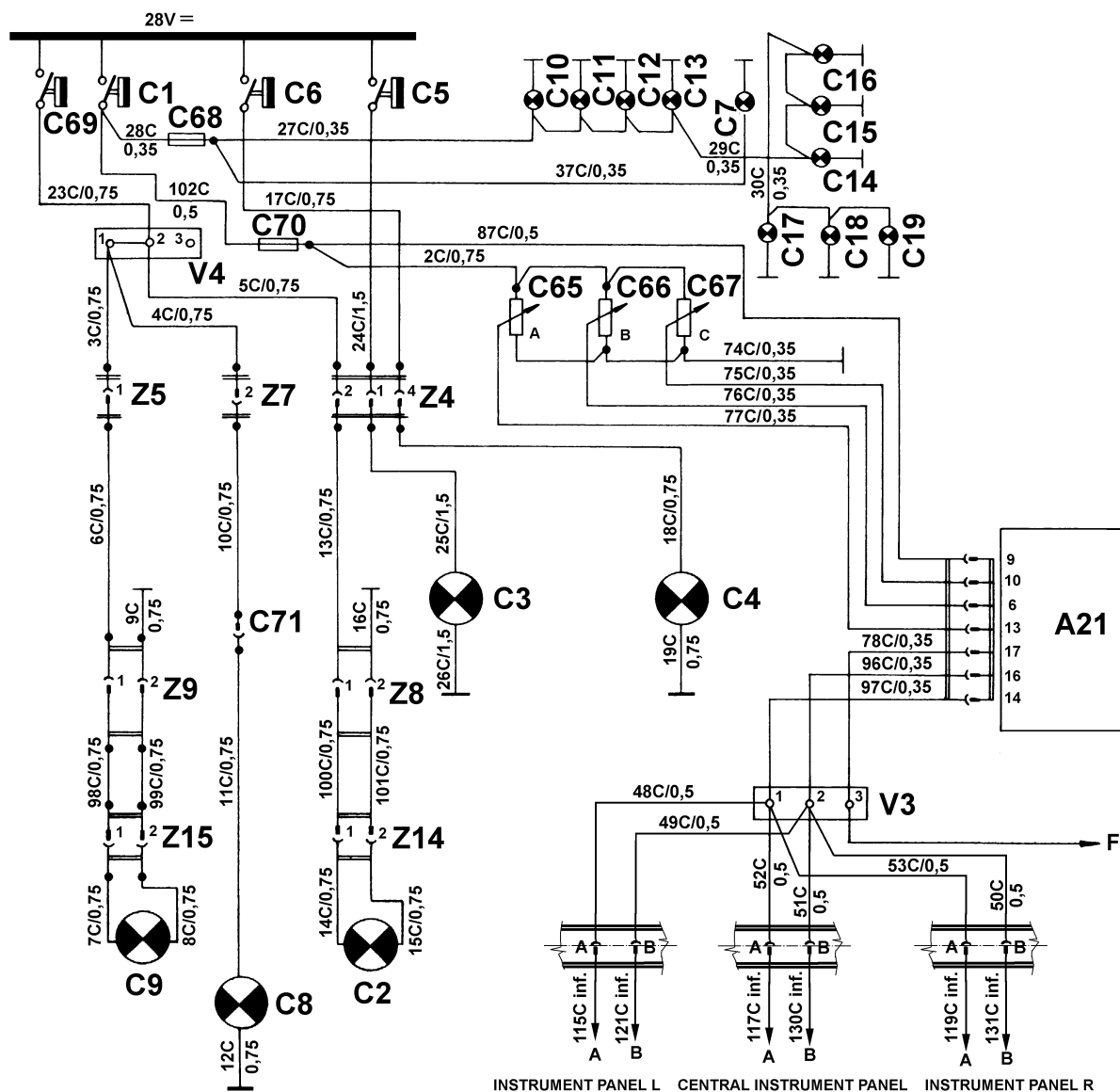
Fig. 91-4 Lighting  
(page 1 of 2)

Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00	(Fig. 91-2)	Beam of fwd floors
C1	<b>LIGHTING</b> switch	AZS 5		Panel between fwd seats
C2	position light L (red): bulb	2 LA 001 627-02 HELLA 8GS 002 754-28	optional	Left wingtip
C3	landing light bulb	1x2001 517-05 LN 9334 28V/100W		Left wing leading edge
C4	taxi light bulb	1x2001 517-07 LN 9334 28V/50W		
C5	<b>LANDING LIGHT</b> switch	AZS 10		Panel between fwd seats
C6	<b>TAXI LIGHT</b> switch	AZS 5		
C7	master switch lighting: flange bulb bulb socket	Z 43.8892-00.01 SM 37 L 143.8930-00.01		Console under instrument panel
C8	tail white position light: bulb	2 LA 001 625-00 HELLA LN 9333-307 28V/0,74A		Elevator
C9	position light R (green): bulb	2 LA 001 627-00 HELLA 8GS 002 754-28	optional	Right wingtip
C10 to C13	switch panel lighting	Flange: Z 43.8892-00.01 bulb: SM 37 bulb socket: L 143.8930-00.01		Panel between fwd seats
C14 to C16	fuel valve placard lighting			
C17, C18	pitch trim placard lighting			
C19	rudder trim placard lighting			
C65- C67	potentiometer	TP 195 32B 10K/N		Console under instrument panel
C68	<b>INT. LIGHT</b> fuse	1 A / 250 V		
C69	<b>POSITION LIGHT</b> switch	AZS 5		Panel between fwd seats
C70	<b>INST. LGT.</b> fuse	3,15 A / 250 V		Console under instrument panel
C71	coupling	IR 1		Under rudder
V3, V4	terminal board	74 K		Console under instrument panel
Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Fuselage port side
Z5, Z7	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage starboard side (Z5); First bulkhead of aft fuselage section (Z7)
Z8, Z9, Z14, Z15	ŠR 4S connector: male female	LN 24 BPE 4 Š1 LN 24 KPE 4 G1		Left (Z8) and right (Z9) wings at auxiliary fuel tank; Left (Z14) and right (Z15) wingtips.

Fig. 91-4 Lighting  
(page 2 of 2)

**EFFECTIVITY:** up to S/N 0045 incl.

## CIRCUIT C



### NOTE

This figure illustrates HELLA position lights (C2, C9). In case the WHELEN strobe lights are used the wiring diagram is issued in Fig. 91-4B.

The wiring diagram of instrument illumination is issued in Chapter 95 (SUPPLEMENTS).

*Fig. 91-4A Lighting*  
(page 1 of 2)

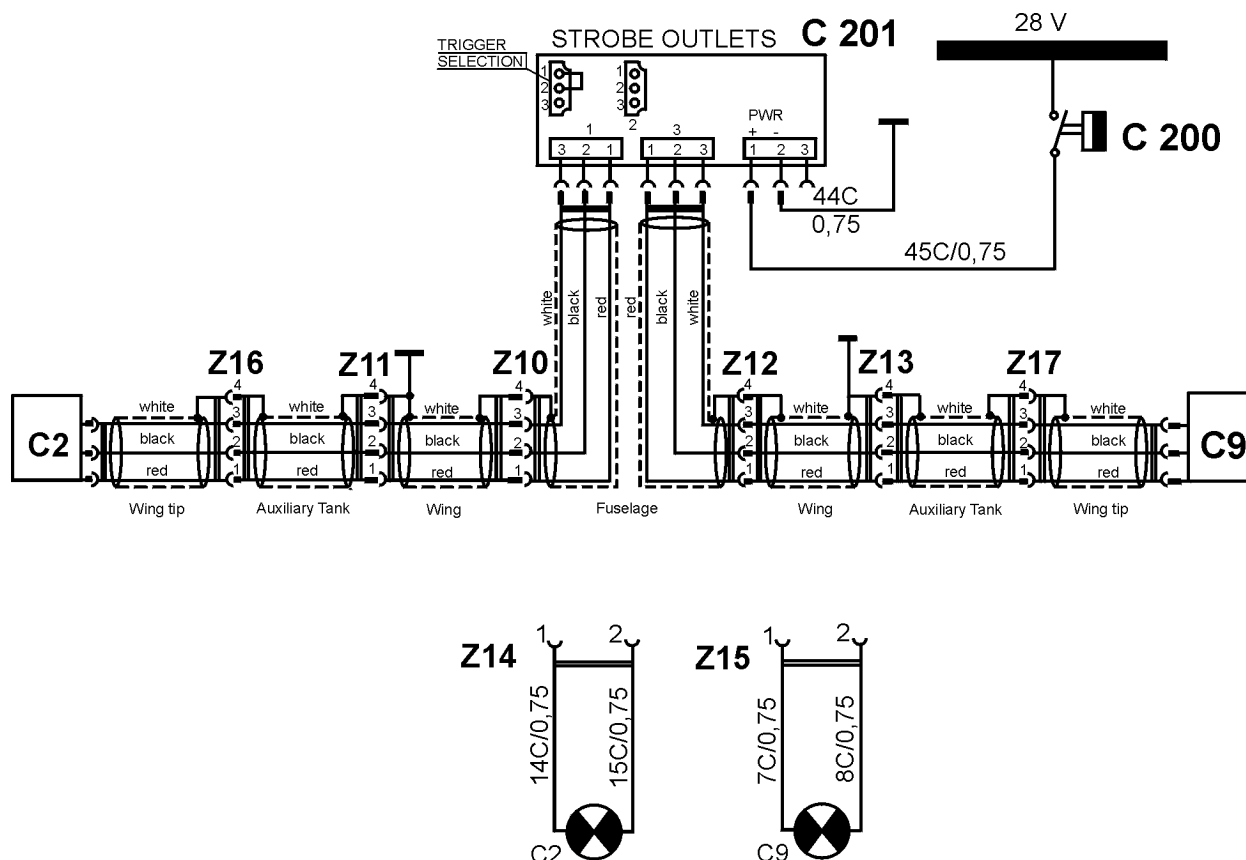
**EFFECTIVITY:** from S/N 0046 incl.

Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00 up to S/N 0052 incl. L 143.8521-00.00B from S/N 0053 incl.	(Fig. 91- 2)  (Fig. 91-2A)	Beam of fwd floors
C1	<b>LIGHTING</b> switch	AZS 5		Panel between fwd seats
C2	position light L (red):  bulb	2 LA 001 627-02 HELLA 8GS 002 754-28	optional	Left wingtip
C3	landing light  bulb	1x2001 517-05 LN 9334 28V/100W		Left wing leading edge
C4	taxi light  bulb	1x2001 517-07 LN 9334 28V/50W		
C5	<b>LANDING LIGHT</b> switch	AZS 10		Panel between fwd seats
C6	<b>TAXI LIGHT</b> switch	AZS 5		
C7	master switch lighting: flange bulb bulb socket	Z 43.8892-00.01 SM 37 L 143.8930-00.01		Console under instrument panel
C8	tail white position light:  bulb	2 LA 001 625-00 HELLA LN 9333-307 28V/0,74A		Elevator
C9	position light R (green):  bulb	2 LA 001 627-00 HELLA 8GS 002 754-28	optional	Right wingtip
C10 to C13	switch panel lighting	Flange: Z 43.8892-00.01 bulb: SM 37 bulb socket: L 143.8930-00.01		Panel between fwd seats
C14 to C16	fuel valve placard lighting			
C17, C18	pitch trim placard lighting			
C19	rudder trim placard lighting			
C65- C67	potentiometer	TP 195 32B 10K/N		Console under instrument panel
C68	<b>INT. LIGHT</b> circuit breaker	ETA 1110-1 A		
C69	<b>POSITION LIGHT</b> switch	AZS 5		Panel between fwd seats
C70	<b>INST. LGT.</b> circuit breaker	ETA 1110-3 A		Console under instrument panel
C71	coupling	IR 1		Under rudder
V3, V4	terminal board	74 K		Console under instrument panel
Z4 Z5, Z7	AMP 17-14 connector: male female	990-443 990-444		Fuselage port side (Z4); Fuselage starboard side (Z5); First bulkhead of aft fuselage section (Z7)
Z8, Z9, Z14, Z15	AMP 13-7 connector: male female	990-441 990-442		Left (Z8) and right (Z9) wings at auxiliary fuel tank; Left (Z14) and right (Z15) wingtips.

Fig. 91-4A Lighting  
(page 2 of 2)

**EFFECTIVITY:** from S/N 0046 incl.

# CIRCUIT C



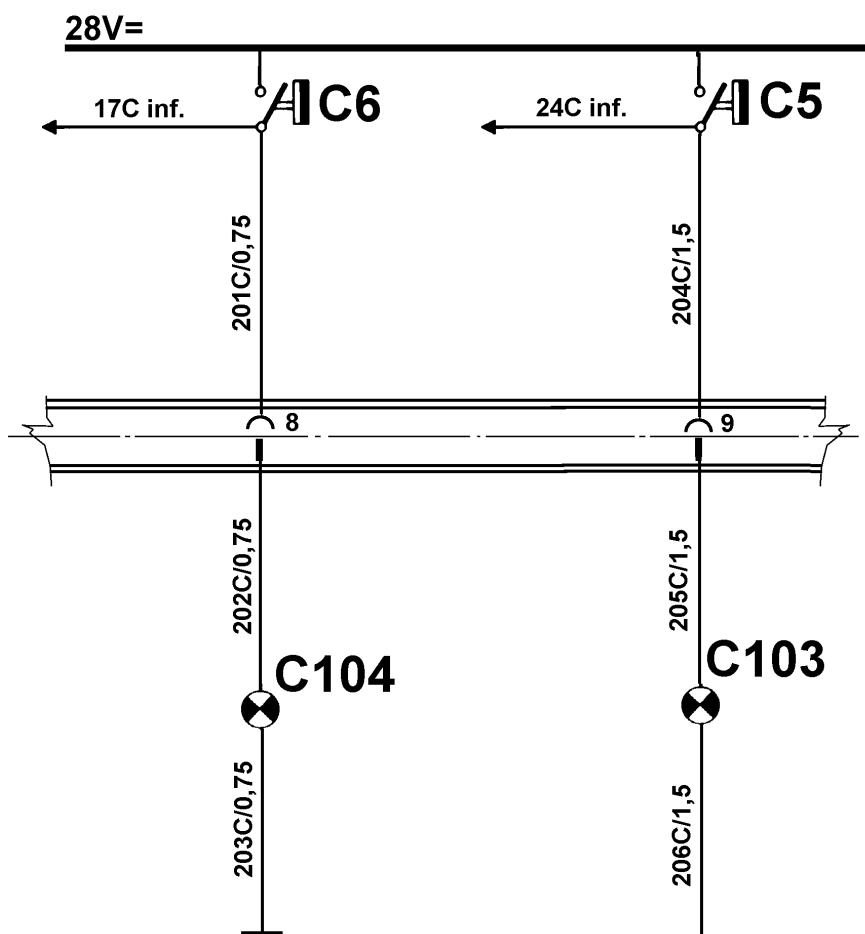
Item	Name	Type	Note	Location
C2	strobe Light L (red): bulb:	WHELEN A 650-PR W 1290 28V/26W	optional	Left wingtip
C9	strobe Light R (green): bulb:	WHELEN A 650-PG W 1290 28V/26W	optional	Right wingtip
C200	switch ( <b>STROBE LIGHTS</b> )	AZS 5		Panel between fwd seats
C201	strobe outlets WHELEN	WHELEN A 413 A, HDA-CF-28		Under floor of pilot cockpit
Z10, Z11, Z12, Z13, Z14, Z15, Z16, Z17	AMP 11-4 connector: male female	990-439 990-440		Fuselage port side (Z10); Fuselage starboard side (Z12); Left (Z11) and right (Z13) wings; Left (Z14) and right (Z15) wing tip; Left (Z16) and right (Z17) wings at auxiliary fuel tank

Fig. 91-4B WHELEN strobe lights

**EFFECTIVITY:** from S/N 0046 incl.



### CIRCUIT C

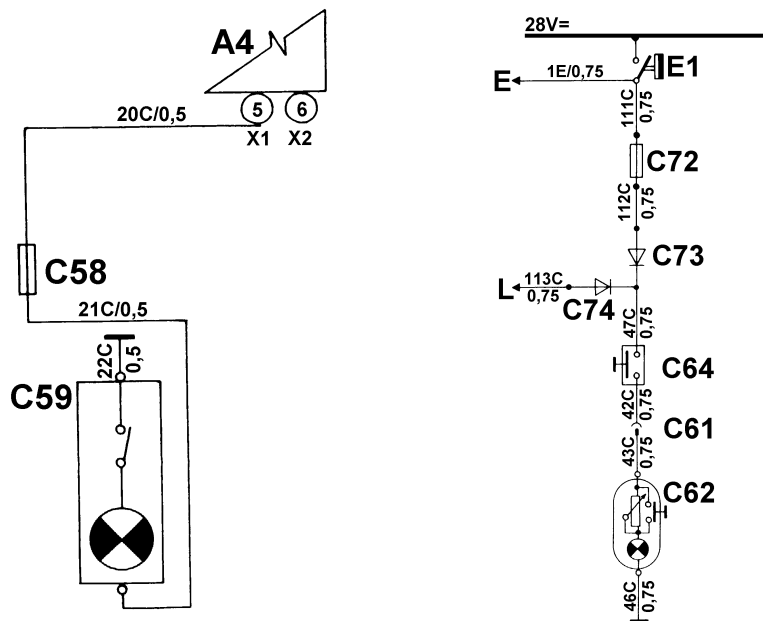


Item	Name	Type	Note	Location
C5	<b>LANDING LIGHT</b> switch	AZS 10		Panel between fwd seats
C6	<b>TAXI LIGHT</b> switch	AZS 5		
C103	landing light: bulb	1x201 517-05 LN 9334 28V/100W	optional	Right wingtip
C104	taxi light: bulb	1x201 517-07 LN 9334 28V/50W	optional	
Z5	AMP 17-14 connector: male female	990-443 990-444		Fuselage starboard side

*Fig. 91-4C Landing and taxi lights in right wing (optional)*

**EFFECTIVITY:** from S/N 0046 incl.

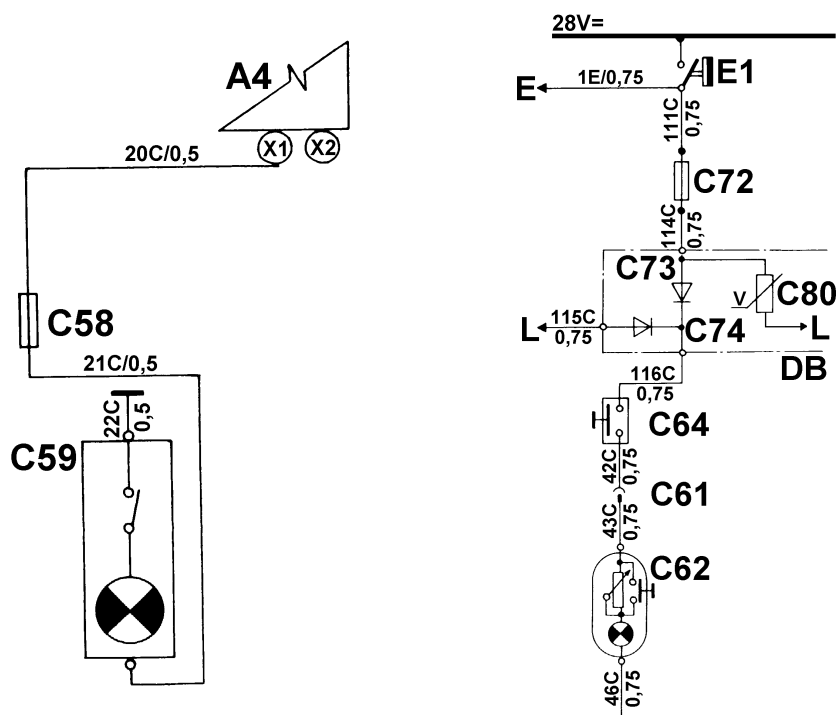
# COCKPIT LIGHTING



Item	Name	Type	Note	Location
A4	contactor	LUN 2285	up to S/N 0003 (Fig. 91-1)	Upon firewall
A4	contactor	MS-24166-D2	from S/N 0004 (Fig. 91-1)	
C58	<b>INT. LIGHT</b> switch	1 A / 250 V		Console under instrument panel
C59	cockpit lighting: lamp bulb	113-923 000 Sufit 24V/5W		Fixed canopy
C61	coupling	IR 1		
C62	auxiliary lamp bulb	KLSRK 45 SM 30		Sliding canopy
C64	micro-switch	D 703		Left side of fixed canopy
C72	<b>C. U. LIGHT</b> fuse	1 A / 250 V		Console under instrument panel
C73, C74	diode	KY 132/300	(Fig. 91-12)	L 242.8520-04.00 diode box
E1	<b>BEACON</b> switch	AZS 5		Panel between fwd seats

*Fig. 91-5 Cockpit lighting, auxiliary lamp*

# COCKPIT LIGHTING

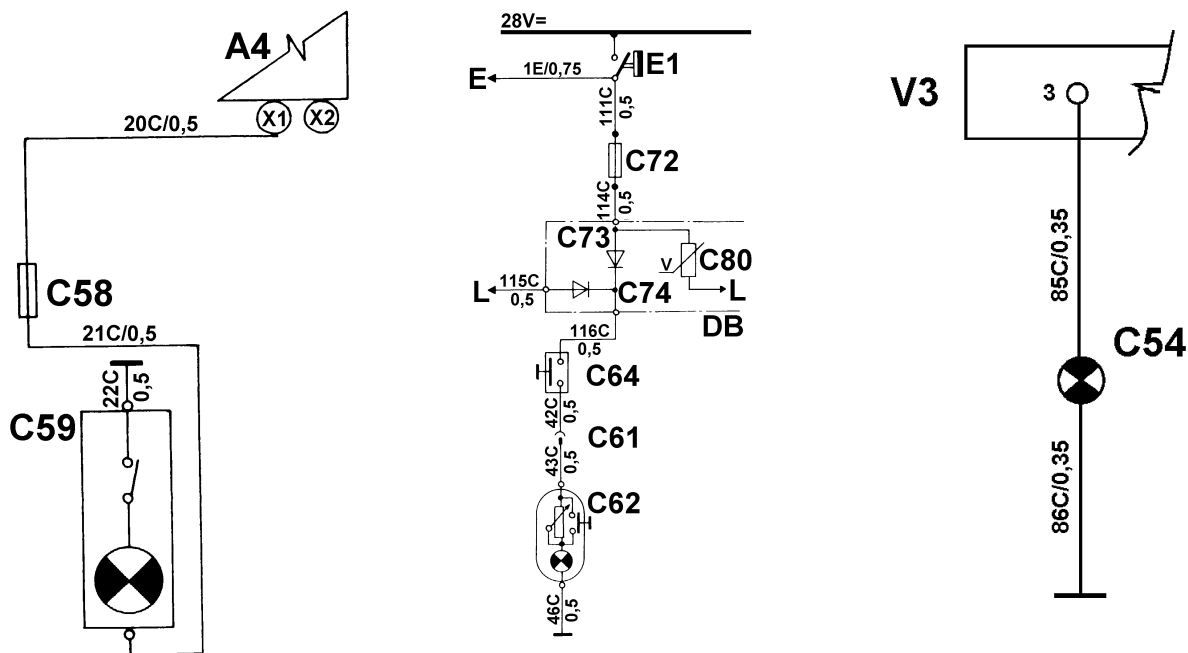


Item	Name	Type	Note	Location
A4	contactor	MS-24166-D2	(Fig. 91-1)	Upon firewall
C58	<b>INT. LIGHT</b> fuse	1 A / 250 V		Console under instrument panel
C59	cockpit lighting: amp bulb	113-923 000 Sufit 24V/5W		Fixed canopy
C61	coupling	IR 1		
C62	auxiliary lamp bulb	KLSRK-45 SM 30		Sliding canopy
C64	micro-switch	D 703		left side of fixed canopy
C72	<b>C. U. LIGHT</b> fuse	1 A / 250 V		Console under instrument panel
C73, C74	diode	1N 4007		Diode box (DB)
C80	varistor	VE 17M 006 00K		
DB	diode box	L 143.8520-04.00	(Fig. 91-12)	Beneath switches
E1	<b>BEACON</b> switch	AZS 5		Panel between fwd seats

Fig. 91-5A Cockpit lighting, auxiliary lamp

**EFFECTIVITY:** for FRG and from S/N 0007  
(except S/N 0009) up to S/N 0045 incl.

# COCKPIT LIGHTING



Item	Name	Type	Note	Location
A4	contactor	MS-24166-D2		Upon firewall
C 54	compass lighting			Above instrument panel
C58	<b>INT. LIGHT</b> circuit breaker	ETA 1110-1 A		Console under instrument panel
C59	cockpit lighting: lamp bulb	113-923 000 Sufit 24V/5W		Fixed canopy
C61	coupling	IR 1		
C62	auxiliary lamp bulb	KLSRK-45 SM 30		Sliding canopy
C64	micro-switch	D 703		Left side of fixed canopy
C72	<b>C. U. LIGHT</b> circuit breaker	ETA 1110-1 A		Console under instrument panel
C73, C74	diode	1N 4007		Diode box (DB)
C80	varistor	VE 17M 006 00K		
DB	diode box	L 143.8520-04.00	(Fig. 91-12B)	Beneath switches
E1	<b>BEACON</b> switch	AZS 5		Panel between fwd seats
V3	terminal board	74 K		Console under instrument panel

Fig. 91-5B Cockpit lighting, auxiliary lamp, compass

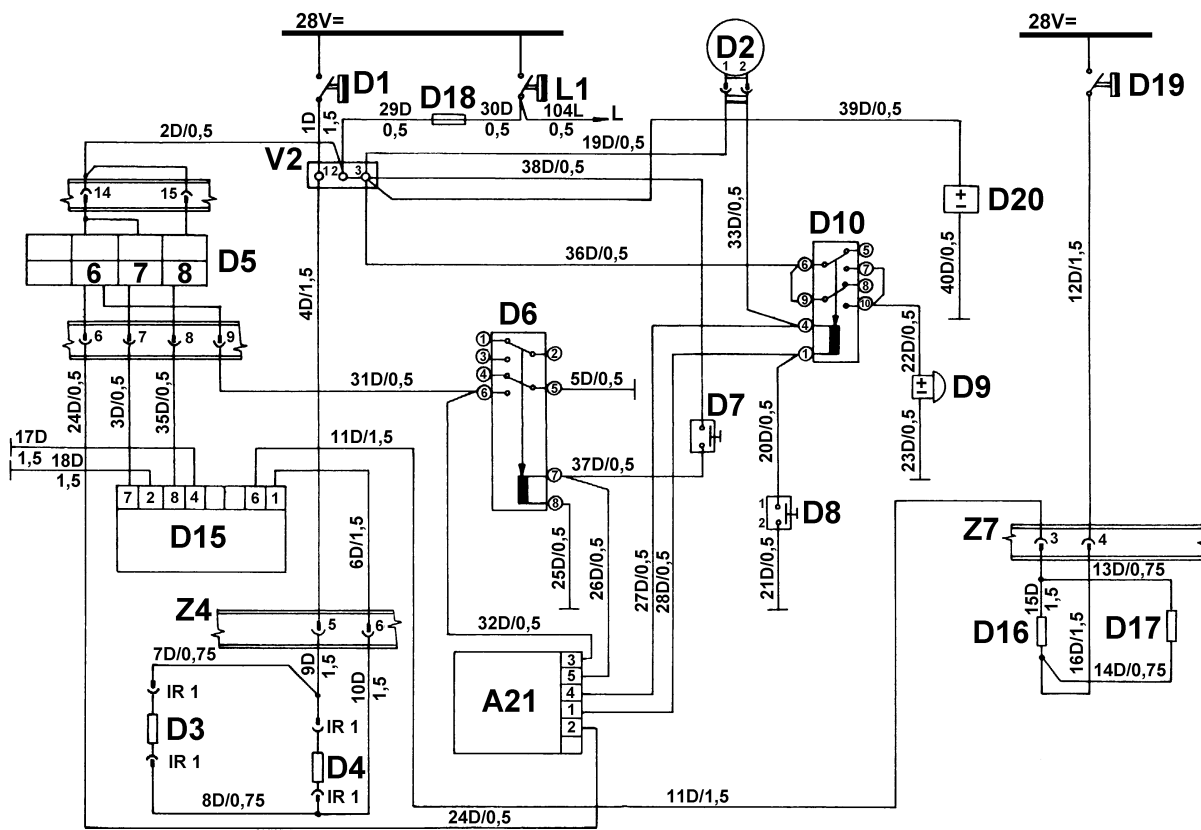
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**EFFECTIVITY: All**

**91-31-00**

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2011-02-02

## CIRCUIT D



Inscriptions used in D5 light annunciation panel:

- 6 ... **STALL. WARN. INACTIVE**
- 7 ... **PITOT HEATING**
- 8 ... **PITOT STATIC**

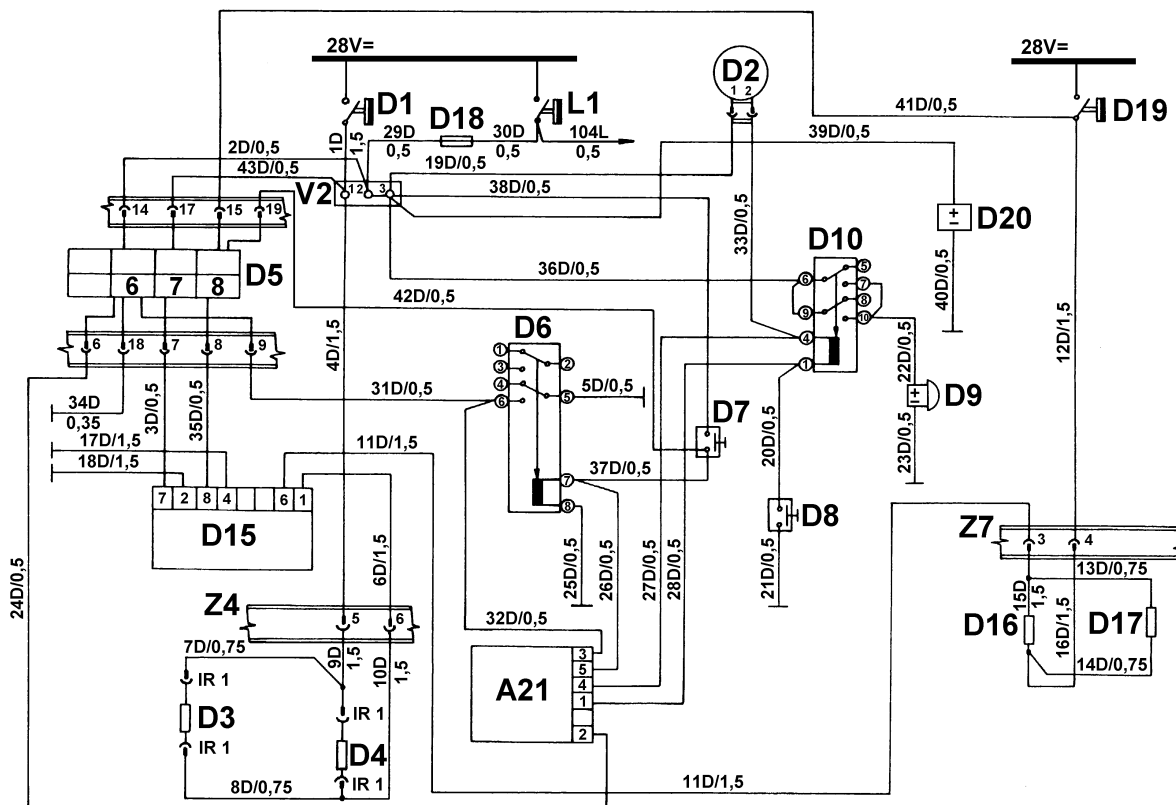
Fig. 91-6 Annunciation  
(page 1 of 2)

Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00	(Fig. 91-2)	Beam of fwd floor
D1	<b>PITOT HEATING</b> switch	AZS 10		Panel between fwd seats
D2	airspeed indicator	LUN 1107.32-8		Instrument panel
D3	pitot probe	PVD-6M		Left wing
D4	stall warning speed probe	LUN 1155		
D5	sleeve of light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
D6	relay	RP-2 or TKE 52 PDT		Upon firewall
D7	<b>SIGNALLING CHECK</b> push button	A 09-9430-60		Above middle instrument panel
D8	micro-switch	D 703		Right wing above main landing gear leg
D9	horn	L 410.7120-12.03		Fwd fuselage latticework under the instrument panel cover
D10	relay	LUN 2621.4/ 503-602 703		Console under instrument panel cover
D15	shunt	L 143.8524-00.00	(Fig. 91-7)	Fwd fuselage latticework under the instrument panel
D16, D17	static pressure probe	L 242.8524-00.01		Aft fuselage section
D18	<b>STALL. W.</b> fuse	2 A / 250 V		Console under instrument panel
D19	<b>STATIC HEATING</b> switch	AZS 5		Panel between fwd seats
D20	ambient air thermometer	DAVTRON A 301 C	optional	Instrument panel
L1	<b>FLIGHT. INSTR.</b> switch	AZS 5		Panel between fwd seats
V2	terminal board	74 K		Console under instrument panel cover
Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Port side of fuselage
Z7	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		First bulkhead of aft fuselage section

*Fig. 91-6 Annunciation  
(page 2 of 2)*

**EFFECTIVITY:** up to S/N 0006 (except S/N 0004) and S/N 0009

### CIRCUIT D



Inscriptions used in D5 light annunciation panel

- 6 ... **STALL. WARN. INACTIVE**
- 6 ... **P/Ü/S - HEIZ. STÖRUNG** (aircraft registered in FRG)
- 7 ... **PITOT HEATING**
- 8 ... **PITOT STATIC**

#### **NOTE**

Standard design - disconnect conductor 34D from pin 18 of D5.

Design used for aircraft registered in FRG - disconnect conductor 24D from pin 6 of D5

Fig. 91-6A Annunciation  
(page 1 of 2)

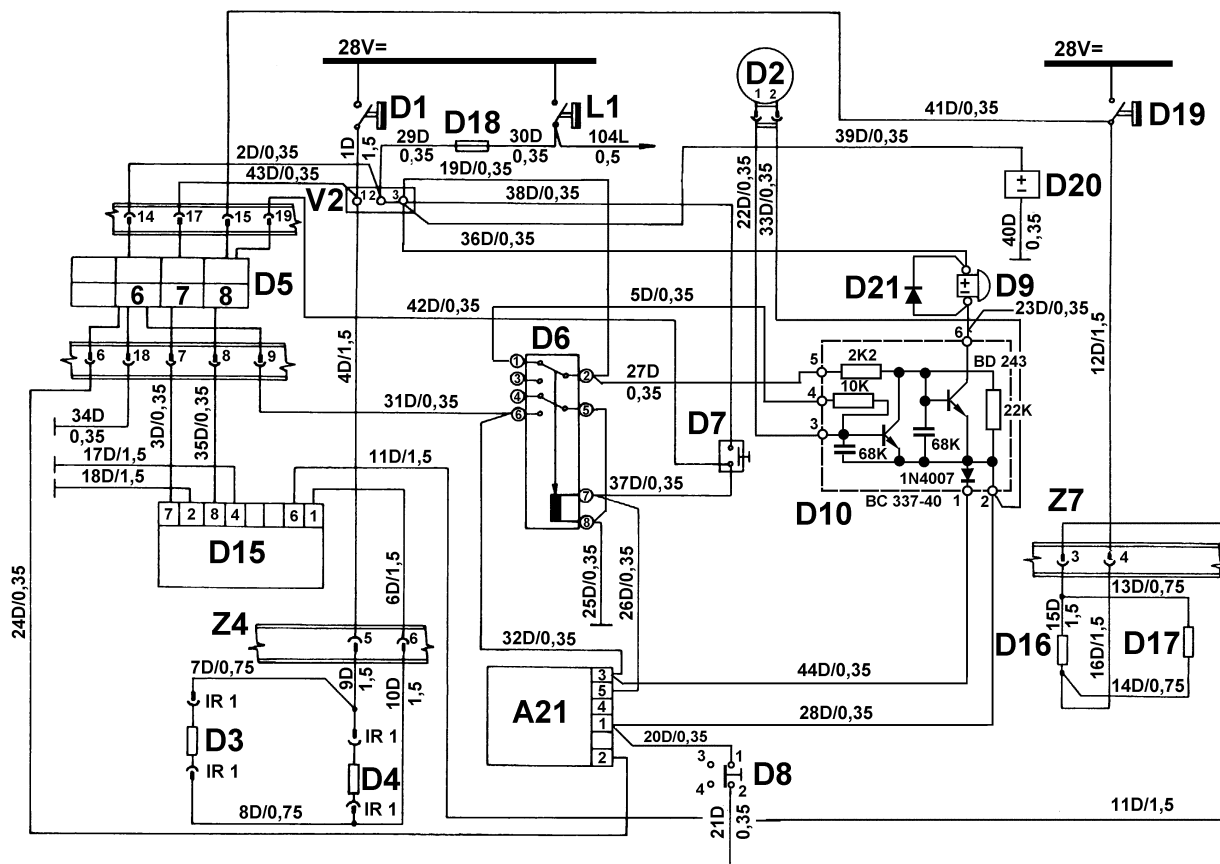


Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00	(Fig. 91-2)	Beam of fwd floor
D1	<b>PITOT HEATING</b> switch	AZS 10		Panel between fwd seats
D2	airspeed indicator	LUN 1107.32-8		Instrument panel
D3	pitot probe	PVD-6M		Left wing
D4	stall warning speed probe	LUN 1155		
D5	sleeve of light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
D6	relay	RP-2 or TKE 52 PDT		Upon firewall
D7	<b>SIGNALLING CHECK</b> push button	A 09-9430-60		Above middle instrument panel
D8	micro-switch	D 703		Right wing above main landing gear leg
D9	horn	L 410.7120-12.03		Fwd fuselage latticework under the instrument panel cover
D10	relay	LUN 2621.4/ 503-602 703		Console under instrument panel cover
D15	shunt	L 143.8524-00.00	(Fig. 91-7)	Fwd fuselage latticework under the instrument panel
D16, D17	static pressure probe	L 242.8524-00.01		Aft fuselage section
D18	<b>STALL. W.</b> fuse	2 A / 250 V		Console under instrument panel
D19	<b>STATIC HEATING</b> switch	AZS 5		Panel between fwd seats
D20	ambient air thermometer	DAVTRON A 301 C	optional	Instrument panel
L1	<b>FLIGHT. INSTR.</b> switch	AZS 5		Panel between fwd seats
V2	terminal board	74 K		Console under instrument panel cover
Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Port side of fuselage
Z7	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		First bulkhead of aft fuselage section

*Fig. 91-6A Annunciation  
(page 2 of 2)*

**EFFECTIVITY:** for FRG and from S/N 0007 (except S/N 0009) up to S/N 0045 incl.

## CIRCUIT D



Inscriptions used in D5 light annunciation panel

- 6 ... **STALL. WARN. INACTIVE**  
6 ... **P/Ü/S - HEIZ. STÖRUNG** (aircraft registered in FRG)  
7 ... **PITOT HEATING**  
8 ... **PITOT STATIC**

**NOTE**

Standard design - disconnect conductor 34D from pin 18 of D5.

Design used for aircraft registered in FRG - disconnect conductor 24D from pin 6 of D5..

Fig. 91-6B Annunciation  
(page 1 of 2)

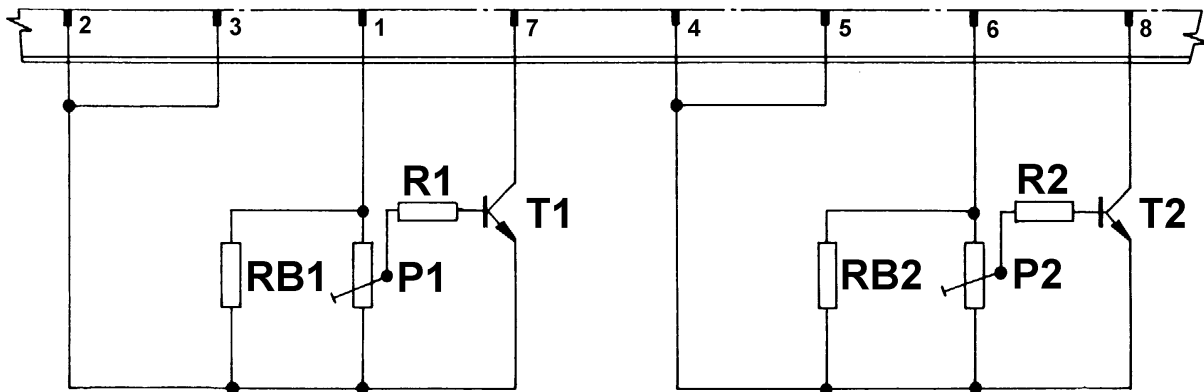
**EFFECTIVITY:** from S/N 0046 incl.

Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00 up to S/N 0052 incl. L 143.8521-00.00B from S/N 0053 incl.	(Fig. 91-2)  (Fig. 91-2A)	Beam of fwd floor
D1	<b>PITOT HEATING</b> switch	AZS 10		Panel between fwd seats
D2	airspeed indicator	LUN 1107.32-8		Instrument panel
D3	pitot probe	PVD-6M		Left wing
D4	stall warning speed probe	LUN 1155		
D5	sleeve of light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
D6	relay	TKE 52 PDT		Upon firewall
D7	<b>SIGNALLING CHECK</b> push button	KNITTER MSP 106F		Above middle instrument panel
D8	micro-switch	D 703		Right wing above main landing gear leg
D9	horn	L 410.7120-12.03		Fwd fuselage latticework under the instrument panel cover
D10	switch	E242.8550-41.00		Console under instrument panel cover
D15	shunt	L 143.8524-00.00	(Fig. 91-7)	Fwd fuselage latticework under the instrument panel
D16, D17	static pressure probe	LUN 1155		Aft fuselage section
D18	<b>STALL. W.</b> circuit breaker	ETA 1110-2 A		Console under instrument panel
D19	<b>STATIC HEATING</b> switch	AZS 5		Panel between fwd seats
D20	ambient air thermometer	DAVTRON A 301 C	optional	Instrument panel
D21	diode	1N 4007		Fwd fuselage latticework under the instrument panel cover
L1	<b>FLIGHT. INSTR.</b> switch	AZS 5		Panel between fwd seats
V2	terminal board	74 K		Console under instrument panel cover
Z4, Z7	AMP 17-14 connector: male female	990-443 990-444		Port side of fuselage (Z4); First bulkhead of aft fuselage section (Z7)

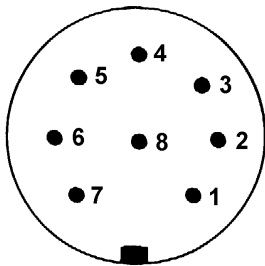
*Fig. 91-6B Annunciation  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0046 incl.

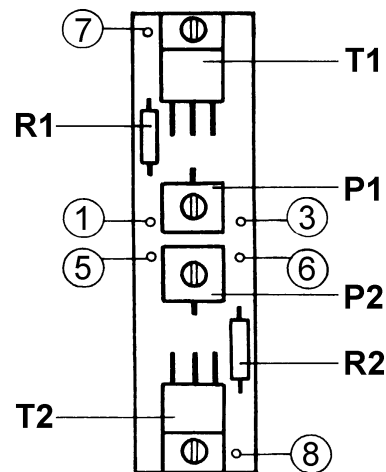
# SHUNT



**A**



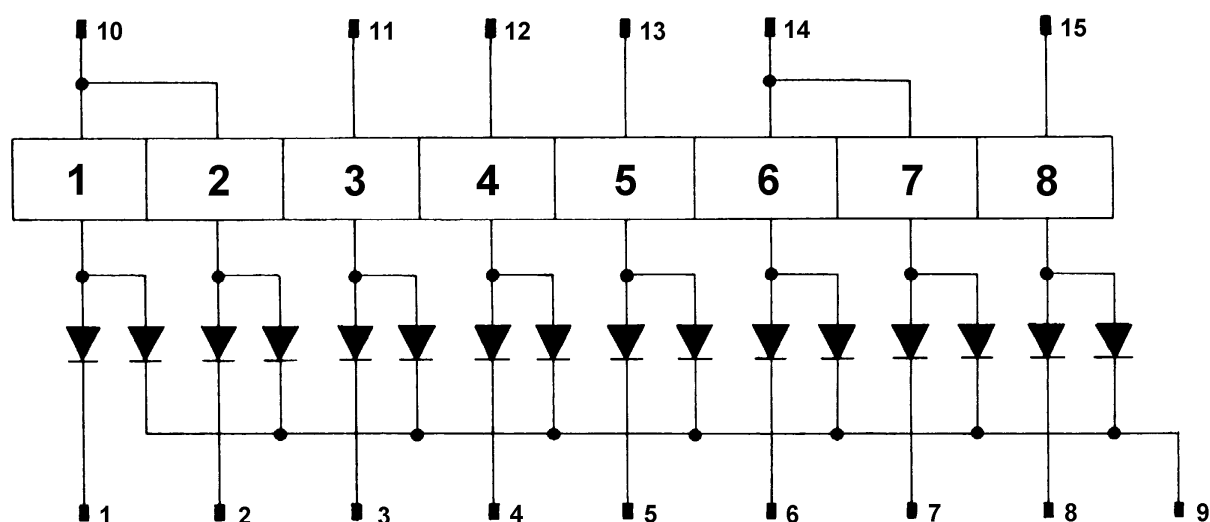
**B**



P1, P2 ... trimming resistor 150  $\Omega$   
R1, R2 ... resistor 47  $\Omega$   
RB1, RB2 ... LUN 3214.2 shunt 0,316  $\Omega$   
T1, T2 ... BD 241 transistor  
A ... connector (fwd view)  
B ... printed board

Fig. 91-7 Shunt

# LIGHT ANNUNCIATOR PANEL

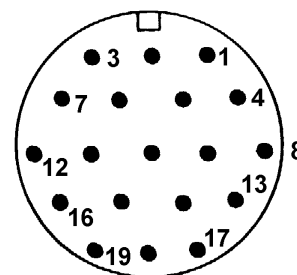


**A**

Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL
- 3 ... GENERATOR
- 4 ... EXT. POW. SOURCE
- 5 ... OIL PRESS. LOSS
- 6 ... STALL WARN. INACTIVE
- 7 ... PITOT HEATING
- 8 ... STATIC HEATING

A ... Connector (aft view)



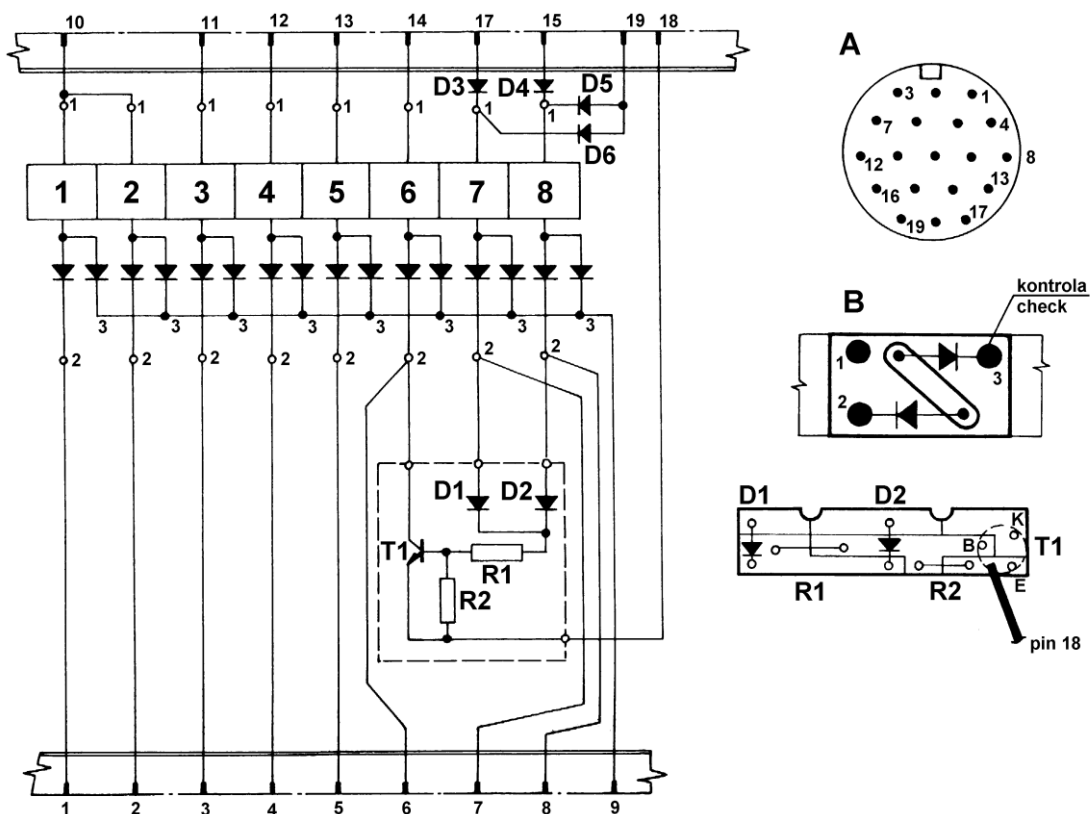
*Fig. 91-8 Light annunciator panel*

**EFFECTIVITY:** up to S/N 0006 (except S/N 0004)  
 and S/N 0009

**91-42-00**

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# LIGHT ANNUNCIATOR PANEL



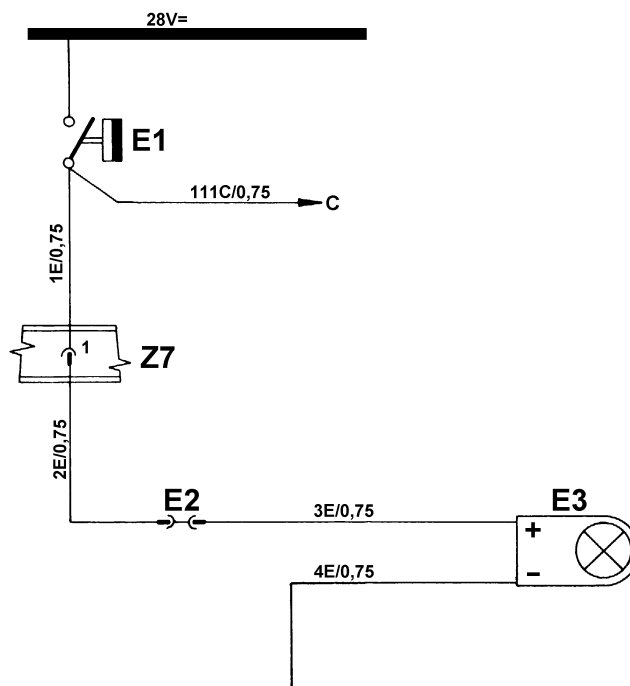
Inscriptions used in D5 light annunciation panel:

- 1 ... **L FUEL LOW LEVEL**
- 2 ... **R FUEL LOW LEVEL**
- 3 ... **GENERATOR**
- 4 ... **EXT. POW. SOURCE**
- 5 ... **OIL PRESS. LOSS**
- 6 ... **STALL WARN. INACTIVE**
- 6 ... **P/Ü/S - HEIZ. STÖRUNG** (aircraft registered in FRG)
- 7 ... **PITOT HEATING**
- 8 ... **STATIC HEATING**

D1, D2 ... 1N 4148 diode  
D3, D4, D5, D6 ... 1N 4007 diode  
R1, R2 ... RR 10 KΩ resistor  
T1 ... BC 337-40 transistor  
A ... connector (aft view)  
B ... connection of one annunciation

Fig. 91-8A Light annunciator panel

### CIRCUIT E

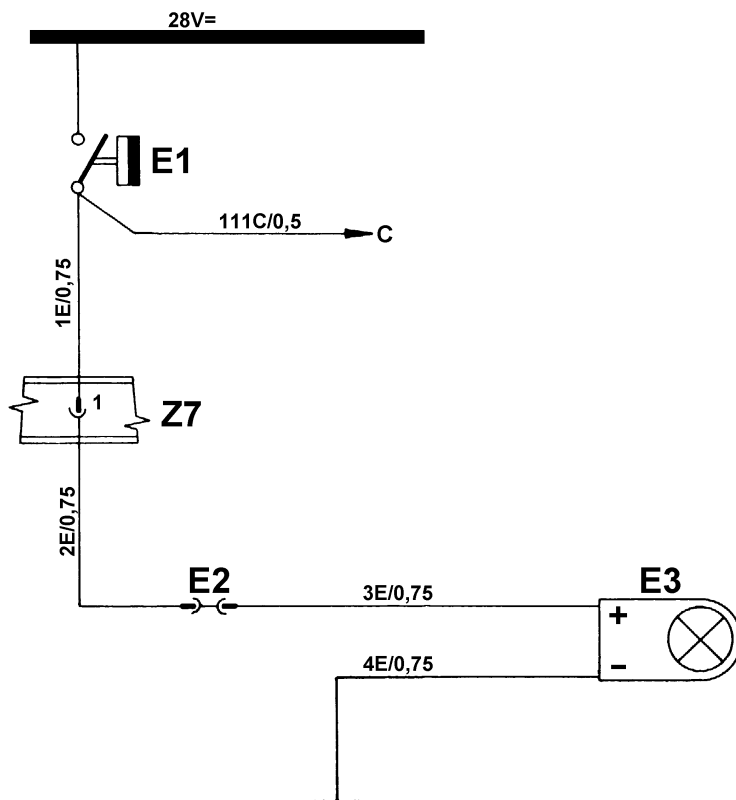


Item	Name	Type	Note	Location
E1	<b>BEACON</b> switch	AZS 5		Panel between seats
E2	coupling	IR 1		Under rudder
E3	anti-collision beacon	FS 4400 / 28V	with suppressor (Fig. 91-10)	Upon rudder
Z7	AMP 17-14 connection: male female	990-443 990-444		First bulkhead of aft fuselage section

Fig. 91-9 Anti-collision beacon

**EFFECTIVITY:** up to S/N 0045

## CIRCUIT E

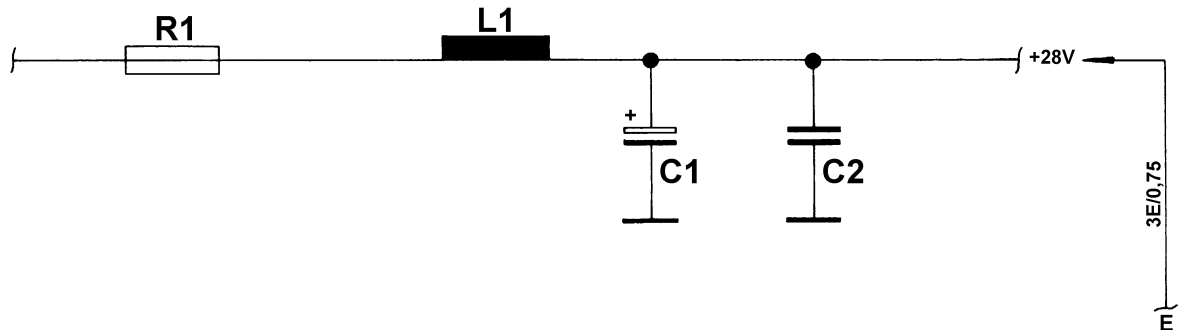


Item	Name	Type	Note	Location
E1	<b>BEACON</b> switch	AZS 5		Panel between seats
E2	coupling	IR 1		Under rudder
E3	anti-collision beacon	FS 4400 / 28V	with suppressor (Fig. 91-10)	Upon rudder
Z7	AMP 17-14 connection: male female	990-443 990-444		First bulkhead of aft fuselage section

Fig. 91-9A Anti-collision beacon



## FS 4400 ANTI-COLLISION BEACON SUPPRESSED



Item	Name	Type	Note	Location
C1	Electrolyt capacitor	E 220 M / 63 V		in FS 4400 beacon
C2	Ceramic capacitor	M 1 / 63 V		
L1	Choke (0,16 mH)	L 143.8970-01.01		
R1	Fuse	-----	a part of FS 4400 beacon	

*Fig. 91-10 FS 4400 anticollision beacon suppressed*

**EFFECTIVITY:** All

**91-51-00**

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2011-02-02

# CIRCUIT F

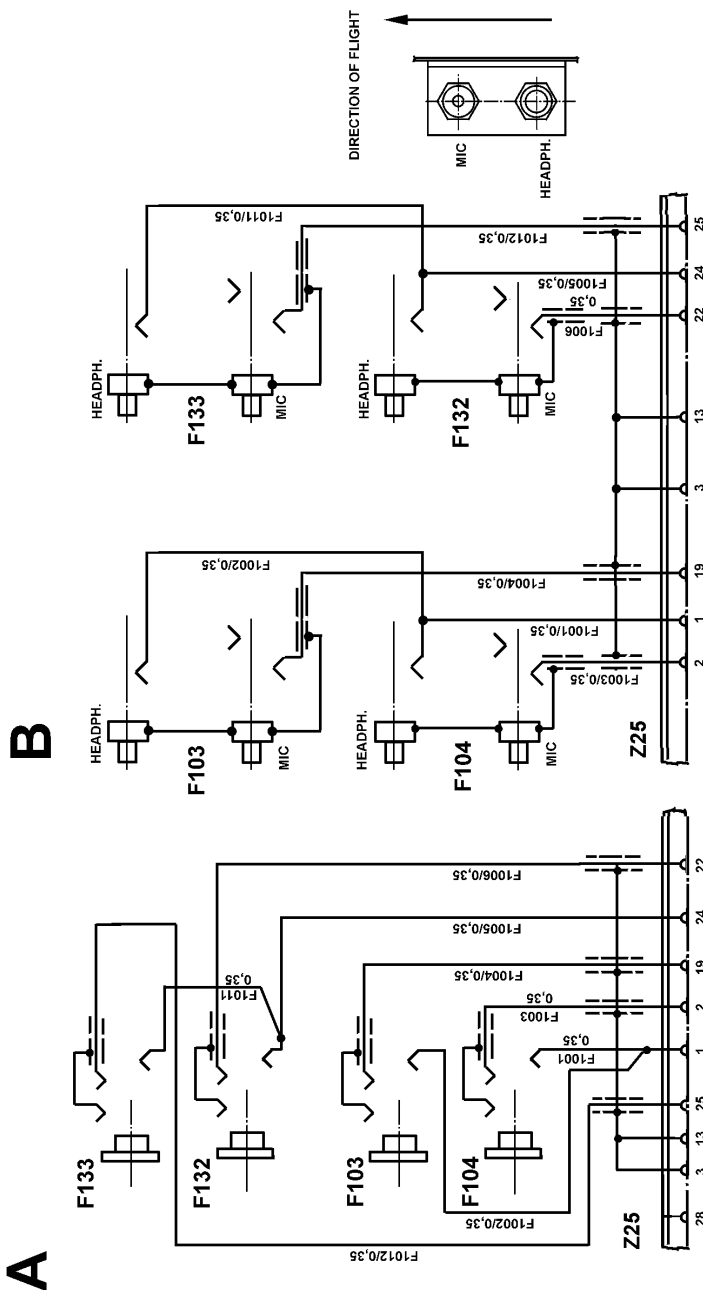
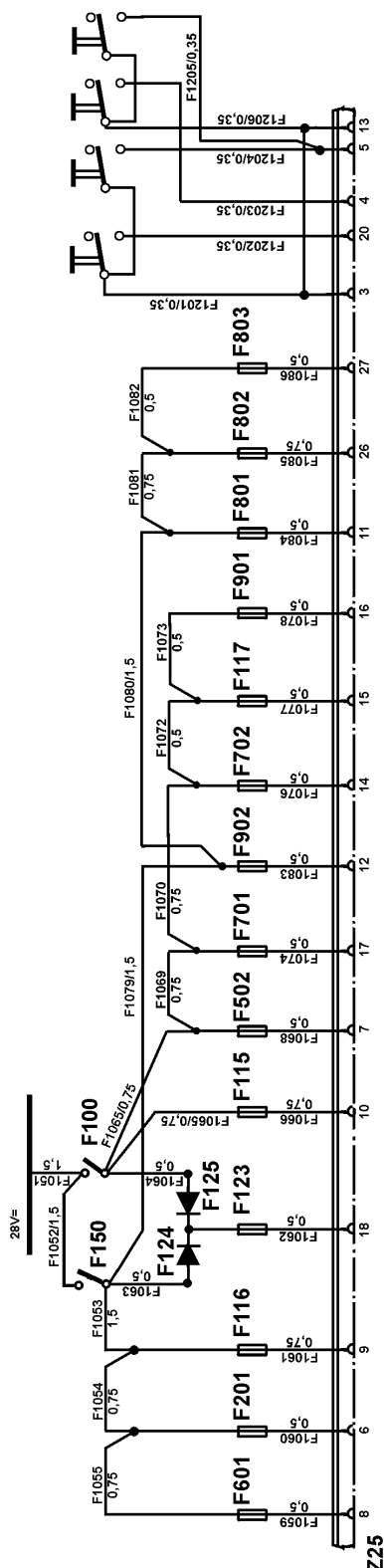


Fig. 91-11 Switches and fuses  
(page 1 of 2)

EFFECTIVITY: from S/N 0046 incl.

## CIRCUIT F

F 100 .....	<b>COMM/NAV I</b> circuit switch .....	V 45
F 103 .....	Connector front L .....	TJT-120
F 104 .....	Connector front R .....	TJT-120
F 115 .....	<b>COMM I</b> circuit breaker .....	ETA 1110-6 A
F 116 .....	<b>COMM II</b> circuit breaker .....	ETA 1110-6 A
F 117 .....	<b>HSI</b> circuit breaker .....	ETA 1110-3 A
F 123 .....	<b>AUDIO</b> circuit breaker .....	ETA 1110-2 A
F 124 .....	Diode .....	1N 4007
F 125 .....	Diode .....	1N 4007
F 132 .....	Connector rear R .....	TJT-120
F 133 .....	Connector rear L .....	TJT-120
F 150 .....	<b>COMM/NAV II</b> circuit switch .....	V 45
F 201 .....	<b>ADF</b> circuit breaker .....	ETA 1110-1 A
F 502 .....	<b>XPDR</b> circuit breaker .....	ETA 1110-3 A
F 601 .....	<b>DME</b> circuit breaker .....	ETA 1110-3 A
F 701 .....	<b>GPS I</b> circuit breaker .....	ETA 1110-3 A
F 702 .....	<b>GIC</b> circuit breaker .....	ETA 1110-4 A
F 801 .....	<b>NO CON.</b> .....	ETA 1110-2 A
F 802 .....	<b>EXT. GPS</b> circuit breaker .....	ETA 1110-3 A
F 803 .....	<b>NO CON.</b> .....	ETA 1110-1 A
F 901 .....	<b>ELT</b> circuit breaker .....	ETA 1110-1 A
F 902 .....	<b>GPS II</b> circuit breaker .....	ETA 1110-3 A
Z 25 .....	AMP 23-37 connector.....	male: 990-445
		female 990-446
A, B.....	Connection of connector F 103, F 104, F 132, F 133	

### **NOTES**

1. Circuit connection F is introduced for max. instrument equipment of airplane.
2. Provided some of the circuit breakers are not installed, the placard **NO CON.** shall be installed of particular placard.
3. The circuit breakers are located on the central panel beneath instrument panel.
4. The Z 25 connector is located under middle instrument panel.

*Fig. 91-11 Switches and fuses  
 (page 2 of 2)*

**EFFECTIVITY:** from S/N 0046 incl.

**91-60-00**

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## CIRCUIT L

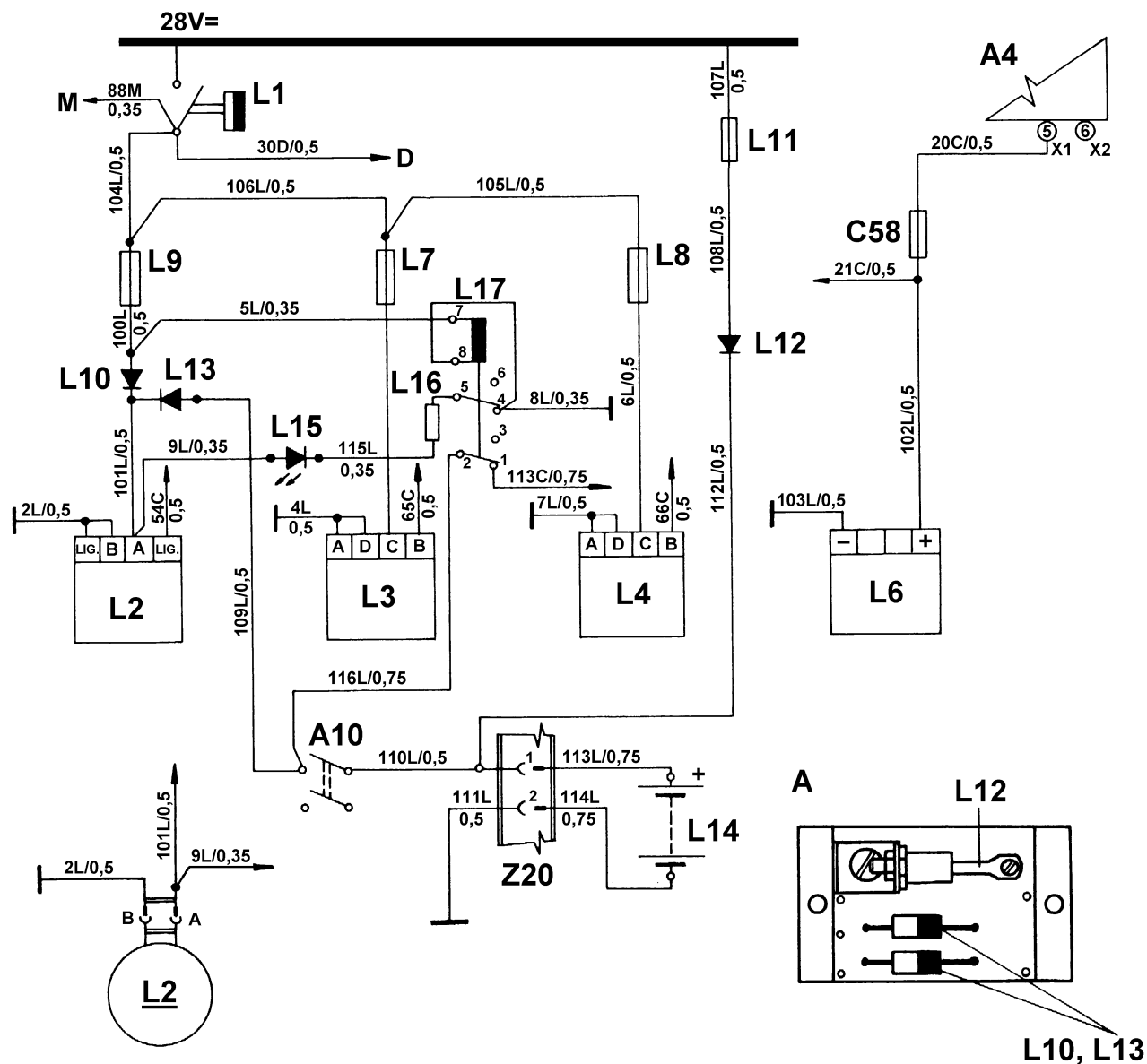


Fig. 91-12 Turn-and-Bank indicator, artificial horizon, directional gyro, diode box  
(page 1 of 2)

Item	Name	Type	Note	Location
A4	contactor	LUN 2285	up to S/N 0003 (Fig. 91-1)	Upon firewall
A4	contactor	MS-24166-D2	from S/N 0004 (Fig. 91-1)	
A10	<b>MASTER SWITCH</b>	2 V 45		Console under instrument panel
C58	<b>INT. LIGHT</b> fuse	1 A / 250 V		
L1	<b>FLIGHT INSTR.</b> switch	AZS 5		Panel between fwd seats
L2	turn-and-bank indicator	AIM TC 120-5AL		Instrument panel
<u>L2</u>	turn-and-bank indicator	LUN 1213.03-8		
L3	artificial horizon	AIM 510-8D		
L4	directional gyro	AIM 205-1BL		
L6	clock	MD 91-LET	optional	
L7	<b>ATT. GYR.</b> fuse	1 A / 250 V		Console under instrument panel
L8	<b>DIR. GYR.</b> fuse	1 A / 250 V		
L9	<b>TURN C.</b> fuse	1 A / 250 V		
L10	diode	KY 132/300		L 242.8520-04.00 diode box
L11	<b>BATTERY</b> fuse	3,15 A / 250 V		Console under instrument panel
L12	diode	KY 708K		L 242.8520-04.00 diode box
L13	diode	KY 132/300		
L14	SONNENSCHHEIN battery (2 pcs)	07190 18500 6Cx2S 1,1 Ah/12V		Under the cargo compartment floor
L15	<b>EMERG. SOURCE</b> green LED	LQ 1732		Instrument panel
L16	resistor	1K5/1W		Upon firewall
L17	relay	RP-2 or TKE 52 PDT		
Z20	ŠR 4S connector: male female	LN 24 BPE 4 Š1 LN 24 KPE 4 G1		Under the casing of emergency electric source

A ... printed board contains diode of L 242.8520-04.00 diode box

*Fig. 91-12 Turn-and-Bank indicator, artificial horizon, directional gyro, diode box  
(page 2 of 2)*

**EFFECTIVITY:** up to S/N 0006 (except S/N 0004) and  
S/N 0009

# CIRCUIT L

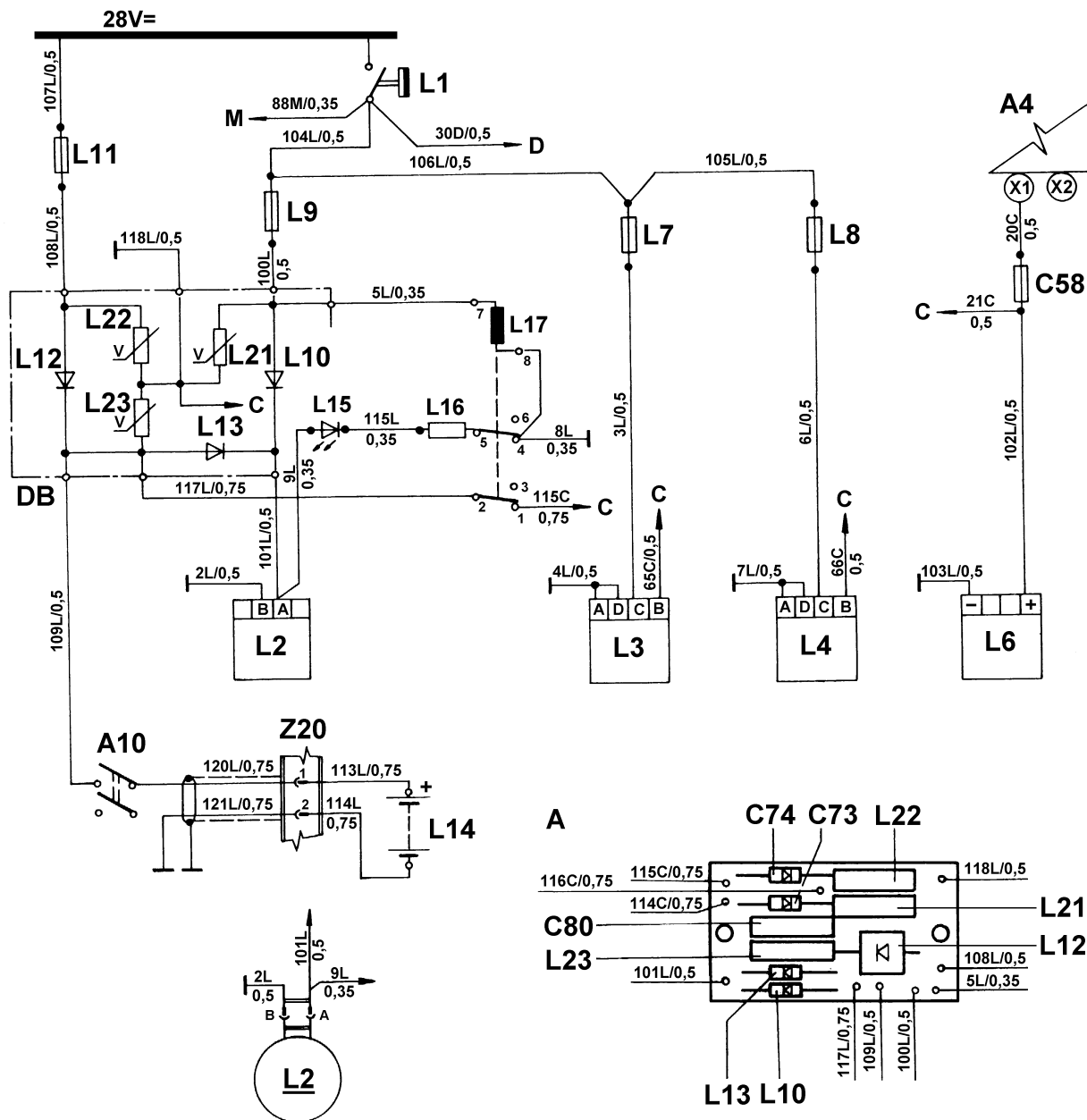


Fig. 91-12A Turn-and-Bank indicator, artificial horizon, directional gyro, diode box  
(page 1 of 2)

Item	Name	Type	Note	Location
A4	contactor	MS-24166-D2	(Fig. 91-1)	Upon firewall
A10	<b>MASTER SWITCH</b>	2 V 45		Console under instrument panel
C58	<b>INT. LIGHT</b> fuse	1 A / 250 V		
C73, C74	diode	1N 4007		Diode box (DB)
C80	varistor	VE 17M 006 00K		
DB	diode box	L 143.8520-04.00		Below switches
L1	<b>FLIGHT INSTR.</b> switch	AZS 5		Panel between fwd seats
L2	turn-and-bank indicator	S-TEC 6407-28L		Instrument panel
<u>L2</u>	turn-and-bank indicator	LUN 1213.03-8		
L3	artificial horizon	AIM 510-8D		
L4	directional gyro	AIM 205-1BL		
L6	clock	MD 91-LET	optional	
L7	<b>ATT. GYR.</b> fuse	1 A / 250 V		Console under instrument panel
L8	<b>DIR. GYR.</b> fuse	1 A / 250 V		
L9	<b>TURN C.</b> fuse	1 A / 250 V		
L10	diode	1N 4007		Diode box (DB)
L11	<b>BATTERY</b> fuse	3,15 A / 250 V		Console under instrument panel
L12	diode	P 600 K		Diode box (DB)
L13	diode	1N 4007		
L14	SONNENSCHIN battery (2 pcs)	07190 18500 6Cx2S 1,1 Ah/12V		Under the cargo compartment floor
L15	<b>EMERG. SOURCE</b> green LED	LQ 1732		Instrument panel
L16	resistor	1K5/1W		Upon firewall
L17	relay	RP-2 or TKE 52 PDT		
L21- L23	varistor	VE 17M 006 00K		Diode box (DB)
Z20	ŠR 4S connector: male female	LN 24 BPE 4 Š1 LN 24 KPE 4 G1		Under the casing of emergency electric source

A ... printed board contains diode of L 143.8520-04.00 diode box

*Fig. 91-12A Turn-and-Bank Indicator, artificial horizon, directional gyro, diode box  
(page 2 of 2)*

**EFFECTIVITY:** for FRG and from S/N 0007 (except S/N 0009) up to S/N 0045 incl. (except S/N 0042)

# CIRCUIT L

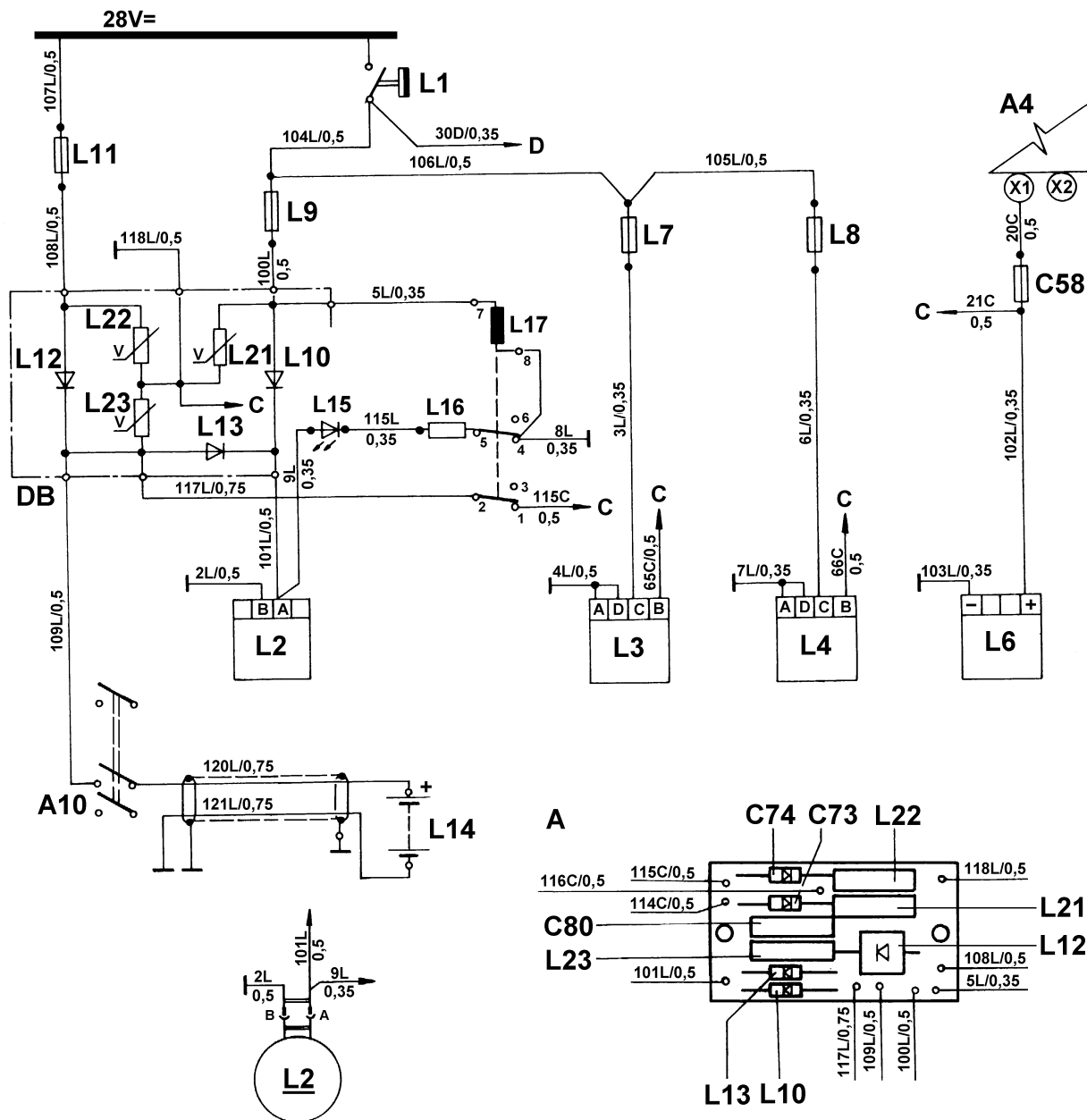


Fig. 91-12B Turn-and-Bank Indicator, artificial horizon, directional gyro, diode box  
(page 1 of 2)



Item	Name	Type	Note	Location
A4	contactor	MS-24166-D2		Upon firewall
A10	<b>MASTER SWITCH</b>	2 V 45		Console under instrument panel
C58	<b>INT. LIGHT</b> circuit breaker	ETA 1110-1 A		
C73, C74	diode	1N 4007		Diode box (DB)
C80	varistor	VE 17M 006 00K		
DB	diode box	L 143.8520-04.00		Below switches
L1	<b>FLIGHT INSTR.</b> switch	AZS 5		Panel between fwd seats
L2	turn-and-bank Indicator	S-TEC 6407-28L or S-TEC 6405-28L		Instrument panel
<u>L2</u>	turn-and-bank Indicator	LUN 1213.03-8		
L3	artificial horizon	AIM 510-8D or AIM 1200-1R or LUN 1241.A8G8W		
L4	directional gyro	AIM 205-1BL		
L6	clock	MD 91-LET or LC-2	optional	
L7	<b>ATT. GYR.</b> circuit breaker	ETA 1110-1 A		Console under instrument panel
L8	<b>DIR. GYR.</b> circuit breaker	ETA 1110-1 A		
L9	<b>TURN C.</b> circuit breaker	ETA 1110-1 A		
L10	diode	1N 4007		Diode box (DB)
L11	<b>BATTERY</b> circuit breaker	ETA 1110-3 A		Console under instrument panel
L12	diode	P 600 K		Diode box (DB)
L13	diode	1N 4007		
L14	SONNENSCHHEIN battery (2 pcs)	07190 18500 6Cx2S 1,1 Ah/12V		Under the cargo compartment floor
L15	<b>EMERG. SOURCE</b> green LED	LQ 1732		Instrument panel
L16	resistor	1K5/1W		Upon firewall
L17	relay	TKE 52 PDT		
L21-L23	varistor	VE 17M 006 00K		Diode box (DB)

A ... printed board contains diode of L 143.8520-04.00 diode box

*Fig. 91-12B Turn-and-Bank Indicator, artificial horizon, directional gyro, diode box  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0046 incl.

# CIRCUIT L

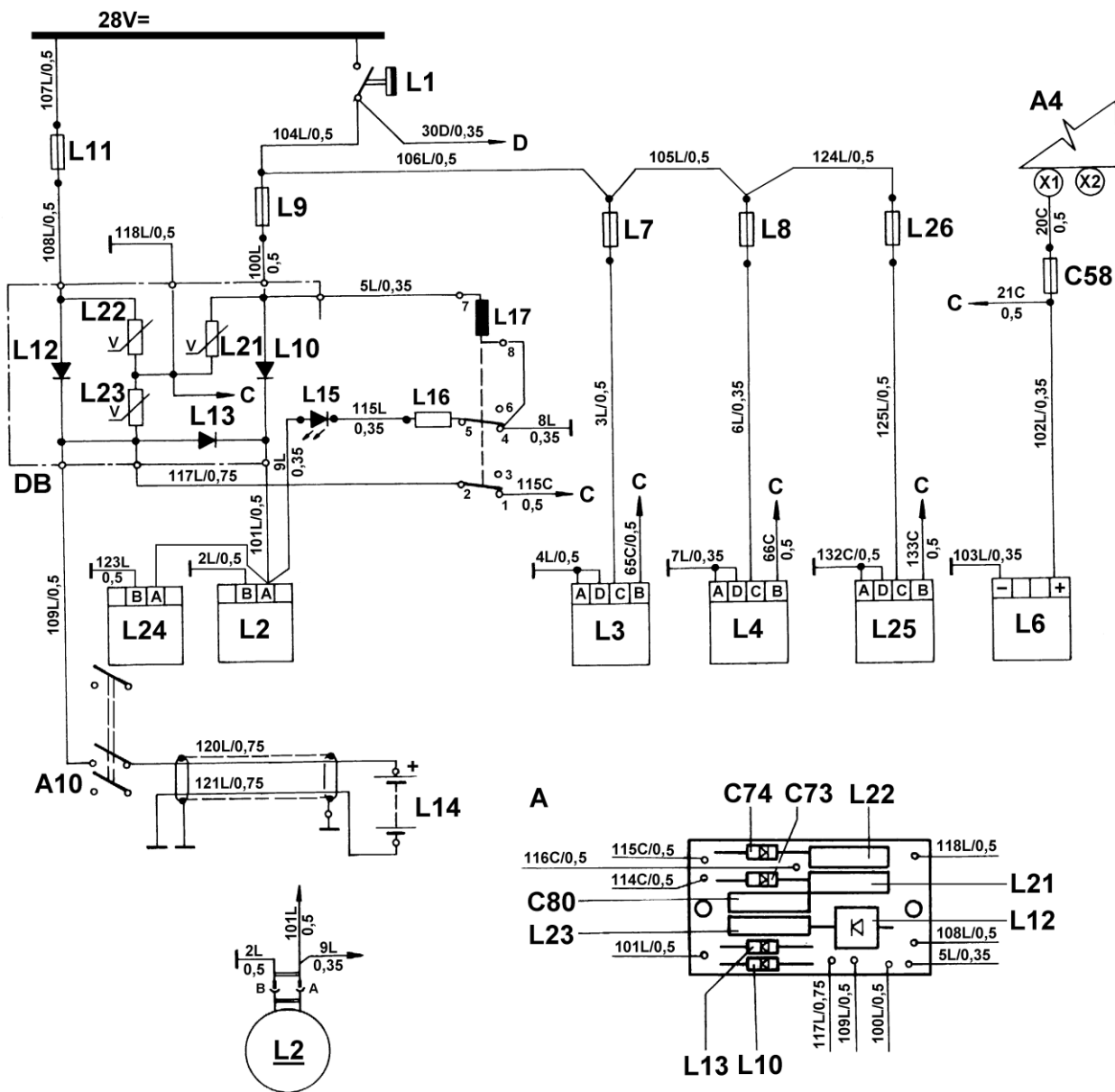


Fig. 91-12C Turn-and-Bank indicator 1, 2, artificial horizon 1, 2, directional gyro, diode box  
(page 1 of 2)

EFFECTIVITY: from S/N 0046 incl.

Item	Name	Type	Note	Location
A4	contactor	MS-24166-D2		Upon firewall
A10	<b>MASTER SWITCH</b>	2 V 45		Console under instrument panel
C58	<b>INT. LIGHT</b> circuit breaker	ETA 1110-1 A		
C73, C74	diode	1N 4007		Diode box (DB)
C80	varistor	VE 17M 006 00K		
DB	diode box	L 143.8520-04.00		Below switches
L1	<b>FLIGHT INSTR.</b> switch	AZS 5		Panel between fwd seats
L2	turn-and-bank indicator 1	S-TEC 6407-28L or S-TEC 6405-28L		Instrument panel
<u>L2</u>	turn-and-bank indicator	LUN 1213.03-8		
L3	artificial horizon 1	AIM 510-8D or AIM 1200-1R or LUN 1241.A8G8W		
L4	directional gyro	AIM 205-1BL		
L6	clock	MD 91-LET or LC-2	optional	
L7	<b>ATT. GYR.1</b> circuit breaker	ETA 1110-1 A		Console under instrument panel
L8	<b>DIR. GYR.</b> circuit breaker	ETA 1110-1 A		
L9	<b>TURN C.</b> circuit breaker	ETA 1110-1 A		
L10	diode	1N 4007		Diode box (DB)
L11	<b>BATTERY</b> circuit breaker	ETA 1110-3 A		Console under instrument panel
L12	diode	P 600 K		Diode box (DB)
L13	diode	1N 4007		
L14	SONNENSCHHEIN battery (2 pcs)	07190 18500 6Cx2S 1,1 Ah/12V		Under the cargo compartment floor
L15	<b>EMERG. SOURCE</b> green LED	LQ 1732		Instrument panel
L16	resistor	1K5/1W		Upon firewall
L17	relay	TKE 52 PDT		
L21-L23	varistor	VE 17M 006 00K		Diode box (DB)
L24	turn-and-bank indicator 2	S-TEC 6407-28L or S-TEC 6405-28L		Instrument panel
L25	artificial horizon 2	AIM 510-8D or AIM 1200-1R or LUN 1241.A8G8W		
L26	<b>ATT. GYR.1</b> circuit breaker	ETA 1110-1 A		Console under instrument panel

A ... printed board contains diode L 143.8520-04.00 diode box

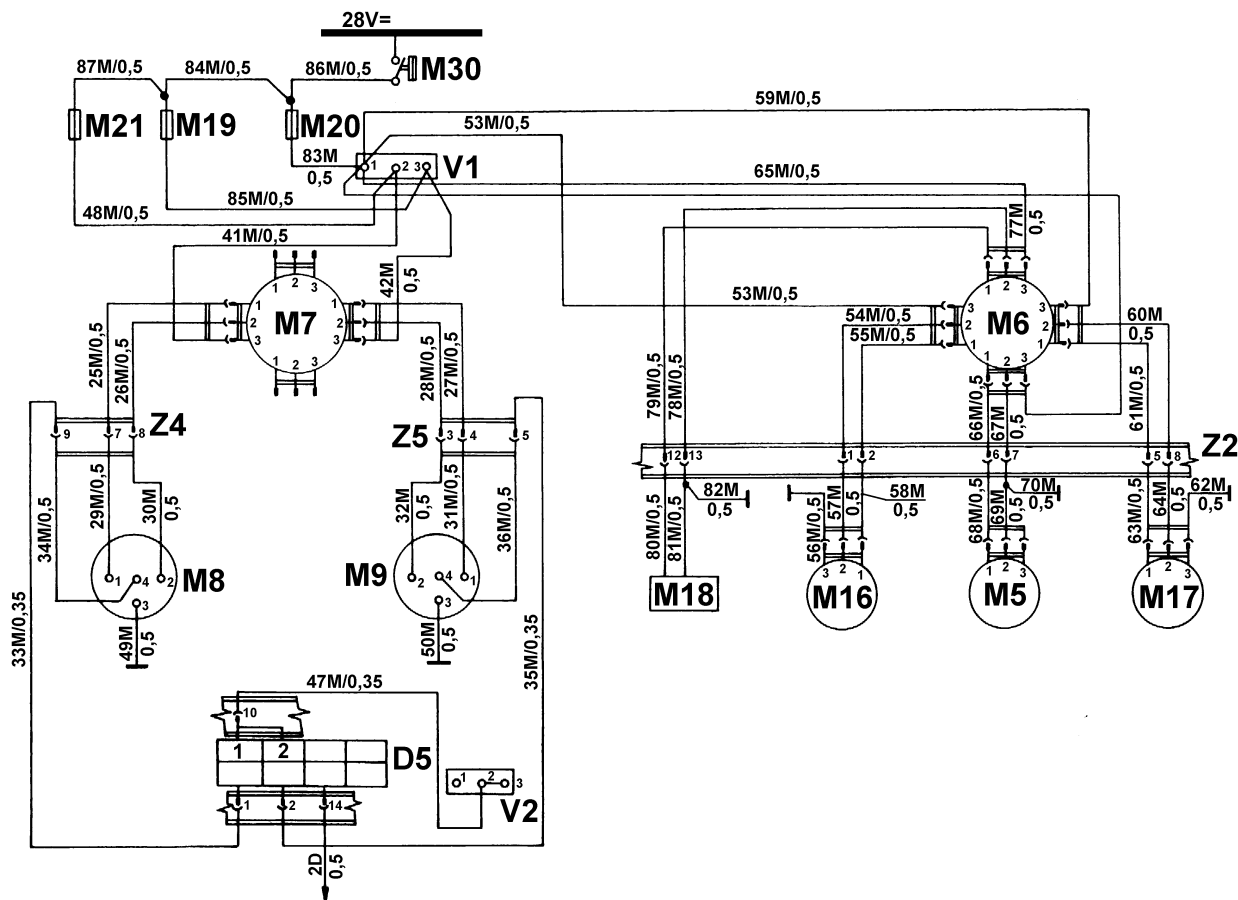
*Fig. 91-12C Turn-and-Bank indicator 1, 2, artificial horizon 1, 2, directional gyro, diode box  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0046 incl.

91-70-00

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2011-02-02

### CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

#### **NOTE**

The M8, M9 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

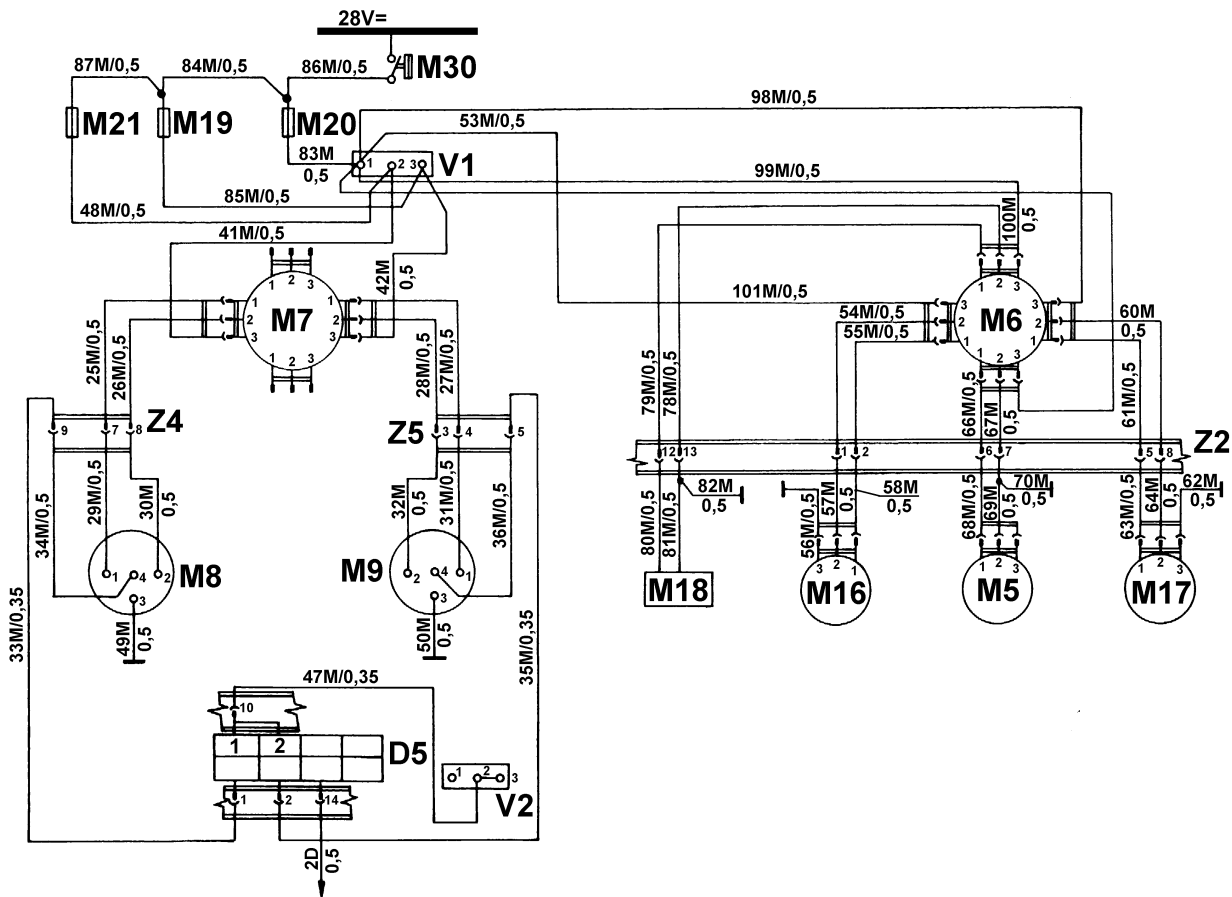
Fig. 91-13 Engine instruments, fuel quantity gauges of main tanks  
(page 1 of 2)

Item	Name	Type	Note	Location
D5	light Annunciation Panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.09 or LUN 1639.10		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.11.or LUN 1639.12	(liters) (US gal.)	
M8	tank float unit	C 142.7231-00.08		Upon faces of main port tank
M9	tank float unit			Upon faces of main starboard tank
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> fuse	1 A / 250 V		Console under instrument panel
M20	<b>ENG. IND.</b> fuse	2 A / 250 V		
M21	<b>FUEL IND. L</b> fuse	1 A / 250 V		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		Panel between fwd seats
V1, V2	terminal board	74K		Console under the instrument panel cover
Z2, Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall (Z2); Fuselage left side (Z4)
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage right side

*Fig. 91-13 Engine instruments, fuel quantity gauges of main tanks  
(page 2 of 2)*

**EFFECTIVITY:** up to S/N 0006 (except S/N 0003  
and except FRG) and S/N 0009

# CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

## NOTE

The M8, M9 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

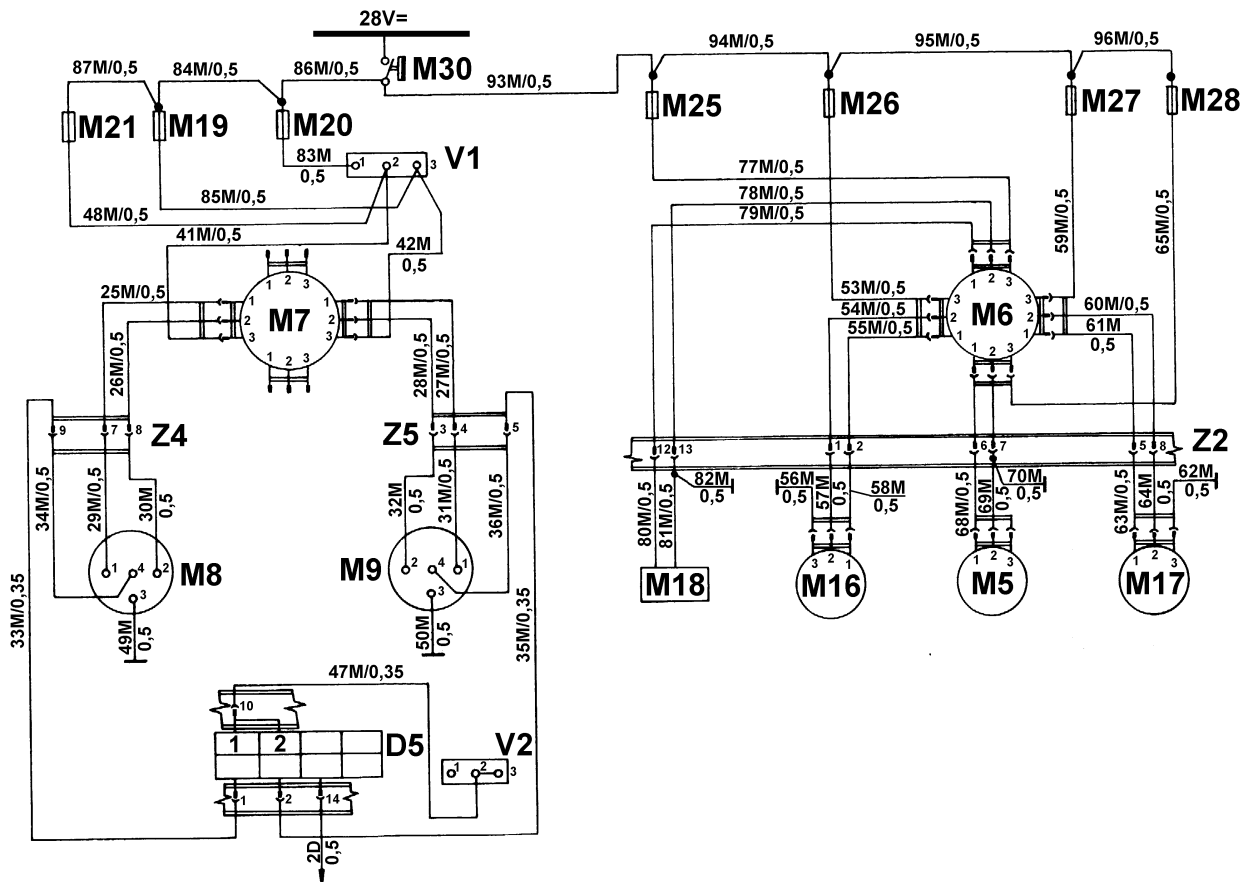
Fig. 91-13A Engine instruments, fuel quantity gauges of main tanks  
(page 1 of 2)

Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.09 or LUN 1639.10		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.18 or LUN 1639.19	(liters) (US gal.)	
M8	tank float unit	C 142.7231-00.08		Upon faces of main port tank
M9	tank float unit			Upon faces of main starboard tank
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> fuse	1 A / 250 V		Console under instrument panel
M20	<b>ENG. IND.</b> fuse	2 A / 250 V		
M21	<b>FUEL IND. L</b> fuse	1 A / 250 V		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		Panel between fwd seats
V1, V2	terminal board	74K		Console under the instrument panel cover
Z2, Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall (Z2); Fuselage left side (Z4)
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage right side

*Fig. 91-13A Engine instruments, fuel quantity gauges of main tanks  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0007 up to S/N 0022  
(except S/N 0009 and except FRG)

## CIRCUIT M



1 ... L FUEL LOW LEVEL  
2 ... R FUEL LOW LEVEL

**NOTE**

The M8, M9 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

*Fig. 91-13B Engine instruments, fuel quantity gauges of main tanks  
(page 1 of 2)*

**EFFECTIVITY:** up to S/N 0022 for FRG

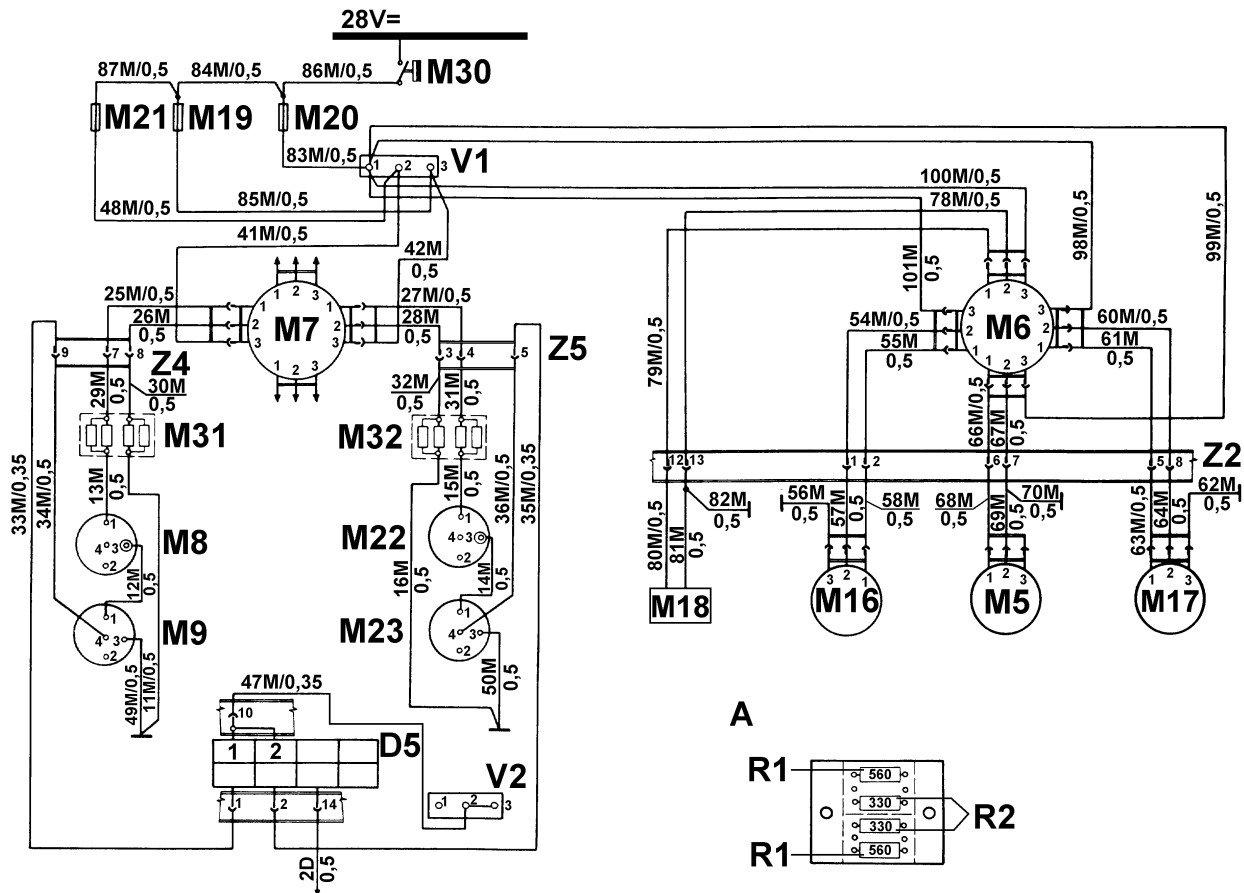


Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.09		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.11 or LUN 1639.18		
M8	tank float unit	C 142.7231-00.08		Upon faces of main port tank
M9	tank float unit			Upon faces of main starboard tank
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> fuse	1 A / 250 V		Console under instrument panel
M20	UNUSED	-----		
M21	<b>FUEL IND. L</b> fuse	1 A / 250 V		Console under instrument panel
M25	<b>VERG. TEMP.</b> fuse	1 A / 250 V		Panel between fwd seats
M26	<b>KRAFTST. DR.</b> fuse	1 A / 250 V		
M27	<b>ÖLDRUCK</b> fuse	1 A / 250 V		
M28	<b>ÖLTEMP.</b> fuse	1 A / 250 V		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		
V1, V2	terminal board	74K		Console under the instrument panel cover
Z2, Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall (Z2); Fuselage left side (Z4)
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage right side

*Fig. 91-13B Engine instruments, fuel quantity gauges of main tanks  
(page 2 of 2)*

**EFFECTIVITY:** up to S/N 0022 for FRG

# CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

## NOTE

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

Fig. 91-13C Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 1 of 2)

Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.09 (59) or LUN 1639.10 (60)		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.22 (72) or LUN 1639.23 (73)	(liters) (US gal.)	
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> fuse	1 A / 250 V		Console under instrument panel
M20	<b>ENG. IND.</b> fuse	2 A / 250 V		
M21	<b>FUEL IND. L</b> fuse	1 A / 250 V		
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		Panel between fwd seats
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1,V2	terminal board	74K		Console under the instrument panel cover
Z2, Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall (Z2); Fuselage left side (Z4)
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage right side

A ... the printed board of L 143.8531-00.00 resistor unit

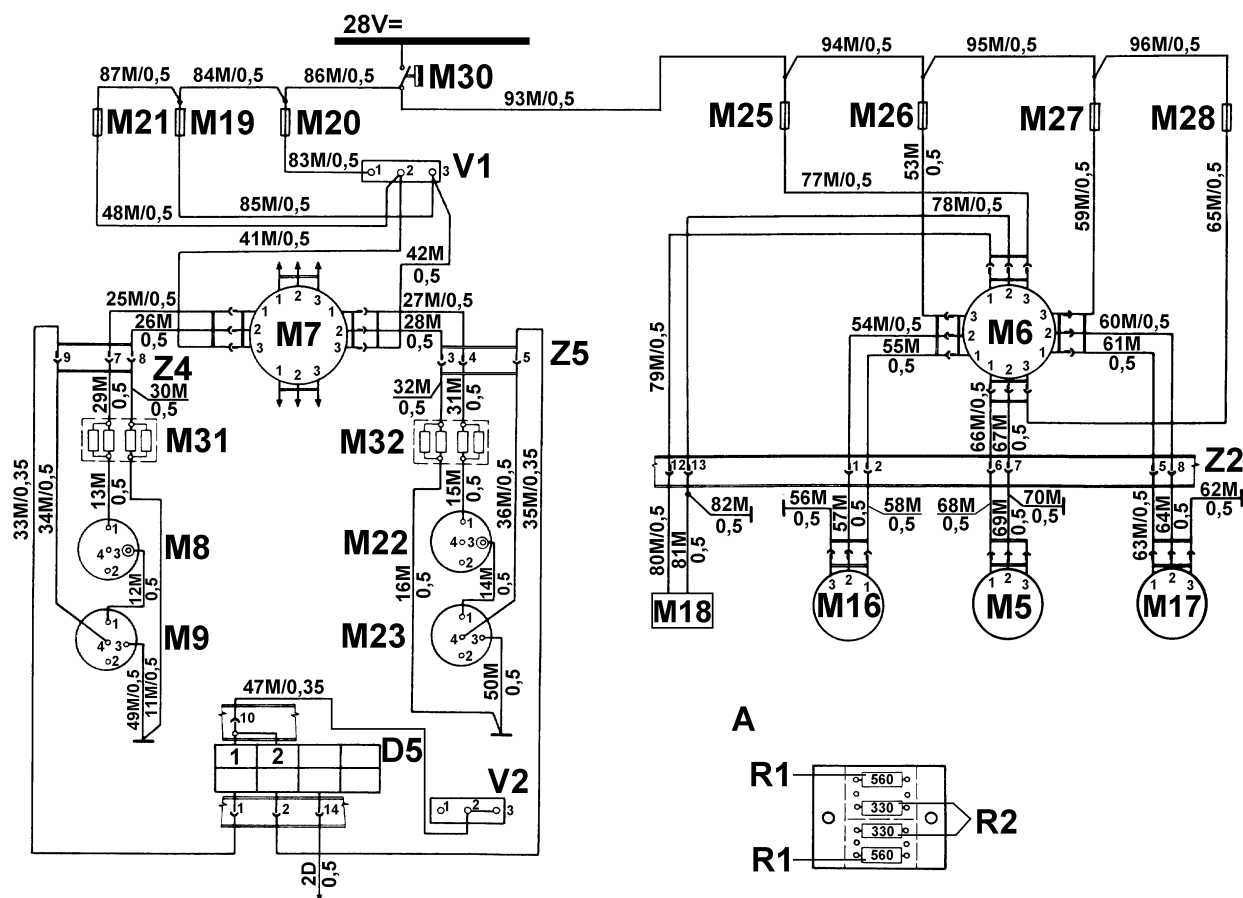
*Fig. 91-13C Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 of 2)*

### NOTE

Complementary number on parenthesis at position M6 and M7 indicates hermetically enclosed quadruple indicators equipped with internal lighting.

**EFFECTIVITY:** S/N 0003 and from S/N 0023  
(except FRG) up to S/N 0045 incl.  
(except S/N 0042)

## CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL  
2 ... R FUEL LOW LEVEL

**NOTE**

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

Fig. 91-13D Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 1 of 2)

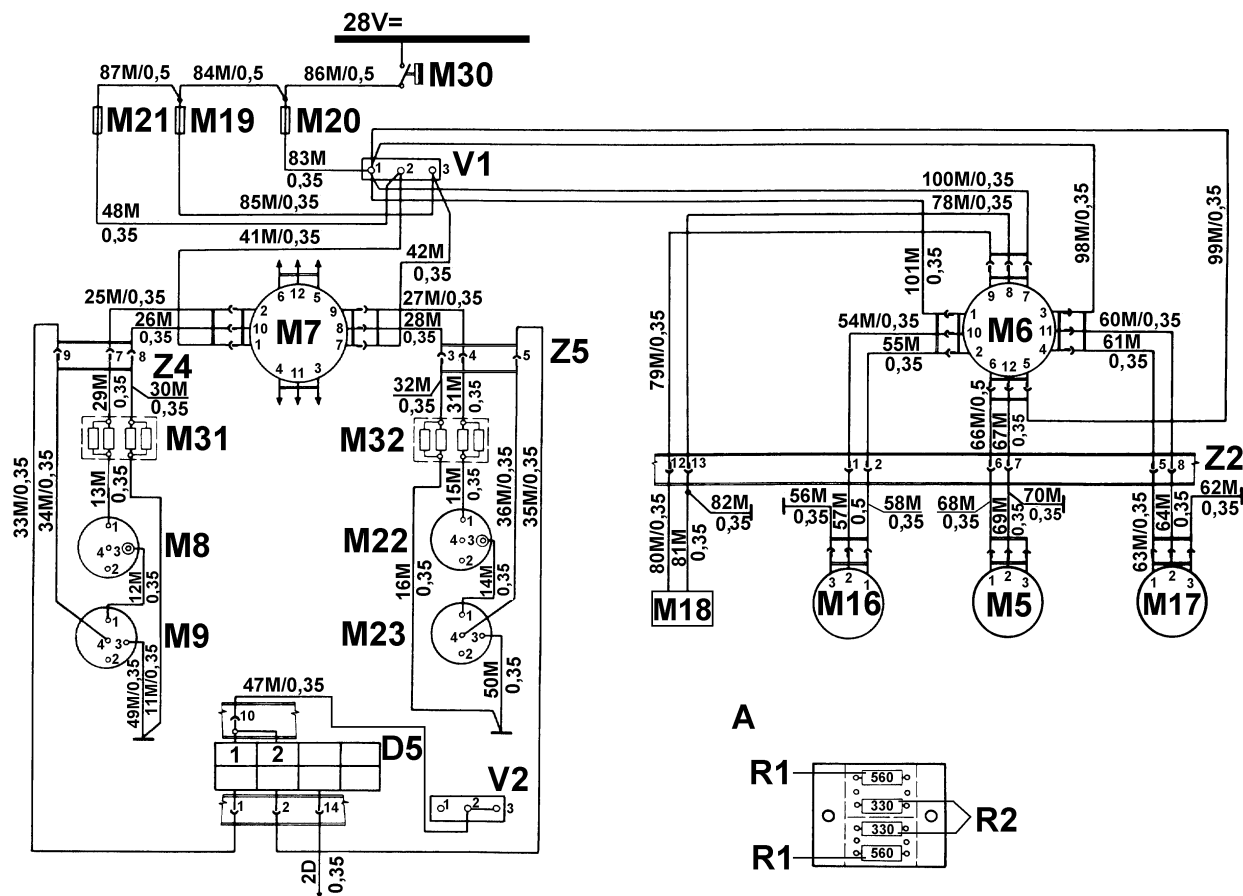
Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.09		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.22		
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> fuse	1 A / 250 V		Console under instrument panel
M20	UNUSED	-----		
M21	<b>FUEL IND. L</b> fuse	1 A / 250 V		Console under instrument panel
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M25	<b>VERG. TEMP.</b> fuse	1 A / 250 V		Panel between fwd seats
M26	<b>KRAFTST. DR.</b> fuse	1 A / 250 V		
M27	<b>ÖLDRUCK</b> fuse	1 A / 250 V		
M28	<b>ÖLTEMP.</b> fuse	1 A / 250 V		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1,V2	terminal board	74K		Console under the instrument panel cover
Z2, Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Upon firewall (Z2); Fuselage left side (Z4)
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Fuselage right side

A ... the printed board of L 143.8531-00.00 resistor unit

*Fig. 91-13D Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 of 2)*

**EFFECTIVITY:** from S/N 0023 for FRG up to S/N 0045 incl.

# CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

## NOTE

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

Fig. 91-13E Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 1 of 2)

**EFFECTIVITY:** from S/N 0046 incl. up to S/N 0052  
incl.

Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.5X or LUN 1639.6X		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.7X		
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> circuit breaker	ETA 1110-1A		Console under instrument panel
M20	<b>ENG. IND.</b> circuit breaker	ETA 1110-2A		
M21	<b>FUEL IND. L</b> circuit breaker	ETA 1110-1A		
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		Panel between fwd seats
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1, V2	terminal board	74K		Console under the instrument panel cover
Z2	ŠR 32-14 connector: male female	ŠR32 BPN14 Š5 U2 ŠR32 KPN14 G5 U2		Upon firewall
Z4, Z5	AMP 17-14 connector: male female	990-443 990-444		Fuselage left side (Z4); Fuselage right side (Z5)

A ... the printed board of L 143.8531-00.00 resistor unit

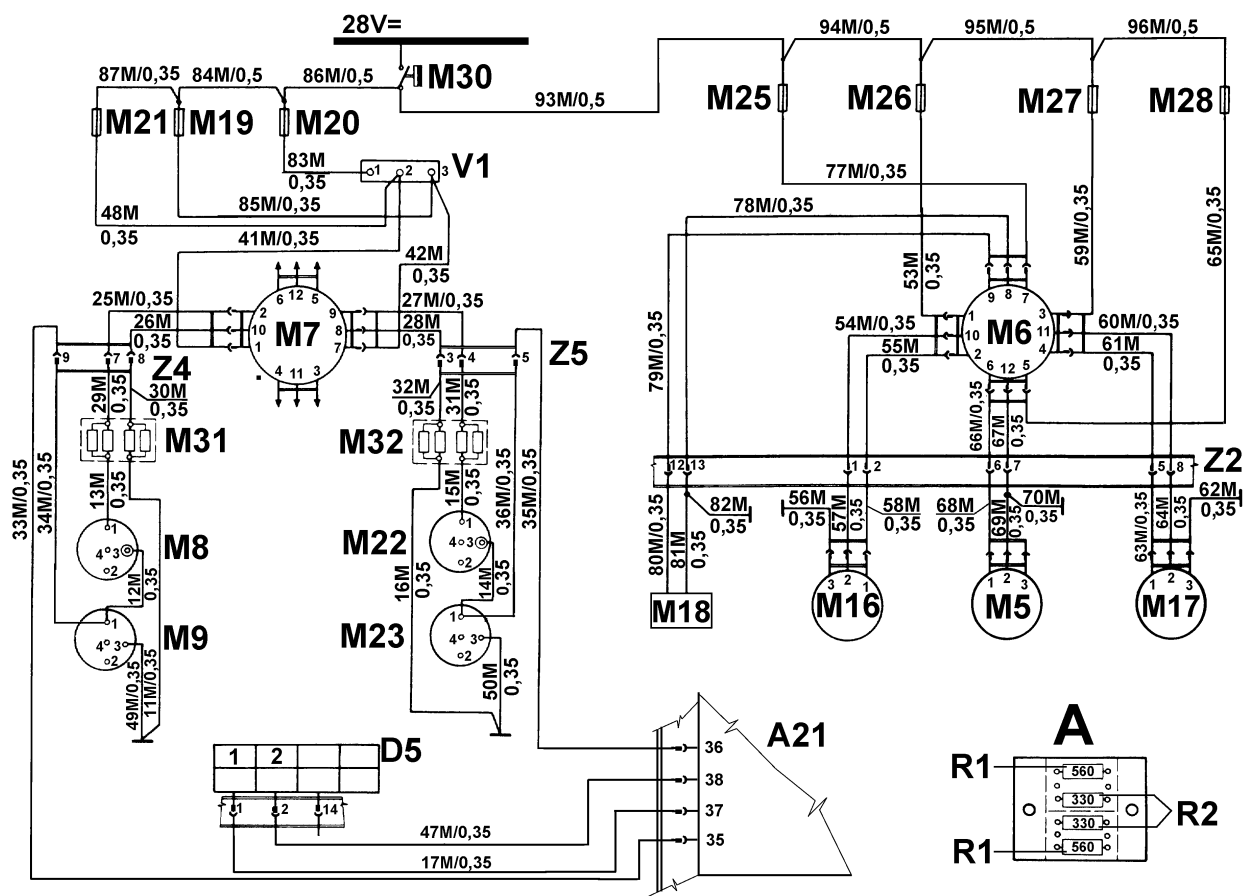
*Fig. 91-13E Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 of 2)*

### NOTE

Number designated by "X" at items M6 and M7 enables installation of quadruple indicators of 50, 60 and 70 series.

**EFFECTIVITY:** from S/N 0046 incl. up to S/N 0052  
incl.

### CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

#### NOTE

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.  
 Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

Fig. 91-13F Engine instruments, fuel quantity gauges of main tanks, resistor unit  
 (page 1 of 2)



Item	Name	Type	Note	Location
A 21	control unit	L 143.8521-00.00B	(Fig. 91-2A)	Beam of fwd floor
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.5X or LUN 1639.6X		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.7X		
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> circuit breaker	ETA 1110-1A		Console under instrument panel
M20	<b>ENG. IND.</b> circuit breaker	ETA 1110-2A		
M21	<b>FUEL IND. L</b> circuit breaker	ETA 1110-1A		
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M25	<b>VERG. TEMP.</b> fuse	1A / 250V		Panel between fwd seats
M26	<b>KRAFTST. DR.</b> fuse	1A / 250V		
M27	<b>ÖLDRUCK</b> fuse	1A / 250V		
M28	<b>ÖLTEMP.</b> fuse	1A / 250V		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1	terminal board	74K		Console under the instrument panel cover
Z2	ŠR 32-14 connector: male female	ŠR32 BPN14 Š5 U2 ŠR32 KPN14 G5 U2		Upon firewall
Z4, Z5	AMP 17-14 connector: male female	990-443 990-444		Fuselage left side (Z4); Fuselage right side (Z5)

A ... the printed board of L 143.8531-00.00 resistor unit

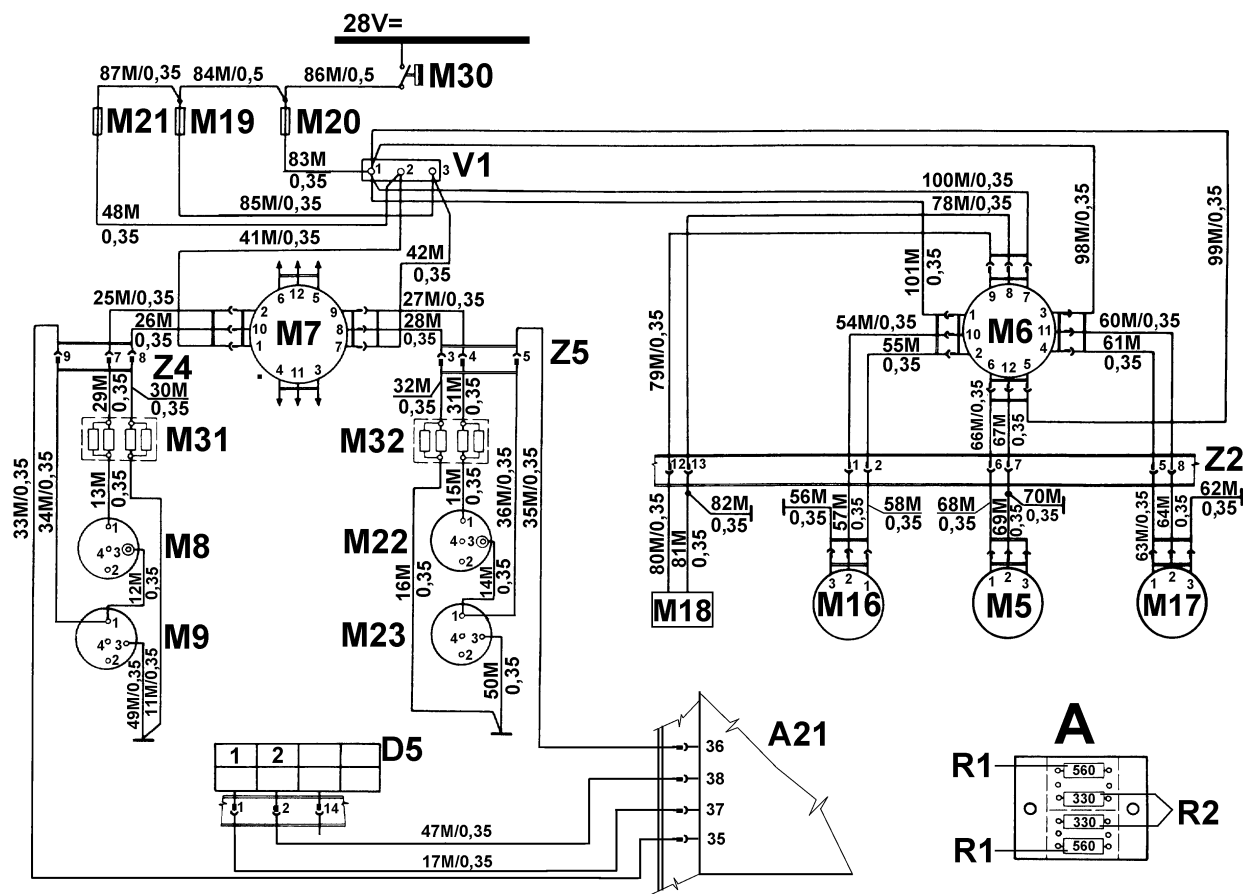
*Fig. 91-13F Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 ze 2)*

### NOTE

Number designated by "X" at items M6 and M7 enables installation of quadruple indicators of 50, 60 and 70 series.

**EFFECTIVITY:** Z 143 L from S/N 0053 incl. for FRG  
up to S/N 0065 incl.

### CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

#### NOTE

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

Fig. 91-13G Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 1 of 2)

Item	Name	Type	Note	Location
A 21	control unit	L 143.8521-00.00B	(Fig. 91-2A)	Beam of fwd floor
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.5X or LUN 1639.6X		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.7X		
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VSR-0,6 (60 kPa)		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M18	carburetor temperature probe	Richter B-5		Upon carburetor
M19	<b>FUEL IND. R</b> circuit breaker	ETA 1110-1A		Console under instrument panel
M20	<b>ENG. IND.</b> circuit breaker	ETA 1110-2A		
M21	<b>FUEL IND. L</b> circuit breaker	ETA 1110-1A		
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1	terminal board	74K		Console under the instrument panel cover
Z2	ŠR 32-14 connector: male female	ŠR32 BPN14 Š5 U2 ŠR32 KPN14 G5 U2		Upon firewall
Z4, Z5	AMP 17-14 connector: male female	990-443 990-444		Fuselage left side (Z4); Fuselage right side (Z5)

A ... the printed board of L 143.8531-00.00 resistor unit

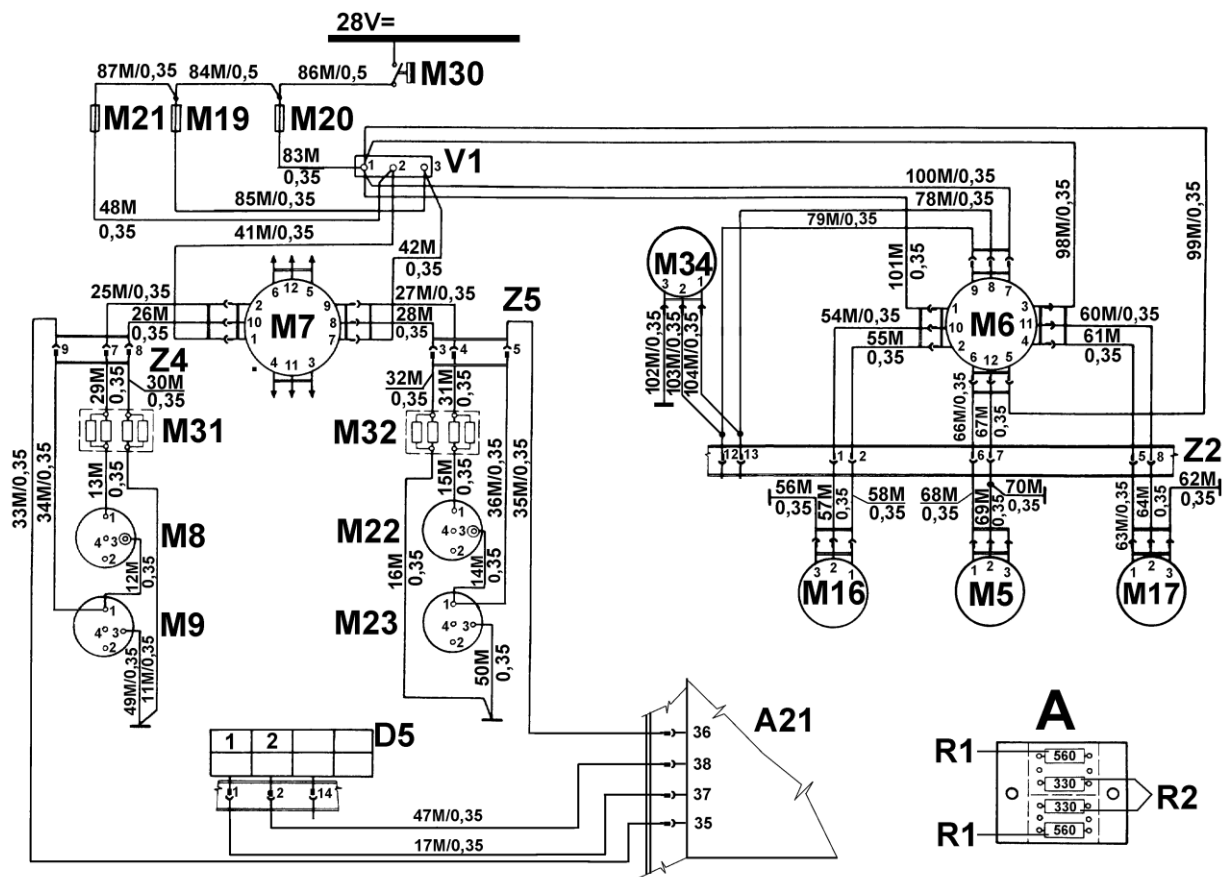
*Fig. 91-13G Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 of 2)*

### **NOTE**

Number designated by "X" at items M6 and M7 enables installation of quadruple indicators of 50, 60 and 70 series.

**EFFECTIVITY:** Z 143 L from S/N 0053 except FRG  
up to S/N 0065 incl.

# CIRCUIT M



Inscriptions used in D5 light annunciation panel:

- 1 ... L FUEL LOW LEVEL
- 2 ... R FUEL LOW LEVEL

### NOTE

The M8, M9, M22, M23 float tank unit terminals No. 1 are blue, No. 2 are yellow, No. 4 black, and No.3 are fixing screws.

Terminal 3 of M8 and M22 float tank units is insulated from the aircraft ground.

*Fig. 91-13H Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 1 of 2)*

Item	Name	Type	Note	Location
A21	control unit	L 143.8521-00.00B	(Fig. 91-2A)	Beam of fwd floor
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M5	oil temperature probe	LUN 1358-8		Engine
M6	quadruple engine indicator	LUN 1639.5X or LUN 1639.6X		Instrument panel
M7	quadruple fuel quantity gauge	LUN 1639.7X		
M8	tank float unit	L 143.7231-08.00		Upon faces of main port tank
M9	tank float unit	L 143.7231-07.00		
M16	fuel pressure sensor	VS-3-600		Upon firewall
M17	oil pressure sensor	LUN 1563 or LUN 1563.01		
M19	<b>FUEL IND. R</b> circuit breaker	ETA 1110-1A		Console under instrument panel
M20	<b>ENG. IND.</b> circuit breaker	ETA 1110-2A		
M21	<b>FUEL IND. L</b> circuit breaker	ETA 1110-1A		
M22	tank float unit	L 143.7241-08.00		Upon faces of main starboard tank
M23	tank float unit	L 143.7231-07.00		
M30	<b>ENGINE INSTR.</b> switch	AZS 5		Panel between fwd seats
M31, M32	resistor unit	L 143.8531-00.00		Upon fwd wing spar at main tank
M34	fuel consumption pressure sensor	VSR-06		Upon firewall
R1	resistor	RR W2 E560		Resistor unit
R2	resistor	RR W2 E330		
V1	terminal board	74K		Console under the instrument panel cover
Z2	ŠR 32-14 connector: male female	ŠR32 BPN14 Š5 U2 ŠR32 KPN14 G5 U2		Upon firewall
Z4, Z5	AMP 17-14 connector: male female	990-443 990-444		Fuselage left side (Z4); Fuselage right side (Z5)

A ... the printed board of L 143.8531-00.00 resistor unit

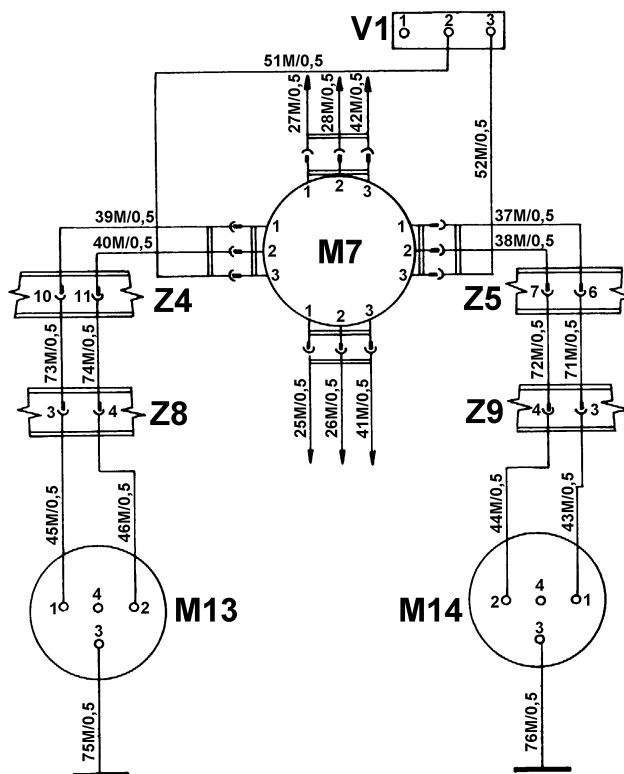
*Fig. 91-13H Engine instruments, fuel quantity gauges of main tanks, resistor unit  
(page 2 of 2)*

### **NOTE**

Number designated by "X" at items M6 and M7 enables installation of quadruple indicators of 50, 60 and 70 series.

**EFFECTIVITY:** Z 143 LSi from S/N 0055 incl.  
up to S/N 0065 incl.

# FUEL QUANTITY GAUGES OF AUXILIARY FUEL TANKS



### NOTE

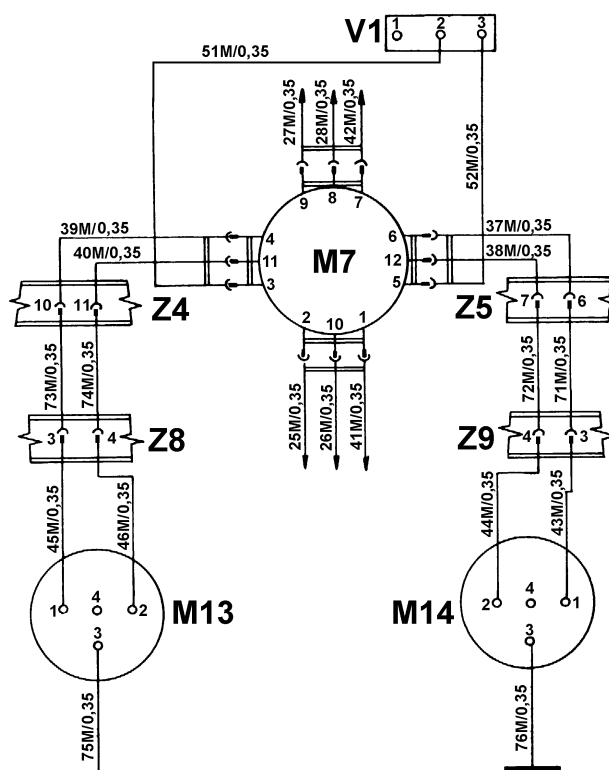
The terminals of M13, M14 terminal boards No. 1 are blue, No. 2 are yellow, No.4 are black, and No. 3 are fixing screws.

Item	Name	Type	Note	Location
M7	Quadruple fuel quantity gauge	(issued in Fig. 91-13)		Instrument panel
M13	Float tank unit	Z 42.7270-25.00		Fwd face of port outboard tank
M14	Float tank unit			Fwd face of starboard outboard tank
V1	Terminal board	74K		Console under the instrument panel cover
Z4	ŠR 13S connector: male female	LN 39 BPE 13 Š1 LN 39 KPE 13 G1		Left fuselage side
Z5	ŠR 9S connector: male female	LN 36 BPE 9 Š1 LN 36 KPE 9 G1		Right fuselage side
Z8, Z9	ŠR 4S connector: male female	LN 24 BPE 4 Š1 LN 24 KPE 4 G1		Port (Z8) and starboard (Z9) wings at outboard tanks

Fig. 91-14 Fuel quantity gauges of auxiliary fuel tanks

**EFFECTIVITY:** up to S/N 0045 incl.

# FUEL QUANTITY GAUGES OF AUXILIARY FUEL TANKS



## NOTE

The terminals of M13, M14 terminal boards No. 1 are blue, No. 2 are yellow, No.4 are black, and No. 3 are fixing screws.

Item	Name	Type	Note	Location
M7	Quadruple fuel quantity gauge	LUN 1639.7X		Instrument panel
M13	Float tank unit	Z 42.7270-25.00		Fwd face of port outboard tank
M14	Float tank unit			Fwd face of starboard outboard tank
V1	Terminal board	74K		Console under the instrument panel cover
Z4, Z5	AMP 17-14 connector: male female	990-443 990-444		Left fuselage side (Z4); Right fuselage side (Z5)
Z8, Z9	AMP 13-7 connector: male female	990-441 990-442		Port (Z8) and starboard (Z9) wings at outboard tanks

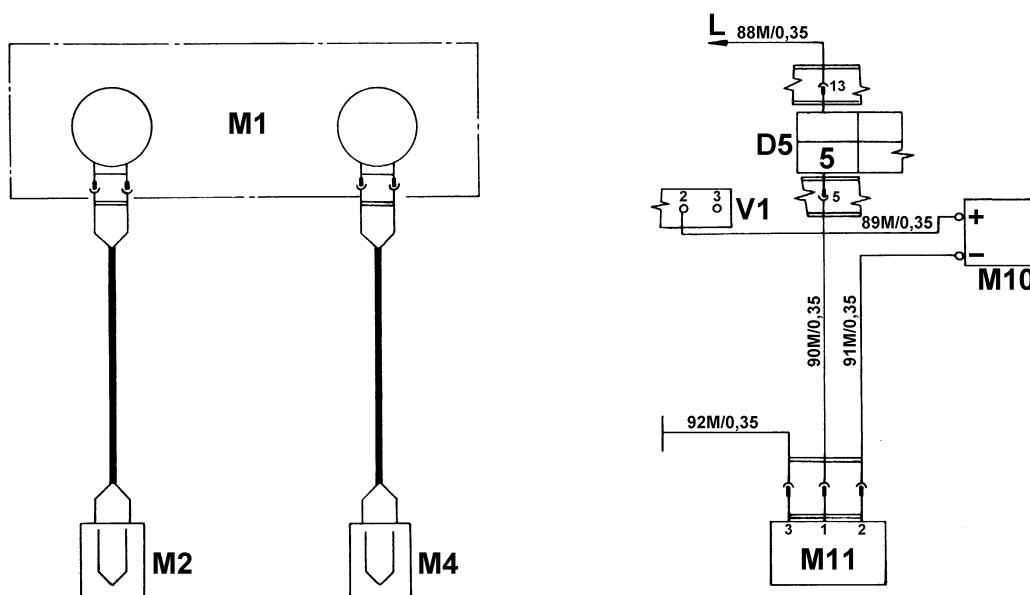
Fig. 91-14A Fuel quantity gauges of auxiliary fuel tanks

## NOTE

Number designated by "X" at item M7 enables installation of quadruple indicators of 70 series.

**EFFECTIVITY:** from S/N 0046 incl.

# ENGINE INSTRUMENTS



Inscription used in D5 light annunciation panel:

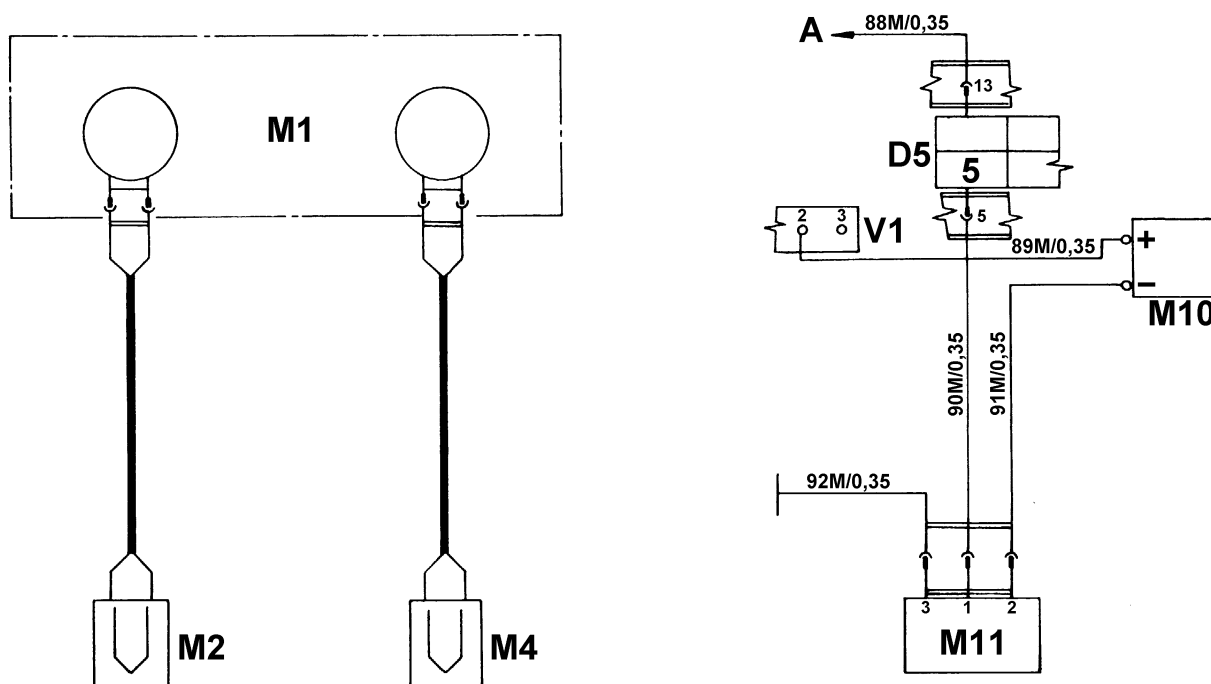
5 ... **OIL PRESS. LOSS**

Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8)	Above middle instrument panel
M1	CHT/EGT indicator	ALCOR 47 028	up to S/N 0014	Instrument panel
M1	CHT/EGT indicator	ALCOR 46 167	from S/N 0015	
M2	CHT probe (ALCOR 42 535 compensation leads)	ALCOR 86 251		Upon engine
M4	EGT probe (ALCOR 42 525 compensation leads))	ALCOR 86 255		
M10	engine run counter	Hobbs model 15 124	optional	Instrument panel
M11	pressure switch	0,18 K LUN 1492-8		Upon firewall
V1	terminal board	74K		Console under the instrument panel cover

Fig. 91-15 Engine instruments



## ENGINE INSTRUMENTS



Inscription used in D5 light annunciation panel:

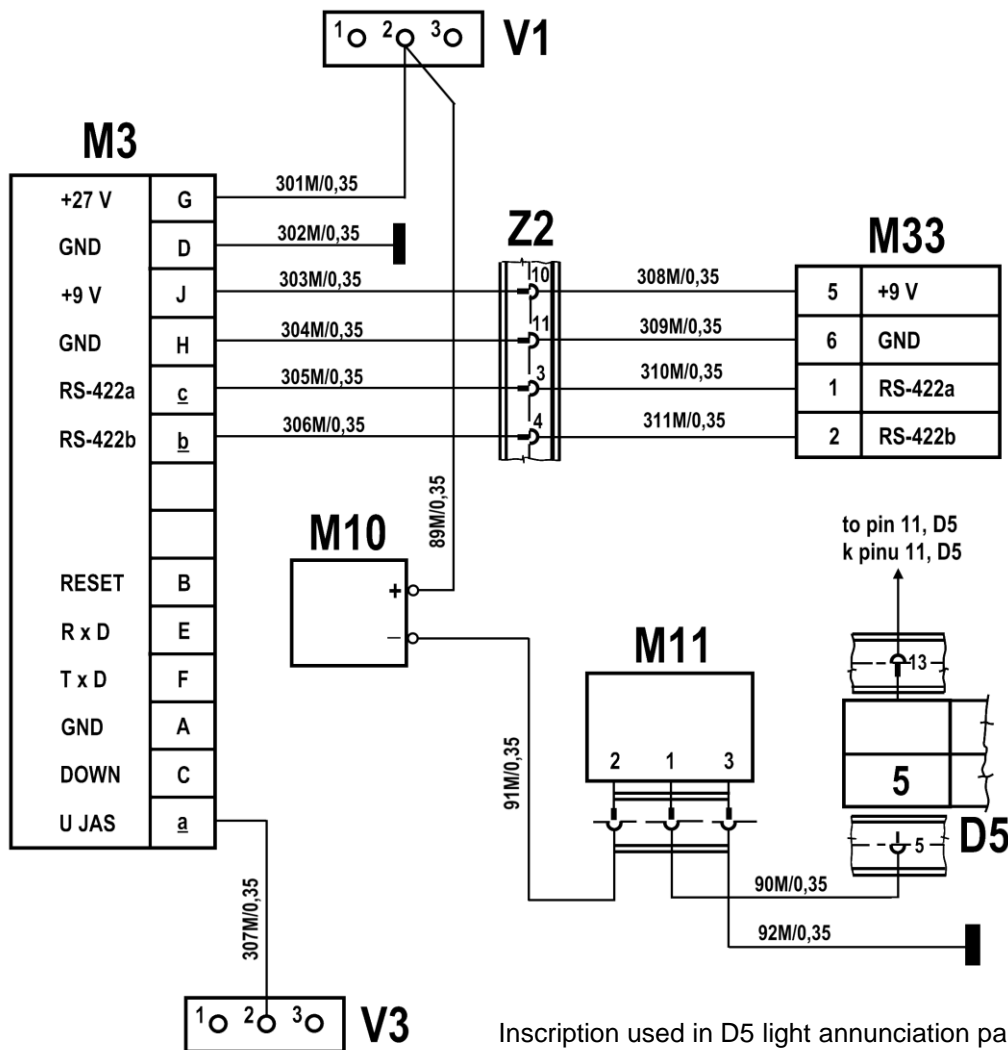
**5 ... OIL PRESS. LOSS**

Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M1	CHT/EGT indicator	ALCOR 46 167		Instrument panel
M2	CHT probe (ALCOR 42 535 compensation leads)	ALCOR 86 251		Upon engine
M4	EGT probe (ALCOR 42 525 compensation leads)	ALCOR 86 255		
M10	engine run counter	Hobbs model 15 000	optional	Instrument panel
M11	pressure switch	0,18 K LUN 1492-8		Upon firewall
V1	terminal board	74K		Console under the instrument panel cover

Fig. 91-15A Engine instruments

**EFFECTIVITY:** from 0046 incl.

### RPM INDICATOR LUN 1301.02



Item	Name	Type	Note	Location
D5	light annunciation panel	08 LUN 2697.04-8	(Fig. 91-8A)	Above middle instrument panel
M3	R.P.M. Indicator	LUN 1358-8		Instrument panel
M10	engine run counter	Hobbs model 15 000		
M11	pressure switch	LUN 1492.03-8 0,18K		Upon firewall
M33	speed transmitter	LUN 1320.01		Aft engine wall
V1, V3	terminal board	74K		Console under the instrument panel cover
Z2	ŠR 32-14 connector: male female	ŠR32 BPN14 Š5 U2 ŠR32 KPN14 G5 U2		Upon firewall

Fig. 91-16 RPM indicator

**EFFECTIVITY:** All (if installed)