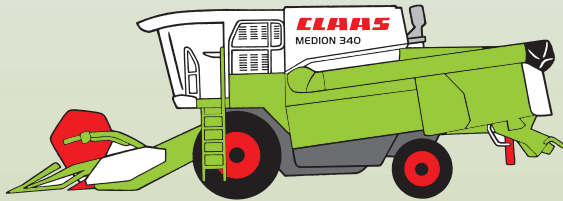


CLAAS



MEDION 340 - 310

Up to serial number:

934 00609

932 02723

Technical Systems

Electric System

SERVICE & PARTS

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Key to diagram:

a	Fuse block a	ZE
a1	Left-hand work lights fuse.....	34
a2	Grain tank unloading tube / Reel adjustment fuse ..	14, 21
a3	Cab outside work lights fuse.....	34
a4	not used	
a5	Lights main circuit fuse	32
a6	CAC / Cab electric system fuse	24, 36
a7	Lights main circuit fuse	32
a8	Cab fan fuse	38
a9	Fieldwork computer fuse.....	12, 24, 26, 30
a10	Lights main circuit fuse	32
a11	Windscreen wiper fuse	37
a12	Road travel activation / Fieldwork computer fuse....	4, 10
a13	Lights main circuit fuse	32
a14	Engine control unit fuse	2
a15	Safety shutdown switch	7
a16	Work lights fuse	34
a17	Front attachment circuits / Reel adjustment fuse	20, 21, 23, 40
a18	Lighting, sieve pan, grain tank and returns fuse	35
A 8	AUTOCONTOUR module (CAC).....	20, 24
A 9	AUTOPILOT module (ATP)	28
A12	Speed monitor module (DZW).....	25
A17	Engine adaptation module (ADM)	1, 2
b	Fuse block b	ZE
b1	Right-hand dipped headlights fuse	33
b2	Fieldwork computer / Flasher fuse	1, 3, 5, 26, 28, 31
b3	Warning beacon fuse.....	30, 40
b4	Left-hand dipped headlights fuse	33
b5	Flasher system fuse.....	31
b6	Instrument lighting fuse.....	25, 26, 29, 33, 35, 36
b7	Work lights fuse	34
b8	Work lights fuse	34
b9	Horn fuse	35, 39
b10	Threshing mechanism fuse.....	7, 10, 12, 28
b11	Fan variable-speed drive fuse	10
b12	Relay K59 control fuse.....	3, 38
b13	Speed monitor fuse.....	10, 25
b14	Reel variable-speed drive.....	19
b15	Generator release fuse	3
b16	Additional socket fuse.....	40
b17	Cooling unit, air conditioner fuse	38
b18	Fieldwork computer / Yield meter fuse	5, 27
c	Front attachment reverse fuse (40 A electric, 20 A hydraulic).....	ZE, 17
DI	Diode PCB	2b, 3, 24, 25, 26, 30
DM	Daimler-Chrysler diagnosis plug.....	2
F 3	Engine fuse block	ZE, 2

01a

**Main power supply,
Diesel engine electric starting motor**

02b

**Starting the diesel engine,
Diesel engine speed adjustment**

- for electronic engine control (Daimler-Chrysler)

03b

Diesel engine cut-off system

- for electronic engine control (Daimler-Chrysler)

05a

Fieldwork computer

07b

Threshing mechanism circuit

- from serial no. 932 02029
934 00535

12a

**Deflector adjustment,
performance monitor**

15a

Grain tank unloading

Description of function:

Front attachment circuit	<p>Engaging the front attachment drive requires two pre-conditions, i.e. relay K60 must be actuated by unlocking the road travel switch S52 and the threshing mechanism must be engaged by relay K63.</p> <p>After actuating pushbutton S55, earth is applied to the solenoid coil Y88. As solenoid coil Y88 is supplied with power by relay K77, the front attachment engages.</p> <p>At the same time, earth is connected from S55 via pushbutton S54 to relay K78. K78 therefore remains locked in, so that the front attachment remains engaged even after releasing pushbutton S55.</p> <p>The locking-in is stopped by actuating pushbutton S54 – the front attachment is disengaged.</p> <p>Important! The power supply of solenoid coil Y88 depends on the safety shutdown switch relay K77 (diagram 7).</p>
Reversing safety circuit	<p>When engaging the front attachment, relay K79 is also actuated in parallel and cuts the earth supply to the front attachment reverse pushbutton S57. Reversing therefore is possible only with the front attachment disengaged.</p>
Reversing circuit (hydraulic)	<p>When reversing, the front attachment reverse solenoid coil Y86 is actuated by switch S57 via relay K62.</p> <p>Important! The earth supply of pushbutton S57 depends on relay K79 – Reversing safety circuit.</p>

20a

**Front attachment raise/lower,
transverse control**

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Description of function:

Fold maize picker to working position

In the function "Fold maize picker to working position", the corresponding solenoid coil Y25 is actuated directly by the reel backward switch S22. The reel backward switch S22 must be actuated for another 6 seconds after the folding procedure in order to tension the system hydraulically.

Fold maize picker to transport position

In the function "Fold maize picker to transport position", the corresponding solenoid coil Y24 is actuated directly by the reel forward switch S21. Solenoid coil Y23 must be actuated in parallel with this function by the reel lower switch S20.

Snapping plate adjustment

In the function "Snapping plate adjustment", the corresponding solenoid coils Y24 / Y25 are actuated directly by the reel forward/backward switches S21 / S22.

Interconnection list:

from	to 1	to 2	to 3	to 4	to 5	mm ²	Colour
CCws - 1						0.5	gr/bl
CCws - 10						0.5	bl/gn
CCws - 2						0.5	bl/rd
CCws - 3						0.5	bk/gn
CCws - 4						0.5	ye/gr
CCws - 8						0.5	br/wh
CCws - 9						0.5	gr/rd
KNAge - 2	EARTH	PVA 21	PVB 6	MFA 1	MFA 2	0.75	br
	LSB 10	LSB 4	PVC 12	CAC 8	CAC 17		
	AP 8	AP 9	KBB 6	KBB 8	K60/85		
	KBA17	MOA 2	HKA 19	PHA 2	FSA 1		
	APA 8	K57/31	K61/85	K52/85	KNA 2		
	K79/30	K69/87a	K70/87a	K71/87a	K53/85		
	K66/85	K77/85	BFA 3	ASA 1	K72/87a		
	K75/85	KBA10	K54/85	ZGA 3	KBA5		
	KBA9	LSA 1	HDA 8	MOB 2	ZGA 4		
	FSA 5	K49/85	K50/85	K73/31	KBB 12		
	BFA 2						
KNBge - 2	PHA 7	HDA 12	PVC 9	K60/86	CAC 1	0.75	bl/gn
	CAC 14	K56/86					
KNBge - 3	PVC 4					0.5	bl/wh
KNBge - 4	PVC 5	CAC 19				0.5	bl/gr
KNBge - 5	CAC 23					0.5	bl/bk
KNBge - 6	CAC 22					0.75	wh/bk
KNBge - 7	CAC 22					0.75	bk/bl
KNBge - 8	PVC 18	CAC 20				0.75	bk/gn
KNBge - 9	PVC 15	CAC 16				0.75	br/wh
MFAgn - 4	K55/30	PVC 20	CAC 13			0.75	ye/bk
MFAgn - 6	K55/85	DI 8	CAC 15			0.75	ye/br
MFAgn - 12	CAC 2					0.75	rd/ye
PHAbI - 11	PVC 21					1.5	bk/ye
PVBge - 7	a9a					0.5	bk

26a

Machine monitoring

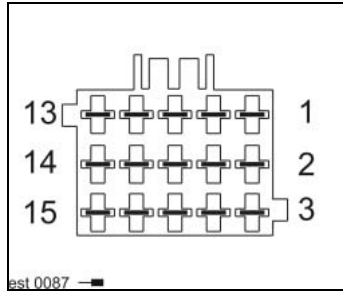
- up to serial no. 932 02028
934 00534

Interconnection list:

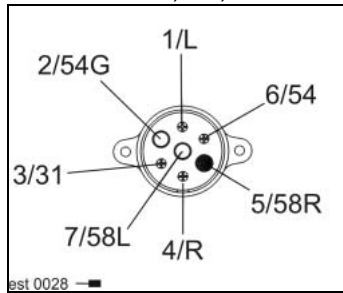
from	to 1	to 2	to 3	to 4	to 5	mm ²	Colour
LSBgr - 9	HKA 7					0.75	bl/gr
LSBgr -10	EARTH	PVA 21	PVB 6	MFA 1	MFA 2	1.5	br
	LSB 10	LSB 4	PVC 12	CAC 8	CAC 17		
	AP 8	AP 9	KBB 6	KBB 8	K60/85		
	KBA 17	MOA 2	HKA 19	PHA 2	FSA 1		
	APA 8	K57/31	K61/85	K52/85	KNA 2		
	K79/30	K69/87a	K70/87a	K71/87a	K53/85		
	K66/85	K77/85	BFA 3	ASA 1	K72/87a		
	K75/85	KBA 10	K54/85	ZGA 3	KBA 5		
	KBA 9	LSA 1	HDA 8	MOB 2	ZGA 4		
	FSA 5	K49/85	K50/85	K73/31	KBB 12		
	BFA 2						
LSBgr -12	HKA 11					0.75	bl/bk
PVBge - 7	a9a					0.5	bk
PVBge - 9	DI 2	HKA 9				0.75	wh/gn
PVBge -20	DZW 12					0.5	wh/gn
RT1 - 9						0.75	bl/gr
RT1 -10						1.5	br
RT1 -12						0.75	bl/bk
WS II - 4						0.75	br/wh
WS II - 5						1.5	bk
WS II - 8						0.75	bl/or

Connector pin assignment:

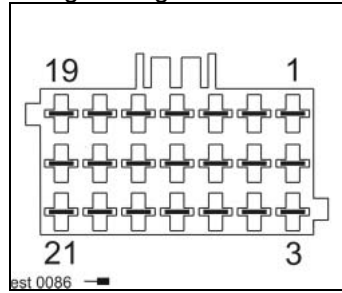
Connector APAbI LSAgr



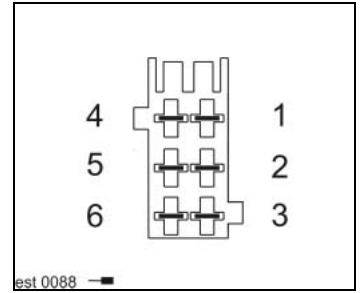
Connector B7, B8, XP



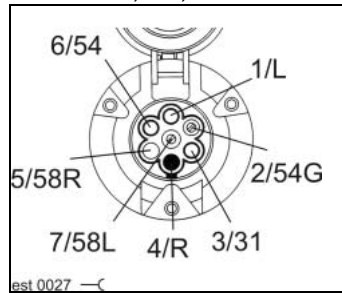
Connector HKBbl KNAge
PVAge PVBge



Connector FSAge



Socket B7, B8, XP



Description of function:

Grain tank 70% full indicator	<p>When pressing microswitch Z28, warning light H17 lights up permanently on the one hand, on the other hand the buzzer is activated in a pulsed way by relays K76 and K58. K76 now remains locked in which can only be stopped by actuating switch S63.</p> <p>The switch position II of function switch S40 (warning beacon) allows linking the warning beacons to the grain tank 70% full indicator.</p>
Grain tank 100% full indicator	<p>When pressing microswitch Z27, warning light H16 lights up permanently on the one hand, on the other hand the buzzer is activated in a pulsed way by relays K76 and K58. K76 now remains locked in which can only be stopped by actuating switch S63.</p>
Warning beacons circuit	<p>The switch position I of function switch S40 (warning beacon) allows activating the warning beacons permanently.</p> <p>The switch position II allows linking the warning beacons to the grain tank 70% full indicator.</p>

Description of function: None

Description of function: None

35a

**Grain tank,
sieve pan and returns lighting,
reversing horn, brake light**

37a

Windscreen wiper

Description of function:

Automatic air conditioner

Together with the cab fan speed controller module (A7), the automatic air conditioner module (A6) provides the complete temperature control inside the cab.

This involves both actuating the compressor-type air conditioner clutch solenoid coil (Y32) for the cooling compressor via relay K68 and switching the heater circuit on and off if required via the heater solenoid coil (Y109) until the set values are identical with the actual values of the corresponding sensors.

The two closed gas-pressure switches Z22/Z23 must supply relay K68 with earth in order to allow the function of the compressor-type air conditioner electro-magnetic clutch solenoid coil (Y32).

If the earth signal fails due to one of the two gas-pressure switches (Z22/Z23), the compressor-type air conditioner electro-magnetic clutch solenoid coil (Y32) disengages and this fault is displayed by the compressor-type air conditioner fault signal light H12.

The anti-icing device switch Z74 prevents icing on the evaporator.

50a

Electric mirror adjustment

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