

GROUP 80

ELECTRICITY

DIAGRAM FOR FUSES AND RELAY PLATE

80-6-10-M15 EN

CONTENTS

– DIAGRAM FOR FUSE AND RELAY PLATE 4

DIAGRAM FOR FUSE AND RELAY PLATE

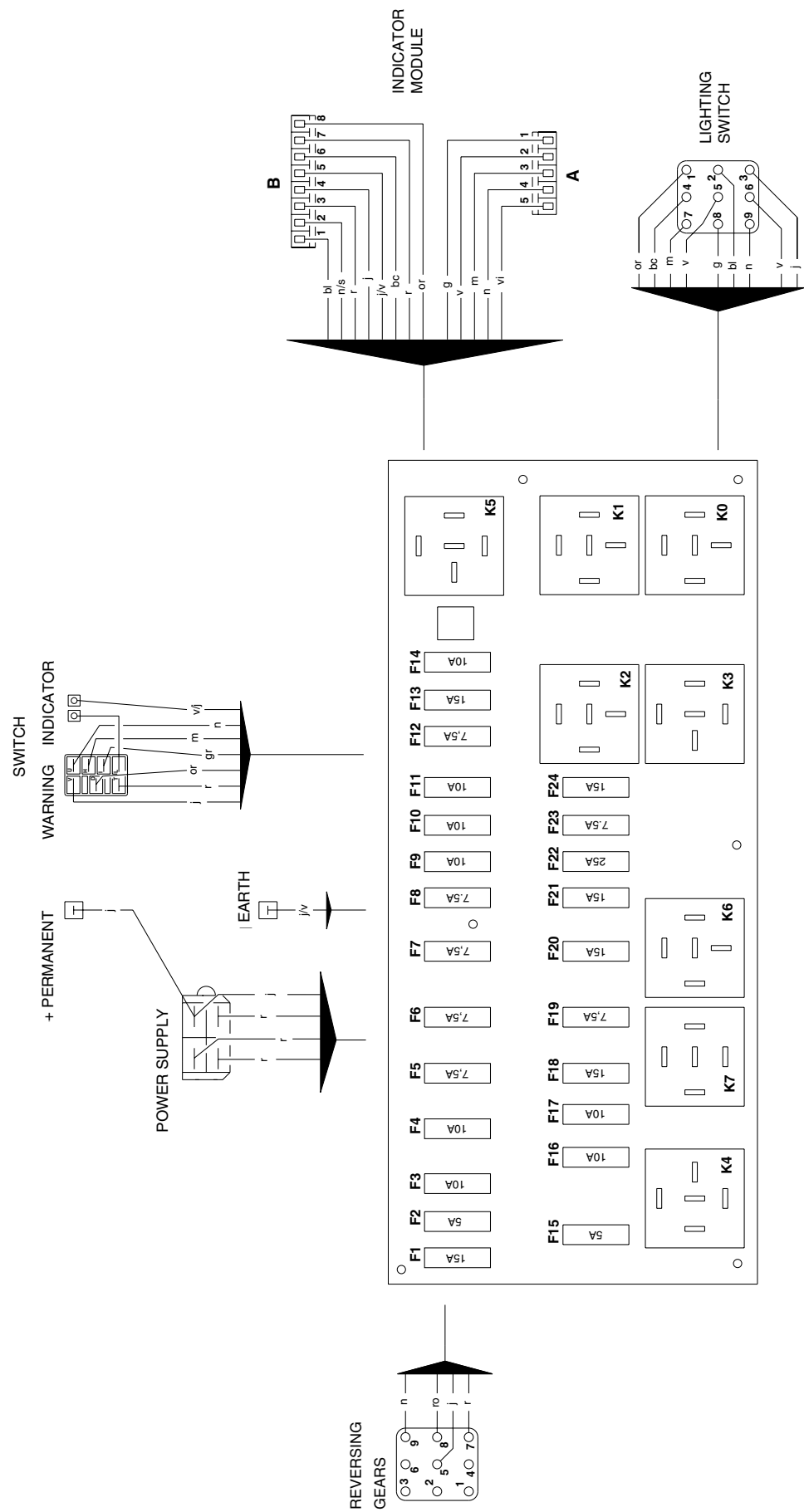


DIAGRAM FOR FUSE AND RELAY PLATE

FUSES (According to lift truck model)

- F1 - OPTION Fuel preheater.
Hydraulic control distributor lever. (MONO-ULTRA)
- F2 - Alignment of the wheels.
OPTION Trailer braking pre-arrangement switch.
- F3 - Sound alarm.
Stop switch.
- F4 - OPTION Working headlight on the head of the jib.
OPTION Electric pre-arrangement on the head of the jib.
OPTION Electrovalve on the head of the jib.
- F5 - Left indicators.
- F6 - Right sidelights.
Fuel gauge lighting.
Hourmeter lighting.
- F7 - Left sidelights.
- F8 - Flashing light.
- F9 - OPTION Working tail light.
- F10 - OPTION Working head light.
- F11 - OPTION Air conditioning.
OPTION Insulation of the compensation cylinders.
- F12 - OPTION.
Security stabilizers.
Security tilting corrector.
- F13 - Gear reverser.
Reverse lights.
Transmission cut-off.
OPTION Reverse gear horn.
- F14 - Load status indicator.
OPTION Hydraulic movements cut-off.
Hydraulic control distributor lever. (MONO-ULTRA)
- F15 - Signal lamp panel.
Fuel gauge.
Hourmeter.
- F16 - Flashing light unit.
- F17 - Front windscreen wiper and windscreen washer.
- F18 - Main beam.
Main beam lamp.
- F19 - Right indicators.
- F20 - Dipped headlights.
- F21 - Warning lights.
Roof light.
- F22 - Light switch, horn and indicator switch.
- F23 - Rear windscreen wiper.
OPTION Roof windscreen wiper.
- F24 - Heating.

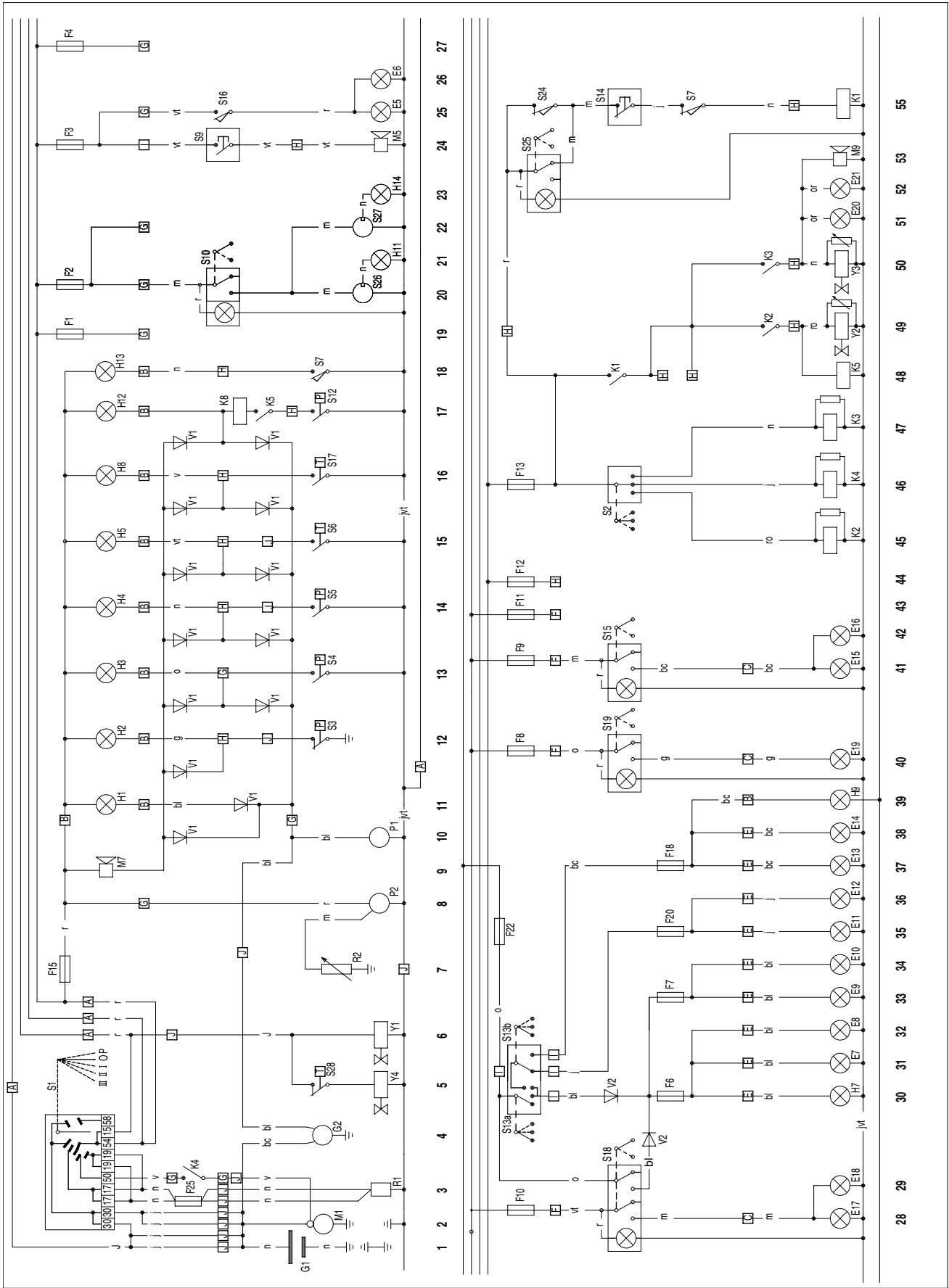
- K0 - Not used.
- K1 - Transmission cut-off relay.
- K2 - Forward running relay.
- K3 - Backward running relay.
- K4 - Starter safety relay.
- K5 - Forward running pressure relay.
- K6 - Flashing light/warning unit.
- K7 - Load safety module.

ELECTRIC DIAGRAM

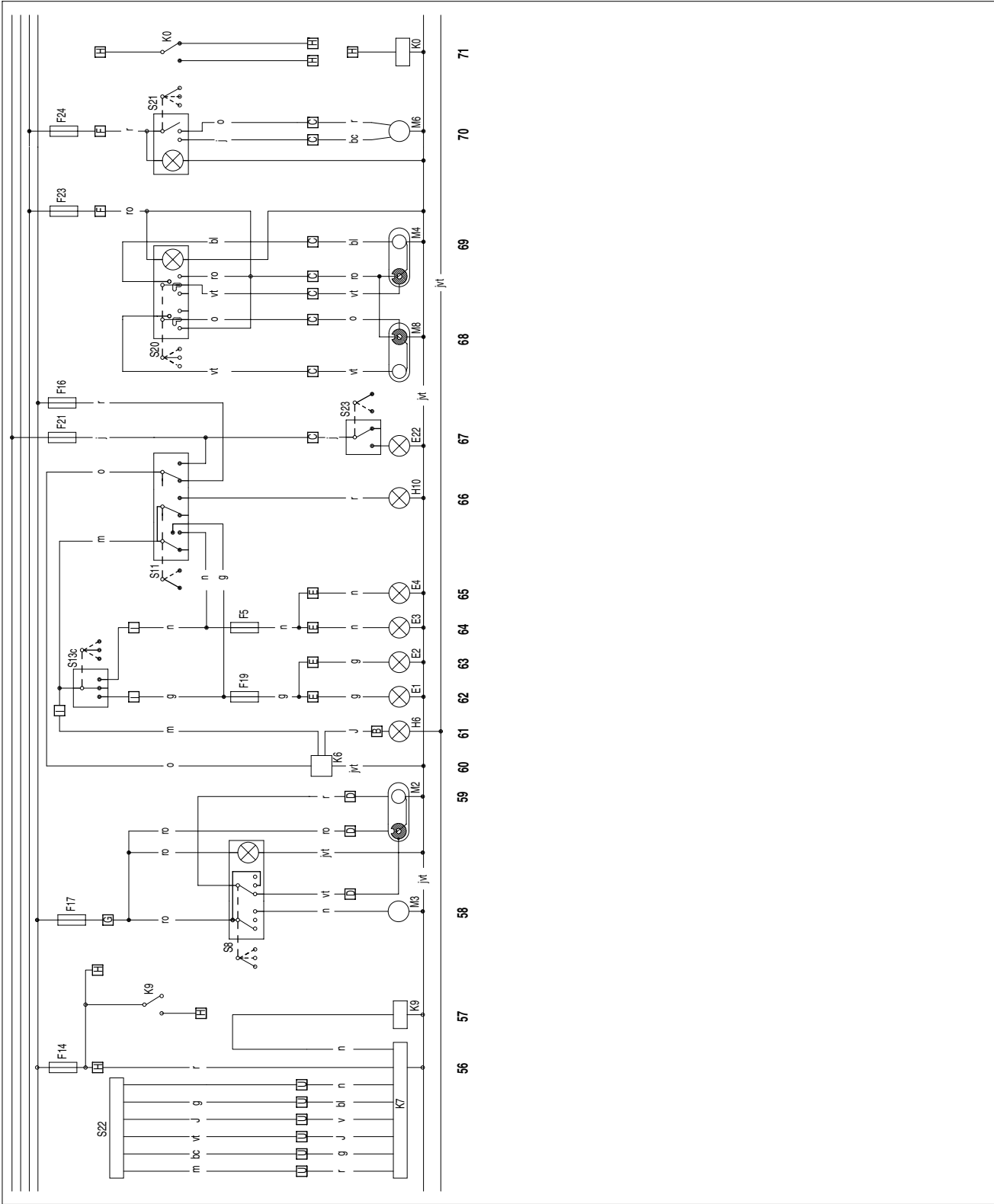
80-6-M40 EN

CONTENTS

– ML 632/635 + T.	ELECTRIC DIAGRAM.....	4 - 7
– MT 835 120 - LS.	ELECTRIC DIAGRAM.....	8 - 11
– MT 845 + T.	ELECTRIC DIAGRAM.....	12 - 15
– MT 845 T. MU	ELECTRIC DIAGRAM.....	16 - 19
– MT 940 L + T.	ELECTRIC DIAGRAM.....	20 - 23
– MT 940 L T. MU	ELECTRIC DIAGRAM.....	24 - 27
– MT 1233 S / 1240 L+ T.	ELECTRIC DIAGRAM.....	28 - 31
– MT 1233 S T. MU	ELECTRIC DIAGRAM.....	32 - 35
– MT 1240 L T. MU	ELECTRIC DIAGRAM.....	36 - 39
– MT 1330/1337 SL + T.	ELECTRIC DIAGRAM.....	40 - 43
– MT 1337 SL T. MU	ELECTRIC DIAGRAM.....	44 - 47
– MT 1637 SL + T.	ELECTRIC DIAGRAM.....	48 - 51
– MT 1637 SL T. MU	ELECTRIC DIAGRAM.....	52 - 55
– MT 1337/1637 SLT.MU ORH	ELECTRIC DIAGRAM.....	56 - 59
	ELECTRIC CONTROL BOX	60 - 65



ELECTRIC DIAGRAM ML 632 + T.ML 635 + T.



LEGEND

ML 632 + T.

ML 635 + T.

PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 44 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 - Not used
- 55 - Transmission cut-off
- 56 - Safety system
- 57 - Hydraulics movements cut-off (Option)
- 58 - Front windscreen washer
- 59 - Front windscreen wiper
- 60 - Flashing light/warning unit
- 61 - Flashing light/warning unit indicator light
- 62 - R.H. rear indicator
- 63 - R.H. front indicator
- 64 - L.H. rear indicator
- 65 - L.H. front indicator
- 66 - Warning switch/indicator light
- 67 - Roof light
- 68 - Rear windscreen wiper
- 69 - Roof windscreen wiper
- 70 - Ventilation
- 71 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Not used (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (10A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND**ML 632 + T.****ML 635 + T.**

G1 - Battery 12V 105Ah
G2 - Alternator 55A

H1 - Load indicator light
H2 - Engine oil pressure indicator light
H3 - Brake fluid
H4 - Air filter clogging indicator light
H5 - Engine water temperature indicator light
H6 - Flashing lights
H7 - Hourmeter module lighting / gauge
H8 - Transmission oil temperature
H9 - Main beam indicator light
H10 - Warning unit indicator light
H11 - Front wheel alignment indicator light
H12 - Transmission oil pressure
H13 - Brake indicator light
H14 - Rear wheels alignment indicator light

K0 - Not used
K1 - Transmission cut-off relay
K2 - Forward relay
K3 - Reverse relay
K4 - Starter safety relay
K5 - Forward movement pressure relay
K6 - Blinking centre / warning
K8 - Temporisation 3,5 s $\pm$ 0,5
K9 - Movements cut-off (Option)

M1 - Starter
M2 - Front windscreen wiper
M3 - Windscreen washer
M4 - Roof windscreen wiper
M5 - Sound alarm
M6 - Ventilator
M7 - Machine fault warning
M8 - Rear windscreen wiper
M9 - Reverse gear sound alarm

P1 - Hourmeter
P2 - Fuel level

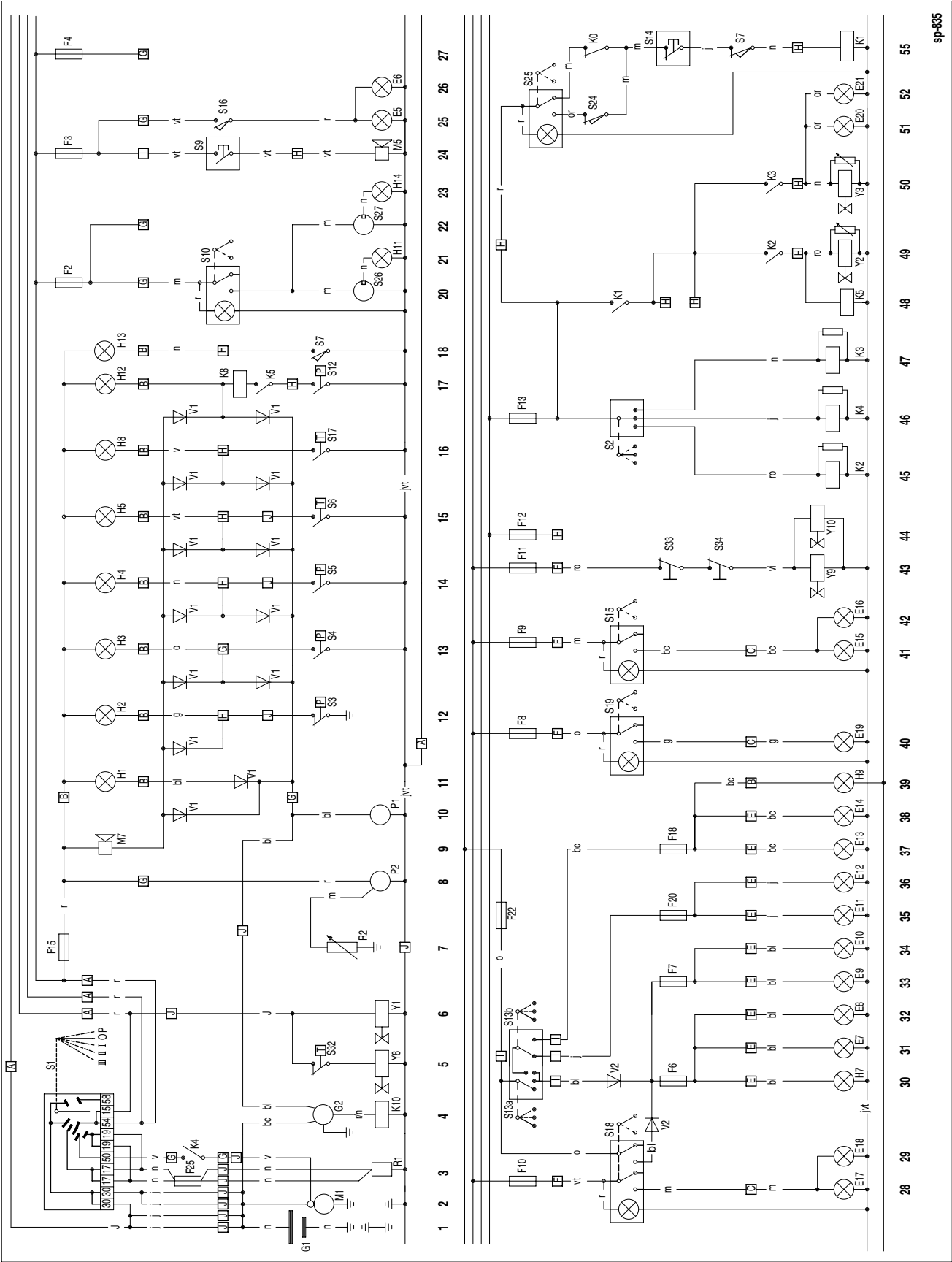
R1 - Preheating resistor
R2 - Fuel sensor

S1 - Key switch
S2 - Forward/reverse selector
S3 - Engine oil pressure switch
S4 - Brake fluid
S5 - Air filter clogging
S6 - Engine water temperature
S7 - Brake switch
S8 - Windscreen wiper / front windscreen washer switch
S9 - Sound alarm control
S10 - Wheel alignment switch
S11 - Warning light switch
S12 - Transmission oil pressure
S13a - Lighting switch (Pilot light)
S13b - Light switch (Low beam headlight / headlight)
S13c - Light switch (Blinker)
S14 - Transmission cut-off switch
S15 - Rear work light switch
S16 - Stop switch
S17 - Transmission oil temperature
S18 - Front work headlight switch
S19 - Revolving light switch
S20 - Rear windscreen wiper / roof switch
S21 - Ventilator switch
S22 - Overload strain gauge

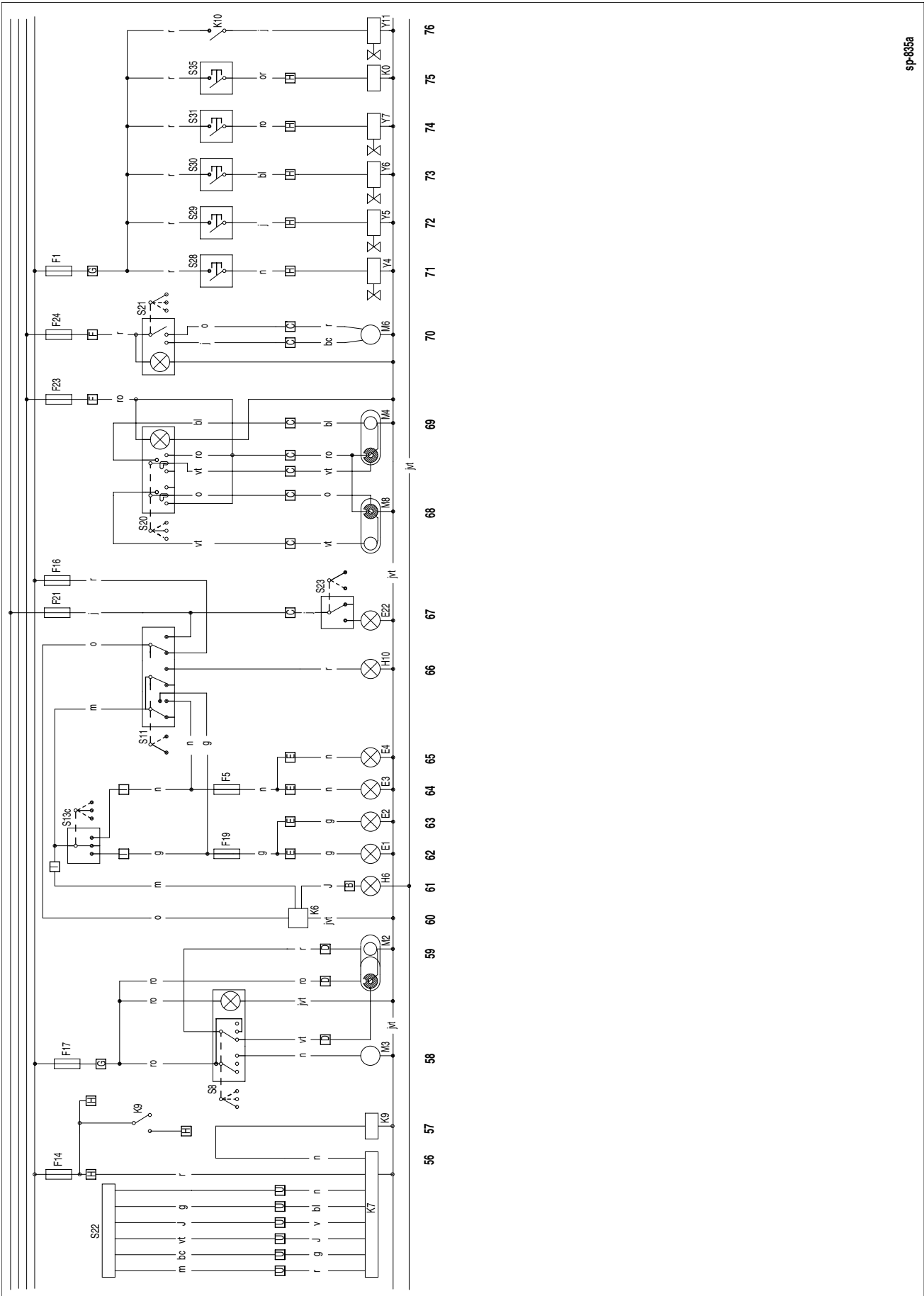
S23 - Roof light switch
S24 - Transmission cut-off switch to brake pedal
S25 - Pedal transmission cu-off neutraliser switch
S26 - Front wheels alignment switch
S27 - Rear wheels alignment switch
S28 - Cold start-up switch

V1 - Fault test diode
V2 - Diode (TUV version)

Y1 - Engine stop electrovalve
Y2 - Forward electrovalve
Y3 - Reverse electrovalve
Y4 - Cold start-up electrovalve



sp-835



PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Insulation of the compensation cylinders
- 44 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 55 - Transmission cut-off
- 56 - Safety system
- 57 - Hydraulics movements cut-off (Option)
- 58 - Front windscreen washer
- 59 - Front windscreen wiper
- 60 - Flashing light/warning unit
- 61 - Flashing light/warning unit indicator light
- 62 - R.H. rear indicator
- 63 - R.H. front indicator
- 64 - L.H. rear indicator
- 65 - L.H. front indicator
- 66 - Warning switch/indicator light
- 67 - Roof light
- 68 - Rear windscreen wiper
- 69 - Roof windscreen wiper
- 70 - Ventilation
- 71 - Accessory control
- 72 - Accessory control
- 73 - Telescope control
- 74 - Telescope control
- 75 - Joystick transmission cut-off
- 76 - Hydraulic flow control electrovalve

COLOUR CODING

- | | | |
|------------|--------------------|------------|
| bc : White | bl : Blue | g : Grey |
| j : Yellow | jvt : Yellow/Green | m : Brown |
| n : Black | o : Orange | r : Red |
| ro : Pink | vt : Green | v : Violet |

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Insulation of the compensation cylinders (7,5A)
- F12 - Not used (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam(15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam(15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

MT 835 120 - LS

G1	- Battery 12V 105Ah	S22	- Overload strain gauge
G2	- Alternator 55A	S23	- Roof light switch
		S24	- Transmission cut-off switch to brake pedal
		S25	- Pedal transmission cut-off neutraliser switch
H1	- Load indicator light	S26	- Front wheels alignment switch
H2	- Engine oil pressure indicator light	S27	- Rear wheels alignment switch
H3	- Brake fluid	S28	- Accessories control switch
H4	- Air filter clogging indicator light	S29	- Accessories control switch
H5	- Engine water temperature indicator light	S30	- Retracted telescope control switch
H6	- Flashing lights	S31	- Extended telescope control switch
H7	- Hourmeter module lighting / gauge	S32	- Cold start-up engine water temperature
H8	- Transmission oil temperature	S33	- Lowering pressure switch
H9	- Main beam indicator light	S34	- Lifting pressure switch
H10	- Warning unit indicator light	S35	- Joystick transmission cut-off switch
H11	- Front wheel alignment indicator light		
H12	- Transmission oil pressure	V1	- Fault test diode
H13	- Brake indicator light	V2	- Diode (TUV version)
H14	- Rear wheels alignment indicator light		
		Y1	- Engine stop electrovalve
K0	- Joystick transmission cut-off relay	Y2	- Forward electrovalve
K1	- Transmission cut-off relay	Y3	- Reverse electrovalve
K2	- Forward relay	Y4	- Attachment control electrovalve
K3	- Reverse relay	Y5	- Attachment control electrovalve
K4	- Starter safety relay	Y6	- Retracted telescope electrovalve
K5	- Forward movement pressure relay	Y7	- Extended telescope electrovalve
K6	- Blinking centre / warning	Y8	- Cold start-up electrovalve / Injection pump
K7	- Load safety module	Y9	- Insulation of the compensation cylinder foot electrovalve
K8	- Temporisation 3,5 s $\pm$ 0,5	Y10	- Insulation of the compensation cylinder head electrovalve
K9	- Movements cut-off (Option)	Y11	- Hydraulic flow control electrovalve
K10	- Control module of valve bank flow		
M1	- Starter		
M2	- Front windscreen wiper		
M3	- Windscreen washer		
M4	- Roof windscreen wiper		
M5	- Sound alarm		
M6	- Ventilator		
M7	- Machine fault warning		
M8	- Rear windscreen wiper		
P1	- Hourmeter		
P2	- Fuel level		
R1	- Preheating resistor		
R2	- Fuel sensor		
S1	- Key switch		
S2	- Forward/reverse selector		
S3	- Engine oil pressure switch		
S4	- Brake fluid		
S5	- Air filter clogging		
S6	- Engine water temperature		
S7	- Brake switch		
S8	- Windscreen wiper / front windscreen washer switch		
S9	- Sound alarm control		
S10	- Wheel alignment switch		
S11	- Warning light switch		
S12	- Transmission oil pressure		
S13a	- Lighting switch (Pilot light)		
S13b	- Light switch (Low beam headlight / headlight)		
S13c	- Light switch (Blinker)		
S14	- Transmission cut-off switch		
S15	- Rear work light switch		
S16	- Stop switch		
S17	- Transmission oil temperature		
S18	- Front work headlight switch		
S19	- Revolving light switch		
S20	- Rear windscreen wiper / roof switch		
S21	- Ventilator switch		





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - R.H. working tail light
- 41 - L.H. working tail light
- 42 - Revolving light
- 43 - Insulation of the compensation cylinders
- 44 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 56 - Safety system
- 57 - Hydraulics movements cut-off (Option)
- 58 - Front windscreen washer
- 59 - Front windscreen wiper
- 60 - Flashing light/warning unit
- 61 - Flashing light/warning unit indicator light
- 62 - R.H. rear indicator
- 63 - R.H. front indicator
- 64 - L.H. rear indicator
- 65 - L.H. front indicator
- 66 - Warning switch/indicator light
- 67 - Roof light
- 68 - Rear windscreen wiper
- 69 - Roof windscreen wiper
- 70 - Ventilation
- 71 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

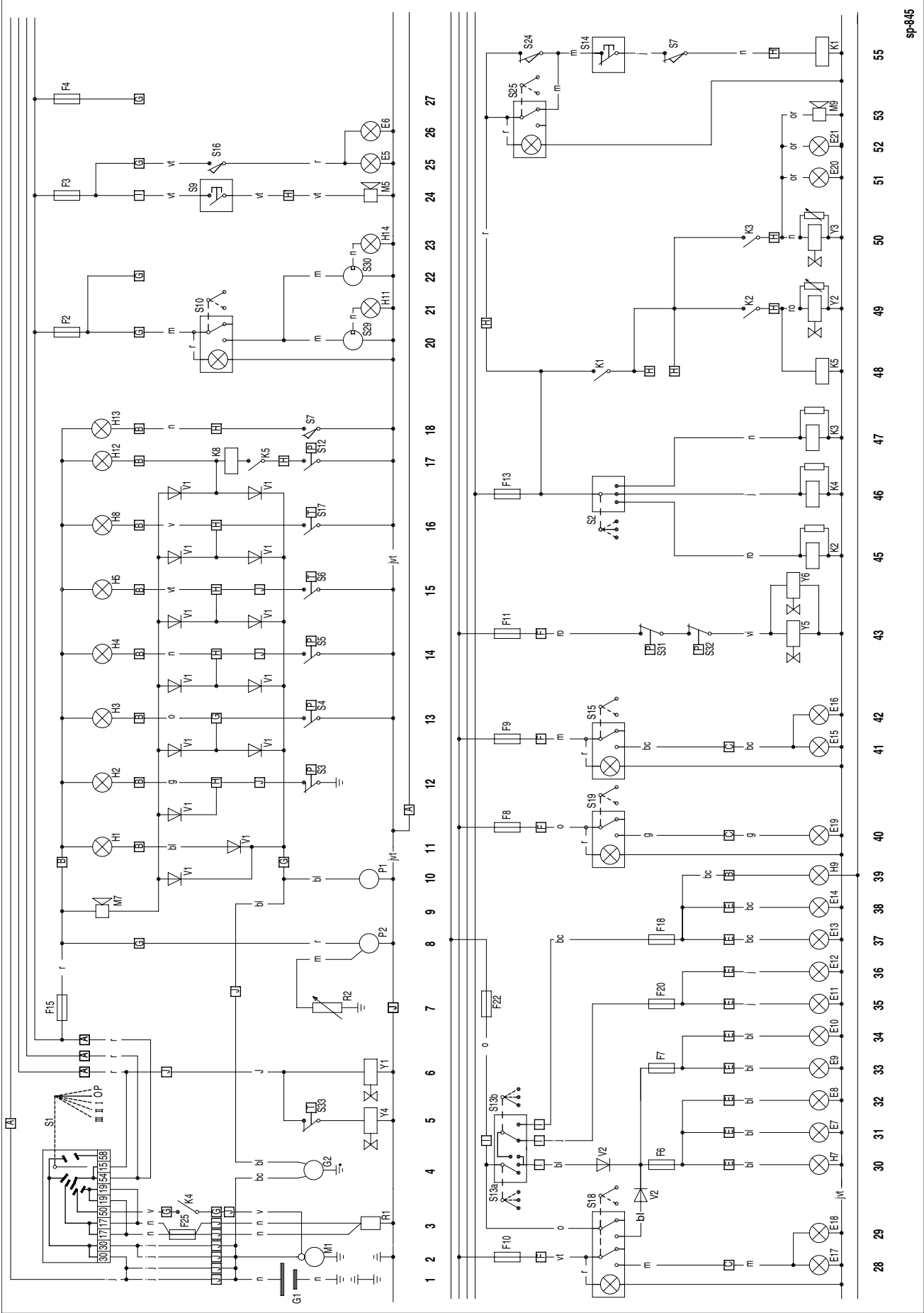
- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

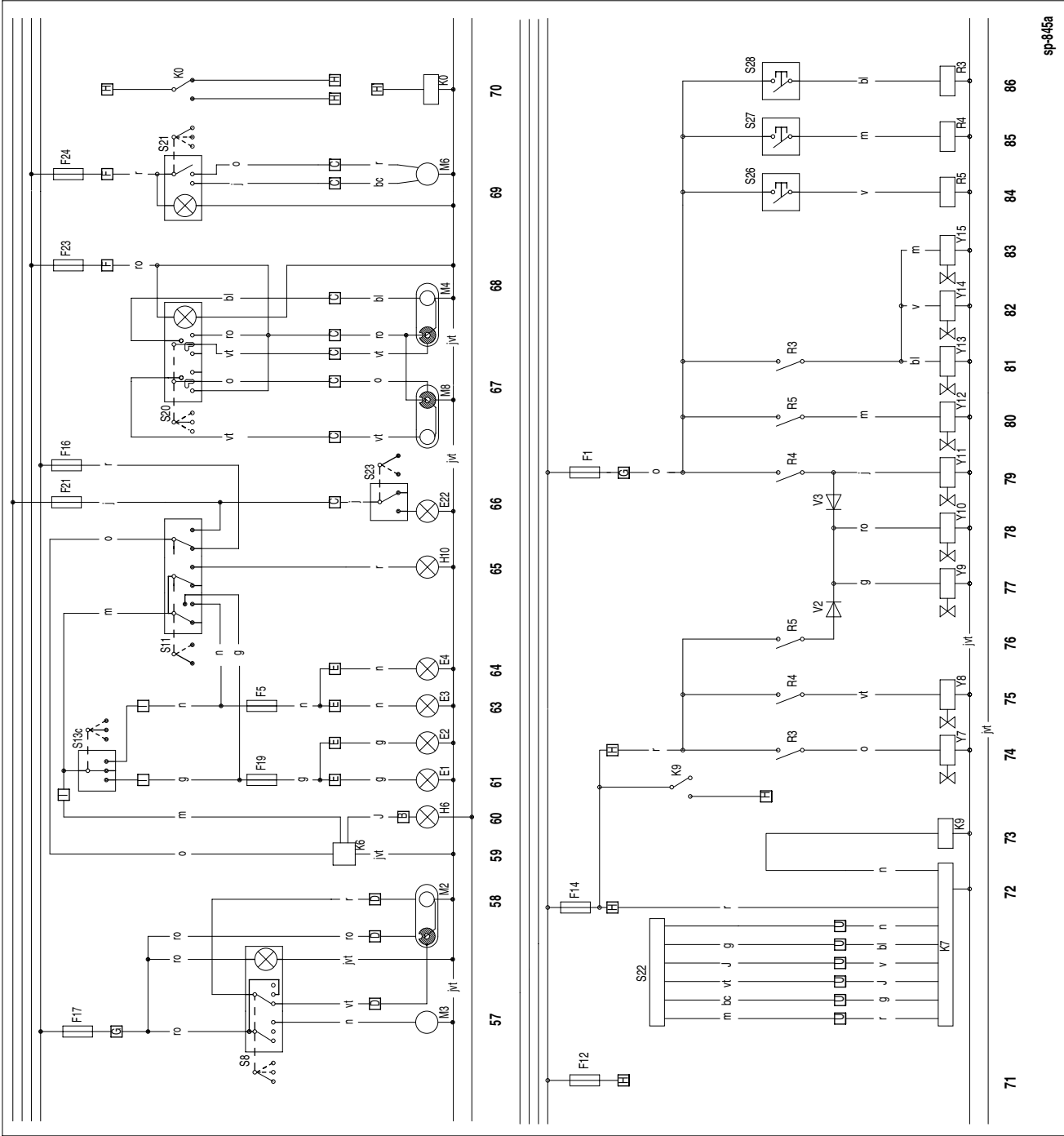
- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Insulation of the compensation cylinders (7,5A)
- F12 - Not used (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

MT 845 + T.

- 15



sp-845



PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Insulation of the compensation cylinders
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - Not used
- 72 - Safety system
- 73 - Hydraulics movements cut-off (Option)
- 74 - Lifting electrovalve
- 75 - Extended telescope electrovalve 1/2
- 76 - Jib head EV safety

- 77 - Attachment electrovalve
- 78 - Attachment electrovalve
- 79 - Retracted telescope electrovalve 1/2
- 80 - Jib head electrovalve
- 81 - Lifting electrovalve
- 82 - Tilting electrovalve
- 83 - Tilting electrovalve
- 84 - Attachment + Jib head electrovalve
- 85 - Telescope 1/2 + attachment
- 86 - Lifting / Lowering

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

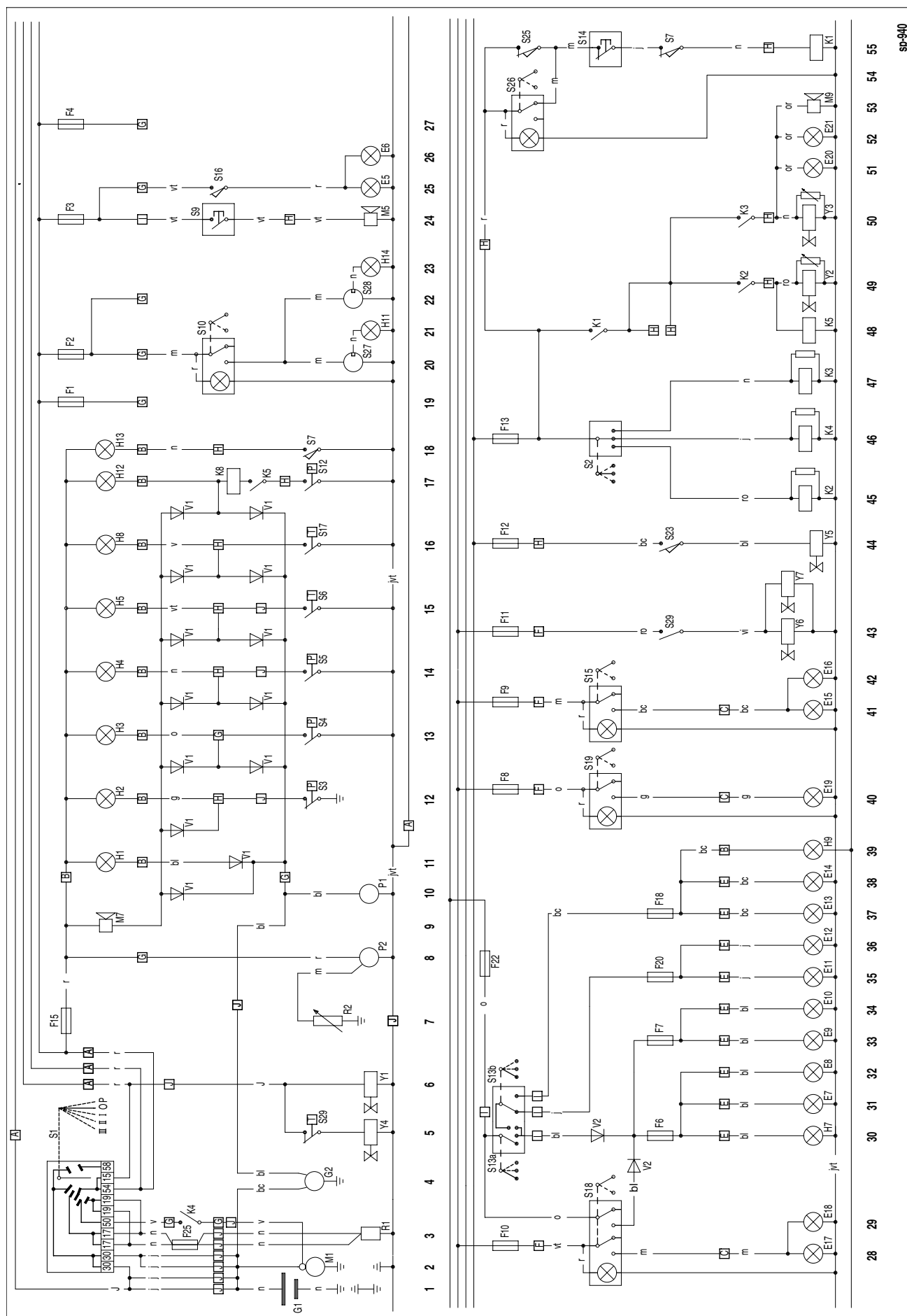
FUSES

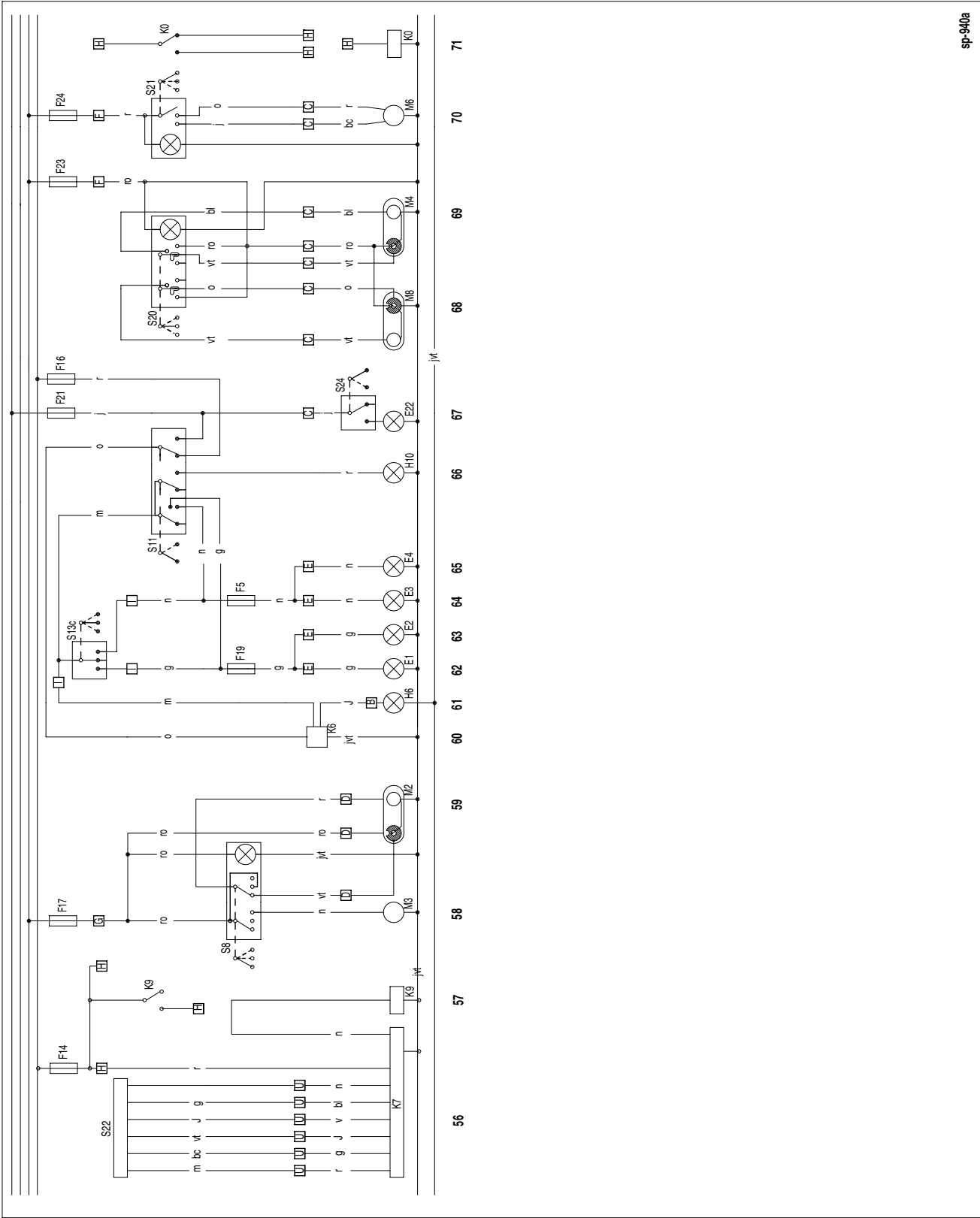
- F1 - Electrovalve without cut-off of movements (15A)
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Insulation of the compensation cylinders (7,5A)
- F12 - Movements cut-off (7,5A)
- F13 - Transmission AV/AR/N (15A)

LEGEND

MT 845 T. MU

F14 - Electrovalve with cut-off of movements (10A)	S8 - Windscreen wiper / front windscreen washer switch
F15 - Indicator light / fault warning (5A)	S9 - Sound alarm control
F16 - Indicator (10A)	S10 - Wheel alignment switch
F17 - Front windscreen wiper and windscreen washer (10A)	S11 - Warning light switch
F18 - Front main beam (15A)	S12 - Transmission oil pressure
F19 - R.H. indicators (7,5A)	S13a - Lighting switch (Pilot light)
F20 - Front low beam (15A)	S13b - Light switch (Low beam headlight / headlight)
F21 - Warning unit + roof light (15A)	S13c - Light switch (Blinker)
F22 - Light switch (25A)	S14 - Transmission cut-off switch
F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)	S15 - Rear work light switch
F24 - Ventilation (15A)	S16 - Stop switch
F25 - Engine preheating (20A)	S17 - Transmission oil temperature
	S18 - Front work headlight switch
G1 - Battery 12V 105Ah	S19 - Revolving light switch
G2 - Alternator 55A	S20 - Rear windscreen wiper / roof switch
	S21 - Ventilator switch
H1 - Load indicator light	S22 - Overload strain gauge
H2 - Engine oil pressure indicator light	S23 - Roof light switch
H3 - Brake fluid	S24 - Transmission cut-off switch to brake pedal
H4 - Air filter clogging indicator light	S25 - Pedal transmission cut-off neutraliser switch
H5 - Engine water temperature indicator light	S26 - Accessories control switch + Jib head electrovalve
H6 - Flashing lights	S27 - Attachment + telescope 1/2 switch
H7 - Hourmeter module lighting / gauge	S28 - Tilting/Lifting + Lowering switch
H8 - Transmission oil temperature	S29 - Front wheels alignment switch
H9 - Main beam indicator light	S30 - Rear wheels alignment switch
H10 - Warning unit indicator light	S31 - mano-contact descente
H11 - Front wheel alignment indicator light	S32 - mano-contact levée
H12 - Transmission oil pressure	S33 - Cold start-up switch
H13 - Brake indicator light	
H14 - Rear wheels alignment indicator light	V1 - Fault test diode
	V2 - Diode
K0 - Not used	V3 - Diode
K1 - Transmission cut-off relay	V4 - Diode (TUV version)
K2 - Forward relay	
K3 - Reverse relay	Y1 - Engine stop electrovalve
K4 - Starter safety relay	Y2 - Forward electrovalve
K5 - Forward movement pressure relay	Y3 - Reverse electrovalve
K6 - Blinking centre / warning	Y4 - Cold start-up electrovalve
K7 - Load safety module	Y5 - Insulation of the compensation cylinder foot electrovalve
K8 - Temporisatoin 3,5 s ± 0,5	Y6 - Insulation of the compensation cylinder head electrovalve
K9 - Movements cut-off (Option)	Y8 - Lifting electrovalve
	Y9 - Extended telescope electrovalve 1/2
M1 - Starter	Y10 - Attachment electrovalve
M2 - Front windscreen wiper	Y11 - Attachment electrovalve
M3 - Windscreen washer	Y12 - Retracted telescope electrovalve 1/2
M4 - Roof windscreen wiper	Y13 - Jib head electrovalve
M5 - Sound alarm	Y14 - Lifting electrovalve
M6 - Ventilator	Y15 - Tilting electrovalve
M7 - Machine fault warning	Y16 - Tilting electrovalve
M8 - Rear windscreen wiper	
M9 - Reverse gear sound alarm	
P1 - Hourmeter	
P2 - Fuel level	
R1 - Preheating resistor	
R2 - Fuel sensor	
R3 - Lifting lowering relay / black box / mono ultra	
R4 - Telescope 1/2 attachment relay / black box / mono ultra	
R5 - Attachment + Jib head EV / black box / mono ultra	
S1 - Key switch	
S2 - Forward/reverse selector	
S3 - Engine oil pressure switch	
S4 - Brake fluid	
S5 - Air filter clogging	
S6 - Engine water temperature	
S7 - Brake switch	





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Insulation of the compensation cylinders
- 44 - Movement safety
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 56 - Safety system
- 57 - Hydraulics movements cut-off (Option)
- 58 - Front windscreen washer
- 59 - Front windscreen wiper
- 60 - Flashing light/warning unit
- 61 - Flashing light/warning unit indicator light
- 62 - R.H. rear indicator
- 63 - R.H. front indicator
- 64 - L.H. rear indicator
- 65 - L.H. front indicator
- 66 - Warning switch/indicator light
- 67 - Roof light
- 68 - Rear windscreen wiper
- 69 - Roof windscreen wiper
- 70 - Ventilation
- 71 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

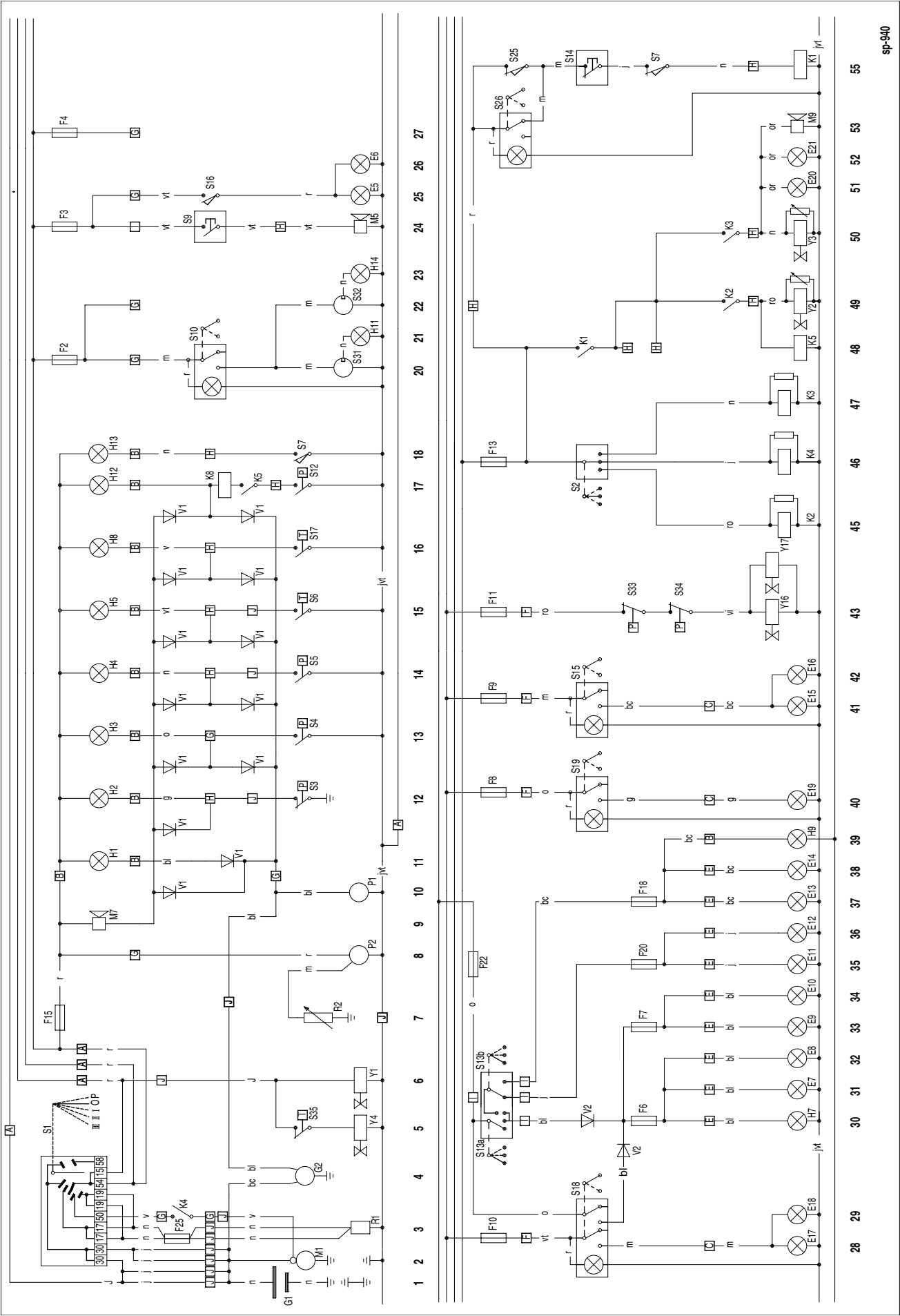
FUSES

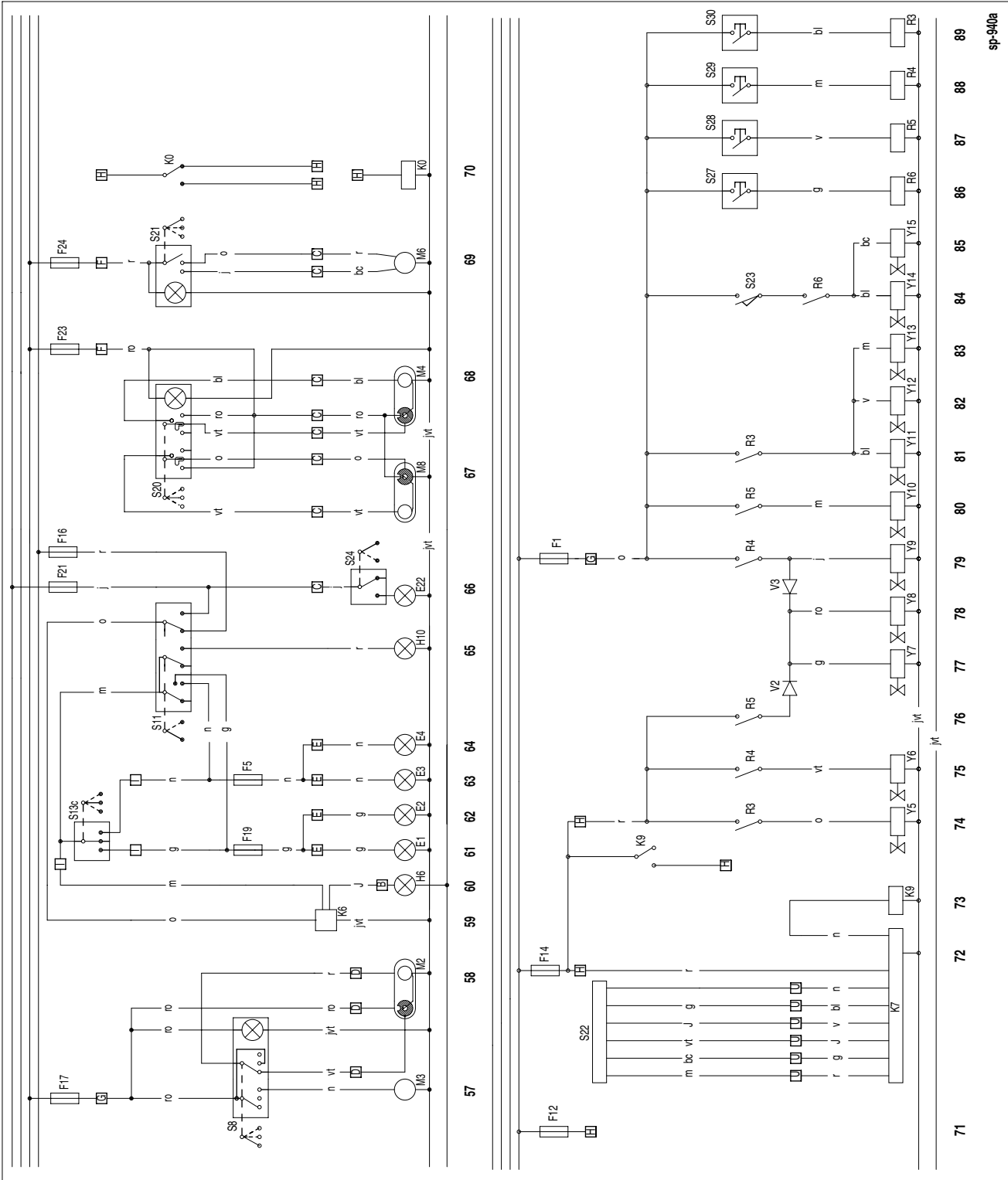
- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Insulation of the compensation cylinders (7,5A)
- F12 - Stabilizers / Levelling system safety (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

MT 940 + T.

G1	- Battery 12V 105Ah	S22	- Overload strain gauge
G2	- Alternator 55A	S23	- Movement safety switch
		S24	- Roof light switch
H1	- Load indicator light	S25	- Transmission cut-off switch to brake pedal
H2	- Engine oil pressure indicator light	S26	- Pedal transmission cu-off neutraliser switch
H3	- Brake fluid	S27	- Front wheels alignment switch
H4	- Air filter clogging indicator light	S28	- Rear wheels alignment switch
H5	- Engine water temperature indicator light	S29	- Cold start-up switch
H6	- Flashing lights	S30	- Lifting lever sensor
H7	- Hourmeter module lighting / gauge	V1	- Fault test diode
H8	- Transmission oil temperature	V2	- Diode (TUV version)
H9	- Main beam indicator light	Y1	- Engine stop electrovalve
H10	- Warning unit indicator light	Y2	- Forward electrovalve
H11	- Front wheel alignment indicator light	Y3	- Reverse electrovalve
H12	- Transmission oil pressure	Y4	- Cold start-up electrovalve
H13	- Brake indicator light	Y5	- Movement safety electrovalve
H14	- Rear wheels alignment indicator light	Y6	- Insulation of the compensation cylinder foot electrovalve
		Y7	- Insulation of the compensation cylinder head electrovalve
K0	- Not used		
K1	- Transmission cut-off relay		
K2	- Forward relay		
K3	- Reverse relay		
K4	- Starter safety relay		
K5	- Forward movement pressure relay		
K6	- Blinking centre / warning		
K7	- Load safety module		
K8	- Temporisation 3,5 s ± 0,5		
K9	- Movements cut-off (Option)		
M1	- Starter		
M2	- Front windscreen wiper		
M3	- Windscreen washer		
M4	- Roof windscreen wiper		
M5	- Sound alarm		
M6	- Ventilator		
M7	- Machine fault warning		
M8	- Rear windscreen wiper		
M9	- Reverse gear sound alarm		
P1	- Hourmeter		
P2	- Fuel level		
R1	- Preheating resistor		
R2	- Fuel sensor		
S1	- Key switch		
S2	- Forward/reverse selector		
S3	- Engine oil pressure switch		
S4	- Brake fluid		
S5	- Air filter clogging		
S6	- Engine water temperature		
S7	- Brake switch		
S8	- Windscreen wiper / front windscreen washer switch		
S9	- Sound alarm control		
S10	- Wheel alignment switch		
S11	- Warning light switch		
S12	- Transmission oil pressure		
S13a	- Lighting switch (Pilot light)		
S13b	- Light switch (Low beam headlight / headlight)		
S13c	- Light switch (Blinker)		
S14	- Transmission cut-off switch		
S15	- Rear work light switch		
S16	- Stop switch		
S17	- Transmission oil temperature		
S18	- Front work headlight switch		
S19	- Revolving light switch		
S20	- Rear windscreen wiper / roof switch		
S21	- Ventilator switch		





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Insulation of the compensation cylinders
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - Not used
- 72 - Safety system
- 73 - Hydraulics movements cut-off (Option)
- 74 - Lifting electrovalve
- 75 - Extended telescope electrovalve 1/2
- 76 - Jib head EV safety

- 77 - Attachment electrovalve
- 78 - Attachment electrovalve
- 79 - Retracted telescope electrovalve 1/2
- 80 - Jib head electrovalve
- 81 - Lifting electrovalve
- 82 - Tilting electrovalve
- 83 - Tilting electrovalve
- 84 - Levelling system electrovalve
- 85 - Levelling system electrovalve
- 86 - Levelling system
- 87 - Attachment + Jib head electrovalve
- 88 - Telescope 1/2 + attachment
- 89 - Lifting / Lowering

COLOUR CODING

- | | | |
|------------|--------------------|------------|
| bc : White | bl : Blue | g : Grey |
| j : Yellow | jvt : Yellow/Green | m : Brown |
| n : Black | o : Orange | r : Red |
| ro : Pink | vt : Green | v : Violet |

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

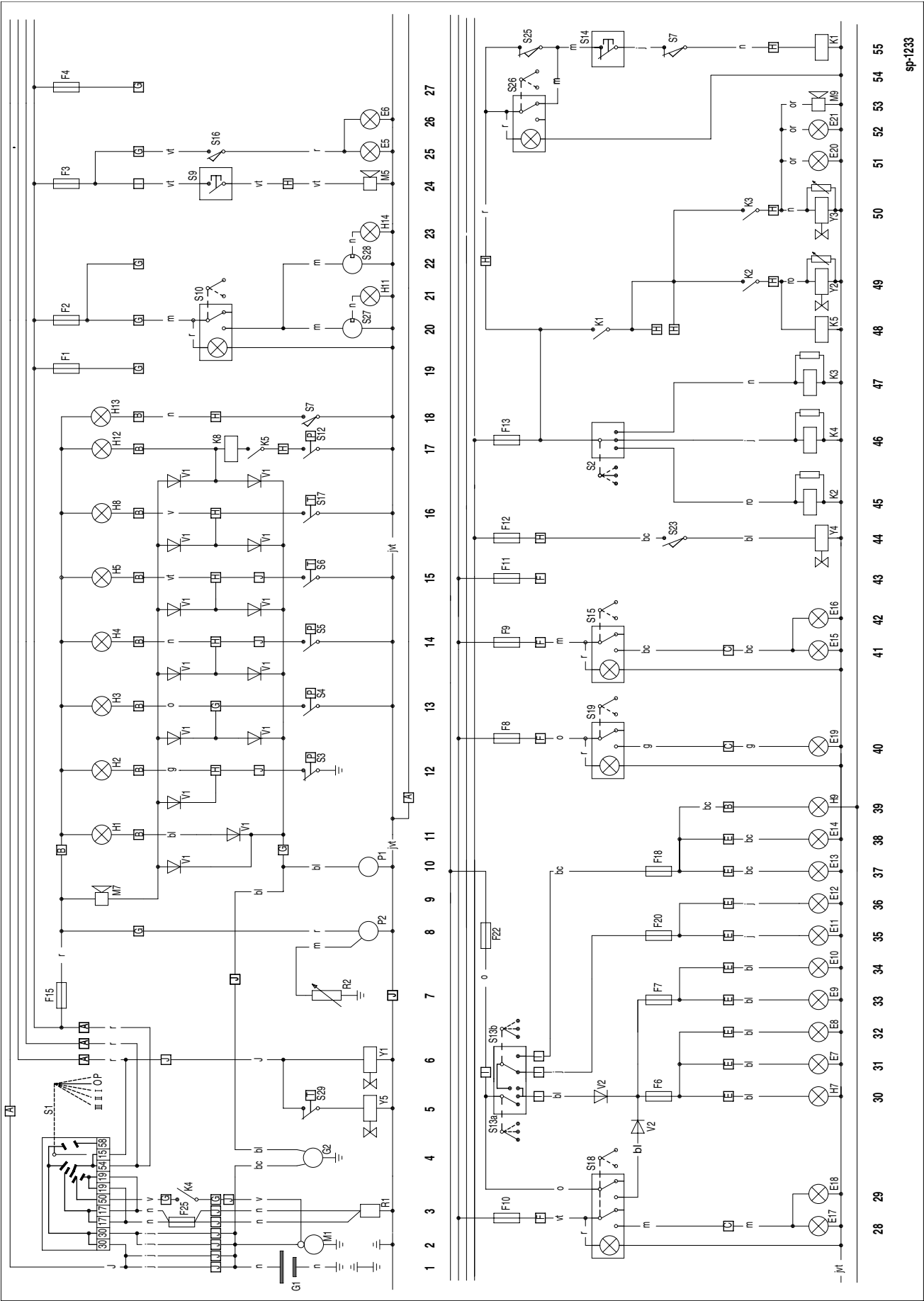
FUSES

- F1 - Not used (15A)
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)

LEGEND

MT 940 LT. MU

F11 - Insulation of the compensation cylinders (7,5A)	S4 - Brake fluid
F12 - Stabilizer (7,5A)	S5 - Air filter clogging
F13 - Transmission AV/AR/N (15A)	S6 - Engine water temperature
F14 - Overload safety (10A)	S7 - Brake switch
F15 - Indicator light / fault warning (5A)	S8 - Windscreen wiper / front windscreen washer switch
F16 - Indicator (10A)	S9 - Sound alarm control
F17 - Front windscreen wiper and windscreen washer (10A)	S10 - Wheel alignment switch
F18 - Front main beam (15A)	S11 - Warning light switch
F19 - R.H. indicators (7,5A)	S12 - Transmission oil pressure
F20 - Front low beam (15A)	S13a - Lighting switch (Pilot light)
F21 - Warning unit + roof light (15A)	S13b - Light switch (Low beam headlight / headlight)
F22 - Light switch (25A)	S13c - Light switch (Blinker)
F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)	S14 - Transmission cut-off switch
F24 - Ventilation (15A)	S15 - Rear work light switch
F25 - Engine preheating (20A)	S16 - Stop switch
	S17 - Transmission oil temperature
G1 - Battery 12V 105Ah	S18 - Front work headlight switch
G2 - Alternator 55A	S19 - Revolving light switch
	S20 - Rear windscreen wiper / roof switch
H1 - Load indicator light	S21 - Ventilator switch
H2 - Engine oil pressure indicator light	S22 - Overload strain gauge
H3 - Brake fluid	S23 - Jib position switch
H4 - Air filter clogging indicator light	S24 - Roof light switch
H5 - Engine water temperature indicator light	S25 - Transmission cut-off switch to brake pedal
H6 - Flashing lights	S26 - Pedal transmission cu-off neutraliser switch
H7 - Hourmeter module lighting / gauge	S27 - Levelling system control switch
H8 - Transmission oil temperature	S28 - Accessories control switch + Jib head electrovalve
H9 - Main beam indicator light	S29 - Attachment + telescope 1/2 switch
H10 - Warning unit indicator light	S30 - Tilting/Lifting + Lowering switch
H11 - Front wheel alignment indicator light	S31 - Front wheels alignment switch
H12 - Transmission oil pressure	S32 - Rear wheels alignment switch
H13 - Brake indicator light	S33 - Lowering pressure switch
H14 - Rear wheels alignment indicator light	S34 - Lifting pressure switch
	S35 - Cold start-up switch
K0 - Not used	V1 - Fault test diode
K1 - Transmission cut-off relay	V2 - Diode
K2 - Forward relay	V3 - Diode
K3 - Reverse relay	V4 - Diode (TUV version)
K4 - Starter safety relay	Y1 - Engine stop electrovalve
K5 - Forward movement pressure relay	Y2 - Forward electrovalve
K6 - Blinking centre / warning	Y3 - Reverse electrovalve
K7 - Load safety module	Y4 - Cold start-up electrovalve
K8 - Temporisation 3,5 s $\pm$ 0,5	Y5 - Lifting electrovalve
K9 - Movements cut-off (Option)	Y6 - Extended telescope electrovalve 1/2
M1 - Starter	Y7 - Attachment electrovalve
M2 - Front windscreen wiper	Y8 - Attachment electrovalve
M3 - Windscreen washer	Y9 - Retracted telescope electrovalve 1/2
M4 - Roof windscreen wiper	Y10 - Jib head electrovalve
M5 - Sound alarm	Y11 - Lifting electrovalve
M6 - Ventilator	Y12 - Tilting electrovalve
M7 - Machine fault warning	Y13 - Tilting electrovalve
M8 - Rear windscreen wiper	Y14 - Levelling system electrovalve
M9 - Reverse gear sound alarm	Y15 - Levelling system electrovalve
	Y16 - Insulation of the compensation cylinder foot electrovalve
P1 - Hourmeter	Y17 - Insulation of the compensation cylinder head electrovalve
P2 - Fuel level	
R1 - Preheating resistor	
R2 - Fuel sensor	
R3 - Lifting lowering relay / black box / mono ultra	
R4 - Telescope 1/2 attachment relay / black box / mono ultra	
R5 - Attachment + Jib head EV / black box / mono ultra	
R6 - Levelling system relay / black box / mono ultra	
S1 - Key switch	
S2 - Forward/reverse selector	
S3 - Engine oil pressure switch	



sp-1233



LEGEND

MT 1233 S + T.

MT 1240 L + T.

PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 44 - Movement safety
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 56 - Safety system
- 57 - Hydraulics movements cut-off (Option)
- 58 - Front windscreen washer
- 59 - Front windscreen wiper
- 60 - Flashing light/warning unit
- 61 - Flashing light/warning unit indicator light
- 62 - R.H. rear indicator
- 63 - R.H. front indicator
- 64 - L.H. rear indicator
- 65 - L.H. front indicator
- 66 - Warning switch/indicator light
- 67 - Roof light
- 68 - Rear windscreen wiper
- 69 - Roof windscreen wiper
- 70 - Ventilation
- 71 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Stabilizers / Levelling system safety (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

MT 1233 S + T.

MT 1240 L + T.

G1 - Battery 12V 105Ah
G2 - Alternator 55A

H1 - Load indicator light
H2 - Engine oil pressure indicator light
H3 - Brake fluid
H4 - Air filter clogging indicator light
H5 - Engine water temperature indicator light
H6 - Flashing lights
H7 - Hourmeter module lighting / gauge
H8 - Transmission oil temperature
H9 - Main beam indicator light
H10 - Warning unit indicator light
H11 - Front wheel alignment indicator light
H12 - Transmission oil pressure
H13 - Brake indicator light
H14 - Rear wheels alignment indicator light

K0 - Not used
K1 - Transmission cut-off relay
K2 - Forward relay
K3 - Reverse relay
K4 - Starter safety relay
K5 - Forward movement pressure relay
K6 - Blinking centre / warning
K7 - Load safety module
K8 - Temporisation 3,5 s $\pm$ 0,5
K9 - Movements cut-off (Option)

M1 - Starter
M2 - Front windscreen wiper
M3 - Windscreen washer
M4 - Roof windscreen wiper
M5 - Sound alarm
M6 - Ventilator
M7 - Machine fault warning
M8 - Rear windscreen wiper
M9 - Reverse gear sound alarm

P1 - Hourmeter
P2 - Fuel level

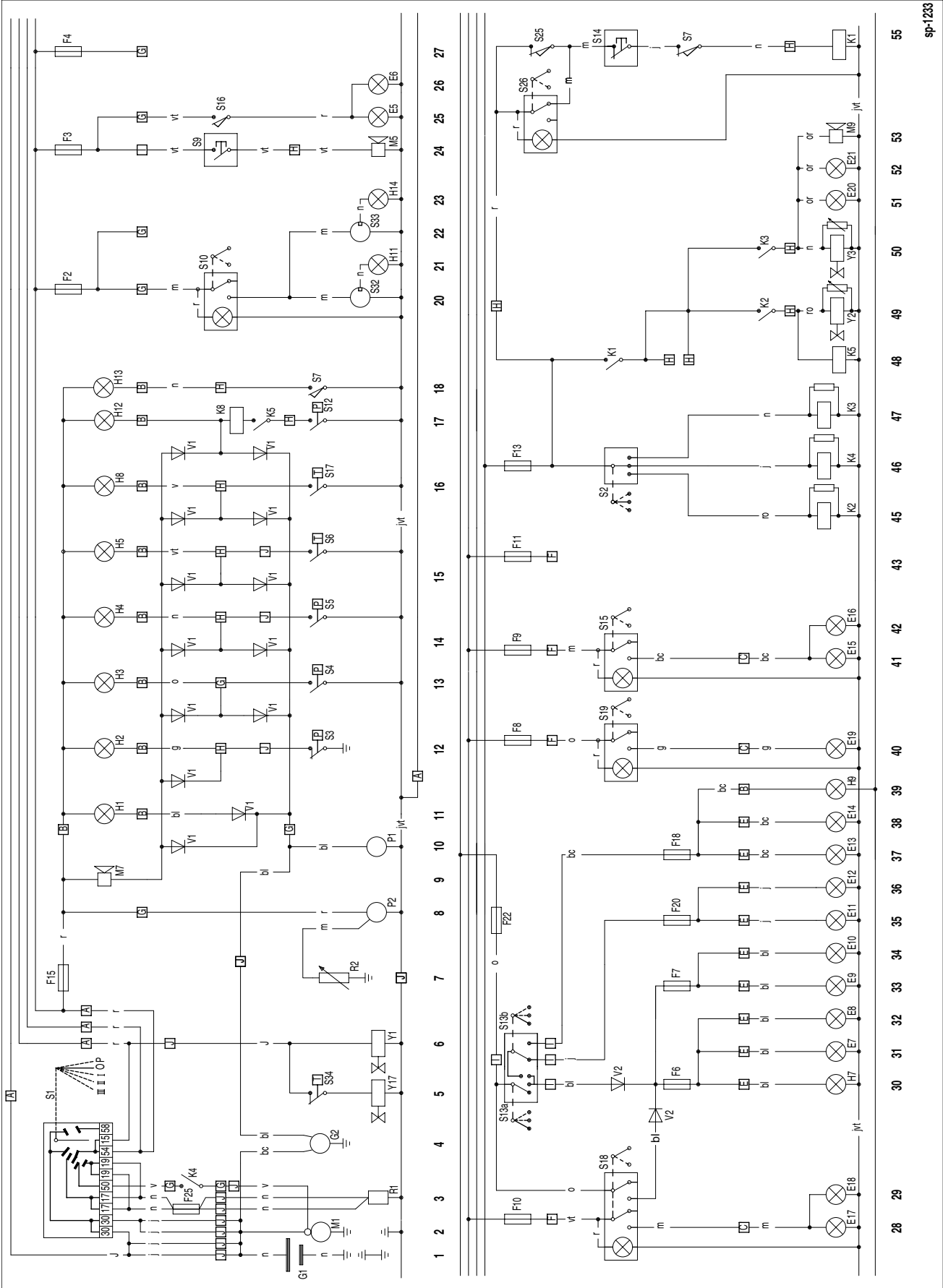
R1 - Preheating resistor
R2 - Fuel sensor

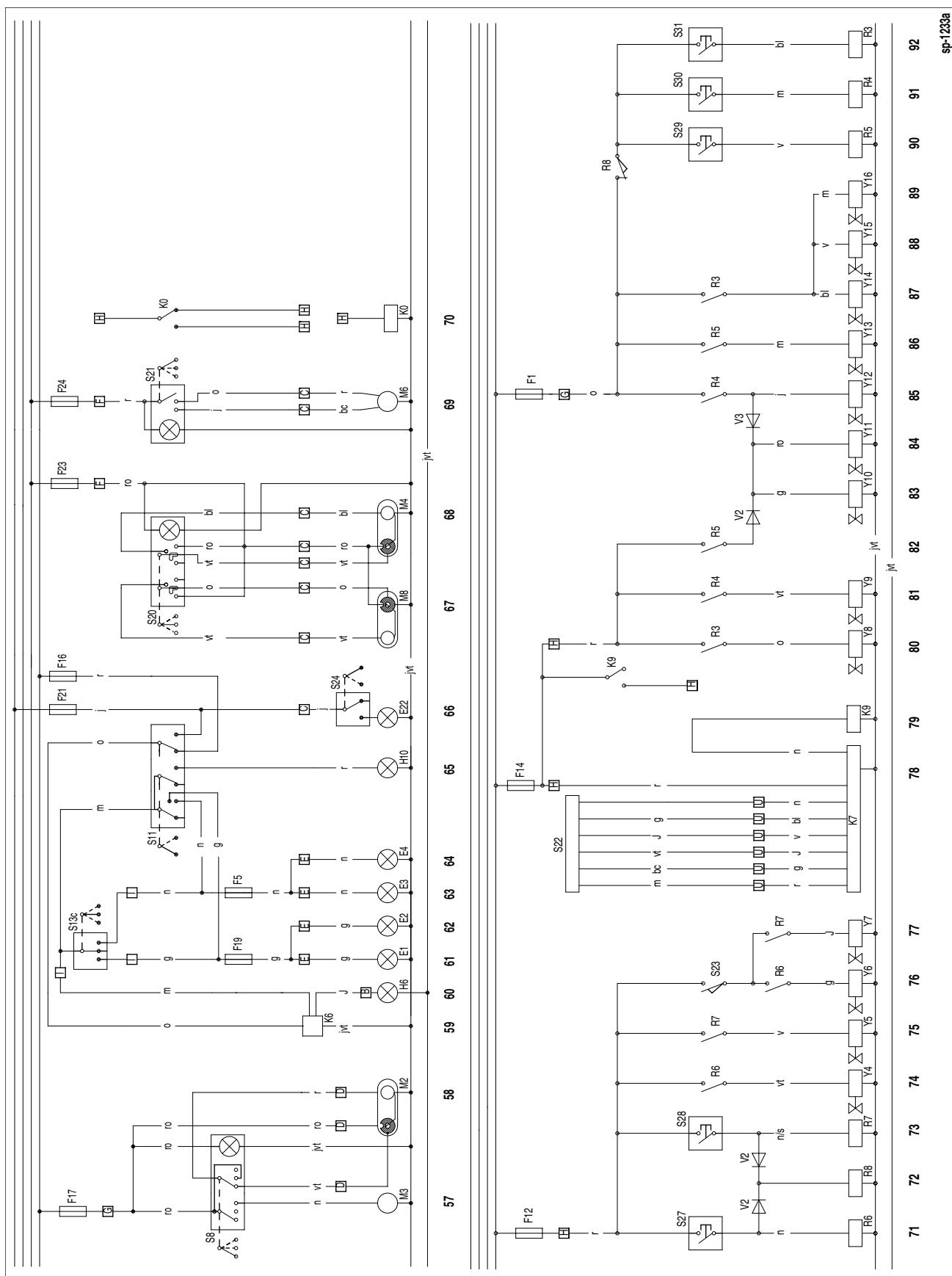
S1 - Key switch
S2 - Forward/reverse selector
S3 - Engine oil pressure switch
S4 - Brake fluid
S5 - Air filter clogging
S6 - Engine water temperature
S7 - Brake switch
S8 - Windscreen wiper / front windscreen washer switch
S9 - Sound alarm control
S10 - Wheel alignment switch
S11 - Warning light switch
S12 - Transmission oil pressure
S13a - Lighting switch (Pilot light)
S13b - Light switch (Low beam headlight / headlight)
S13c - Light switch (Blinker)
S14 - Transmission cut-off switch
S15 - Rear work light switch
S16 - Stop switch
S17 - Transmission oil temperature
S18 - Front work headlight switch
S19 - Revolving light switch
S20 - Rear windscreen wiper / roof switch
S21 - Ventilator switch

S22 - Overload strain gauge
S23 - Movement safety switch
S24 - Roof light switch
S25 - Transmission cut-off switch to brake pedal
S26 - Pedal transmission cu-off neutraliser switch
S27 - Front wheels alignment switch
S28 - Rear wheels alignment switch
S29 - Cold start-up switch

V1 - Fault test diode
V2 - Diode (TUV version)

Y1 - Engine stop electrovalve
Y2 - Forward electrovalve
Y3 - Reverse electrovalve
Y4 - Movement safety electrovalve
Y5 - Cold start-up electrovalve





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - R.H. Stabilizer
- 72 - Priority stabilizer
- 73 - L.H. Stabilizer
- 74 - R.H. Stabilizer lowering electrovalve
- 75 - L.H. Stabilizer lowering electrovalve
- 76 - R.H. Stabilizer lifting electrovalve

- 77 - L.H. Stabilizer lifting electrovalve
- 78 - Safety system
- 79 - Hydraulics movements cut-off (Option)
- 80 - Lifting electrovalve
- 81 - Extended telescope electrovalve 1/2
- 82 - Jib head EV safety
- 83 - Attachment electrovalve
- 84 - Attachment electrovalve
- 85 - Retracted telescope electrovalve 1/2
- 86 - Jib head Electrovalve
- 87 - Lifting electrovalve
- 88 - Tilting electrovalve
- 89 - Tilting electrovalve
- 90 - Attachment + Jib head electrovalve
- 91 - Telescope 1/2 + attachment
- 92 - Lifting / Lowering

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

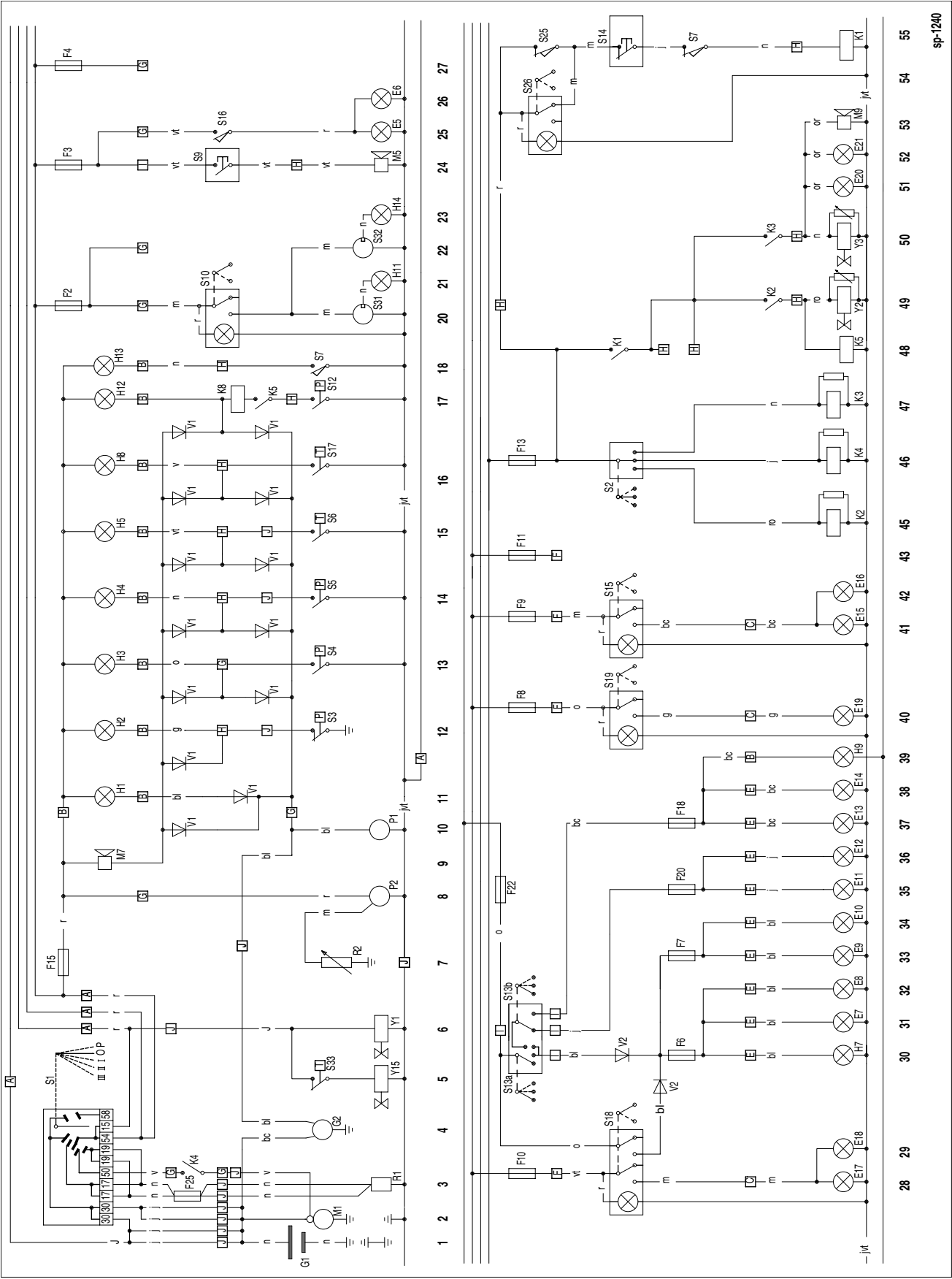
FUSES

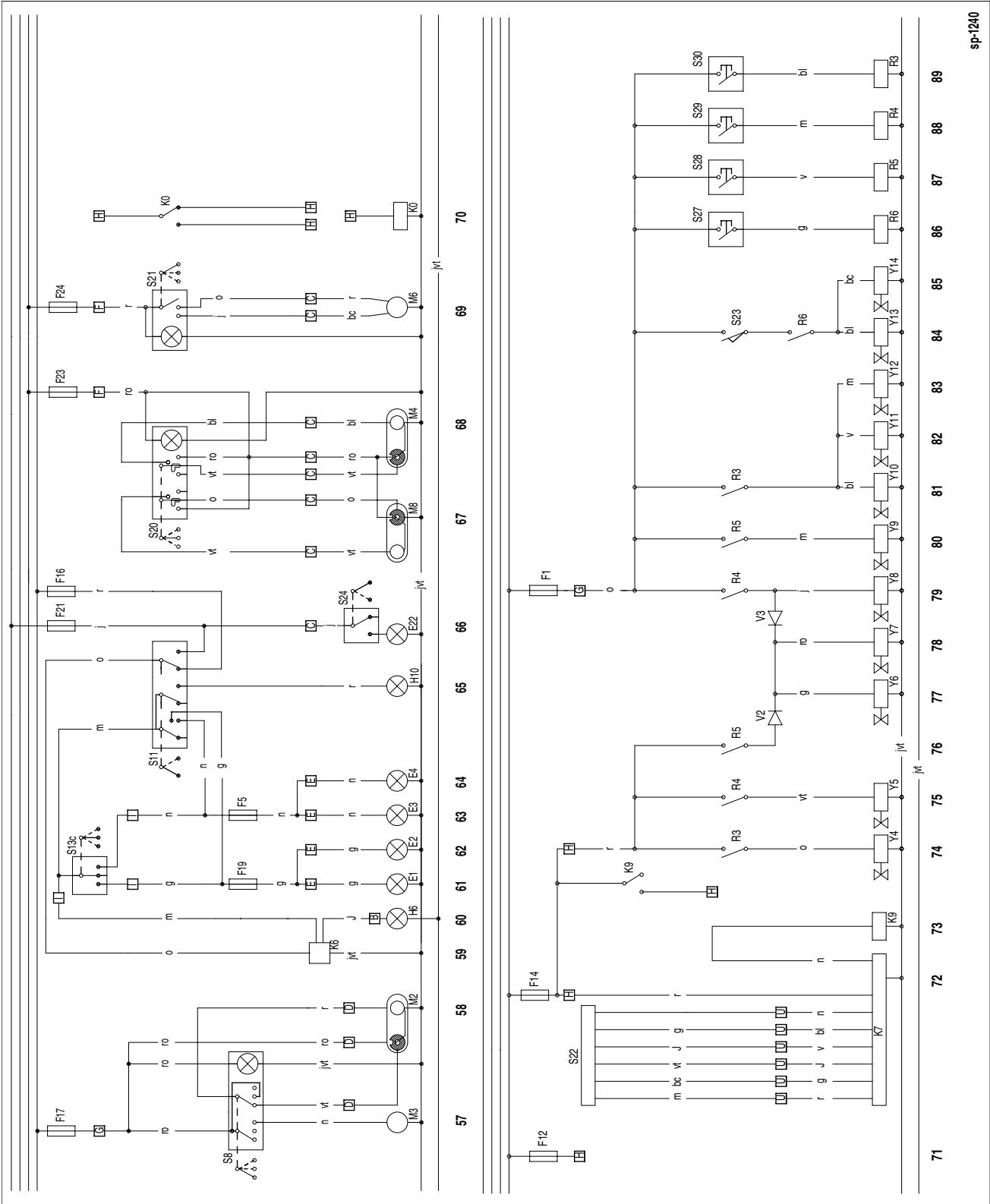
- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)

LEGEND

MT 1233 ST. MU

F8	- Revolving light (7,5A)	S1	- Key switch
F9	- Rear working headlight (10A)	S2	- Forward/reverse selector
F10	- Front working headlight (10A)	S3	- Engine oil pressure switch
F11	- Not used (7,5A)	S4	- Brake fluid
F12	- Stabilizer (7,5A)	S5	- Air filter clogging
F13	- Transmission AV/AR/N (15A)	S6	- Engine water temperature
F14	- Overload safety (10A)	S7	- Brake switch
F15	- Indicator light / fault warning (5A)	S8	- Windscreen wiper / front windscreen washer switch
F16	- Indicator (10A)	S9	- Sound alarm control
F17	- Front windscreen wiper and windscreen washer (10A)	S10	- Wheel alignment switch
F18	- Front main beam (15A)	S11	- Warning light switch
F19	- R.H. indicators (7,5A)	S12	- Transmission oil pressure
F20	- Front low beam (15A)	S13a	- Lighting switch (Pilot light)
F21	- Warning unit + roof light (15A)	S13b	- Light switch (Low beam headlight / headlight)
F22	- Light switch (25A)	S13c	- Light switch (Blinker)
F23	- Rear windscreen wiper / Roof windscreen wiper (7,5A)	S14	- Transmission cut-off switch
F24	- Ventilation (15A)	S15	- Rear work light switch
F25	- Engine preheating (20A)	S16	- Stop switch
G1	- Battery 12V 105Ah	S17	- Transmission oil temperature
G2	- Alternator 55A	S18	- Front work headlight switch
H1	- Load indicator light	S19	- Revolving light switch
H2	- Engine oil pressure indicator light	S20	- Rear windscreen wiper / roof switch
H3	- Brake fluid	S21	- Ventilator switch
H4	- Air filter clogging indicator light	S22	- Overload strain gauge
H5	- Engine water temperature indicator light	S23	- Retracted telescope switch
H6	- Flashing lights	S24	- Roof light switch
H7	- Hourmeter module lighting / gauge	S25	- Transmission cut-off switch to brake pedal
H8	- Transmission oil temperature	S26	- Pedal transmission cu-off neutraliser switch
H9	- Main beam indicator light	S27	- R.H. Stabilizer switch
H10	- Warning unit indicator light	S28	- L.H. Stabilizer switch
H11	- Front wheel alignment indicator light	S29	- Accessories control switch + Jib head electrovalve
H12	- Transmission oil pressure	S30	- Attachment + telescope switch 1/2
H13	- Brake indicator light	S31	- Tilting/Lifting + Lowering switch
H14	- Rear wheels alignment indicator light	S32	- Front wheels alignment switch
K0	- Not used	S33	- Rear wheels alignment switch
K1	- Transmission cut-off relay	S34	- Cold start-up switch
K2	- Forward relay	V1	- Fault test diode
K3	- Reverse relay	V2	- Diode
K4	- Starter safety relay	V3	- Diode
K5	- Forward movement pressure relay	V4	- Diode (TUV version)
K6	- Blinking centre / warning	Y1	- Engine stop electrovalve
K7	- Load safety module	Y2	- Forward electrovalve
K8	- Temporisation 3,5 s $\pm$ 0,5	Y3	- Reverse electrovalve
K9	- Movements cut-off (Option)	Y4	- R.H. Stabilizer lowering electrovalve
M1	- Starter	Y5	- L.H. Stabilizer lowering electrovalve
M2	- Front windscreen wiper	Y6	- R.H. Stabilizer lifting electrovalve
M3	- Windscreen washer	Y7	- L.H. Stabilizer lifting electrovalve
M4	- Roof windscreen wiper	Y8	- Lifting electrovalve
M5	- Sound alarm	Y9	- Extended telescope electrovalve 1/2
M6	- Ventilator	Y10	- Attachment electrovalve
M7	- Machine fault warning	Y11	- Attachment electrovalve
M8	- Rear windscreen wiper	Y12	- Retracted telescope electrovalve 1/2
M9	- Reverse gear sound alarm	Y13	- Jib head electrovalve
P1	- Hourmeter	Y14	- Lifting electrovalve
P2	- Fuel level	Y15	- Tilting electrovalve
R1	- Preheating resistor	Y16	- Tilting electrovalve
R2	- Fuel sensor	Y17	- Cold start-up electrovalve
R3	- Lifting lowering relay / black box / mono ultra		
R4	- Telescope 1/2 attachment relay / black box / mono ultra		
R5	- Attachment + Jib head EV / black box / mono ultra		
R6	- R.H. stabilizer relay / black box / mono ultra		
R7	- L.H. stabilizer relay / black box / mono ultra		
R8	- Priority stabilizer relay / black box / mono ultra		





sp-1240

PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - Stabilizer movements cut-off
- 72 - Safety system
- 73 - Hydraulics movements cut-off (Option)
- 74 - Lifting electrovalve
- 75 - Extended telescope electrovalve 1/2
- 76 - Jib head EV safety

- 77 - Attachment electrovalve
- 78 - Attachment electrovalve
- 79 - Retracted telescope electrovalve 1/2
- 80 - Jib head electrovalve
- 81 - Lifting electrovalve
- 82 - Tilting electrovalve
- 83 - Tilting electrovalve
- 84 - Levelling system electrovalve
- 85 - Levelling system electrovalve
- 86 - Levelling system
- 87 - Attachment + Jib head electrovalve
- 88 - Telescope 1/2 + attachment
- 89 - Lifting / Lowering

COLOUR CODING

- | | | |
|------------|--------------------|------------|
| bc : White | bl : Blue | g : Grey |
| j : Yellow | jvt : Yellow/Green | m : Brown |
| n : Black | o : Orange | r : Red |
| ro : Pink | vt : Green | v : Violet |

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

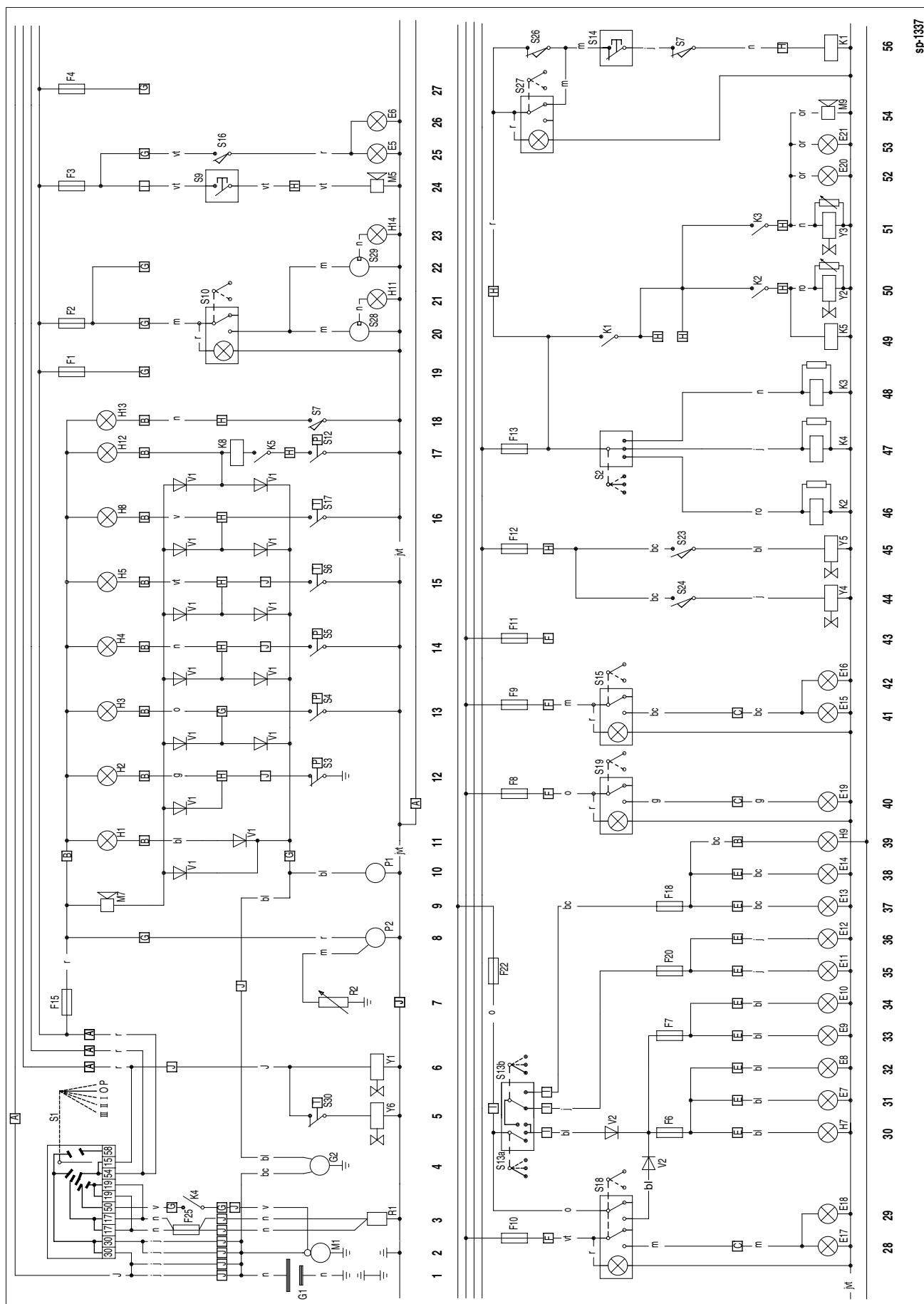
FUSES

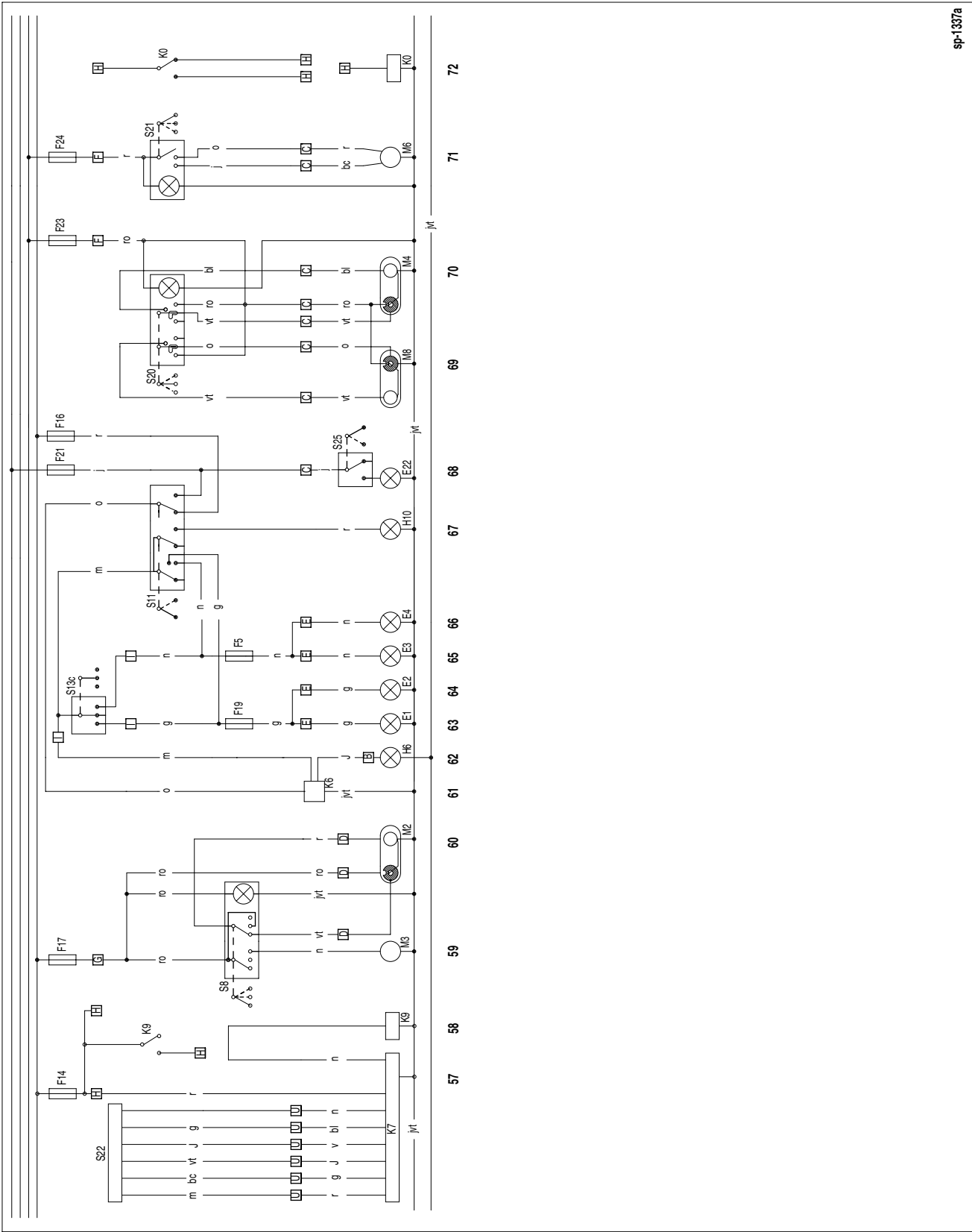
- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)

LEGEND

MT 1240 LT. MU

F11 - Not used (7,5A)	S5 - Air filter clogging
F12 - Stabilizer (7,5A)	S6 - Engine water temperature
F13 - Transmission AV/AR/N (15A)	S7 - Brake switch
F14 - Overload safety (10A)	S8 - Windscreen wiper / front windscreen washer switch
F15 - Indicator light / fault warning (5A)	S9 - Sound alarm control
F16 - Indicator (10A)	S10 - Wheel alignment switch
F17 - Front windscreen wiper and windscreen washer (10A)	S11 - Warning light switch
F18 - Front main beam (15A)	S12 - Transmission oil pressure
F19 - R.H. indicators (7,5A)	S13a - Lighting switch (Pilot light)
F20 - Front low beam (15A)	S13b - Light switch (Low beam headlight / headlight)
F21 - Warning unit + roof light (15A)	S13c - Light switch (Blinker)
F22 - Light switch (25A)	S14 - Transmission cut-off switch
F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)	S15 - Rear work light switch
F24 - Ventilation (15A)	S16 - Stop switch
F25 - Engine preheating (20A)	S17 - Transmission oil temperature
	S18 - Front work headlight switch
G1 - Battery 12V 105Ah	S19 - Revolving light switch
G2 - Alternator 55A	S20 - Rear windscreen wiper / roof switch
	S21 - Ventilator switch
H1 - Load indicator light	S22 - Overload strain gauge
H2 - Engine oil pressure indicator light	S23 - Jib position switch
H3 - Brake fluid	S24 - Roof light switch
H4 - Air filter clogging indicator light	S25 - Transmission cut-off switch to brake pedal
H5 - Engine water temperature indicator light	S26 - Pedal transmission cu-off neutraliser switch
H6 - Flashing lights	S27 - Levelling system control switch
H7 - Hourmeter module lighting / gauge	S28 - Accessories control switch + Jib head electrovalve
H8 - Transmission oil temperature	S29 - Attachment + telescope switch
H9 - Main beam indicator light	S31 - Tilting/Lifting + Lowering switch
H10 - Warning unit indicator light	S32 - Front wheels alignment switch
H11 - Front wheel alignment indicator light	S33 - Rear wheels alignment switch
H12 - Transmission oil pressure	S34 - Cold start-up switch
H13 - Brake indicator light	
H14 - Rear wheels alignment indicator light	V1 - Fault test diode
	V2 - Diode
K0 - Not used	V3 - Diode
K1 - Transmission cut-off relay	V4 - Diode (TUV version)
K2 - Forward relay	
K3 - Reverse relay	Y1 - Engine stop electrovalve
K4 - Starter safety relay	Y2 - Forward electrovalve
K5 - Forward movement pressure relay	Y3 - Reverse electrovalve
K6 - Blinking centre / warning	Y4 - Lifting electrovalve
K7 - Load safety module	Y5 - Extended telescope electrovalve 1/2
K8 - Temporisatation 3,5 s ± 0,5	Y6 - Attachment electrovalve
K9 - Movements cut-off (Option)	Y7 - Attachment electrovalve
	Y8 - Retracted telescope electrovalve 1/2
M1 - Starter	Y9 - Jib head electrovalve
M2 - Front windscreen wiper	Y10 - Lifting electrovalve
M3 - Windscreen washer	Y11 - Tilting electrovalve
M4 - Roof windscreen wiper	Y12 - Tilting electrovalve
M5 - Sound alarm	Y13 - Levelling system electrovalve
M6 - Ventilator	Y14 - Levelling system electrovalve
M7 - Machine fault warning	Y15 - Cold start-up electrovalve
M8 - Rear windscreen wiper	
M9 - Reverse gear sound alarm	
P1 - Hourmeter	
P2 - Fuel level	
R1 - Preheating resistor	
R2 - Fuel sensor	
R3 - Lifting lowering relay / black box / mono ultra	
R4 - Telescope 1/2 attachment relay / black box / mono ultra	
R5 - Attachment + Jib head EV / black box / mono ultra	
R6 - Levelling system relay / black box / mono ultra	
S1 - Key switch	
S2 - Forward/reverse selector	
S3 - Engine oil pressure switch	
S4 - Brake fluid	





sp-1337a

LEGEND

MT 1330 SL + T. MT 1337 SL + T.

PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 44 - Levelling system movement safety
- 45 - Stabilizer movement safety
- 46 - Forward relay
- 47 - Starting safety
- 48 - Reverse relay
- 49 - Forward oil pressure
- 50 - Forward electrovalve
- 51 - Reserve electrovalve
- 52 - L.H. reversing light
- 53 - R.H. reversing light
- 54 - Reverse gear sound alarm
- 55 -
- 56 - Transmission cut-off
- 57 - Safety system
- 58 - Hydraulics movements cut-off (Option)
- 59 - Front windscreen washer
- 60 - Front windscreen wiper
- 61 - Flashing light/warning unit
- 62 - Flashing light/warning unit indicator light
- 63 - R.H. rear indicator
- 64 - R.H. front indicator
- 65 - L.H. rear indicator
- 66 - L.H. front indicator
- 67 - Warning switch/indicator light
- 68 - Roof light
- 69 - Rear windscreen wiper
- 70 - Roof windscreen wiper
- 71 - Ventilation
- 72 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Stabilizers / Levelling system safety (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

MT 1330 SL + T. MT 1337 SL + T.

G1 - Battery 12V 105Ah
G2 - Alternator 55A

H1 - Load indicator light
H2 - Engine oil pressure indicator light
H3 - Brake fluid
H4 - Air filter clogging indicator light
H5 - Engine water temperature indicator light
H6 - Flashing lights
H7 - Hourmeter module lighting / gauge
H8 - Transmission oil temperature
H9 - Main beam indicator light
H10 - Warning unit indicator light
H11 - Front wheel alignment indicator light
H12 - Transmission oil pressure
H13 - Brake indicator light
H14 - Rear wheels alignment indicator light

K0 - Not used
K1 - Transmission cut-off relay
K2 - Forward relay
K3 - Reverse relay
K4 - Starter safety relay
K5 - Forward movement pressure relay
K6 - Blinking centre / warning
K7 - Load safety module
K8 - Temporisation 3,5 s $\pm$ 0,5
K9 - Movements cut-off (Option)

M1 - Starter
M2 - Front windscreen wiper
M3 - Windscreen washer
M4 - Roof windscreen wiper
M5 - Sound alarm
M6 - Ventilator
M7 - Machine fault warning
M8 - Rear windscreen wiper
M9 - Reverse gear sound alarm

P1 - Hourmeter
P2 - Fuel level

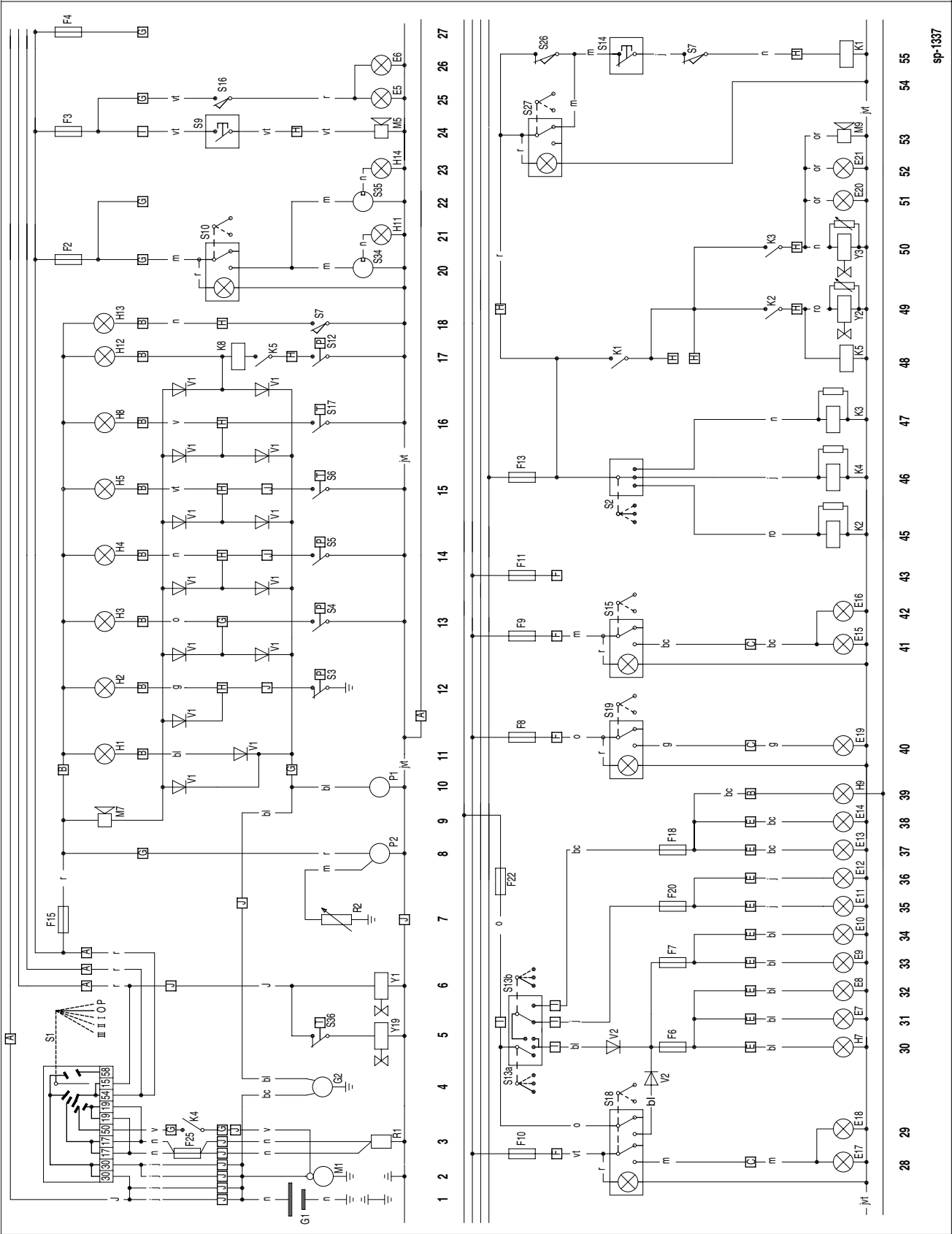
R1 - Preheating resistor
R2 - Fuel sensor

S1 - Key switch
S2 - Forward/reverse selector
S3 - Engine oil pressure switch
S4 - Brake fluid
S5 - Air filter clogging
S6 - Engine water temperature
S7 - Brake switch
S8 - Windscreen wiper / front windscreen washer switch
S9 - Sound alarm control
S10 - Wheel alignment switch
S11 - Warning light switch
S12 - Transmission oil pressure
S13a - Lighting switch (Pilot light)
S13b - Light switch (Low beam headlight / headlight)
S13c - Light switch (Blinker)
S14 - Transmission cut-off switch
S15 - Rear work light switch
S16 - Stop switch
S17 - Transmission oil temperature
S18 - Front work headlight switch
S19 - Revolving light switch
S20 - Rear windscreen wiper / roof switch

S21 - Ventilator switch
S22 - Overload strain gauge
S23 - Retracted telescope switch
S24 - Jib position switch
S25 - Roof light switch
S26 - Transmission cut-off switch to brake pedal
S27 - Pedal transmission cu-off neutraliser switch
S28 - Front wheels alignment switch
S29 - Rear wheels alignment switch
S30 - Cold start-up switch

V1 - Fault test diode
V2 - Diode (TUV version)

Y1 - Engine stop electrovalve
Y2 - Forward electrovalve
Y3 - Reverse electrovalve
Y4 - Levelling system safety electrovalve
Y5 - Stabilizer safety electrovalve
Y6 - Cold start-up electrovalve





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - R.H. Stabilizer
- 72 - Priority stabilizer
- 73 - L.H. Stabilizer
- 74 - R.H. Stabilizer lowering electrovalve
- 75 - L.H. Stabilizer lowering electrovalve

- 76 - R.H. Stabilizer lifting electrovalve
- 77 - L.H. Stabilizer lifting electrovalve
- 78 - Safety system
- 79 - Hydraulics movements cut-off (Option)
- 80 - Lifting electrovalve
- 81 - Extended telescope electrovalve 1/2
- 82 - Jib head EV safety
- 83 - Attachment electrovalve
- 84 - Attachment electrovalve
- 85 - Retracted telescope electrovalve 1/2
- 86 - Jib head Electrovalve
- 87 - Lifting electrovalve
- 88 - Tilting electrovalve
- 89 - Tilting electrovalve
- 90 - Levelling system electrovalve
- 91 - Levelling system electrovalve
- 92 - Levelling system
- 93 - Attachment + Jib head electrovalve
- 94 - Telescope 1/2 + attachment
- 95 - Lifting / Lowering

COLOUR CODING

- | | | |
|------------|--------------------|------------|
| bc : White | bl : Blue | g : Grey |
| j : Yellow | jvt : Yellow/Green | m : Brown |
| n : Black | o : Orange | r : Red |
| ro : Pink | vt : Green | v : Violet |

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Electrovalve without cut-off of movements (15A)
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Stabilizer (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

- G1 - Battery 12V 105Ah
- G2 - Alternator 55A

- H1 - Load indicator light
- H2 - Engine oil pressure indicator light
- H3 - Brake fluid
- H4 - Air filter clogging indicator light
- H5 - Engine water temperature indicator light
- H6 - Flashing lights
- H7 - Hourmeter module lighting / gauge
- H8 - Transmission oil temperature
- H9 - Main beam indicator light
- H10 - Warning unit indicator light
- H11 - Front wheel alignment indicator light
- H12 - Transmission oil pressure
- H13 - Brake indicator light
- H14 - Rear wheels alignment indicator light

- K0 - Not used
- K1 - Transmission cut-off relay
- K2 - Forward relay
- K3 - Reverse relay
- K4 - Starter safety relay
- K5 - Forward movement pressure relay
- K6 - Blinking centre / warning
- K7 - Load safety module
- K8 - Temporisation 3,5 s $\pm$ 0,5
- K9 - Movements cut-off (Option)

- M1 - Starter
- M2 - Front windscreen wiper
- M3 - Windscreen washer
- M4 - Roof windscreen wiper
- M5 - Sound alarm
- M6 - Ventilator
- M7 - Machine fault warning
- M8 - Rear windscreen wiper
- M9 - Reverse gear sound alarm

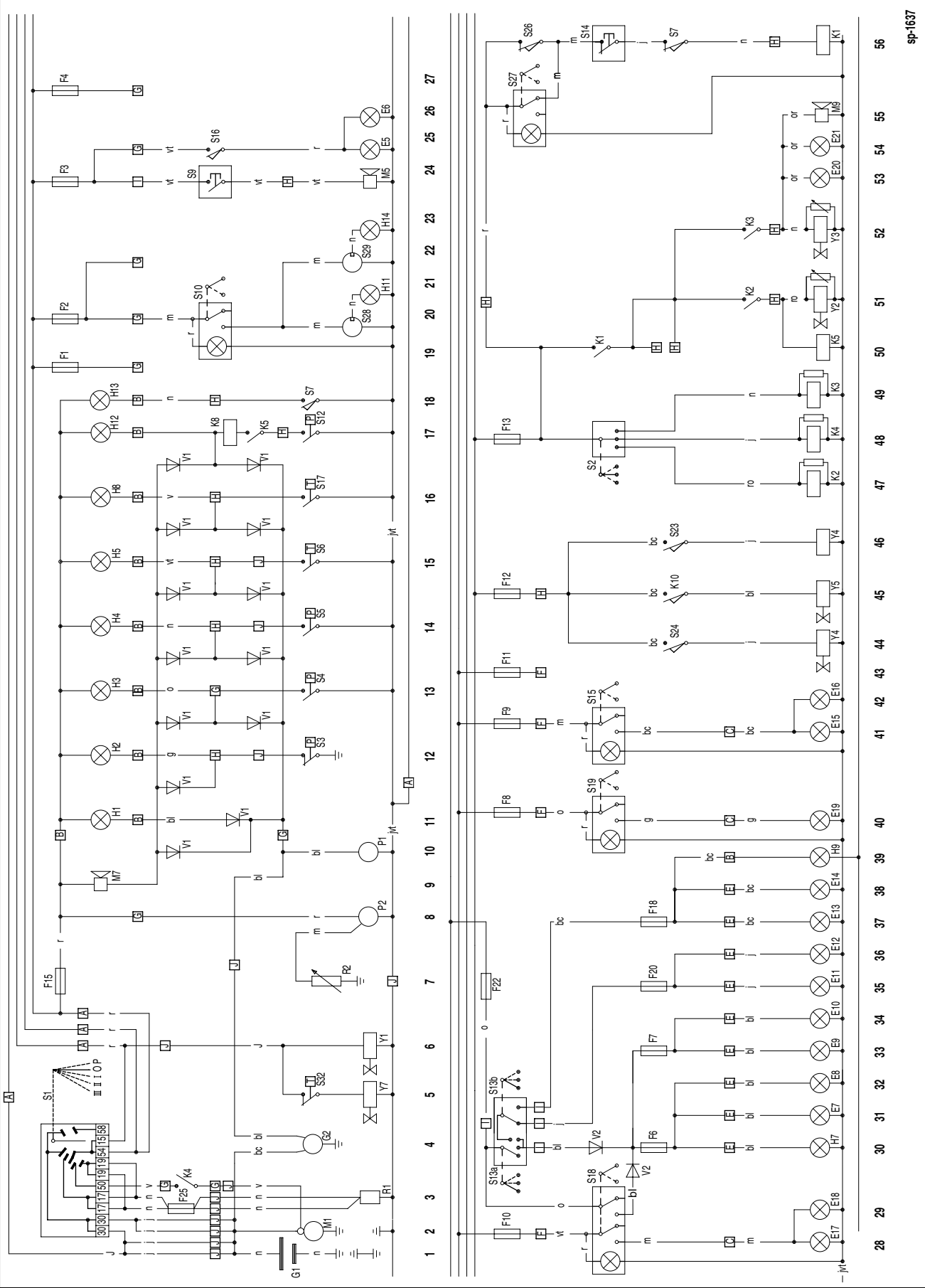
- P1 - Hourmeter
- P2 - Fuel level

- R1 - Preheating resistor
- R2 - Fuel sensor
- R3 - Lifting lowering relay / black box / mono ultra
- R4 - Telescope 1/2 attachment relay / black box / mono ultra
- R5 - Attachment + Jib head EV / black box / mono ultra
- R6 - Levelling system relay / black box / mono ultra
- R7 - R.H. stabilizer relay / black box / mono ultra
- R8 - L.H. stabilizer relay / black box / mono ultra
- R9 - Priority stabilizer relay / black box / mono ultra

- S1 - Key switch
- S2 - Forward/reverse selector
- S3 - Engine oil pressure switch
- S4 - Brake fluid
- S5 - Air filter clogging
- S6 - Engine water temperature
- S7 - Brake switch
- S8 - Windscreen wiper / front windscreen washer switch
- S9 - Sound alarm control
- S10 - Wheel alignment switch
- S11 - Warning light switch
- S12 - Transmission oil pressure
- S13a - Lighting switch (Pilot light)
- S13b - Light switch (Low beam headlight / headlight)
- S13c - Light switch (Blinker)
- S14 - Transmission cut-off switch
- S15 - Rear work light switch
- S16 - Stop switch
- S17 - Transmission oil temperature
- S18 - Front work headlight switch
- S19 - Revolving light switch
- S20 - Rear windscreen wiper / roof switch
- S21 - Ventilator switch
- S22 - Overload strain gauge
- S23 - Retracted telescope switch
- S24 - Jib position switch
- S25 - Roof light switch
- S26 - Transmission cut-off switch to brake pedal
- S27 - Pedal transmission cu-off neutraliser switch
- S28 - R.H. Stabilizer switch
- S29 - L.H. Stabilizer switch
- S30 - Levelling system control switch
- S31 - Accessories control switch + Jib head electrovalve
- S32 - Attachment + telescope switch 1/2
- S33 - Tilting/Lifting + Lowering switch
- S34 - Front wheels alignment switch
- S35 - Rear wheels alignment switch
- S36 - Cold start-up switch

- V1 - Fault test diode
- V2 - Diode
- V3 - Diode
- V4 - Diode (TUV version)

- Y1 - Engine stop electrovalve
- Y2 - Forward electrovalve
- Y3 - Reverse electrovalve
- Y4 - R.H. Stabilizer lowering electrovalve
- Y5 - L.H. Stabilizer lowering electrovalve
- Y6 - R.H. Stabilizer lifting electrovalve
- Y7 - L.H. Stabilizer lifting electrovalve
- Y8 - Lifting electrovalve
- Y9 - Extended telescope electrovalve 1/2
- Y10 - Attachment electrovalve
- Y11 - Attachment electrovalve
- Y12 - Retracted telescope electrovalve 1/2
- Y13 - Jib head electrovalve
- Y14 - Lifting electrovalve
- Y15 - Tilting electrovalve
- Y16 - Tilting electrovalve
- Y17 - Levelling system electrovalve
- Y18 - Levelling system electrovalve
- Y19 - Cold start-up electrovalve



sp-1637



PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 44 - Levelling system movement safety
- 45 - Stabilizer movement safety
- 46 - Retracted telescope safety
- 47 - Forward relay
- 48 - Starting safety
- 49 - Reverse relay
- 50 - Forward oil pressure
- 51 - Forward electrovalve
- 52 - Reserve electrovalve
- 53 - L.H. reversing light
- 54 - R.H. reversing light
- 55 - Reverse gear sound alarm
- 56 - Transmission cut-off
- 57 - Safety system
- 58 - Hydraulics movements cut-off (Option)
- 59 - Telescope 3 electrovalve
- 60 - Front windscreen washer
- 61 - Front windscreen wiper
- 62 - Flashing light/warning unit
- 63 - Flashing light/warning unit indicator light
- 64 - R.H. rear indicator
- 65 - R.H. front indicator
- 66 - L.H. rear indicator
- 67 - L.H. front indicator
- 68 - Warning switch/indicator light
- 69 - Roof light
- 70 - Rear windscreen wiper
- 71 - Roof windscreen wiper
- 72 - Ventilation
- 73 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Stabilizers / Levelling system safety (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

MT 1637 SL + T.

G1 - Battery 12V 105Ah
G2 - Alternator 55A

H1 - Load indicator light
H2 - Engine oil pressure indicator light
H3 - Brake fluid
H4 - Air filter clogging indicator light
H5 - Engine water temperature indicator light
H6 - Flashing lights
H7 - Hourmeter module lighting / gauge
H8 - Transmission oil temperature
H9 - Main beam indicator light
H10 - Warning unit indicator light
H11 - Front wheel alignment indicator light
H12 - Transmission oil pressure
H13 - Brake indicator light
H14 - Rear wheels alignment indicator light

K0 - Not used
K1 - Transmission cut-off relay
K2 - Forward relay
K3 - Reverse relay
K4 - Starter safety relay
K5 - Forward movement pressure relay
K6 - Blinking centre / warning
K7 - Load safety module
K8 - Temporisation 3,5 s $\pm$ 0,5
K9 - Movements cut-off (Option)
K10 - Proximity switch relay

M1 - Starter
M2 - Front windscreen wiper
M3 - Windscreen washer
M4 - Roof windscreen wiper
M5 - Sound alarm
M6 - Ventilator
M7 - Machine fault warning
M8 - Rear windscreen wiper
M9 - Reverse gear sound alarm

P1 - Hourmeter
P2 - Fuel level

R1 - Preheating resistor
R2 - Fuel sensor

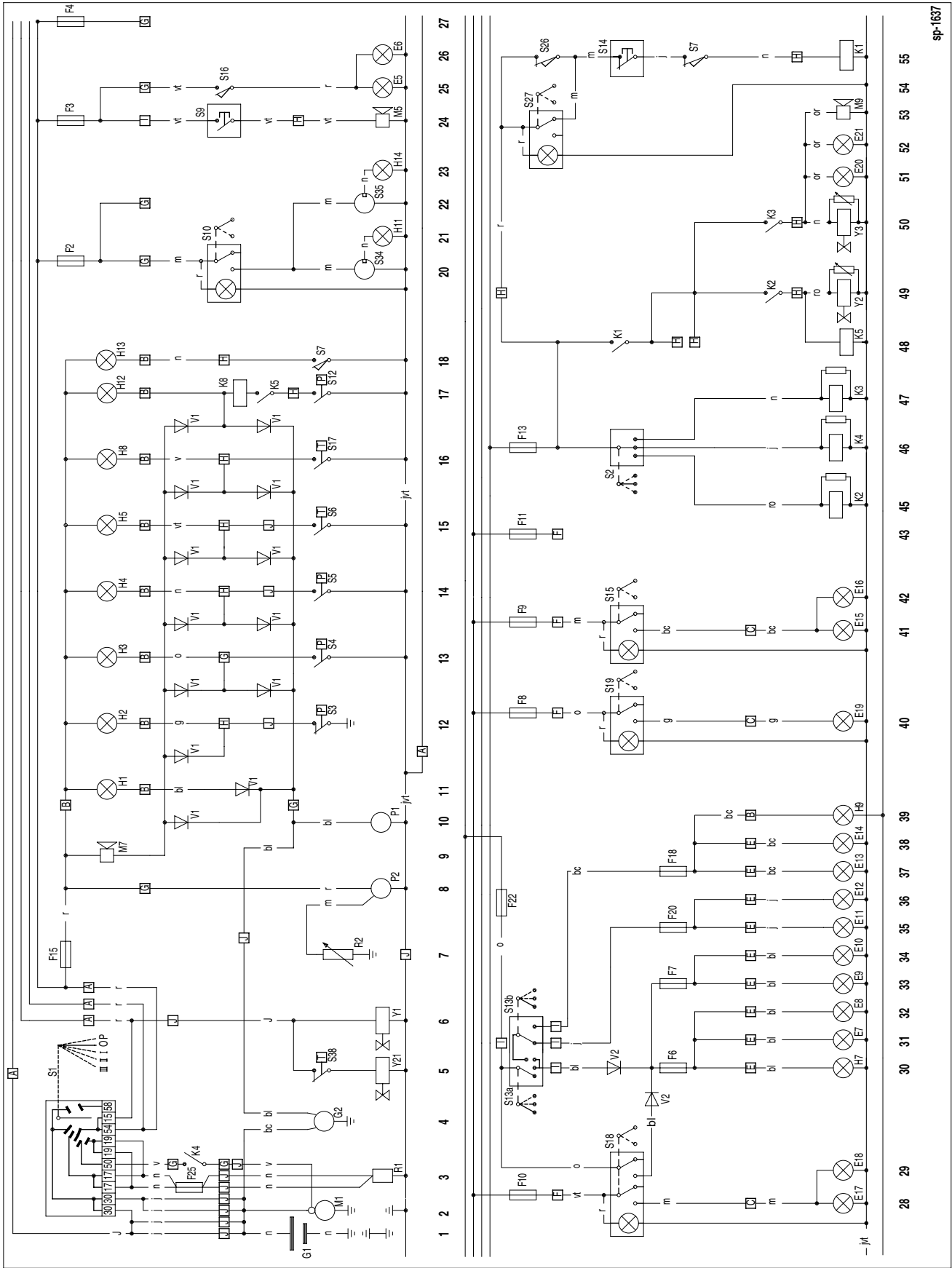
S1 - Key switch
S2 - Forward/reverse selector
S3 - Engine oil pressure switch
S4 - Brake fluid
S5 - Air filter clogging
S6 - Engine water temperature
S7 - Brake switch
S8 - Windscreen wiper / front windscreen washer switch
S9 - Sound alarm control
S10 - Wheel alignment switch
S11 - Warning light switch
S12 - Transmission oil pressure
S13a - Lighting switch (Pilot light)
S13b - Light switch (Low beam headlight / headlight)
S13c - Light switch (Blinker)
S14 - Transmission cut-off switch
S15 - Rear work light switch
S16 - Stop switch
S17 - Transmission oil temperature
S18 - Front work headlight switch
S19 - Revolving light switch
S20 - Rear windscreen wiper / roof switch

S21 - Ventilator switch
S22 - Overload strain gauge
S23 - Retracted telescope switch
S24 - Jib position switch
S25 - Roof light switch
S26 - Transmission cut-off switch to brake pedal
S27 - Pedal transmission cu-off neutraliser switch
S28 - Front wheels alignment switch
S29 - Rear wheels alignment switch
S30 - R.H. Stabilizer switch
S31 - L.H. Stabilizer switch
S32 - Cold start-up switch

V1 - Fault test diode
V2 - Diode (TUV version)

Y1 - Engine stop electrovalve
Y2 - Forward electrovalve
Y3 - Reverse electrovalve
Y4 - Levelling system safety electrovalve
Y5 - Stabilizer safety electrovalve
Y6 - Telescope 3 electrovalve
Y7 - Cold start-up electrovalve

ELECTRIC DIAGRAM MT 1637 SLT. MU





PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 -
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used
- 71 - R.H. Stabilizer
- 72 - Priority stabilizer
- 73 - L.H. Stabilizer
- 74 - R.H. Stabilizer lowering electrovalve
- 75 - L.H. Stabilizer lowering electrovalve
- 76 - R.H. Stabilizer lifting electrovalve

- 77 - L.H. Stabilizer lifting electrovalve
- 78 - Retracted telescope safety
- 79 - Safety system
- 80 - Hydraulics movements cut-off (Option)
- 81 - Lifting electrovalve
- 82 - Extended telescope electrovalve 1/2
- 83 - Extended telescope electrovalve 3
- 84 - Attachment electrovalve
- 85 - Attachment electrovalve
- 86 - Retracted telescope electrovalve 1/2
- 87 - Retracted telescope electrovalve 3
- 88 - Jib head Electrovalve
- 89 - Lifting electrovalve
- 90 - Tilting electrovalve
- 91 - Tilting electrovalve
- 92 - Levelling system electrovalve
- 93 - Levelling system electrovalve
- 94 - Levelling system
- 95 - Telescope 3 + Attachment + Jib head electro-valve
- 96 - Telescope 1/2 + attachment
- 97 - Lifting / Lowering

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

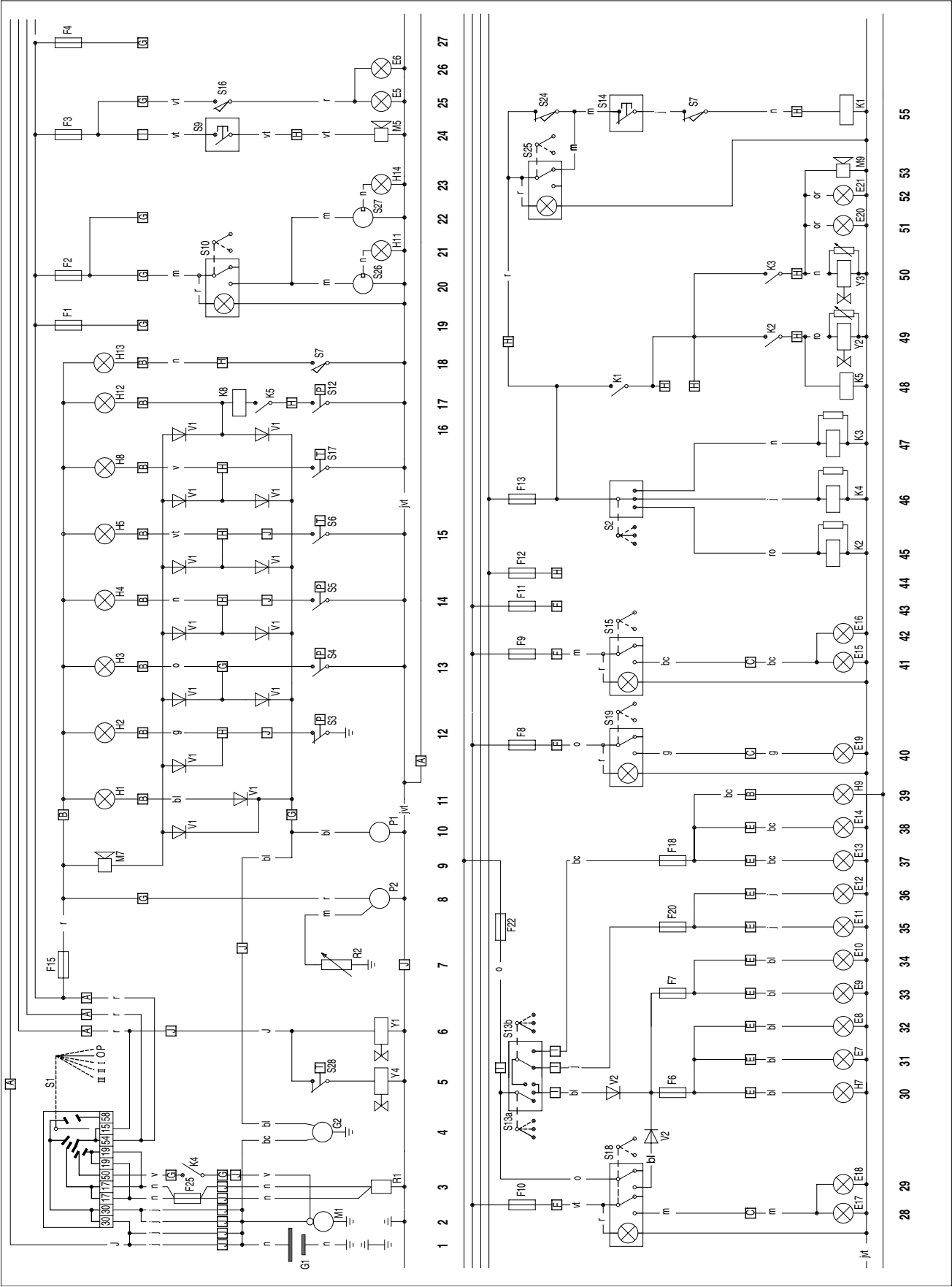
FUSES

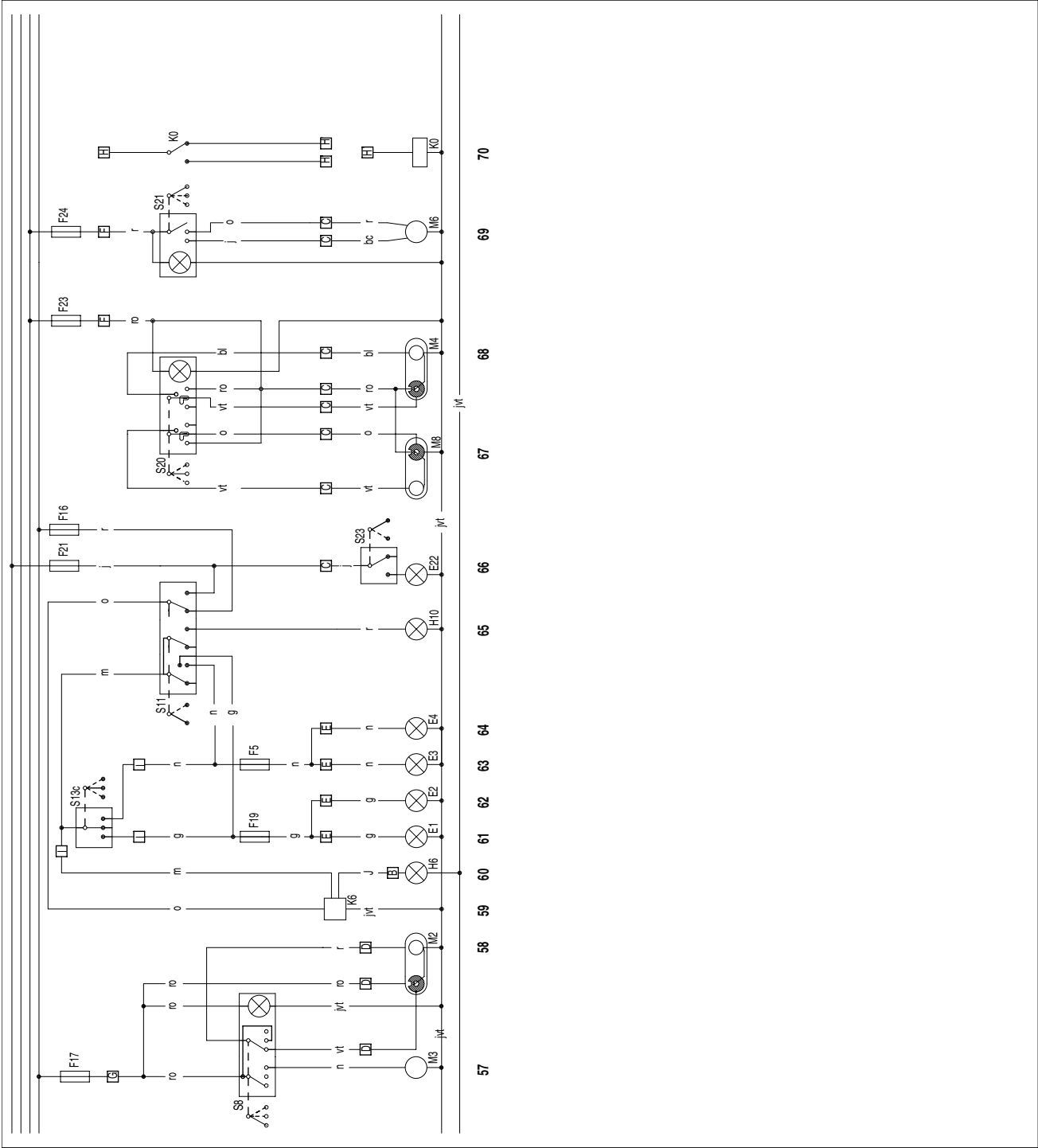
- F1 - Electrovalve without cut-off of movements (15A)
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)

LEGEND

MT 1637 SLT. MU

F4	- Not used (10A)	R5	- Attachment + Jib head EV / black box / mono ultra
F5	- Left indicators (7,5A)	R6	- Levelling system relay / black box / mono ultra
F6	- Right sidelights / Control panel lighting (7,5A)	R7	- R.H. stabilizer relay / black box / mono ultra
F7	- Left sidelights (7,5A)	R8	- L.H. stabilizer relay / black box / mono ultra
F8	- Revolving light (7,5A)	R9	- Priority stabilizer relay / black box / mono ultra
F9	- Rear working headlight (10A)		
F10	- Front working headlight (10A)	S1	- Key switch
F11	- Not used (7,5A)	S2	- Forward/reverse selector
F12	- Stabilizer (7,5A)	S3	- Engine oil pressure switch
F13	- Transmission AV/AR/N (15A)	S4	- Brake fluid
F14	- Overload safety + Electrovalve cut-off of movements (10A)	S5	- Air filter clogging
F15	- Indicator light / fault warning (5A)	S6	- Engine water temperature
F16	- Indicator (10A)	S7	- Brake switch
F17	- Front windscreen wiper and windscreen washer (10A)	S8	- Windscreen wiper / front windscreen washer switch
F18	- Front main beam (15A)	S9	- Sound alarm control
F19	- R.H. indicators (7,5A)	S10	- Wheel alignment switch
F20	- Front low beam (15A)	S11	- Warning light switch
F21	- Warning unit + roof light (15A)	S12	- Transmission oil pressure
F22	- Light switch (25A)	S13a	- Lighting switch (Pilot light)
F23	- Rear windscreen wiper / Roof windscreen wiper (7,5A)	S13b	- Light switch (Low beam headlight / headlight)
F24	- Ventilation (15A)	S13c	- Light switch (Blinker)
F25	- Engine preheating (20A)	S14	- Transmission cut-off switch
		S15	- Rear work light switch
G1	- Battery 12V 105Ah	S16	- Stop switch
G2	- Alternator 55A	S17	- Transmission oil temperature
		S18	- Front work headlight switch
H1	- Load indicator light	S19	- Revolving light switch
H2	- Engine oil pressure indicator light	S20	- Rear windscreen wiper / roof switch
H3	- Brake fluid	S21	- Ventilator switch
H4	- Air filter clogging indicator light	S22	- Overload strain gauge
H5	- Engine water temperature indicator light	S23	- Retracted telescope switch
H6	- Flashing lights	S24	- Jib position switch
H7	- Hourmeter module lighting / gauge	S25	- Roof light switch
H8	- Transmission oil temperature	S26	- Transmission cut-off switch to brake pedal
H9	- Main beam indicator light	S27	- Pedal transmission cu-off neutraliser switch
H10	- Warning unit indicator light	S28	- R.H. Stabilizer switch
H11	- Front wheel alignment indicator light	S29	- L.H. Stabilizer switch
H12	- Transmission oil pressure	S30	- Levelling system control switch
H13	- Brake indicator light	S31	- Accessories control switch + Jib head electrovalve
H14	- Rear wheels alignment indicator light	S32	- Attachment + telescope switch 1/2
		S33	- Tilting/Lifting + Lowering switch
K0	- Not used	S34	- Front wheels alignment switch
K1	- Transmission cut-off relay	S35	- Rear wheels alignment switch
K2	- Forward relay	S36	- R.H. Stabilizer switch
K3	- Reverse relay	S37	- L.H. Stabilizer switch
K4	- Starter safety relay	S38	- Cold start-up switch
K5	- Forward movement pressure relay		
K6	- Blinking centre / warning	V1	- Fault test diode
K7	- Load safety module	V2	- Diode
K8	- Temporisation 3,5 s ± 0,5	V3	- Diode
K9	- Movements cut-off (Option)	V4	- Diode (TUV version)
K10	- Proximity switch relay		
		Y1	- Engine stop electrovalve
M1	- Starter	Y2	- Forward electrovalve
M2	- Front windscreen wiper	Y3	- Reverse electrovalve
M3	- Windscreen washer	Y4	- R.H. Stabilizer lowering electrovalve
M4	- Roof windscreen wiper	Y5	- L.H. Stabilizer lowering electrovalve
M5	- Sound alarm	Y6	- R.H. Stabilizer lifting electrovalve
M6	- Ventilator	Y7	- L.H. Stabilizer lifting electrovalve
M7	- Machine fault warning	Y8	- Lifting electrovalve
M8	- Rear windscreen wiper	Y9	- Extended telescope electrovalve 1/2
M9	- Reverse gear sound alarm	Y10	- Attachment electrovalve
		Y11	- Attachment electrovalve
P1	- Hourmeter	Y12	- Retracted telescope electrovalve 1/2
P2	- Fuel level	Y13	- Jib head electrovalve
		Y14	- Lifting electrovalve
R1	- Preheating resistor	Y15	- Tilting electrovalve
R2	- Fuel sensor	Y16	- Tilting electrovalve
R3	- Lifting lowering relay / black box / mono ultra	Y17	- Levelling system electrovalve
R4	- Telescope 1/2 attachment relay / black box / mono ultra	Y18	- Levelling system electrovalve
		Y19	- Extended telescope electrovalve 3
		Y20	- Retracted telescope electrovalve 3
		Y21	- Cold start-up electrovalve





LEGEND

MT 1337 / 1637 SLT. MU NACELLE ORH

PRINCIPLE ELECTRIC CIRCUIT

- 1 - Battery
- 2 - Starter
- 3 - Preheating
- 4 - Alternator
- 5 - Cold start-up
- 6 - Engine stop electrovalve
- 7 - Fuel level sensor
- 8 - Fuel level
- 9 - Machine fault alarm
- 10 - Hourmeter
- 11 - Load indicator
- 12 - Engine oil pressure
- 13 - Brake fluid
- 14 - Air filter clogging
- 15 - Engine water temperature
- 16 - Transmission oil temperature
- 17 - Transmission oil pressure
- 18 - Hand brake
- 19 - Not used
- 20 - Front wheels alignment detector
- 21 - Front wheels alignment indicator light
- 22 - Rear wheels alignment detector
- 23 - Rear wheels alignment indicator light
- 24 - Sound alarm
- 25 - L.H. stoplight
- 26 - R.H. stoplight
- 27 - Not used
- 28 - L.H. front working headlight
- 29 - R.H. front working headlight
- 30 - Control panel lighting
- 31 - R.H. rear sidelight
- 32 - R.H. front sidelight
- 33 - L.H. rear sidelight
- 34 - L.H. front sidelight
- 35 - L.H. front dipped headlight
- 36 - R.H. front dipped headlight
- 37 - L.H. front headlight
- 38 - R.H. front headlight
- 39 - Headlight indicator light
- 40 - Revolving light
- 41 - R.H. working tail light
- 42 - L.H. working tail light
- 43 - Not used
- 44 - Not used
- 45 - Forward relay
- 46 - Starting safety
- 47 - Reverse relay
- 48 - Forward oil pressure
- 49 - Forward electrovalve
- 50 - Reserve electrovalve
- 51 - L.H. reversing light
- 52 - R.H. reversing light
- 53 - Reverse gear sound alarm
- 54 - Not used
- 55 - Transmission cut-off
- 57 - Front windscreen washer
- 58 - Front windscreen wiper
- 59 - Flashing light/warning unit
- 60 - Flashing light/warning unit indicator light
- 61 - R.H. rear indicator
- 62 - R.H. front indicator
- 63 - L.H. rear indicator
- 64 - L.H. front indicator
- 65 - Warning switch/indicator light
- 66 - Roof light
- 67 - Rear windscreen wiper
- 68 - Roof windscreen wiper
- 69 - Ventilation
- 70 - Not used

COLOUR CODING

bc : White	bl : Blue	g : Grey
j : Yellow	jvt : Yellow/Green	m : Brown
n : Black	o : Orange	r : Red
ro : Pink	vt : Green	v : Violet

CONNECTORS

- A - Fuse/relay box (4 pin connection + 1 pin connection)
- B - Indicator light module
- C - Cab
- D - Front windscreen wiper
- E - Fuse/relay box (13 pin connection)
- F - Fuse/relay box (7 pin connection)
- G - Fuse/relay box (11 pin connection)
- H - Fuse/relay box (21 pin connection)
- I - Light switch
- J - Engine compartment

ELECTRIC COMPONENTS

- E1 - R.H. rear indicator
- E2 - R.H. front indicator
- E3 - L.H. rear indicator
- E4 - L.H. front indicator
- E5 - L.H. stoplight
- E6 - R.H. stoplight
- E7 - R.H. rear sidelight
- E8 - R.H. front sidelight
- E9 - L.H. rear sidelight
- E10 - L.H. front sidelight
- E11 - L.H. front low beam
- E12 - R.H. front low beam
- E13 - L.H. front main beam
- E14 - R.H. front main beam
- E15 - R.H. working tail light
- E16 - L.H. working tail light
- E17 - L.H. front working headlight
- E18 - R.H. front working headlight
- E19 - Revolving light
- E20 - L.H. rear reverse light
- E21 - R.H. rear reverse light
- E22 - Roof light

FUSES

- F1 - Not used (15A)
- F2 - Alignment of the wheels (5A)
- F3 - Sound alarm / Stop switch (10A)
- F4 - Not used (10A)
- F5 - Left indicators (7,5A)
- F6 - Right sidelights / Control panel lighting (7,5A)
- F7 - Left sidelights (7,5A)
- F8 - Revolving light (7,5A)
- F9 - Rear working headlight (10A)
- F10 - Front working headlight (10A)
- F11 - Not used (7,5A)
- F12 - Not used (7,5A)
- F13 - Transmission AV/AR/N (15A)
- F14 - Overload safety + Electrovalve cut-off of movements (10A)
- F15 - Indicator light / fault warning (5A)
- F16 - Indicator (10A)
- F17 - Front windscreen wiper and windscreen washer (10A)
- F18 - Front main beam (15A)
- F19 - R.H. indicators (7,5A)
- F20 - Front low beam (15A)
- F21 - Warning unit + roof light (15A)
- F22 - Light switch (25A)
- F23 - Rear windscreen wiper / Roof windscreen wiper (7,5A)
- F24 - Ventilation (15A)
- F25 - Engine preheating (20A)

LEGEND

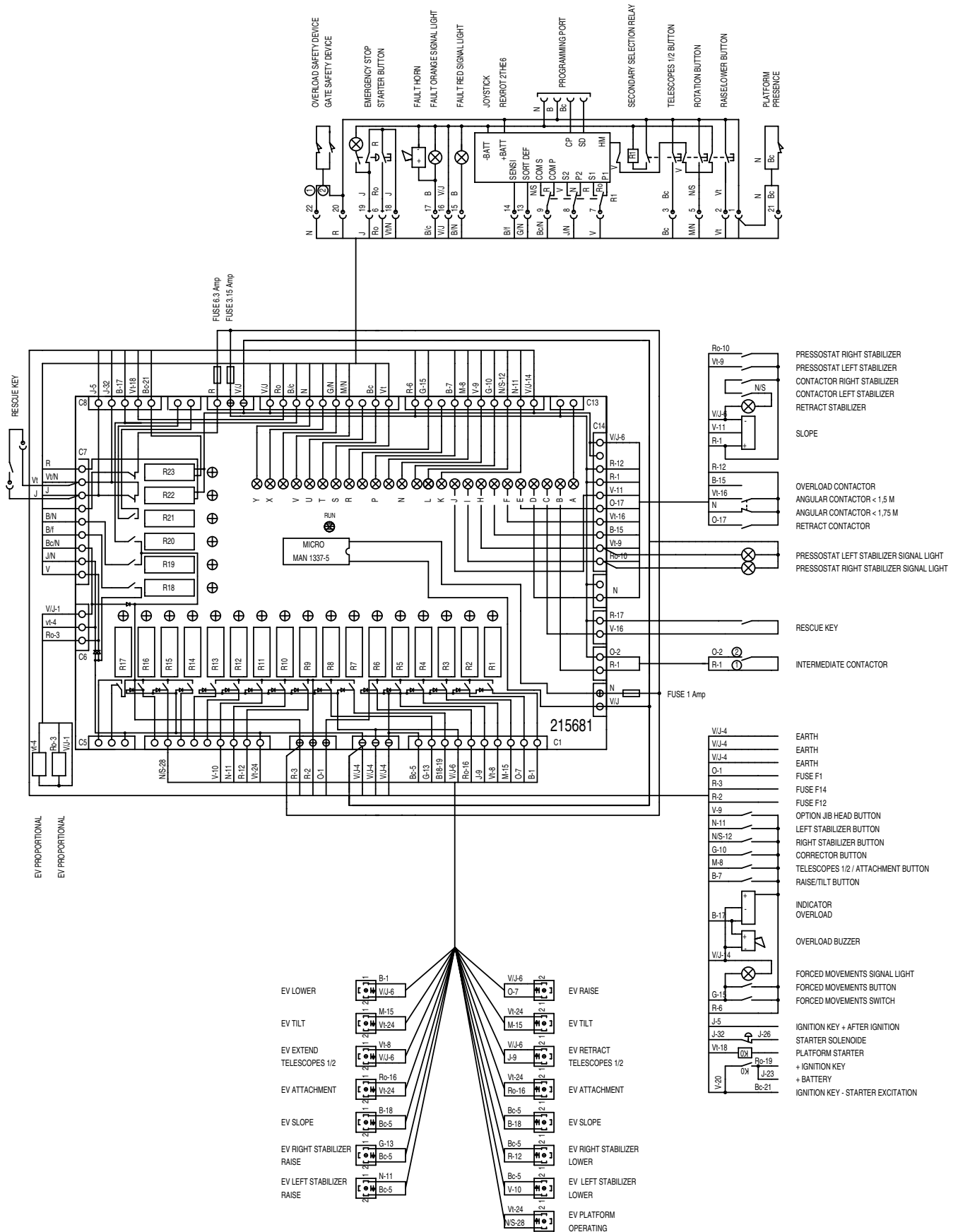
MT 1337 / 1637 SLT. MU NACELLE ORH

G1	- Battery 12V 105Ah	S24	- Transmission cut-off switch to brake pedal
G2	- Alternator 55A	S25	- Pedal transmission cu-off neutraliser switch
		S26	- Front wheels alignment switch
		S27	- Rear wheels alignment switch
		S28	- Cold start-up switch
H1	- Load indicator light	V1	- Fault test diode
H2	- Engine oil pressure indicator light	V2	- Diode (TUV version)
H3	- Brake fluid		
H4	- Air filter clogging indicator light	Y1	- Engine stop electrovalve
H5	- Engine water temperature indicator light	Y2	- Forward electrovalve
H6	- Flashing lights	Y3	- Reverse electrovalve
H7	- Hourmeter module lighting / gauge	Y4	- Cold start-up electrovalve
H8	- Transmission oil temperature		
H9	- Main beam indicator light		
H10	- Warning unit indicator light		
H11	- Front wheel alignment indicator light		
H12	- Transmission oil pressure		
H13	- Brake indicator light		
H14	- Rear wheels alignment indicator light		
K0	- Not used		
K1	- Transmission cut-off relay		
K2	- Forward relay		
K3	- Reverse relay		
K4	- Starter safety relay		
K5	- Forward movement pressure relay		
K6	- Blinking centre / warning		
K8	- Temporisation 3,5 s $\pm$ 0,5		
M1	- Starter		
M2	- Front windscreen wiper		
M3	- Windscreen washer		
M4	- Roof windscreen wiper		
M5	- Sound alarm		
M6	- Ventilator		
M7	- Machine fault warning		
M8	- Rear windscreen wiper		
M9	- Reverse gear sound alarm		
P1	- Hourmeter		
P2	- Fuel level		
R1	- Preheating resistor		
R2	- Fuel sensor		
S1	- Key switch		
S2	- Forward/reverse selector		
S3	- Engine oil pressure switch		
S4	- Brake fluid		
S5	- Air filter clogging		
S6	- Engine water temperature		
S7	- Brake switch		
S8	- Windscreen wiper / front windscreen washer switch		
S9	- Sound alarm control		
S10	- Wheel alignment switch		
S11	- Warning light switch		
S12	- Transmission oil pressure		
S13a	- Lighting switch (Pilot light)		
S13b	- Light switch (Low beam headlight / headlight)		
S13c	- Light switch (Blinker)		
S14	- Transmission cut-off switch		
S15	- Rear work light switch		
S16	- Stop switch		
S17	- Transmission oil temperature		
S18	- Front work headlight switch		
S19	- Revolving light switch		
S20	- Rear windscreen wiper / roof switch		
S21	- Ventilator switch		
S23	- Roof light switch		

ELECTRIC CONTROL BOX

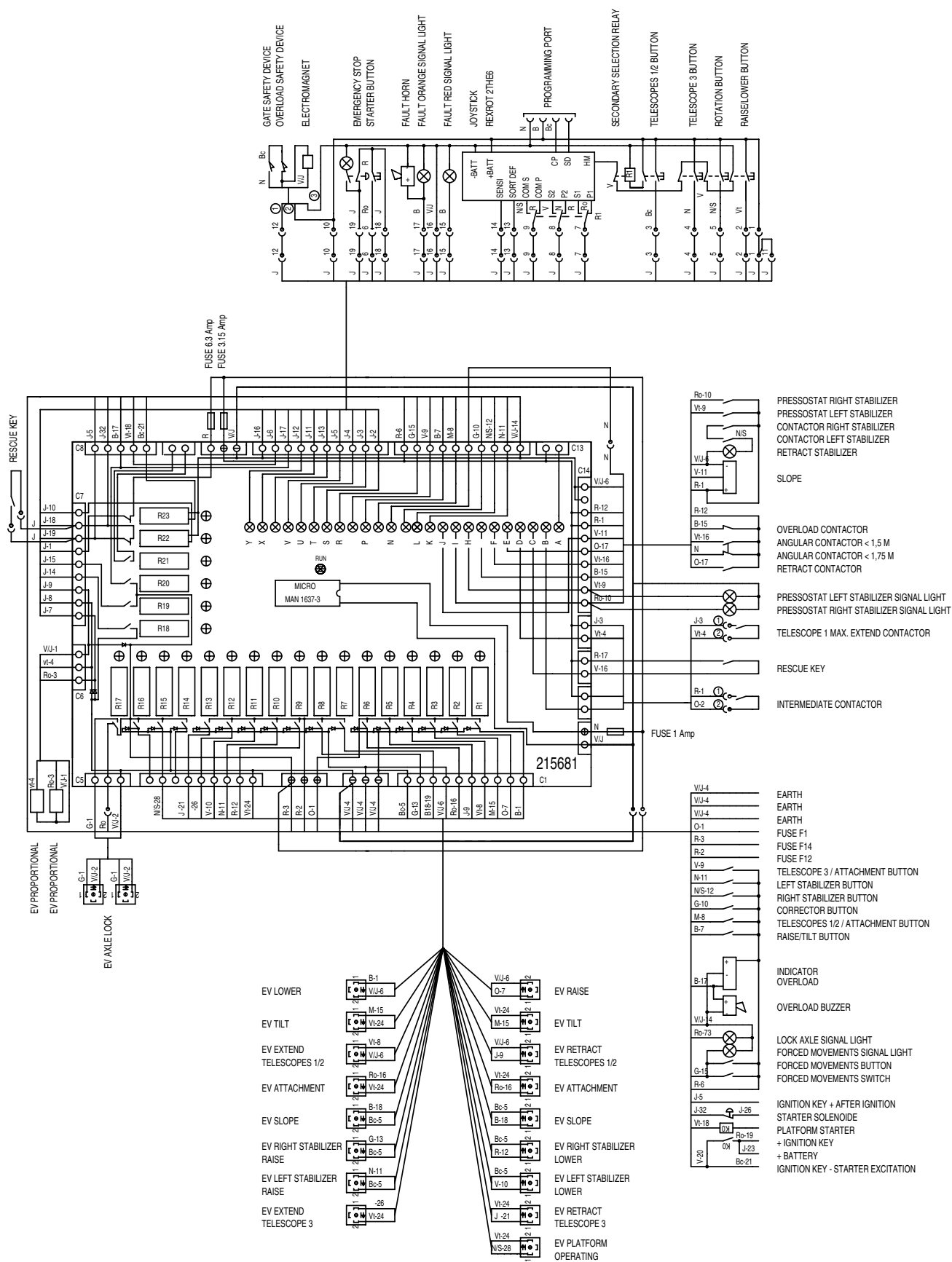
1st MOUNTING : MAN 1337-5

MT 1337 SLT MU ORH



ELECTRIC CONTROL BOX 1st MOUNTING : MAN 1637-3

MT 1637 SLT MU ORH



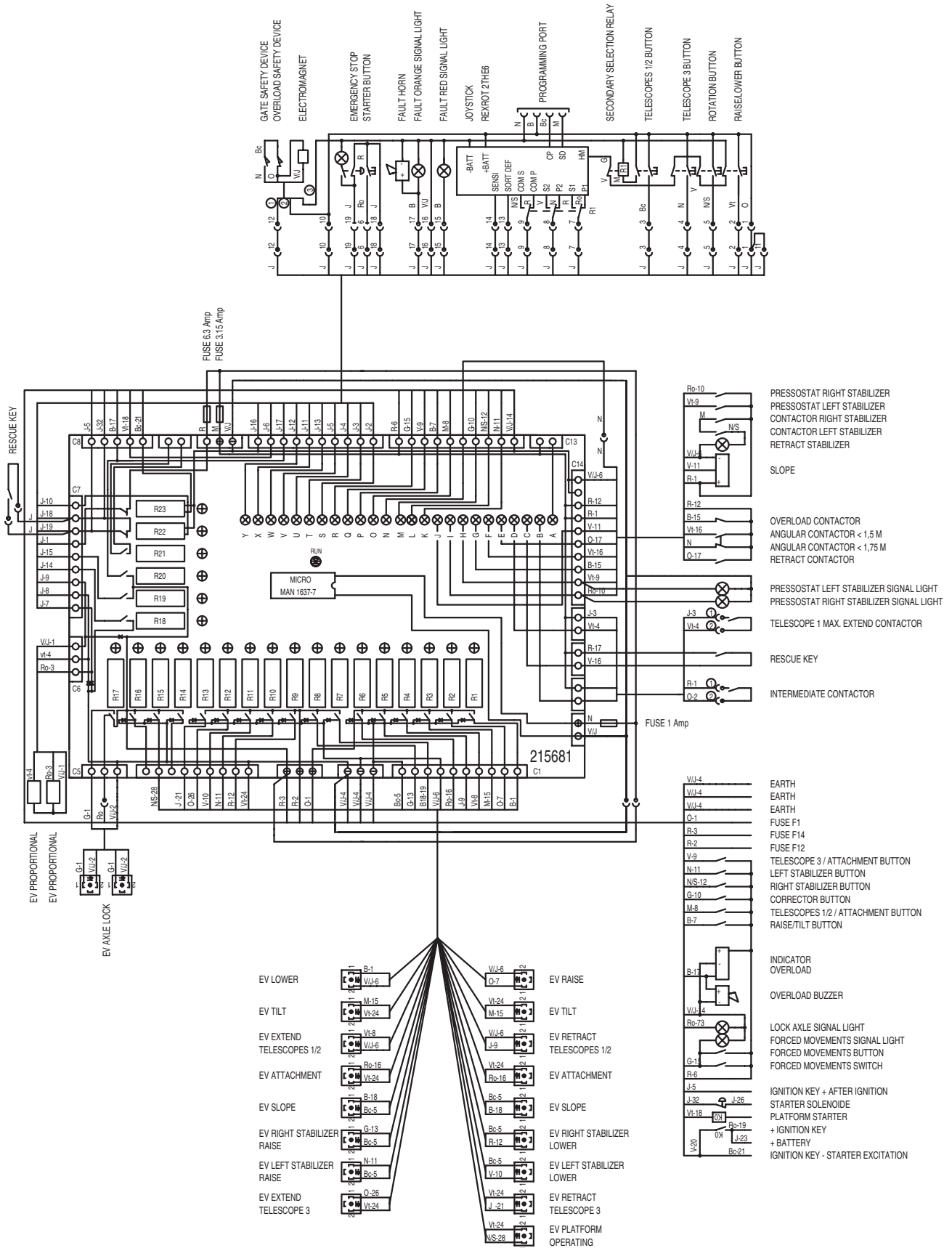
MT 1337 SLT MU ORH



ELECTRIC CONTROL BOX

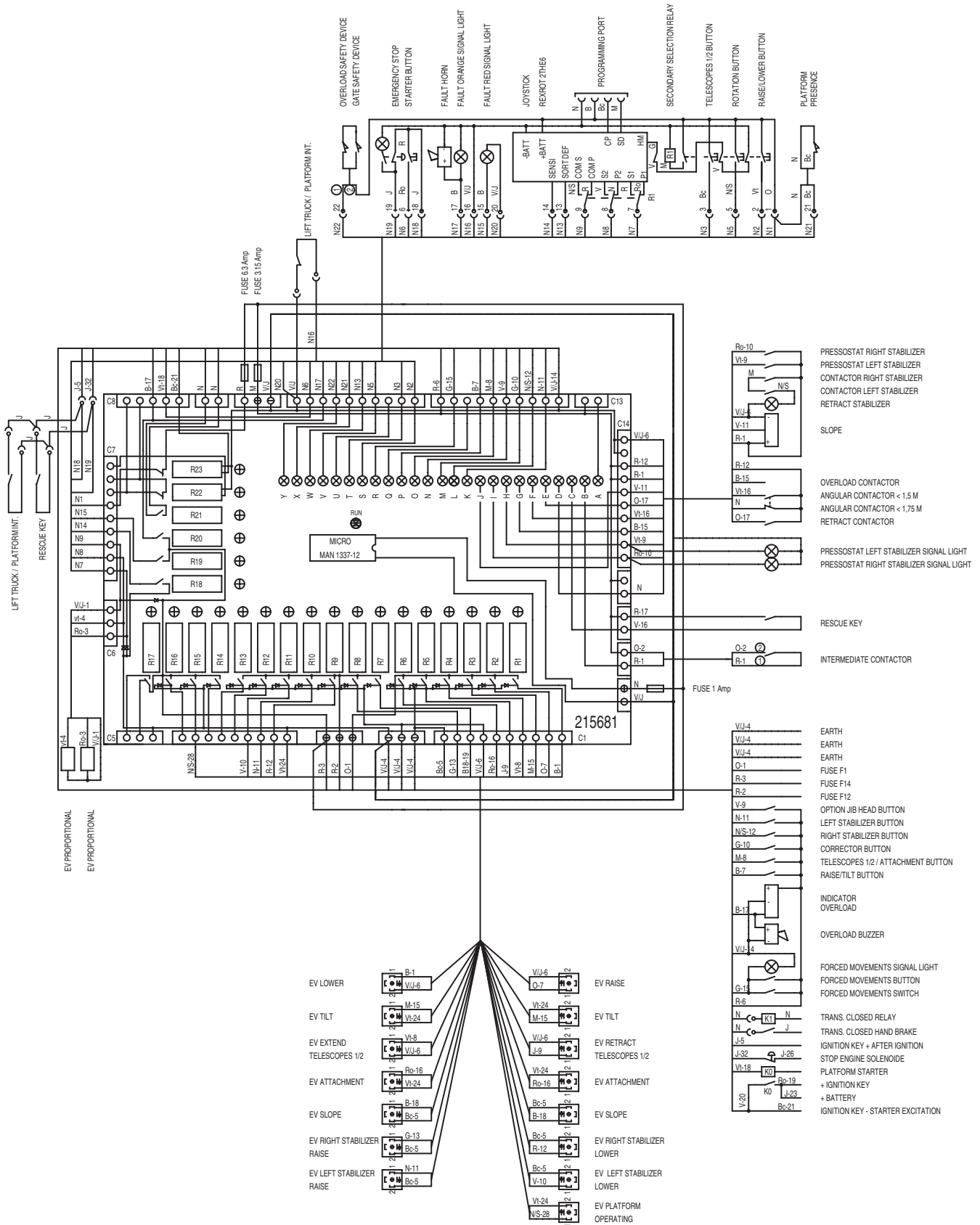
2nd MOUNTING : MAN 1637-7

MT 1637 SLT MU ORH



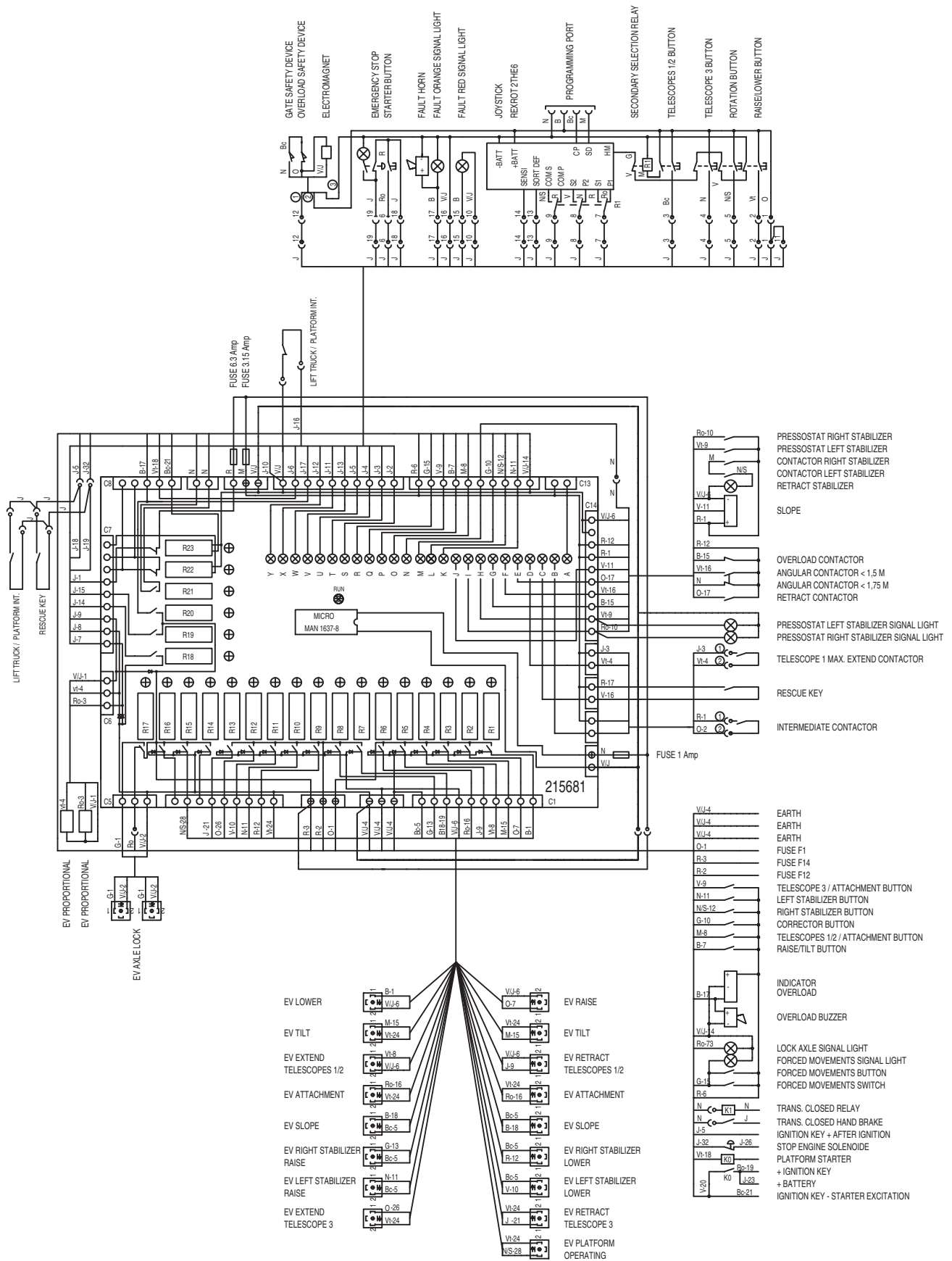
ELECTRIC CONTROL BOX 3rd MOUNTING : MAN 1337-12

MT 1337 SLT MU ORH



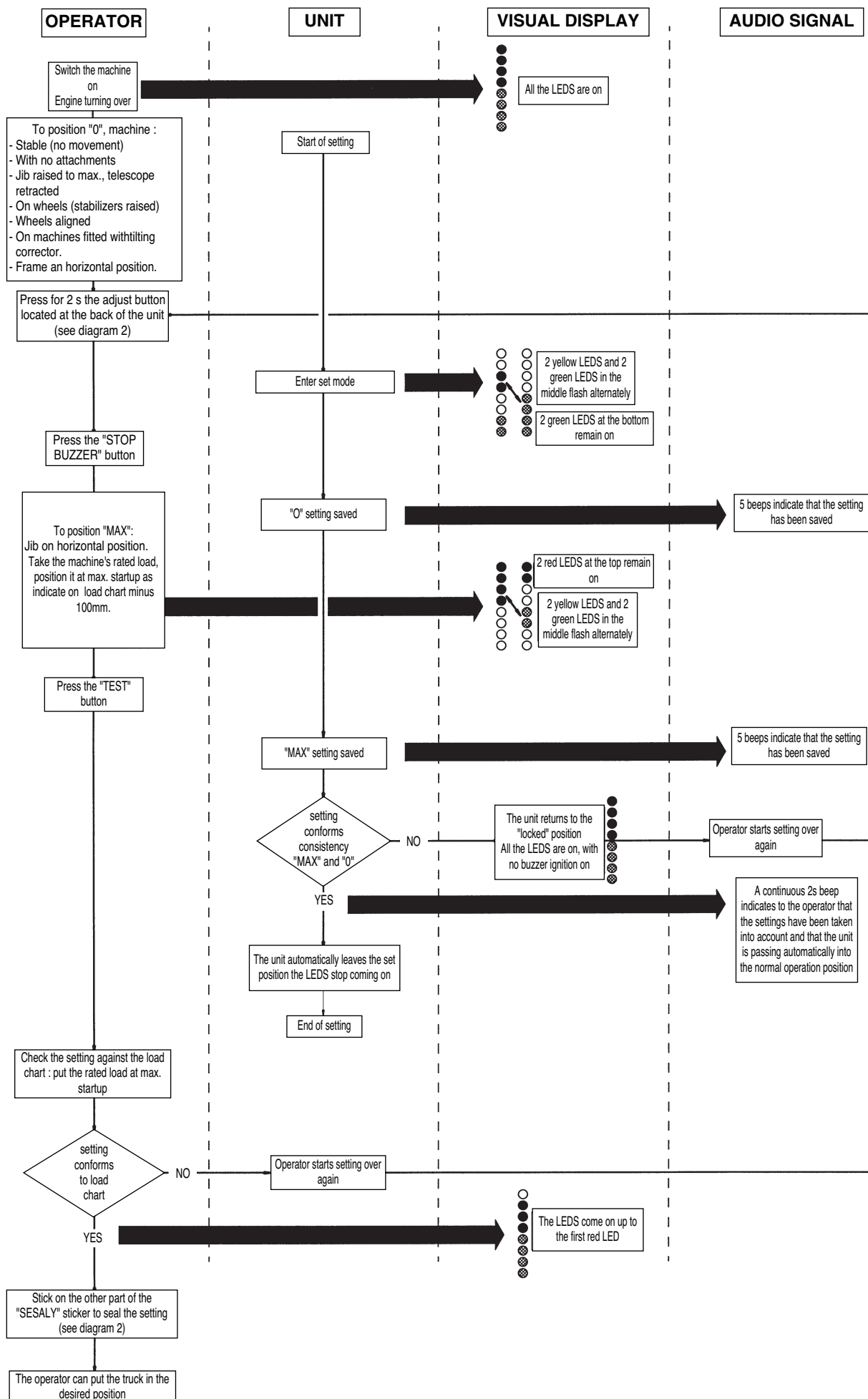
ELECTRIC CONTROL BOX 3rd MOUNTING : MAN 1637-8

MT 1637 SLT MU ORH



***OPERATING AND SETTING OF THE
LONGITUDINAL STABILITY ALARM
80-8-80EN***

OPERATING AND SETTING OF THE LONGITUDINAL STABILITY ALARM

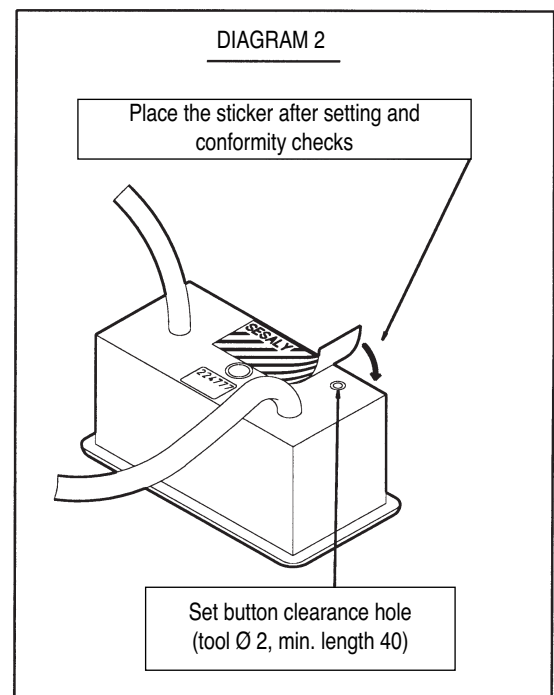
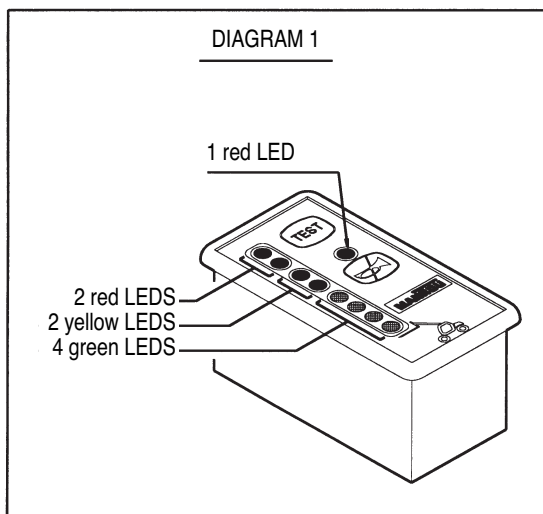



WARNING

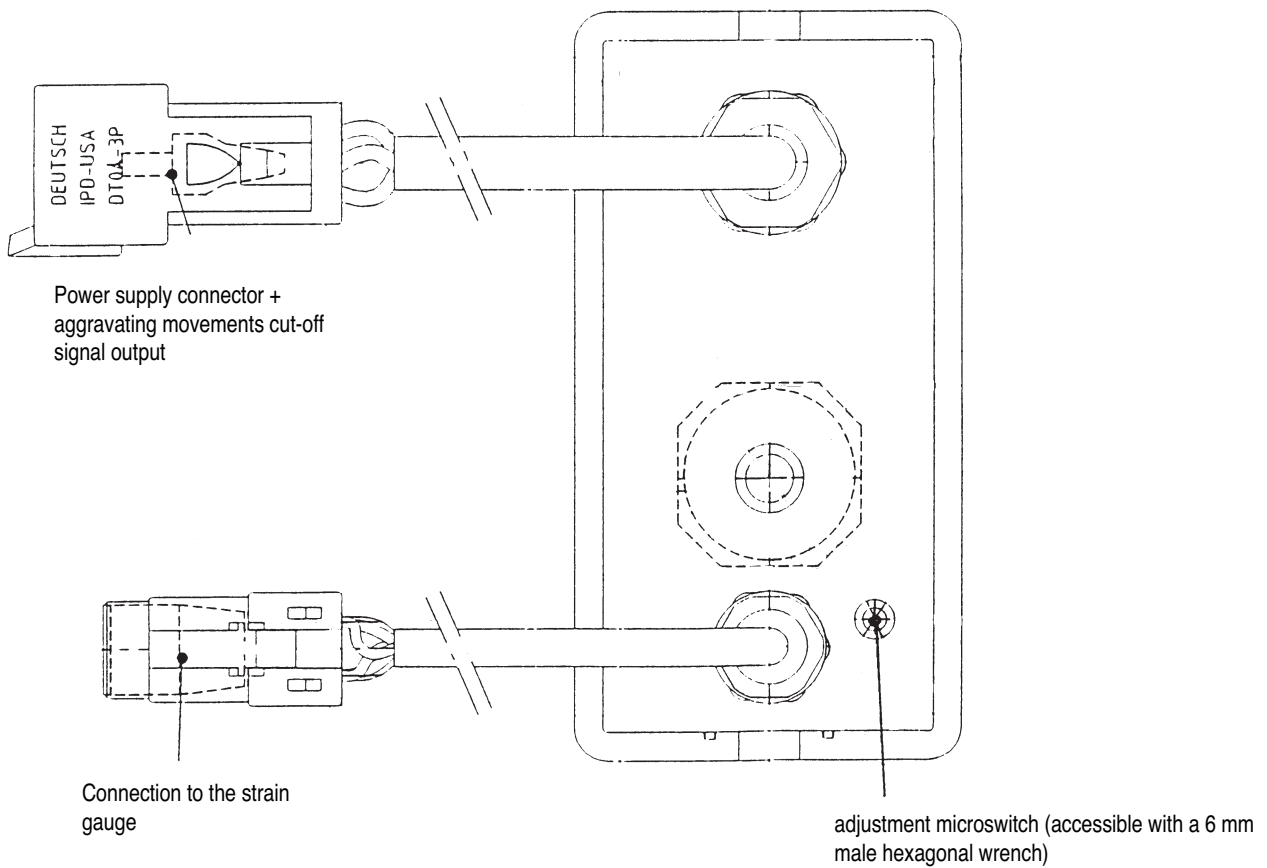
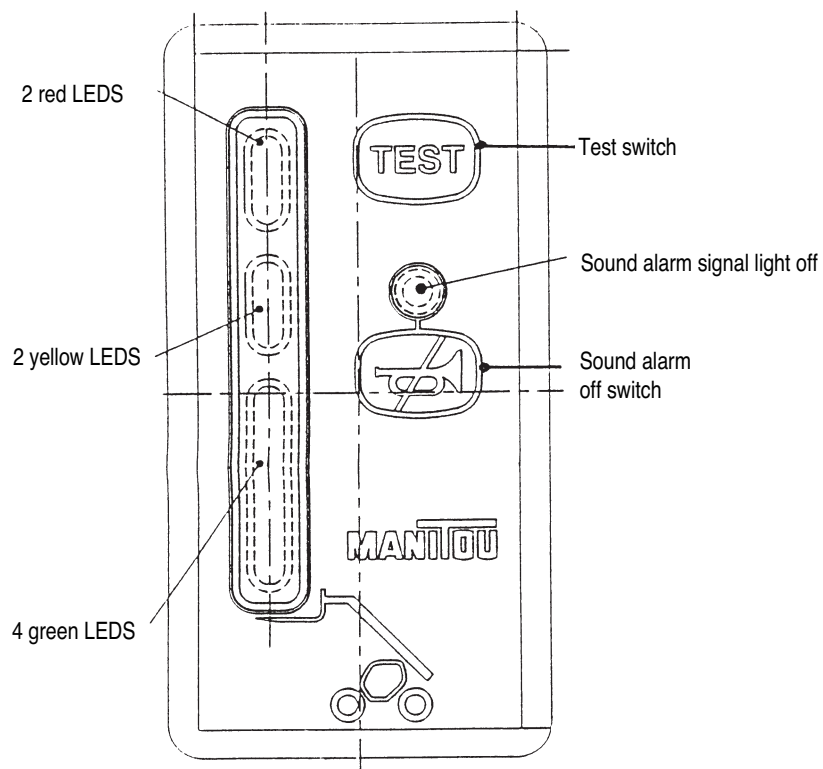

- 1 - This setting must be made with the rear axle assembly at a stable temperature.
Do not carry out after braking tests as the temperature difference between the axle assembly and the gauge would disturb the setting.

- 2 - Before setting the unit, it is important to operate the machine for placing the strain gauge (for example, when testing the machine, in which case make sure to comply with point N° 1).

- 3 - Last checking of setting must be done before forwarding the machine



SAFETY SYSTEM



INSPECTION PROCEDURE FOR THE LONGITUDINAL STABILITY ALARM STRAIN GAUGE

Connector engineering :

+ power supply	red wire / contact N° 1
- power supply and PT 100	brown wire / contact N° 2
+ measurement	yellow wire / contact N° 3
- measurement	green wire / contact N° 4
PT 100	blue wire / contact N° 5
Shielding	white / contact N° 6

Prior to any electrical inspection, carry out a visual check on the state of the gauge and its connections

Electrical Inspection

Disconnect the gauge from the electrical circuit.

Use a multimeter to take the following measurements :

- Measure the impedance between A+(m) and A-(bc) = Z power (power supply impedance)
Values : $300\Omega \leq Z \text{ power} \leq 400\Omega$
- Measure the impedance between M+(v) and M-(j) = Z meas. (measuring system impedance)
Values : $300\Omega \leq Z \text{ power} \leq 400\Omega$
- Measure the impedance between A- (bc) and PT 100(g) = Z PT100
Values : $101\Omega + 0.39 \times T$ T corresponds to the gauge temperature.
Example : $T=20^{\circ}\text{C}$ then $Z \text{ PT } 100 = 101\Omega + 7.8\Omega = 109\Omega$
- Measure the impedance between A+ (m) and shielding : Zbl
 $Z_{bl} > 30 \text{ M}\Omega$ (infinite resistance or open circuit)
- Measure the impedance between A+ and the machine frame : Z frame
 $Z \text{ frame} > 30 \text{ M}\Omega$ (infinite resistance or open circuit)

Description of the connectors of strain gauge.

