

CODE	DESCRIPTION
ALIM	FEED GENERAL CONTROL PANEL
FUSE	PROTECTION FUSE 5A
AR1	CRANE WINDING
AR2	EXTENSION WINDING
AV	ACOUSTIC ALARM
D1-D2	ROTATION CONSENT DIODES
D3	POLARITY PROTECTION DIODE
D4/D5	LIFTING MOMENT LIMITING DEVICE DIODES
D6/D7	LAMPS TEST DIODES
D8/D9	NOT BACK DIODES
DR	ELECTRIC ROTATIONING DISTRIBUTOR
EV1	ELECTROVALVE FOR LIMITING GENERAL PRESSION
EV2	ELECTROVALVE FOR LIFTING BLOCK LIMITING DEVICE
EV3	ELECTROVALVE FOR DESCENTS BLOCK LIMITING DEVICE
EV4	ELECTROVALVE FOR CRANE LIFTING MOMENT LIMITING DEVICE OF THE TWO WORKING ZONES
EV5	ELECTROVALVE FOR DOUBLE LIFTING MOMENT LIMITING DEVICE ON EXTENSION
EV6	EMERGENCY ELECTROVALVE
EV7	CLOCKWISE BLOCK ELECTROVALVE
EV8	ANTICLOCKWISE BLOCK ELECTROVALVE
EV9	WINCH DESCENT BLOCK ELECTROVALVE
EV10	SEQUENCE ELECTROVALVE
EV11	MAIN SEQUENCE BLOCK ELECTROVALVE
IP1	TIME ROTATION PROXIMITY DEVICE
IP2	ANTICLOCKWISE ROTATION PROXIMITY DEVICE
SIP	SEAT PROXIMITY SHUNT BOX
LB	WHITE WARNING LIGHT
LG1	YELLOW WARNING LIGHT FOR MAIN PANEL 90% LOAD REACHING
LG2	YELLOW WARNING LIGHT FOR DOUBLE CONTROL SATELLITE 90% LOAD REACHING
LGE	YELLOW WARNING LIGHT REMOTE CONTROL 90% LOAD REACHING
LR1	RED WARNING LIGHT FOR CONTROL PANEL BLOCK
LR2	RED WARNING LIGHT FOR DOUBLE CONTROL SATELLITE BLOCK
LP	ENERGY WINKING LIGHT
MB	LIMITING DEVICE MICRO VALVE
MS	MERCURY SLOPE SENSORS ON OUTER BOOM
P1	90% LOAD PRESSURE DETECTOR
P3	ROTATION CONTROL PRESSURE DETECTOR
C1	BLOCK LATE CAPACITOR
MR1	CLOCKWISE ROTATION RELAY
MR2	ANTICLOCKWISE ROTATION RELAY
MR3	BLOCK LATE RELAY
MR4	WINCH RELAY
SE	SEQUENCE SHUNT BOX
MSE	SEQUENCE MICRO
LCV	WINCH LOAD LIMITING DEVICE
MV1	PULLEY MICRO WINCH
MV2	DRUM MICRO WINCH
PE1	CONTROL PANEL EMERGENCY BUTTON
PE2	DOUBLE CONTROL SATELLITE EMERGENCY BUTTON
PEE	REMOTE CONTROL EMERGENCY BUTTON
PC1	ACOUSTIC WARNING BUTTON FOR CONTROL PANEL
PC2	ACOUSTIC WARNING BUTTON FOR DOUBLE CONTROL SATELLITE
PCE	ACOUSTIC WARNING BUTTON FOR REMOTE CONTROL
SAT2	DOUBLE CONTROL SIDE SATELLITE
SAT. EC	DOUBLE CONTROL SATELLITE CABLE
ON1	REMOTE CONTROL SUPPLEMENTARY ACTIVATION
ON2	REMOTE CONTROL SUPPLEMENTARY ACTIVATION
ACC+	REMOTE CONTROL SUPPLEMENTARY ACTIVATION
ACC-	REMOTE CONTROL SUPPLEMENTARY ACTIVATION

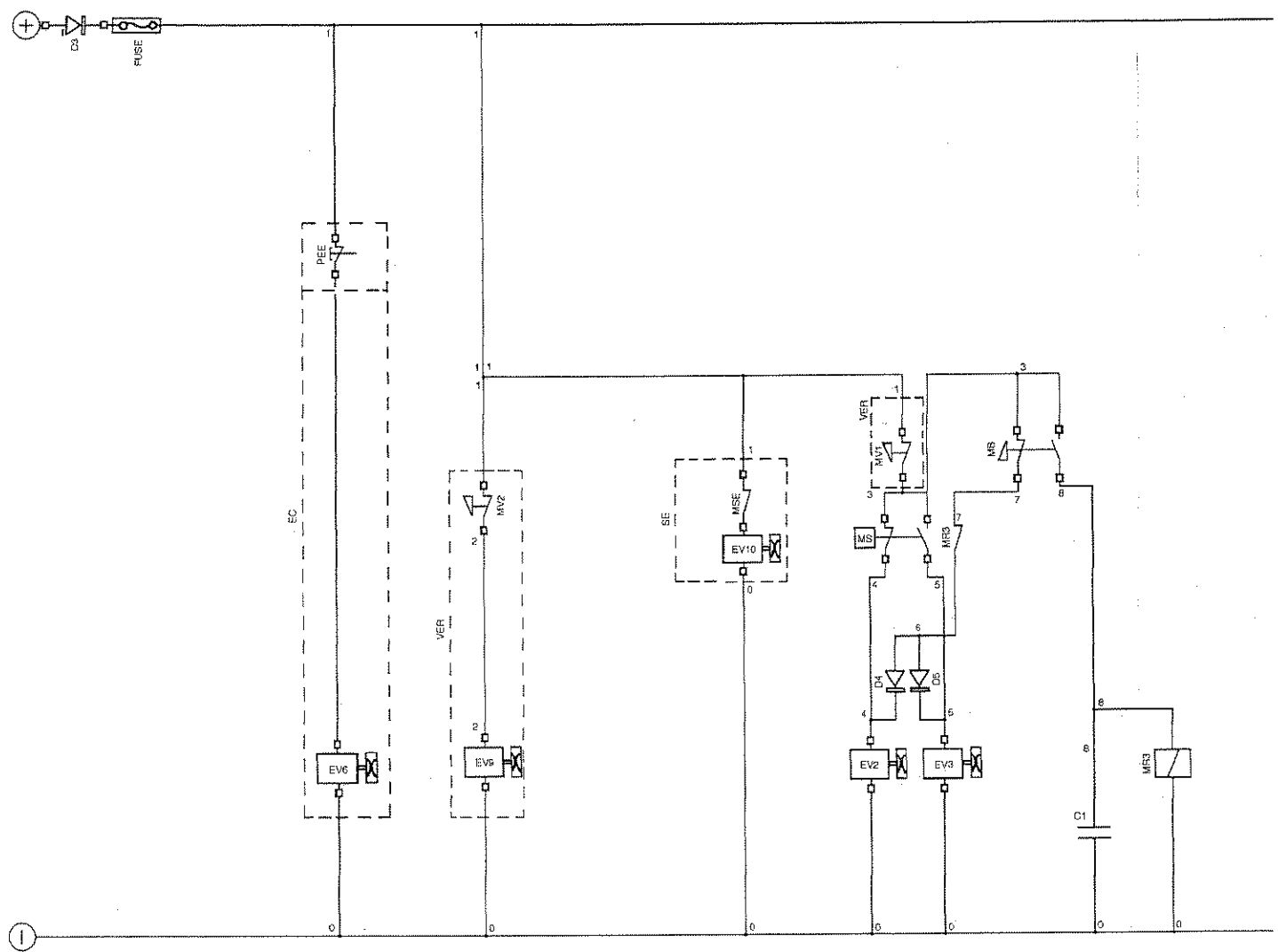


fig. 45

CODE	DESCRIPTION
ALIM	FEED GENERAL CONTROL PANEL
AR1	CRANE WINDING
AR2	EXTENSION WINDING
EV10	SEQUENCE ELECTROVALVE
EV2	ELECTROVALVE FOR LIFTING BLOCK LIMITING DEVICE
EV3	ELECTROVALVE FOR DESCENTS BLOCK LIMITING DEVICE
EV6	EMERGENCY ELECTROVALVE
EV9	WINCH DESCENT BLOCK ELECTROVALVE
D3	POLARITY PROTECTION DIODE
D4/D5	LIFTING MOMENT LIMITING DEVICE DIODES
DR	ELECTRIC ROTATIONING DISTRIBUTOR
SE	SEQUENCE SHUNT BOX
SAT. EC	DOUBLE CONTROL SATELLITE CABLE
MR3	BLOCK LATE RELAY
MS	MERCURY SLOPE SENSORS ON OUTER BOOM
MSE	SEQUENCE MICRO
MV1	PULLEY MICRO WINCH
MV2	DRUM MICRO WINCH
MB	DRUM MICRO WINCH
C1	BLOCK LATE CAPACITOR

control panel cover

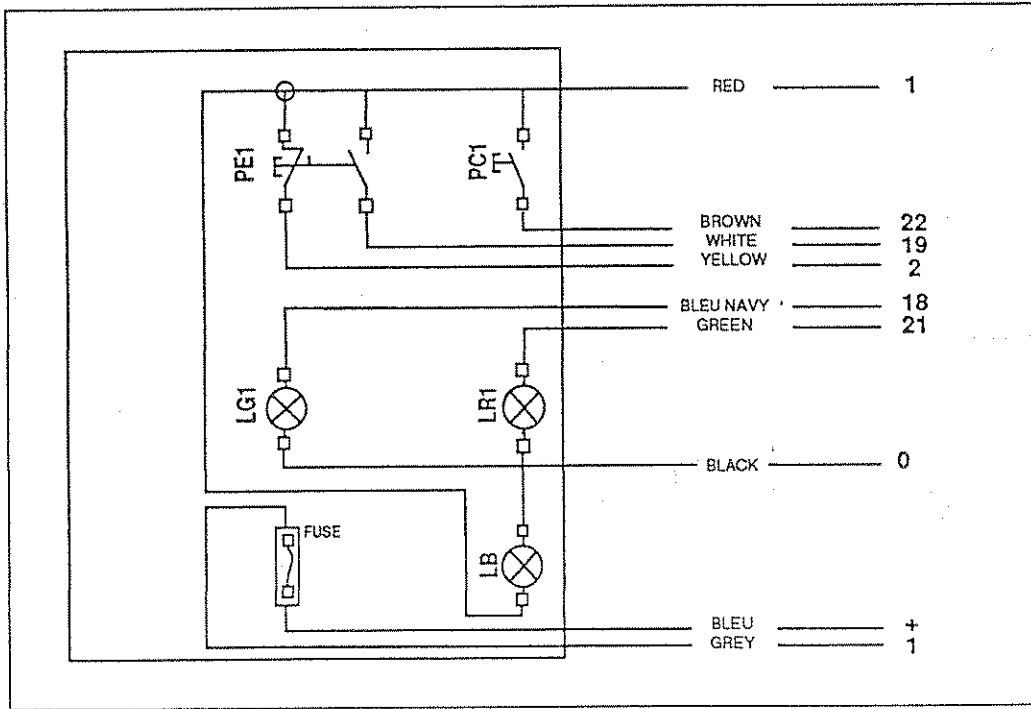


fig. 46

double control satellite

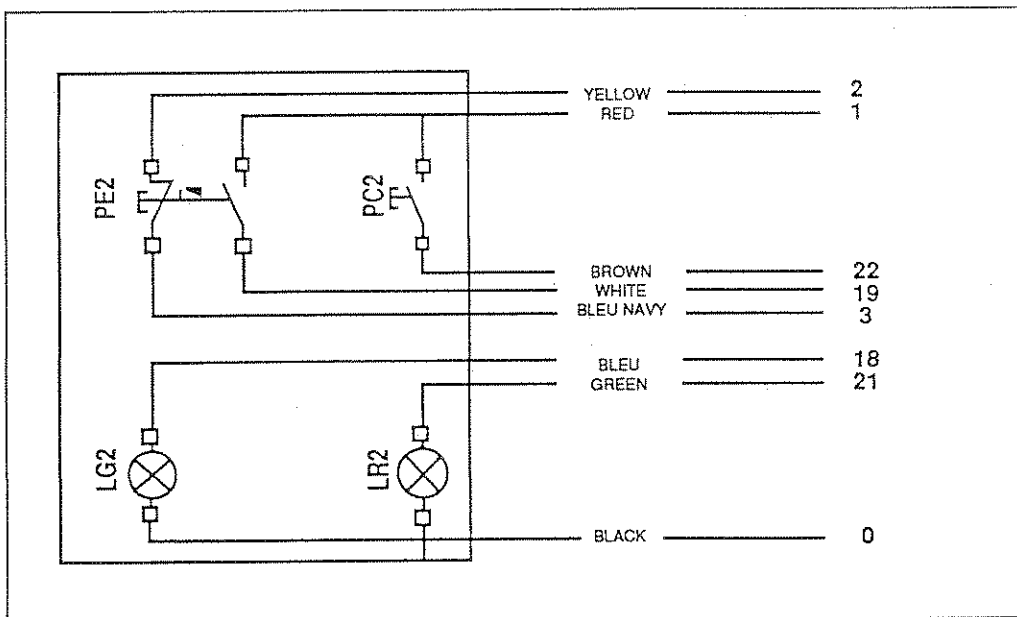


fig. 47

**TABLE OF THE HYDRAULIC AND LUBRICANT CHARACTERISTICS**

**HYDRAULIC OIL**

External temperature:

		Classification	ISO - L - HM
- 30°C ≤ - 10°C		Grade	ISO VG 46
≤ - 5°C	up to +35°C	"	ISO VG 68
> +35°C		"	ISO VG 100

**HYDRAULIC OIL FOR MOTOREDUCTOR**

		Classification	ISO - L - CC
- 30°C ≤ - 10°C		Grade	EP ISO VG 150

**GREASE**

Consistency:	NLGI	EP 2	EP 3
--------------	------	------	------

**(!) WARNING (!)**

Do not use greases with solid particles as "Bisulphide of Molybdenum"



**FASSI** GRU IDRAULICHE SpA  
24021 ALBINO (BG) ITALY - Via dei Carmelitani, 2  
Tel. + 39 35 77.40.00 - Fax + 39 35 75.50.20

**INSTRUCTIONS FOR SAFE USE OF THE CRANE**

DE/ITA

- 1 Only authorized persons are permitted to operate the crane.
- 2 The crane must be used on firm, level ground.
- 3 Check that the vehicle hand brake is on and that the wheels are chocked.
- 4 Before operation make sure that:
  - no-one is within the working area of the crane;
  - the safety devices are in place and operative;
  - the minimum safe working distances from power lines are observed.
- 5 Stabilize the vehicle with the outriggers, making sure that:
  - the lateral supports are fully extended;
  - the wheels are in contact with the ground and the suspension is not completely unloaded;
  - the outriggers safety taps are closed.
- 6 Use the crane in accordance with the use and maintenance manual, making sure that:
  - the load and radii are within the maximum limits shown on the crane capacity plate;
  - the crane is used progressively avoiding sudden load movements;
  - swinging or dragging of the load is avoided;
  - the load is lifted before rotating.
- 7 When using implements protect the working area with a barrier.
- 8 The vehicle/crane are not left unless the power take off is disengaged and the load is on the ground.
- 9 Before driving the vehicle ensure that the outriggers are fully retracted and re-entered, the safety taps closed and the crane is in the folded position.

**DE 1771**

**FASSI** GRU IDRAULICHE

**- ATTENZIONE: PRIMA DI AZIONARE LA GRU È OBBLIGATORIO METTERE IN OPERA GLI STABILIZZATORI E CHIUDERE I RUBINETTI DELLE VALVOLE DI BLOCCO.**

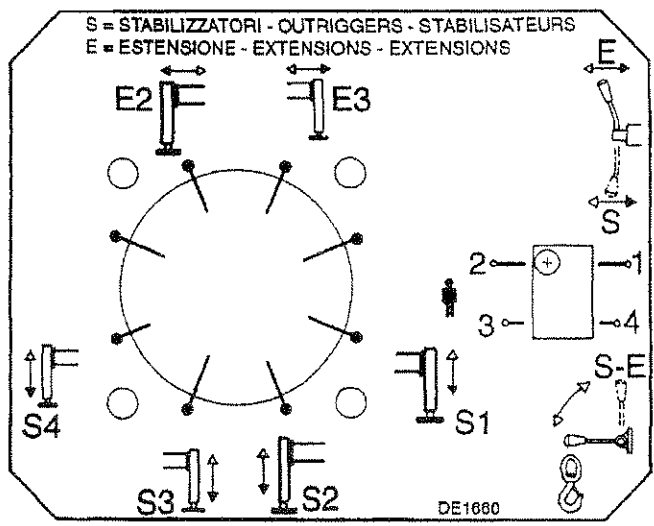
**- WARNING: BEFORE OPERATING THE CRANE IT IS COMPULSORY TO EXTEND THE OUTRIGGERS AND SHUT THE BLOCK VALVE TAPS.**

**- ATTENTION: AVANT D'UTILISER LA GRUE IL EST OBLIGATOIRE DE METTRE EN FONCTION LES STABILISATEURS ET FERMER LES ROBINETS DES VALVES DE BLOCAGE.**

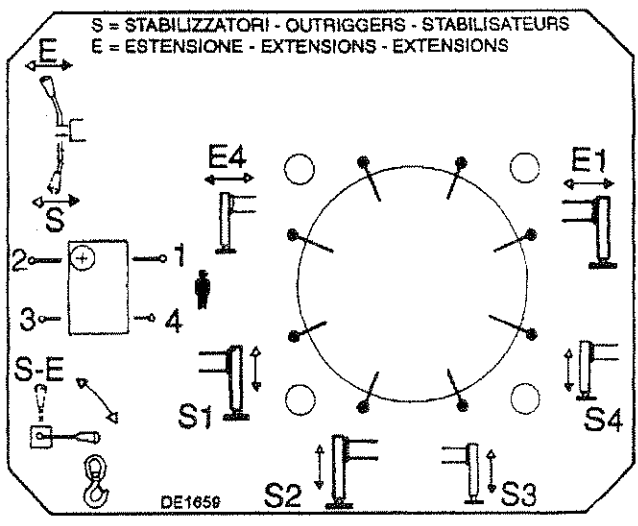
**- ACHTUNG: VOR INBETRIEBNAHME DES KRANS MÜSSEN DIE ABSTÜTZUNGEN AUSGEFAHREN UND DIE ABSPERRVENTILE GESCHLOSSEN WERDEN.**

DE319

**DE 319**



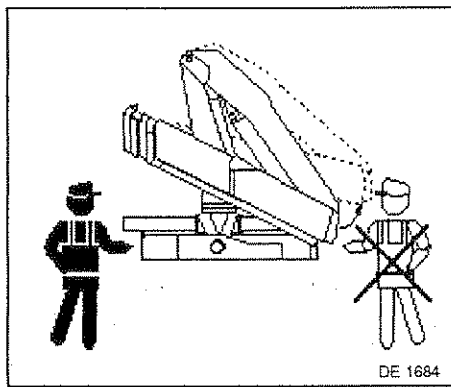
**DE 1659**



**DE 1660**

Instruction plates to stabilize the vehicle





**DE 1684**

Do not operate from the double control side to unfold or fold the crane



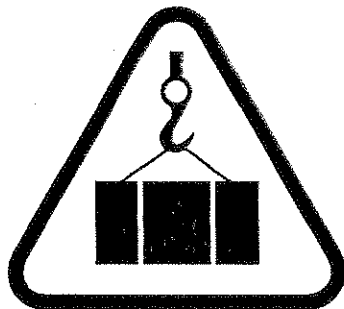
**DE 1681**

Greasing points with brush



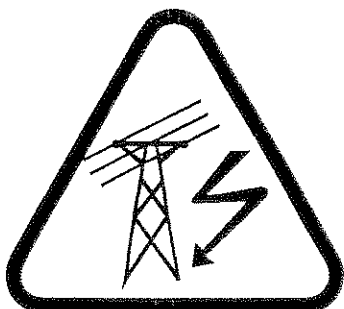
**DE 1682**

Greasing points at pressure



**DE 1686**

Do not walk or stop under a suspended load



**DE 1683**

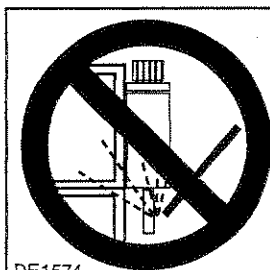
Do not operate in proximity of electric high-tension lines



**DE 1679**  
Do not walk on...



**DE 1680**  
Do not use water to extinguish fire



DE1574

TIRANTI:	NON SALDARE!
FIXING ROD:	DO NOT WELD!
TIRANTS:	NE PAS SOUDER!
ZUGSCHRAUBEN:	NICHT SCHWEISSEN

**DE 1574**

# CAPACITY PLATES

For cranes and manual extensions.

The represented plates refer to the nominal design capacities.

**(!) WARNING (!)**



Manual extensions are not protected by the lifting moment limiting device.

Before lifting the load make sure that its weight does not exceed the capacity indicated on the extension.

**! WARNING !**

If the capacities are downgraded or partially reduced (e.g. sector in front of vehicle cab) capacity plates must be applied in line with the final test figures.

**! NOTE !**

The maximum load of the hook  fitted on the last extension boom section is T8. Charge over T8 must be suspended on the hook  15t capacity, fitted on the 4th extension boom section.

