

CEM 20-35 AC (MEGA-AC)



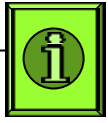
Version. 1.0

Service Training

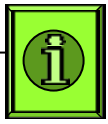


Index:
 Basic
 Electric
 Hydraulic
 Adjustments
 Search for failures

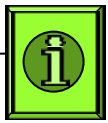
Functions



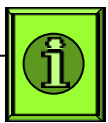
Components



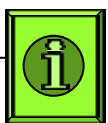
Motor basic



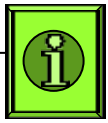
Dash board



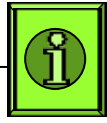
Mechanic



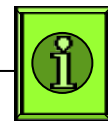
Options



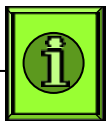
Index



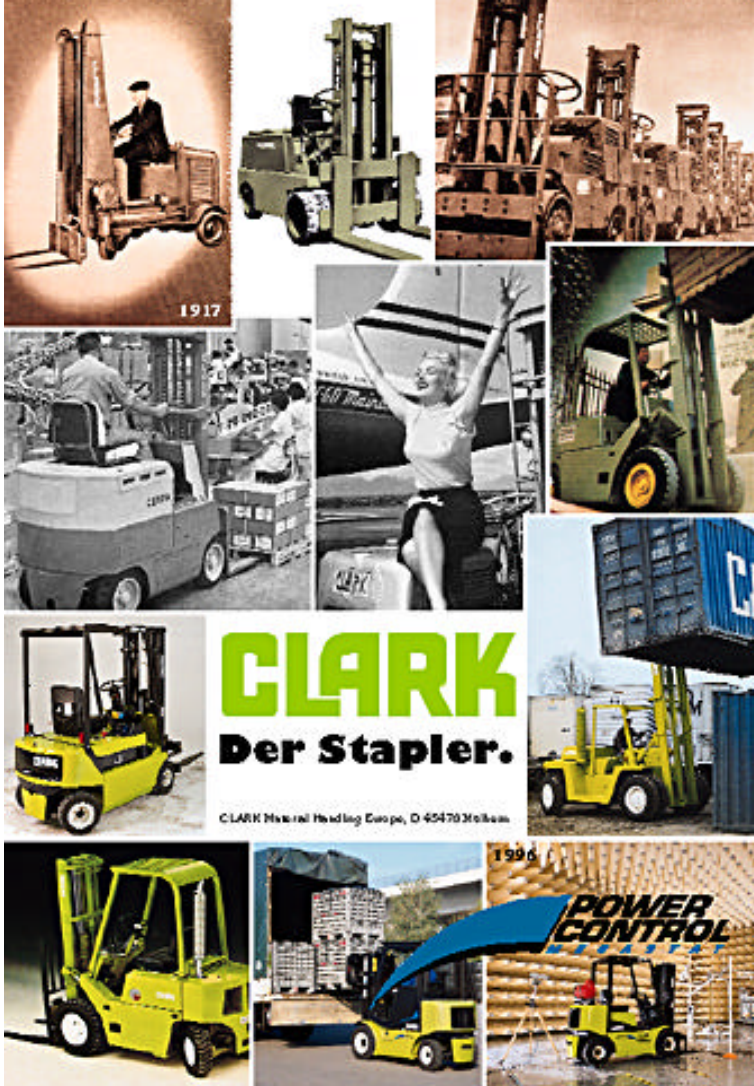
Structure



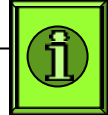
Help



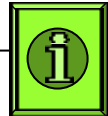
Functions



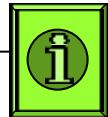
Diagnose controller



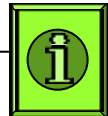
Wiring diagram



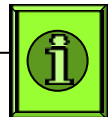
Harness



Self-diagnose



Search for failures



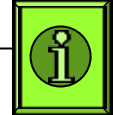
Main menu



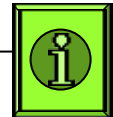
Wiring diagram



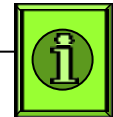
Power supply



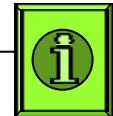
Capacity part



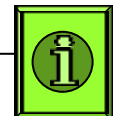
Drive functions



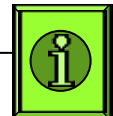
Hydraulic functions



Supervision functions



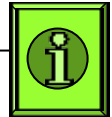
Complete wiring diagram



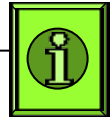
Self-diagnose



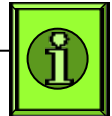
Capacitor test



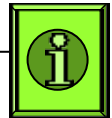
Tension test



MC-Coil test









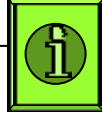
Turn on MC-conductor



Diagnose Controller

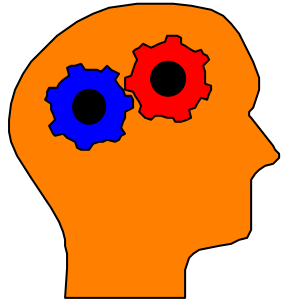









**POWER
CONTROL**
M e g a C

- Test-items 
- Lists of failures 
- Parameter pump 
- Parameter drive 
- Plug pump 
- Plug drive 
- Plug arrangement 

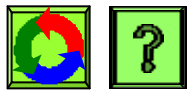


Mechanic



- Hydraulic Components — 
- Hydraulic Function — 
- Hydraulic Plan — 
- Steering Components — 
- Steering Function — 
- Brake Components — 
- Brake Function — 





CEM 20-35 AC Error memory traction control		12.5.1999



Error memory traction control

CEM 20-35 AC Error memory traction control		12.5.1999
Designation	Code	
Pedal > 1V when MS1 is closed	A50 !! PEDAL !!	

The nominal value for the speed is greater than 1V when microswitch MS1 (in the travel pedal) closes.

So that the unit does not start with a jerk, the software launches into the fault routine.

" !! Driving pedal !! " appears on the display. A50 is entered in the fault memory. The most frequent cause is the actuation of the travel pedal whilst switching on with the key-operated switch.

Error memory traction control

CEM 20-35 AC Error memory traction control		12.5.1999
Designation	Code	
Pedal > 1V when MS1 is closed	A50	!! PEDAL !!
Current sensor incorrect value	A 51	

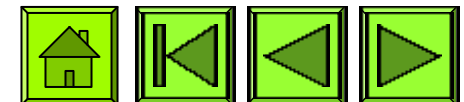
From software version 2.3, the current measuring circuit is monitored for internal interruptions. This monitoring only functions with an additional test lead (available in "new" control systems).

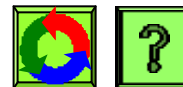
Monitoring can be switched off (0) or on (9) via the parameter "L12".

The control system recognises a current when the machine is stationary or no current during travel.

The value of the two current sensors is transmitted to the control system via plugs G and H.

When the motor is stationary, the voltage (plug pin with green cable) should be less than 0.1V.





Error memory traction control

CEM 20-35 AC Error memory traction control		12.5.1999
Designation	Code	
Pedal > 1V when MS1 is closed	A50	!! PEDAL !!
Current sensor incorrect value	A 51	
Capacitor charge	A 52	

After switching on the key-operated switch, the capacitors are charged with voltage (from pump control system plug pin PA15) via a charging resistor. The resistor is necessary for limiting the charge current, as the current is very high in the case of uncharged capacitors.

Within 0.3 seconds, the capacitor charge must have reached 30% of the battery voltage.

The advantages of pre-charging:

1. The control system can check the function of the capacitors.
2. If the contactor MC is switched on, the capacitors have already been pre-charged.

