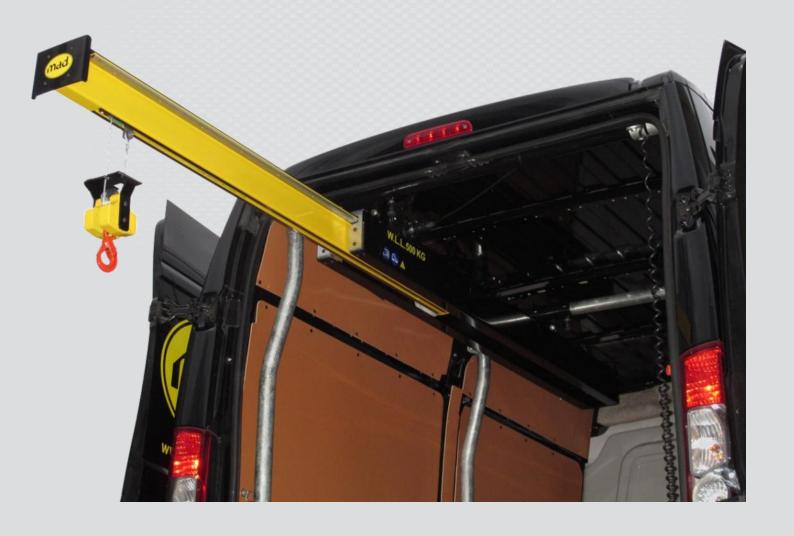


Service Manual EasyLoad





On the next pages we explain the Electrical system of the EasyLoad.

Also you wil find some service attention points





Sliding left right

Make sure the pins are in and working!!!

And fixed in the right position



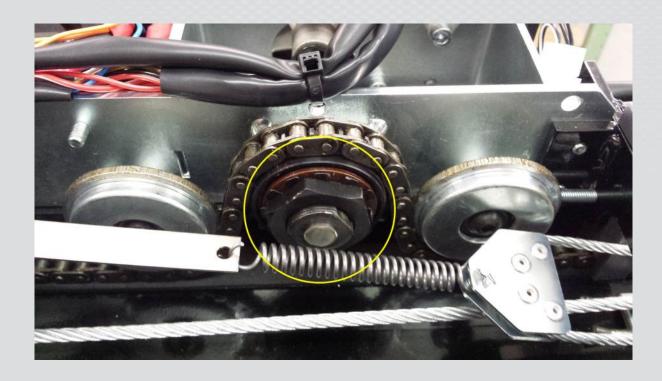


Moving in and out.

Make sure the clutch is working properly

The adjustment is sealed to prevent damage

You have to clean it when the fuses are blown when sliding in and out.



Partnumber:

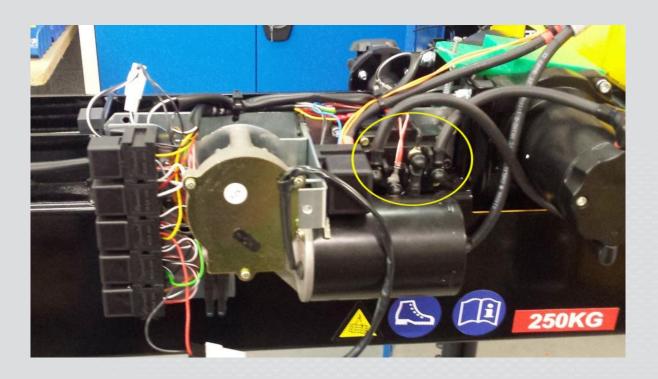
EC99007 clutch complete

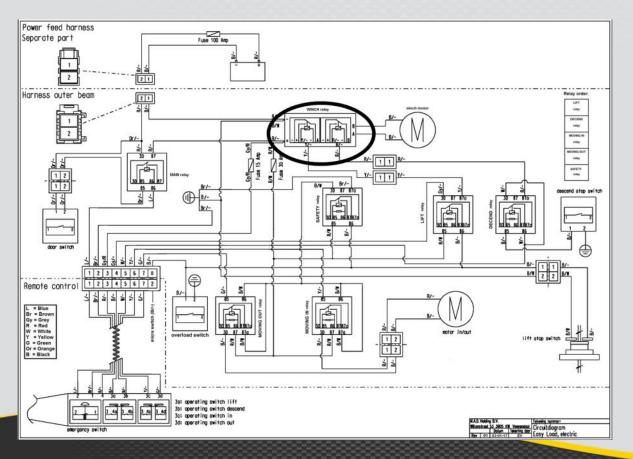
EC99015 SHAFT COUPLER 500KG



Winch Relay

This Relay switches between up and down.



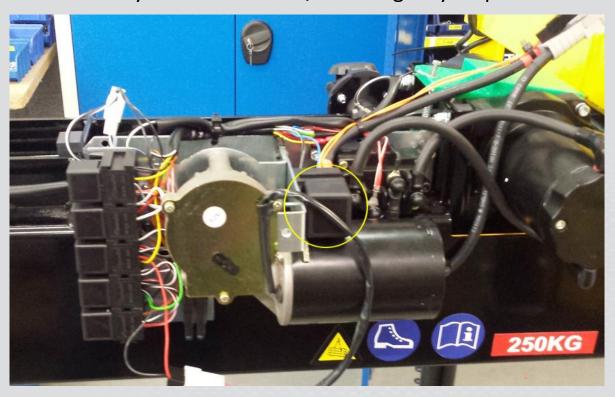


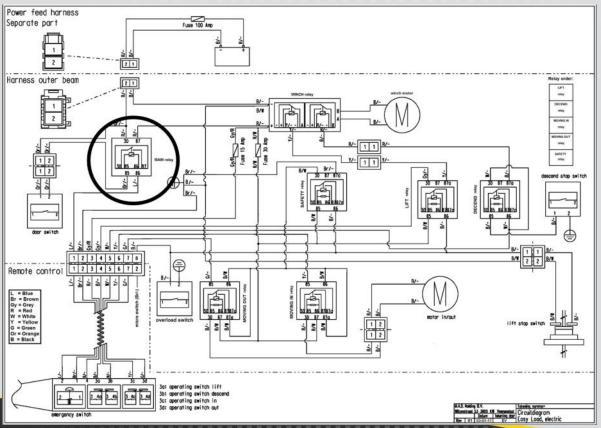


Main Relay

This Relay takes care of the 12V/24V power supply.

Controlled by door switch and/or emergency stop

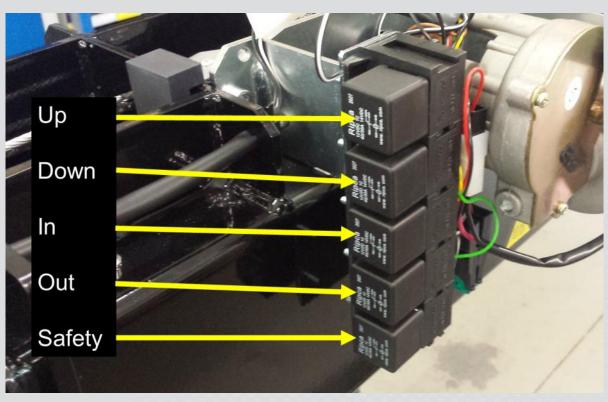


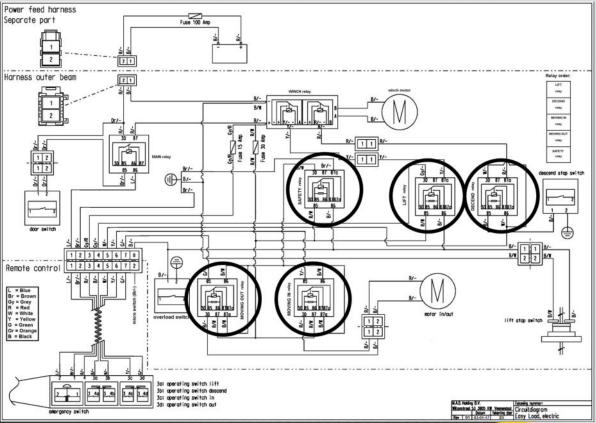




Relays, 5 pin.

Switch Up, Down, In, Out and stop.

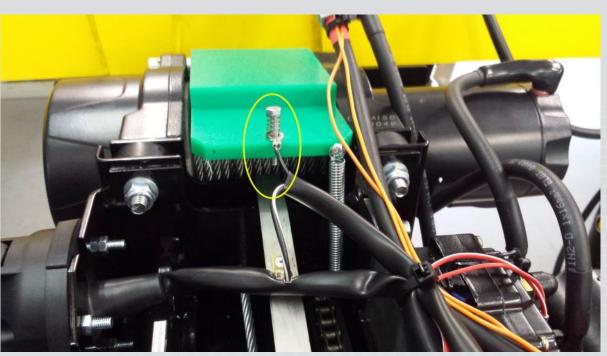


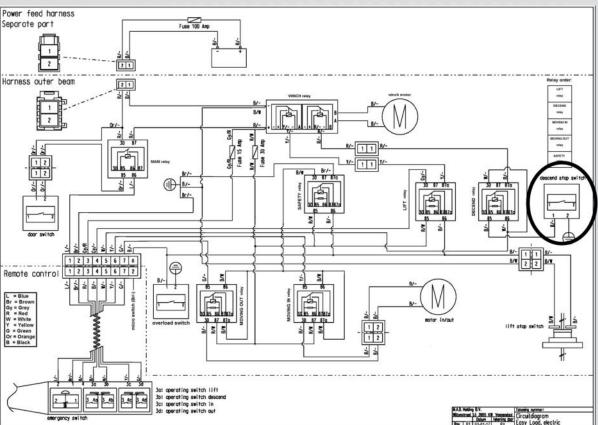




Safety switch winch

This switch ensures that one layer of cable will always remain on the drum of the winch.

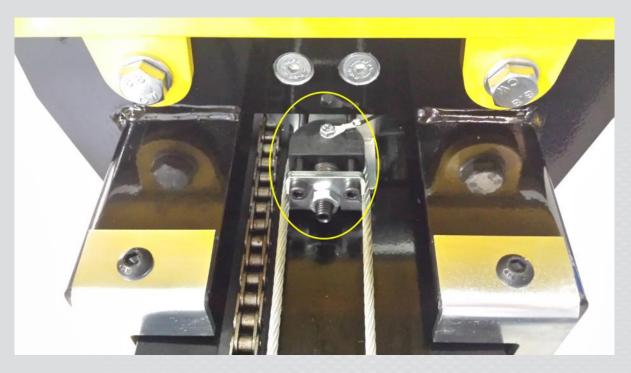


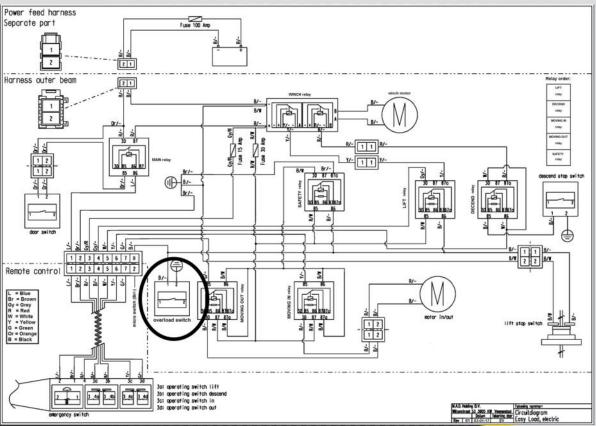




Maximum weight Capacity

This switch stops the winch from going up when the weight is too high.



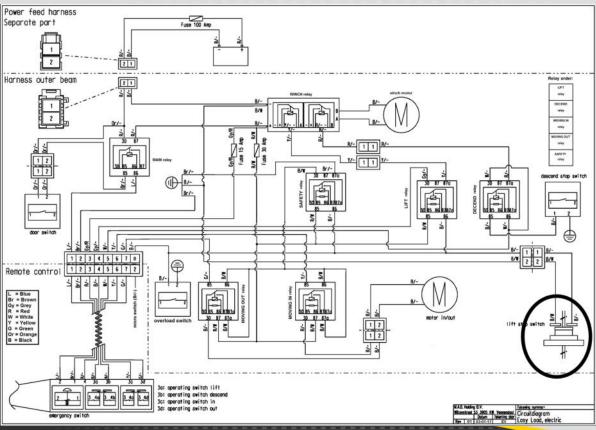




Lift Stop switch

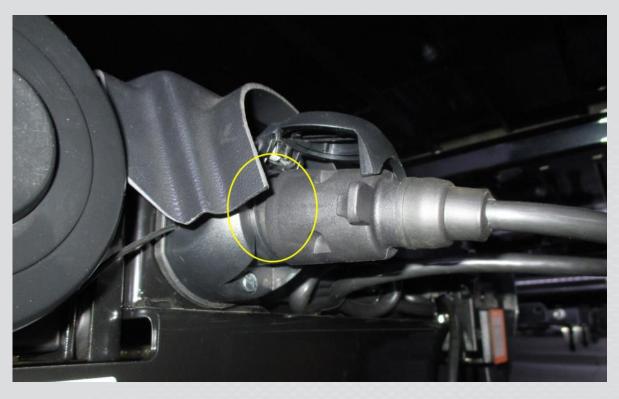
When the weight of the hook makes contact with the two copper stripes the winch stopsand the beam will not go in and out.

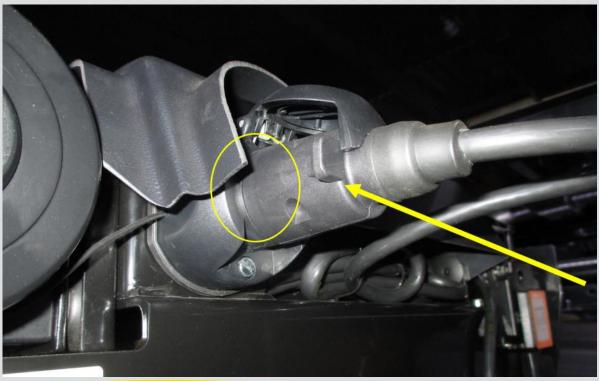






Make sure the Connector is put in properly

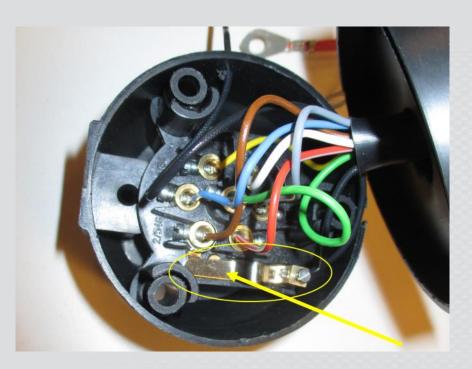


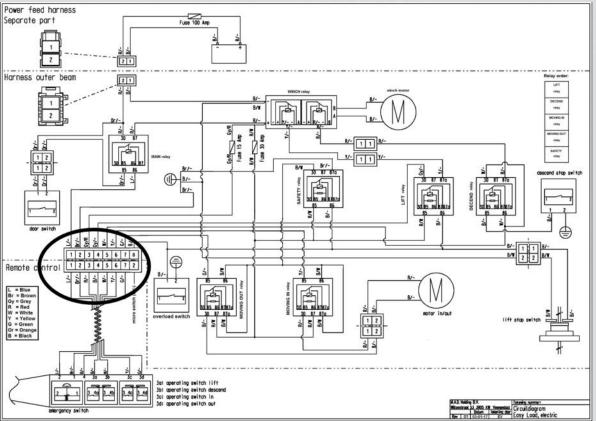




There is a switch inside the connector that makes ground.

The winch doesn't go up anymore.

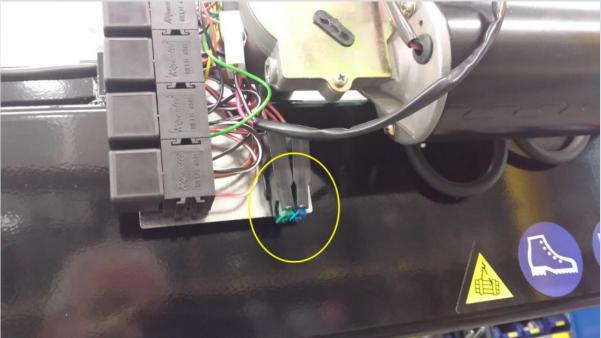






Where are the fuses?



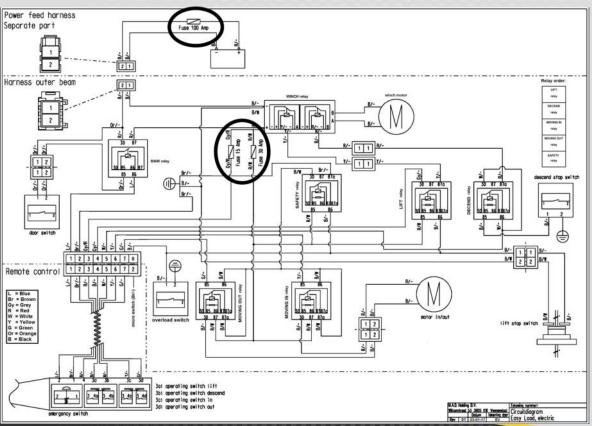


One 30A and one 15A fuse



The main fuse, 100A, is near the battery

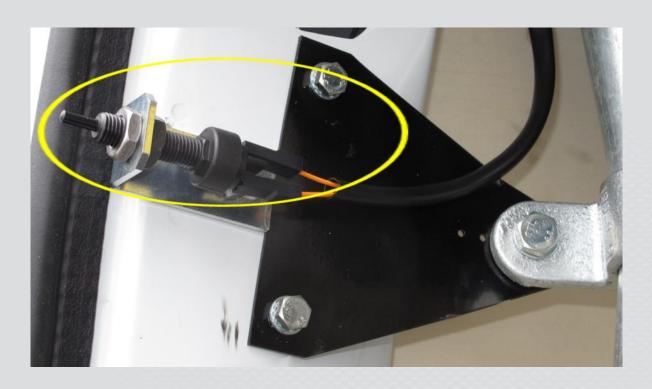


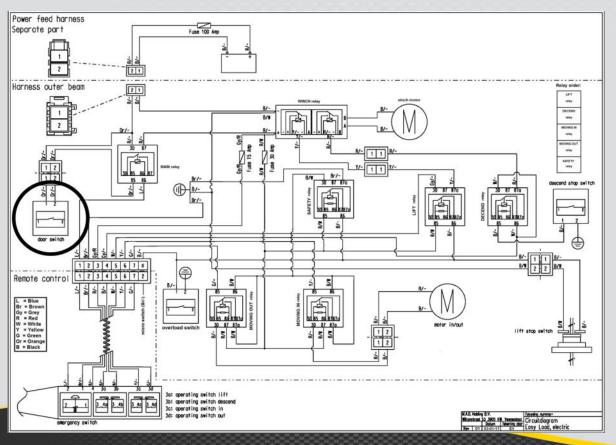




Door switch.

This switch makes sure that the system can not drain the Battery







Trouble Shooting:

Before you start make 100% sure that you have a good Battery

We have the experience that a lot of problems are caused by

a bad battery



Hook is not going down:

- No Electrical power
 – check battery, Main fuse, main relay, press
 button
- Green plate on winch makes ground
- Door switch is not working properly

Hook is not going up:

- Connector is not full in the socket
- Overload switch is activated, making ground
- Damaged Copper stripe on inner beam

Check Damaged Copper strips on the innerbeam







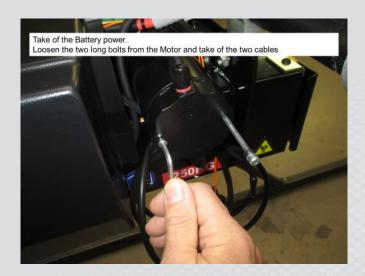


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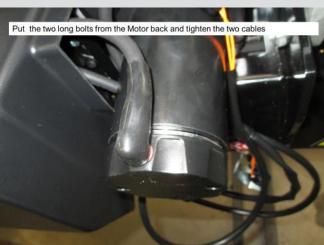
Changing the Carbonbrushes of the winch







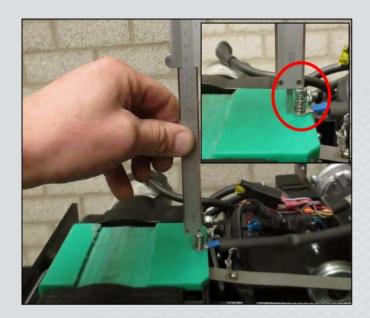


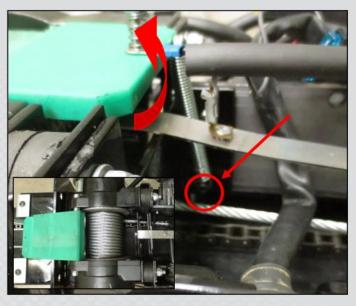


Torque 8-10Nm



Changing the hoist cable





Measure the length of the m4 bolt

Take of the spring and turn the plate

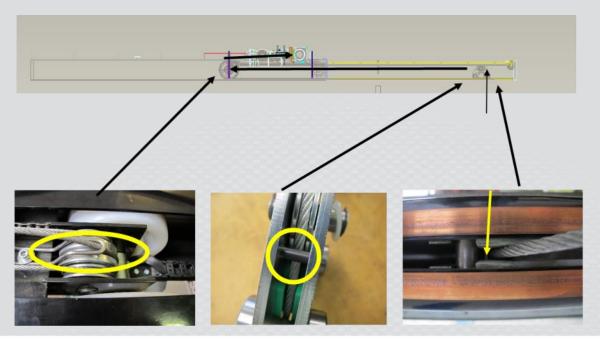


Loosen the hex bolt in the winch drum



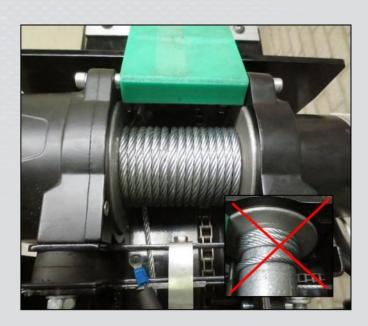
Loosen the four bolts of the top plate





Make sure the cable is running smoothly arround the wheels

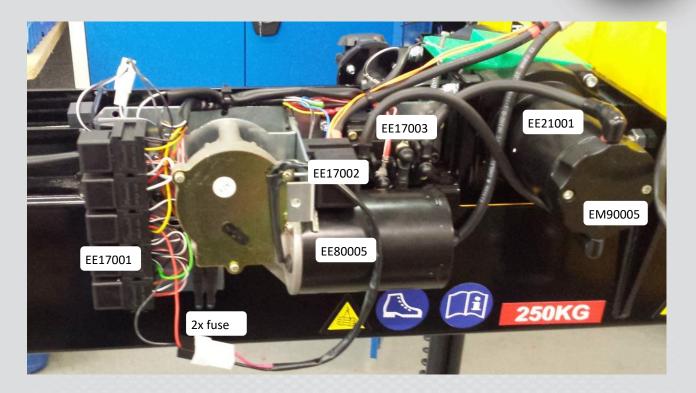




Stick the new cable in the drum, tighten the bolt Make sure the cable is correct on the drum



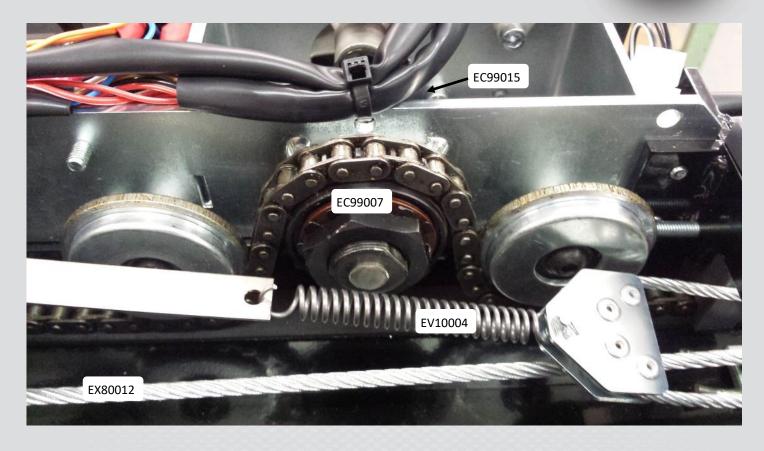
Partnumbers:



EE17001	RELAY 5-PIN 12VDC/40A	EE17007	RELAY 5-PIN 24VDC/30A (BOSCH)
EE17003	RELAY WINCH 12V	EE17006	RELAY WINCH 24V
EE17002	RELAY 4-PIN 12VDC/150A	EE17005	RELAY 4-PIN 24VDC/80A
EE17012	RELAY WINCH 12V BIG WINCH		
EE21001	WINCH 12V	EE21003	WINCH 24V
EE21005	WINCH 12V BIG (501)	EE21006	WINCH 24V BIG (501)
EE80005	LINEMOTOR 12 V	EE80006	LINEMOTOR 24V

Partnumbers:





EC99007 CLUTCH COMPLETE

EV10004 PULL SPRING

EX80012 HOIST CABLE 500KG

EX80010 HOIST CABLE 250KG

EX80011 HOIST CABLE 250KG (2 MTR. EXTRA)

EM86009 CONTROLLER COMPLETE

EC99015 SHAFT COUPLER 500KG

EK80018 COVER EASYLOAD ELCTRONICS

EK80015 SNAP LOCK COVER





Partslist Replacement parts for EasyLoad:

1-1-2018

Partnumber	Discription	Price	
EC99007	CLUTCH COMPLETE		
EC99015	SHAFT COUPLER 500KG spie		
EE01005	DOOR SWITCH		
EE17001	RELAY 5-PIN 12VDC/40A		
EE17002	RELAY 4-PIN 12VDC/150A		
EE17003	RELAY WINCH 12V		
EE17005	RELAY 4-PIN 24VDC/80A		
EE17006	RELAY WINCH 24V		
EE17007	RELAY 5-PIN 24VDC/30A (BOSCH)		
EE18006	FUSE 100A		
EE18007	FUSE 150A		
EE21001	WINCH 12V		
EE21003	WINCH 24V		
EE21005	WINCH 12V BIG (501)		
EE21006	WINCH 24V BIG (501)		
EE80005	LINEMOTOR 12 V		
EE80006	LINEMOTOR 24V		
EK80015	SNAP LOCK RELAYCOVER		
EK80018	RELAYCOVER		
EM80002	EINDKAP VOOR		
EM86009	CONTROLLER COMPLETE		
EM90002	REPAIRKIT HOIST CABLE EASYLOAD 500 9,75m kabel		
EM90003	REPAIRKIT HOIST CABLE EASYLOAD 7,25m		
EM90005	COAL BRUSHES		
EM99908	MOUNTINGKIT FRAME EL 500KG DRIEHOEK 130		
EM99909	MOUNTINGKIT FRAME EL 500KG DRIEHOEK 90		
EM99902	MOUNTINGKIT FRAME EL 250KG DRIEHOEK 130		
EM99903	MOUNTINGKIT FRAME EL 250KG DRIEHOEK 90		
EV10004	PULL SPRING TRAVELLERCABLE		
EX80010	HOISTCABLE 250KG STANDARD		
EX80011	HOISTCABLE 250KG + 2 METER		
EX80012	HOISTCABLE 500KG		



EasyLoad Compact



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