

## Fitting instruction E30 repair kit



### Tool list:

Combination pliers  
Side cutter (Diagonal pliers)  
Ratchet with socket 7mm  
Half round file and Dremel  
Drill  
Drill bit 3/32" and 1/8"  
Hammer  
3/16" Pin punch

### Part list:

1 Machined stainless steel part  
2 Tie wraps  
11 Stainless steel screws M3x8  
1 Allen key 2,5mm (Only for USA)

Remove all electrical patch cords from the gear motor and remove the complete motor assembly

## Installation

1. Unlock the electric motor at the transmission and fold upward (pic. 1)



pic. 1

Unlock lever

2. Cut through the tie wrap with the side cutter (pic. 2)



pic. 2

Tie wrap

3. Drive out the hinge pin with the pin punch (size 3/16) (pic. 3) make sure you have good support for the case!  
The hinge pin should be pushed out from the opposite side from the crimp markings on the hinge pin.  
Remove the hinge pin with combination pliers (pic. 4)



pic. 3

Camp pin



pic. 4

4. Remove the screws of the transmission cover and the cover (pic. 5)



pic. 5

Screws  
(3 pieces)

5. Place transmission motor cover in such a way to allow the new machined part to be placed from the inside out (see blueprint) (pic. 6)

5.1 Remove brass socket from the transmission cover

5.2 Remove material in the cover following the outline using a dremel or with a file

5.3 Remove reinforcement ribs in the inside edge of the transmission cover mill with the dremel or file

5.4 Screw holes can be drilled out with drill bit 3/32" (pic. 7) machined part as a guide

5.5 Remove the machined part and the re-drill transmission cover with larger drill bit (2/16" drill)



pic. 6

Drill out machined part



pic. 7



Transmission cover with work complete

6. Press or hammer (with rubber mallet) original brass socket into the machined part (pic. 8)

Use the provided screws (M3x8) to install the machined part from the inside with the screws on the outside (pic. 9)



pic. 8

Brass socket



pic. 9

Screws  
(M3x8mm)

7. Install transmission cover (pic. 10)



pic. 10

Screws  
(3 pieces)

8. Put two motor halves together, push hinge pin with hammer up to the gap, and then install spring (pic. 11)  
Drive hinge pin completely in (pic. 12) Make sure you have good support to drive in the pin.



pic. 11

Camp pin  
Spring



pic. 12

9. Tie up the cables with the tie wrap on the transmission cover and engage electric motor by folding hinge (pic. 13)

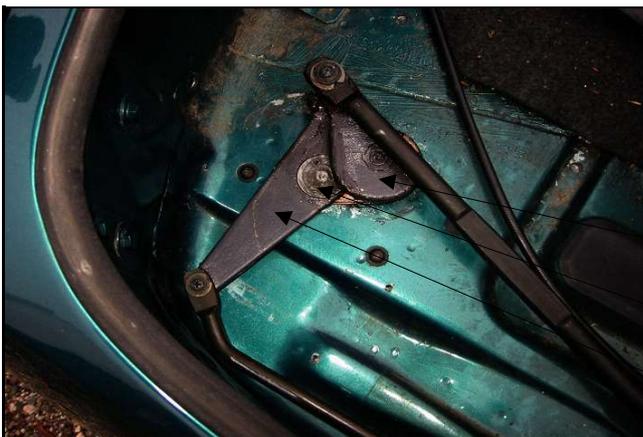


pic. 13

Tie wrap

### Installation tips

1. For the installation of the thrust and linkages the unlock electric motor
  2. Install Lever 1 and tighten special screw (long nose pliers or 2 2/16" drill bits and a screwdriver)
  3. Install Lever 2 with screw
  4. Move the mechanics by hand to ensure free movement
  5. Engage both electrical motors of cover test for functionality
- You may need to re-align the top micro switches following the alignment procedures



Lever 2

Special screw

Lever 1