

Help

1-800-344-6332 Monday thru Friday 7:00 AM to 5:00 PM you will get a live person. After hours it gets routed to an on call person. You can also use the 1-877-4-Monaco number.

ELECTROMAJIC BED

Packing List

1. 1- Somfy 540 R 2 Motor
2. 1- Set of Instructions
3. 24- # 6 x 1/4" Pan Head Screws
4. 6- Blue Butt Connectors

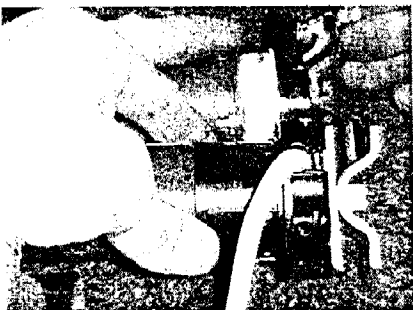
Tools Needed

1. Electric Drill Motor
2. 1/8" Bit
3. Standard and Phillips Screw Drivers
4. Wire Strippers and Crimp Tool
5. Spray Adhesive (ie:3M # 77)

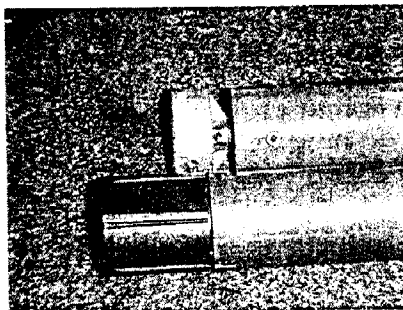
STEP 1: Securing the Bed.

INSTRUCTIONS

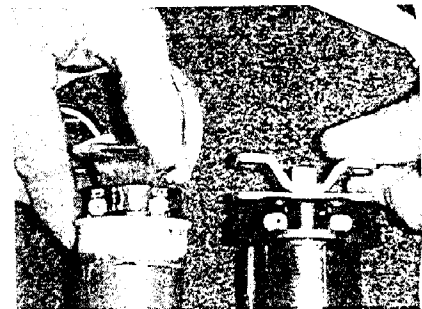
In most cases the bed will come to rest on the sofa back and barrel chairs and the bed may or may not be secure. At this point find a way to stabilize and support the bed while you travel to a repair center. This can be done by using 2 x 4's cut to length and placed under the bed or the bed may just lie on the furniture. Before starting the repair the bed needs to be stabilized. In 1998 Somfy changed the motor to the 540 R 2 style. Be sure to look closely at **pictures 8, 9 & 10**. You may have to alter the length of the tube.



Picture 8



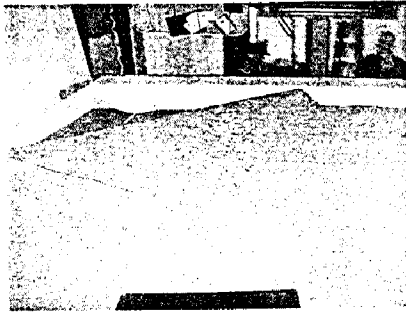
Picture 9



Picture 10

STEP 2: Exposing the Motor.

From 1993 until present the EMB motors are located at the front of the bed toward the cab area. There is a fabric-covered area all around the mattress and the mattress is recessed into the bed. These fabric covered areas cover the motor, drive shafts and chains that allow the bed to go up and down. The motor is housed in the forward area toward the driver's side of the bed. Remove the mattress and set it aside. Pull the fabrics loose at the floor of the bed and you will expose the metal housing that covers the motor and front drive shaft. **(See picture 1)** This housing is secured by 1/8 " rivets, when drilling these out be sure to just remove the head of the rivet or you may drill thru the bed floor. You can use # 6- 1/4" self-tapping pan head screws to rescuer the housing after replacing the motor. You now can see the motor and front drive shaft tubes. The tube housing the motor is the rear one and you will see wires at the end of the tube at the driver's side. **(See picture 2)**



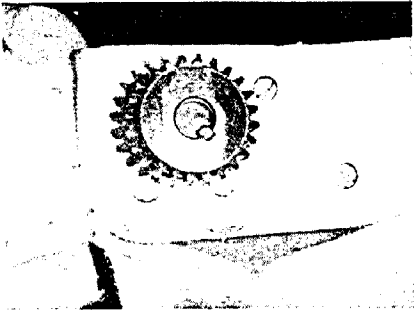
Picture 1



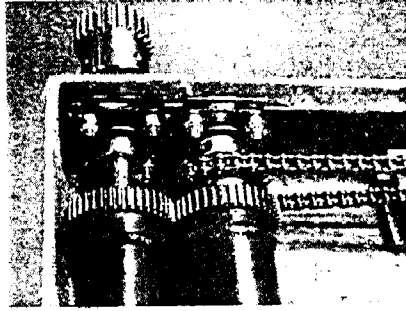
Picture 2

STEP 3: Removing the Motor.

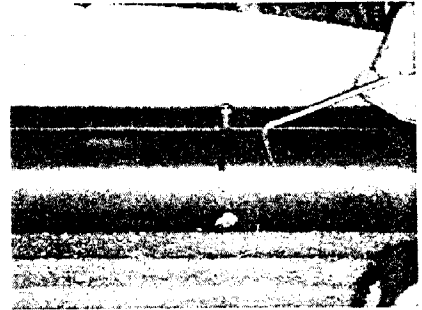
The motor tube is secured to the bed at the driver's side by 2 standard pan head machine screws. (See picture 3) Remove these screws and pull the tube up from the bed. You will have to pull the motor tube free of the drive gear and chain at the opposite end of the bed. (See picture 4). We are now ready to remove the motor from the tube. About 2 feet from the motor end of the tube there will be 3 machine screws with allan heads. (See picture #5). Remove these screws and the motor will slide from the tube. (See pictures 6).



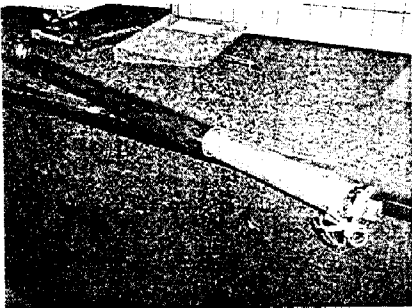
Picture 3



Picture 4



Picture 5



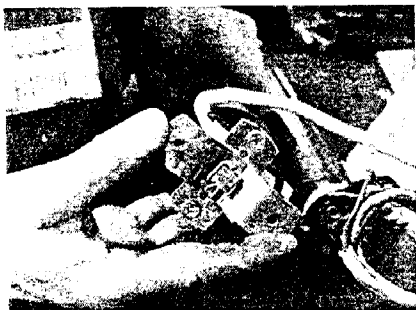
Picture 6

STEP 4: Replacing the Motor.

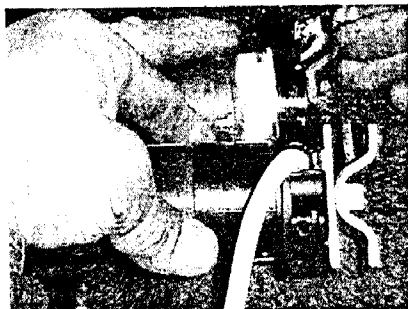
Now remove the mounting bracket from the old motor and install it on the new motor. You will be replacing the original bracket on the new motor with the one from the old motor. Visually inspect the old bracket for signs of unusual wear. (See **picture 7**).

Now compare the two motors and you will notice some differences. Lay the two motors side by side and you will notice three things. 1. The mounting end of the motor is slightly different. There will be more space required between the end of the motor tube and the bed itself. The new motor is the lower one (See **picture 8**). 2. Now look at the drive end of the motor and you'll notice that the new motor is longer than the old motor. This really makes no difference, as there is plenty of space in the tube. The black cap at the end of the new (lower) motor is where the screws from **picture 5** will be reinstalled. (See **picture 9**). 3. Now back to the mounting end of the motor to compare the upper and lower stops. On the old motor the stops were set by turning the allan head screws either counter clockwise or clockwise. The new motor has push button stops and each new Somfy motor comes with a set of instructions for setting the stops. (See **picture 10**).

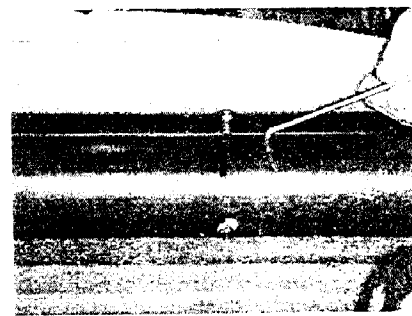
You push the buttons and they pop out, you then run the bed to where you want the lower stop to be and reset the white button. Then run the bed up and push the yellow button. Remember when inserting the motor back into the tube the stop buttons need to be accessible from under the bed. When looking at the end of the motor the mounting bracket will be at approximately 10 and 4 o'clock. This position has the buttons towards the bottom and the wires on the opposite side. (See **picture 11**).



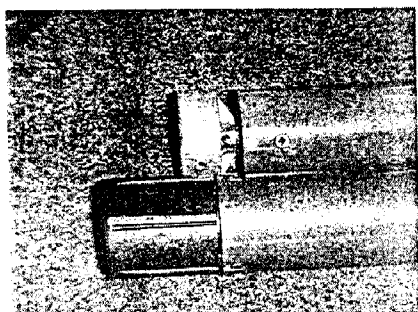
Picture 7



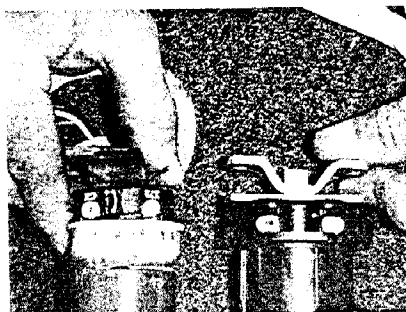
Picture 8



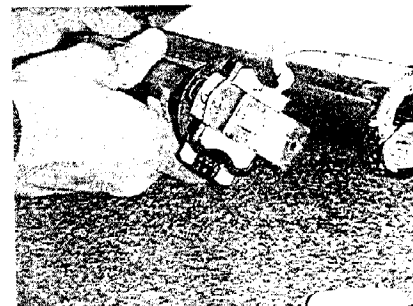
Picture 5



Picture 9

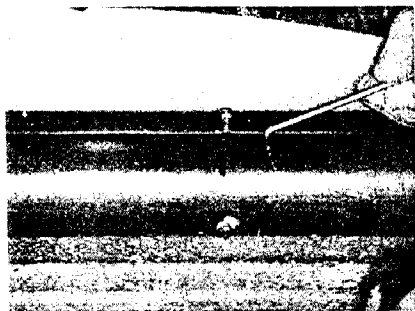


Picture 10

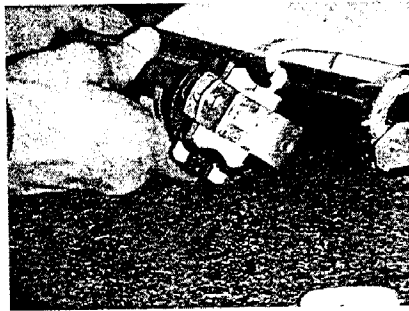


Picture 11

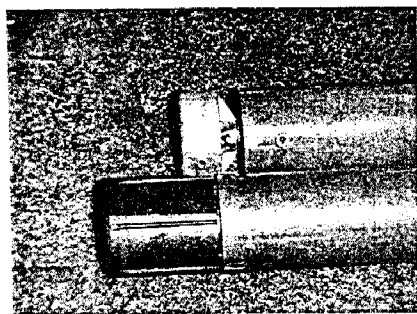
Before installing the new motor you will need to cut approximately $\frac{1}{4}$ of an inch off of the mounting end of the motor tube. On the topside of the mounting end of the motor tube there is a notch that needs to be extended in order for the motor to fit in to the tube. Now make a mark $\frac{3}{8}$ " behind the original screws that secure the motor to the tube. (See picture 5). Pre-drill three $\frac{1}{8}$ " holes at about the same locations of the original holes. Slide the motor into the tube remembering that the stop buttons will be facing down toward the front of the bed and the mounting bracket will be at 10 and 4. (See picture 11). Then using three # 8 self-taping x 1" screws secure the motor to the tube by screwing thru your predrilled holes into the black collar at the drive end of the new motor. (See picture's 5 & 9). Before reinstalling the motor tube to the bed you will need to drill an access hole in the floor of the bed. Remember the angle of the stop buttons in picture 11 and drill your hole ($\frac{3}{8}$ " in diameter should do) slightly forward of the tube. This way by changing the angle of the screwdriver you'll use for setting the stops you can reach both buttons. Be sure to have the mounting bracket at the proper position (See picture 11) before reengaging the motor tube with the drive gear and chain at the opposite end of the bed. (See picture 12). You can now wire up the new motor to the old pigtail harness. (See schematic A). If the coil wires come out of the bed on the driver's side forward the J box is located in the drivers side overhead cabinet behind a false wall. If the coil wire enters at the rear of the bed, from the refrigerator cabinet, then the J-Box is located in that cabinet.



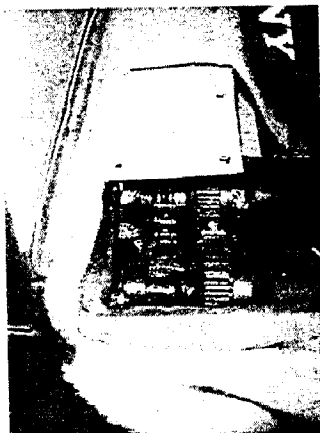
Picture 5



Picture 11



Picture 9



Picture 12

EMB BED MOTOR UPDATE DIRECTIONS

1. Remove old motor by using the normal sequence.
2. Cut down key on new motor switch collar to 1/2" long from flange.
3. To install the new motor, pre-drill 1/8" holes 5/8 of an inch away from old holes, on the motor end of tube (use a minimum of 3 screws).
4. Install new #8 sheet metal screw into drive collar through tube.
5. Wire new motor to pigtail. See figure 1.0.
6. Wire pigtail into "J" box. See figure 2.0.
7. Cut 2"x3" access in kneewall to access stop settings.
8. Fabricate and carpet cover plate for access hole.
9. Depress both stop setting buttons. Lower bed to 1" from top of pilot seat and release yellow stop button.
10. Raise bed 7 to 8 inches, measured from ceiling to bottom of bed, and release white button.
11. Finish reassembly of bed and check stop settings.

FIGURE 1.0

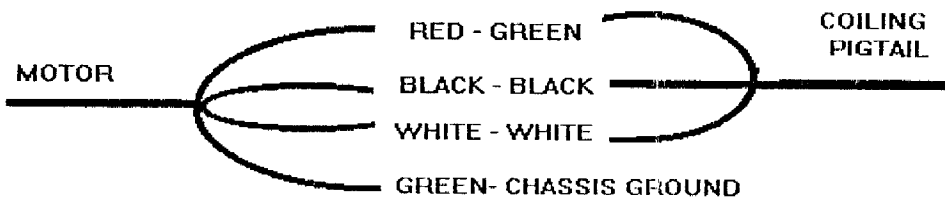
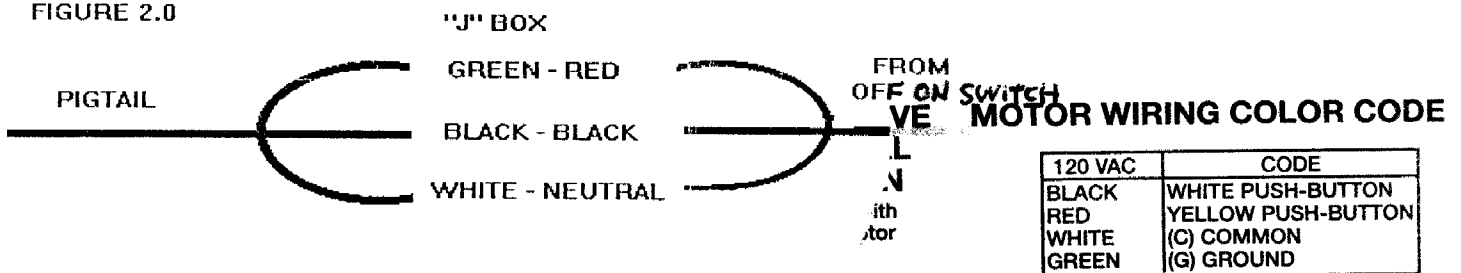
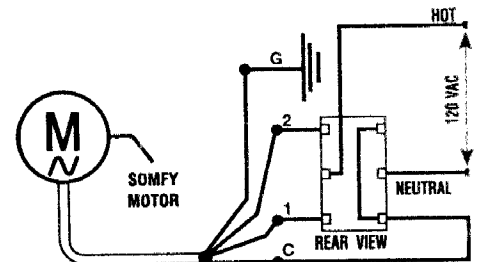


FIGURE 2.0



Ref.: 204100



STEP 5: Leveling the Bed.

Even if the bed did not become disengaged from the racks it may or may not be level. Look at the bed and if it looks even and operates smoothly then you should be ok. After setting the upper and lower stops you can reinstall the mattress.

Run the bed up and down a couple of times to make sure the gears run true on the racks and the stops work where you want them. When looking at how the gears are running on the racks remember if 1/3 of the gear is engaged with the rack you are within factory specifications.

Testing

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1. Always travel with all four upper safety lock pins in place. (PN 08410417)
 2. Always sleep with all four lower safety lock pins in place.
 3. Never operate bed with someone on it.
 4. Never operate bed with someone under it.
 5. Do not use bed to store things. Keep excess bedding off of the bed when not in use.
 6. Make sure the path of the bed is free of foreign objects. See owner's manual for the proper position of the cab chairs for your coach.
 7. Make sure the racks and gears are free of foreign objects.
 8. Read your owners manual.

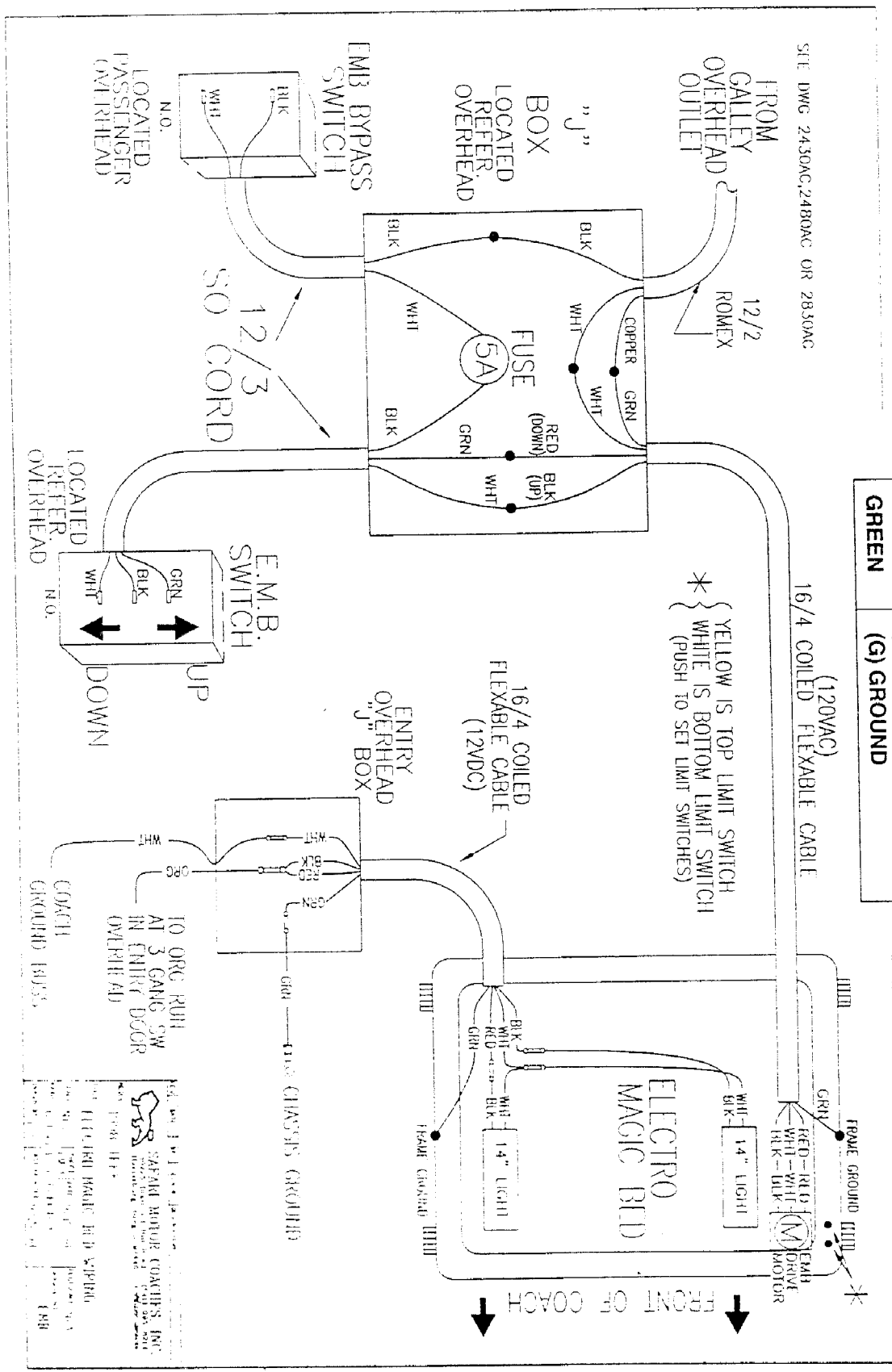
GENERAL INFORMATION *Safety*

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1. Check for the bed being level.
 2. Check for uneven travel of the gears on the racks as the bed is operated.
 3. Listen for any unusual sounds when operating the bed.
 4. Lube racks with a silicone base lubricant.
 5. Check gears for movement on the shaft.
 6. Check that the racks are secure to the wall.
 7. Check to make sure the setscrews are tight on the spur gears.
These are allan head screws.

Maintenance

MOTOR WIRING COLOR CODE

120 VAC	CODE
BLACK	WHITE PUSH-BUTTON
RED	YELLOW PUSH-BUTTON
WHITE	(C) COMMON
GREEN	(G) GROUND



ELECTROMAGIC BED

Schematic #1

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