

# BEARTRAC CONTROL

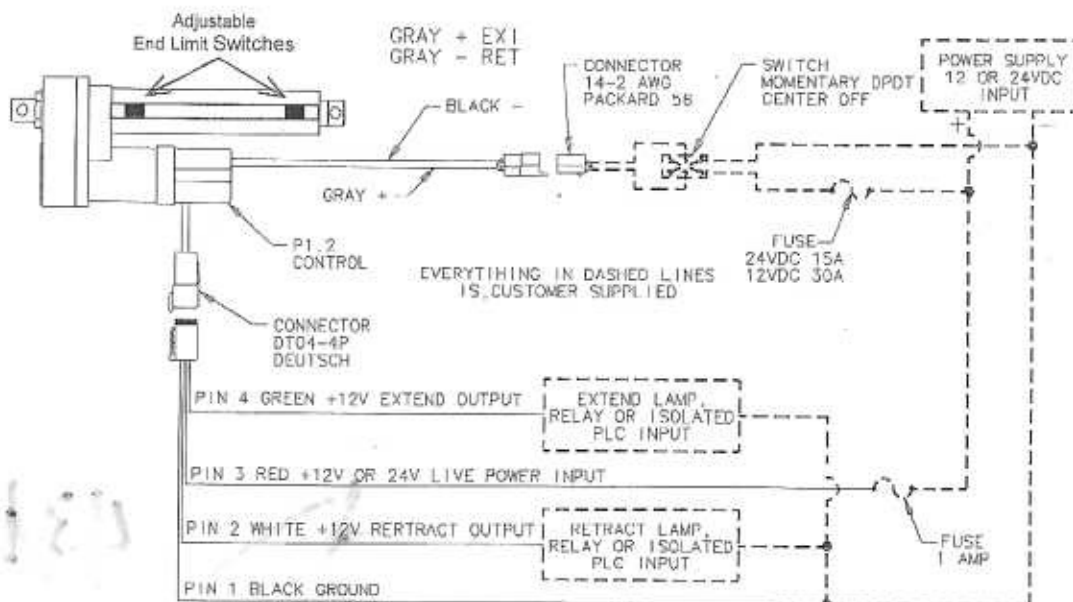
## EP1.2-DC12 or 24 WIRING DIAGRAM

### OPERATION:

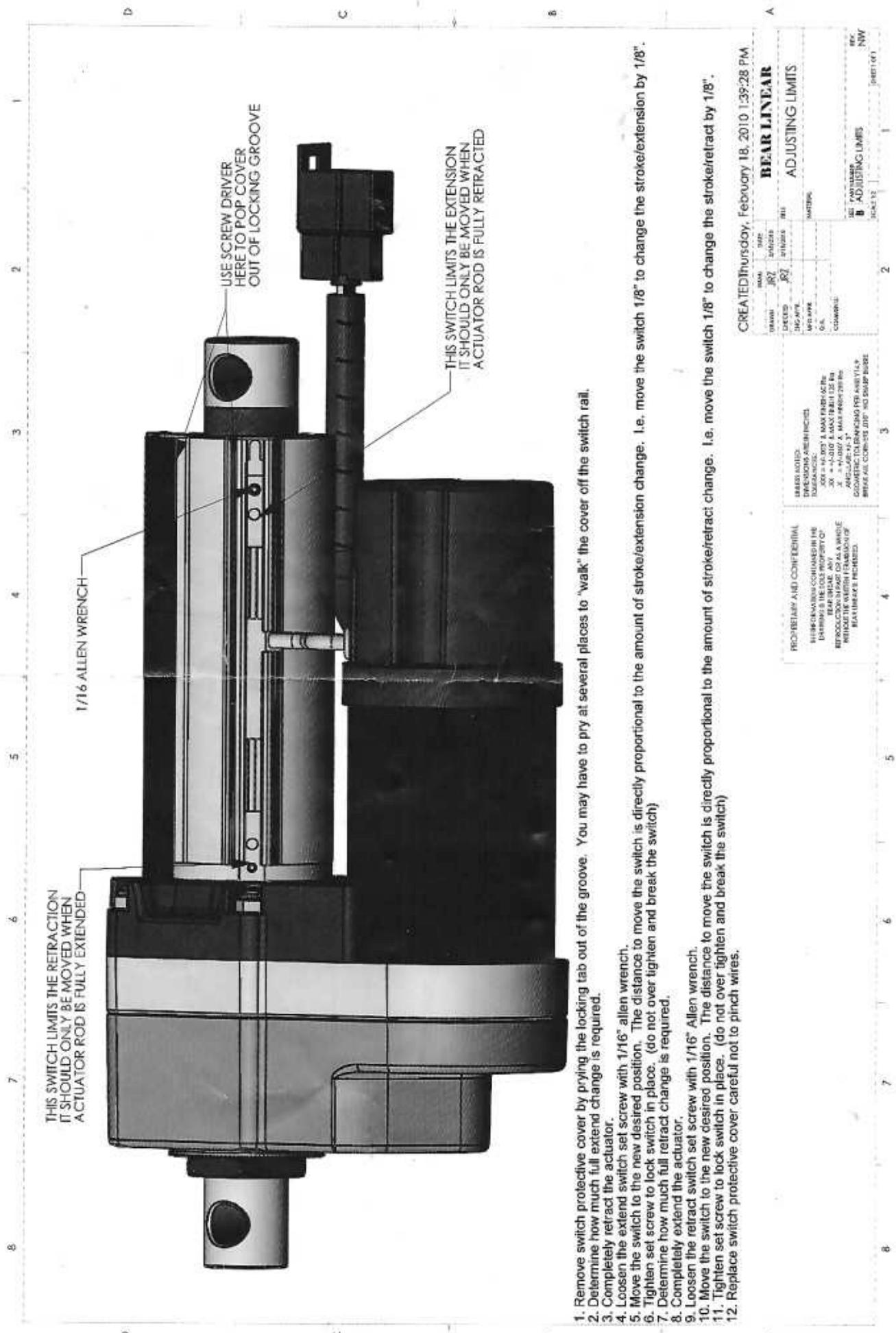
When the "Customer Supplied Switch" is held in the direction allowing positive 12 or 24VDC to the gray wire and 12 or 24VDC ground to the black wire, the actuator will extend until it reaches the end of stroke. At the end of stroke the P1 control will remove power to the motor and the "Extend Output" (green wire) will have +12volts to ground, indicating it is at the end. This +12volt signal can be used to light a Lamp, signal a relay coil, or an isolated PLC input that requires 500mA or less. This output will only be on as long as power is maintained from the "Customer Supplied Switch". However, if the output needs to be on even if the "Customer Supplied Switch" is not activated then the "Live Power Input" can be used. This will provide power all the time for the output to remain on whenever the actuator is at either travel end. Apply +12 VDC (for 12VDC unit) or +24 VDC (for @24VDC unit) to the red wire of the Deutsch (DT04-4P) 4 pin connector and ground to the black wire. This supply should be the same supply for the actuator and needs less than 1Amp to keep power to the outputs.

When the switch is held in the opposite direction so the positive lead of the 12 or 24VDC signal is on the black wire and the 12 or 24VDC ground is on the gray wire the, actuator will retract until it returns to full home position. At the full home position, the P1 control will remove power to the motor until the direction is reversed and the "Retract Output" (white wire) will have +12 volts to ground.

There are end limit switches on the actuator extension rod tube that are adjustable through a set screw to change the location of the stops if desired. The stop positions are factory set to maximum stroke length unless otherwise specified. Carefully lift the black plastic cover over the small channel to get to the two switches.



**CAUTION:**  
DO NOT REVERSE POLARITY AT LIVE POWER INPUT  
(i.e. 22GA RED & BLACK WIRES) OR DAMAGE WILL OCCUR!



THIS SWITCH LIMITS THE RETRACTION IT SHOULD ONLY BE MOVED WHEN ACTUATOR ROD IS FULLY EXTENDED

1/16 ALLEN WRENCH

USE SCREW DRIVER HERE TO POP COVER OUT OF LOCKING GROOVE

THIS SWITCH LIMITS THE EXTENSION IT SHOULD ONLY BE MOVED WHEN ACTUATOR ROD IS FULLY RETRACTED

1. Remove switch protective cover by prying the locking tab out of the groove. You may have to pry at several places to "walk" the cover off the switch rail.
2. Determine how much full extend change is required.
3. Completely retract the actuator.
4. Loosen the extend switch set screw with 1/16" allen wrench.
5. Move the switch to the new desired position. The distance to move the switch is directly proportional to the amount of stroke/extension change. I.e. move the switch 1/8" to change the stroke/extension by 1/8".
6. Tighten set screw to lock switch in place. (do not over tighten and break the switch)
7. Determine how much full retract change is required.
8. Completely extend the actuator.
9. Loosen the retract switch set screw with 1/16" Allen wrench.
10. Move the switch to the new desired position. The distance to move the switch is directly proportional to the amount of stroke/retract change. I.e. move the switch 1/8" to change the stroke/retract by 1/8".
11. Tighten set screw to lock switch in place. (do not over tighten and break the switch)
12. Replace switch protective cover careful not to pinch wires.

CREATED Thursday, February 18, 2010 1:39:28 PM

ITEM	QTY	UNIT
BEAR LINEAR	1	EA
ADJUSTING LIMITS	1	EA

DATE: 02/18/10  
 TIME: 1:39:28 PM  
 USER: [blank]  
 PROJECT: [blank]  
 DRAWING: [blank]  
 SHEET: [blank]

ISSUES NOTES:  
 DIMENSIONS ARE IN INCHES  
 DIMENSIONS CONTAINED IN THE DRAWING ARE THE PROPERTY OF BEAR LINEAR. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BEAR LINEAR IS PROHIBITED.

SCALE: 1:1

REV. PART NUMBER ADJUSTING LIMITS NMW