

Revolution Motor Drive System

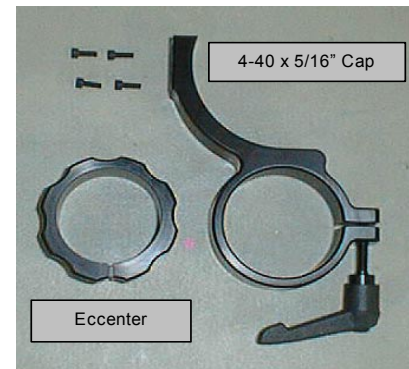
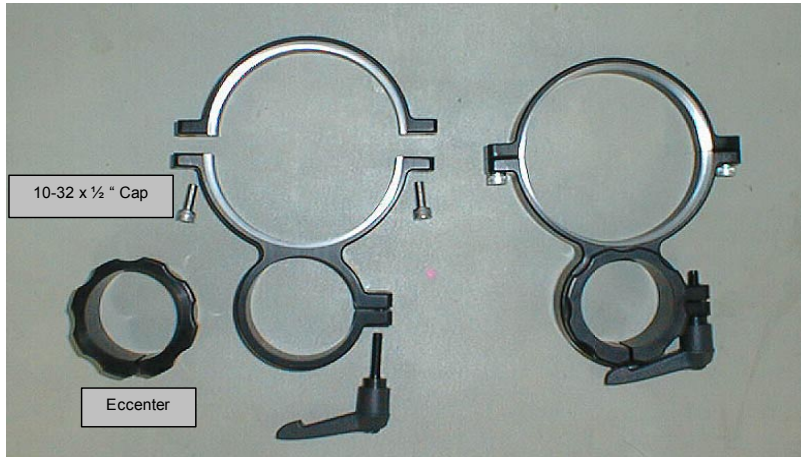


Bracket Assembly:

Pan Bracket & Pan Bracket Clamp

:

Horizon Bracket



System includes:

- **2 motor assemblies**
 - Motor in housing with pinned hub
 - Gear
 - Three 4-40 x 3/8" Flat head Stainless Screws
- **Horizon Bracket (w / screws)**
 - Eccenter
 - Four 4-40 x 5/16" Cap head screws
 - Kipp Handle (10-32 thread)
- **Pan Bracket & Clamp**
 - Eccenter
 - Kipp Handle (10-32 thread)

Revolution lens setup:

Requirements:

- Hand Unit, MDR, and Micro Force with cables for each.
- Hand Unit and MDR must have Snorkel Lens Software and 2 position switch

Operation:

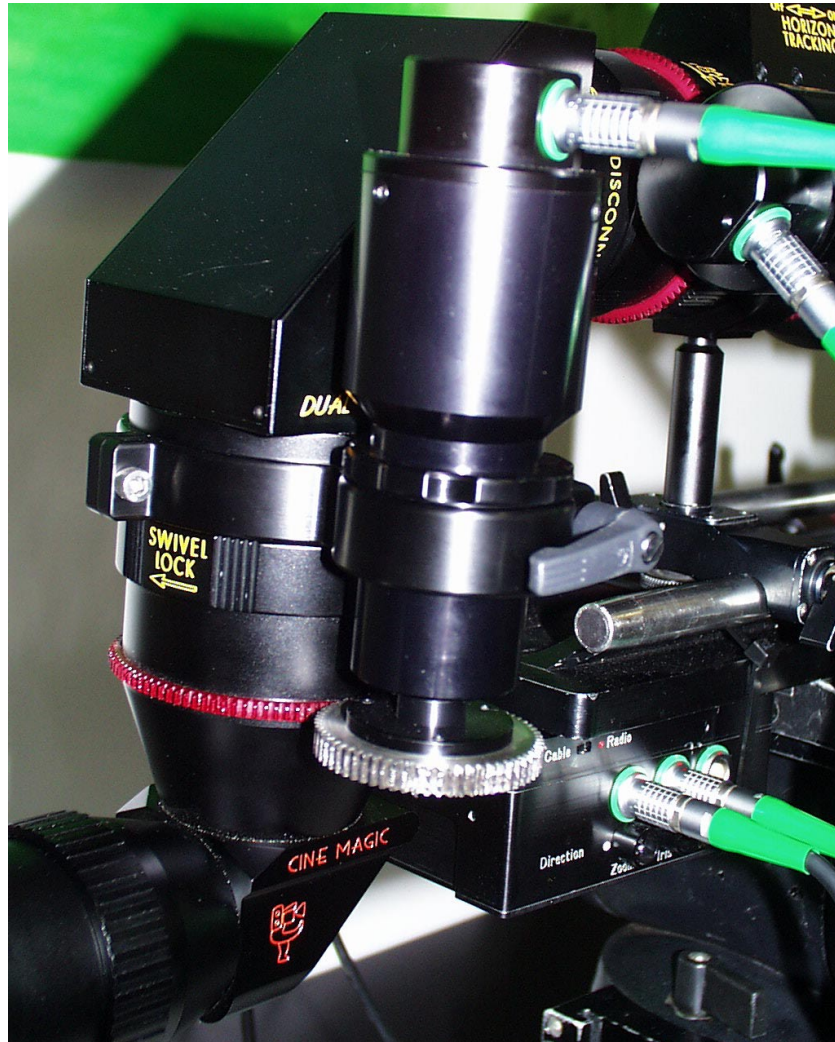
- The snorkel mode must be enabled with the switch on the hand unit.

***IMPORTANT! – TRANSMITTER SHOULD BE ON OR
THE HAND UNIT MUST BE HARD WIRED TO MDR
BEFORE MOTORS ARE CONNECTED!***

(Motors may attempt to calibrate and damage the lens if this step is not followed)

Pan Bracket

:



1. Install the eccentric in the bracket as shown above.
2. Attach the Kipp handle to the bracket. (do not tighten yet.)
3. Install the motor so that the angled section of the motor housing meets the eccentric as shown above.
4. Fasten the gear to the motor with three 4-40 x 3/8" flat head screws. This assembly will be mounted to the lens using the pan bracket and pan bracket clamp
5. Fasten the motor / pan bracket assembly to the lens using two 10-32 x 1/2" cap head socket screws.
6. Make sure the bracket does not interfere with the swivel lock ring. If there is any mechanical interference, the motor will bind.
7. Align the motor to the gear. Turn the eccentric so that the motor gear meshes with the lens gear. Tighten the Kipp handle when the motor is properly fitted to the lens

Horizon Bracket:



1. Install the Horizon bracket to the lens with the four included 4-40 x 5/16" cap head screws
2. Screw the Revolution Support Post into the bottom of the Horizon Bracket.
3. Install the eccentric in the bracket as shown above. Attach the motor gear with the three 4-40 x 3/8" flat head screws included.
4. Attach the Kipp handle to bracket. (do not tighten yet.)
5. Install the motor so that the angled section of the motor housing meets the eccentric as shown above.
6. Align the motor to the gear. Turn the eccentric so that the motor gear meshes with the lens gear. Tighten the Kipp handle when the motor is properly fitted to the lens

Connections for Hard Wire Operation:

1. Make sure the Snorkel switch on the Hand Unit is enabled
2. MDR is set to "Cable" mode
3. Connect the Micro Force to the Hand Unit.
4. Connect the Hand Unit to the MDR via Command Cable (#4400)
5. The DM3 Motors are connected to the MDR (Make sure the Hand Unit is connected to the MDR at this point)
 - Pan Motor connected to Iris channel.
 - Horizon Motor connected to Zoom channel.

Setting the Horizon:

1. While looking through the eyepiece, hold the Zoom Set switch to "ZS" on Hand Unit. Use the Micro Force to adjust the Horizon Angle.
2. Release the switch to hold the angle setting while panning the lens.

Note: If the Horizon angle moves while panning, change the direction switch of the Zoom channel on the MDR.
