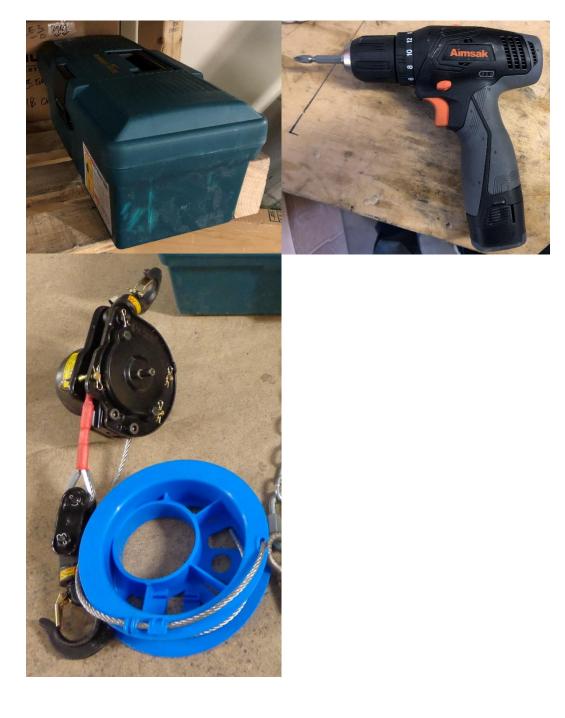
Disassemble the dome shutter drive

26th May 2019 Yongseok LEE

Preparation material

- Pully man
- Hand drill
- Wire rope (Dia. 5 mm)
- 1/2 inch combination wrench
- 9/16 inch combination wrench
- 3/4 inch combination wrench
- Small flat screwdriver
- Small phillips screwdriver
- Two long wooden bars
- Long cable tie
- Hanger bolt

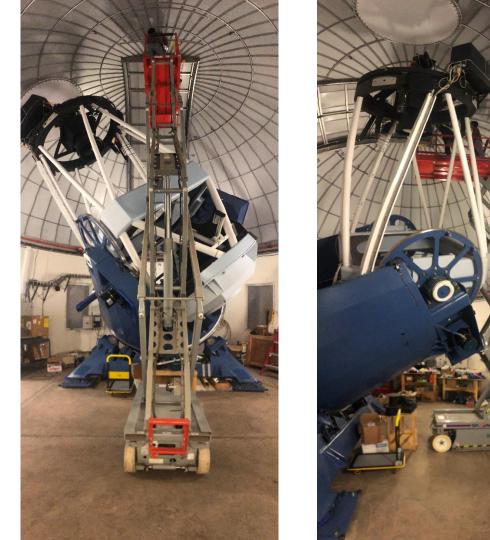


0. Preparation work

- Insert 2 hanger bolts in the middle of 5 mm diameter wire rope
- Hang a large washer at the end of the wire rope into which the hanger bolts are inserted and tie it with a wire clip to prevent it from falling out
- Attach large washers to the end of another 5 mm diameter wire rope and tie it with a wire clip to prevent it from falling out

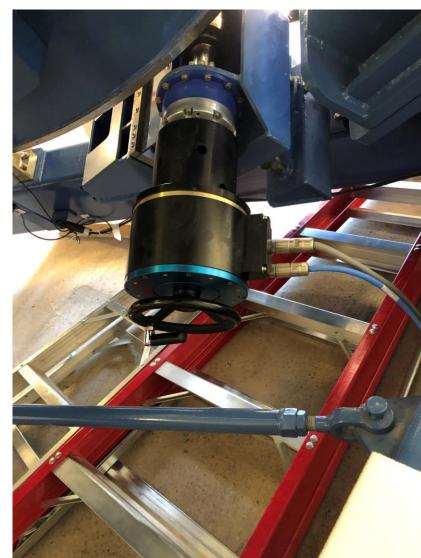
1. Rotate the dome to North side

- Dome shutter has to be faced to North side and turn off the dome
- power switch



2. Move the telescope to West side

• Move the telescope to West side by handle on the motor





3. Locate the scissor lift to work

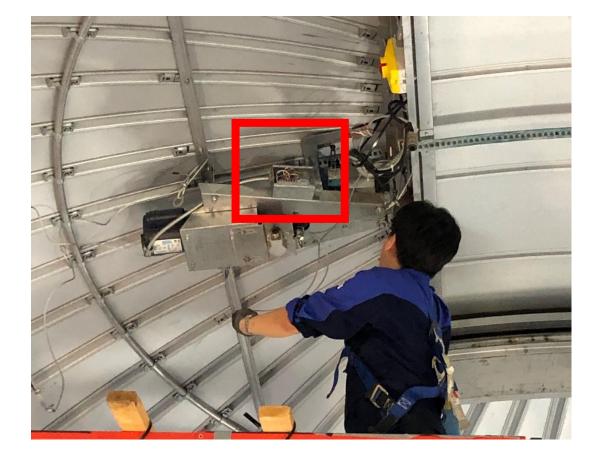
- Raise up the scissor lift
- Go slowly scissor lift to north until the lift does not touch the
 - telescope

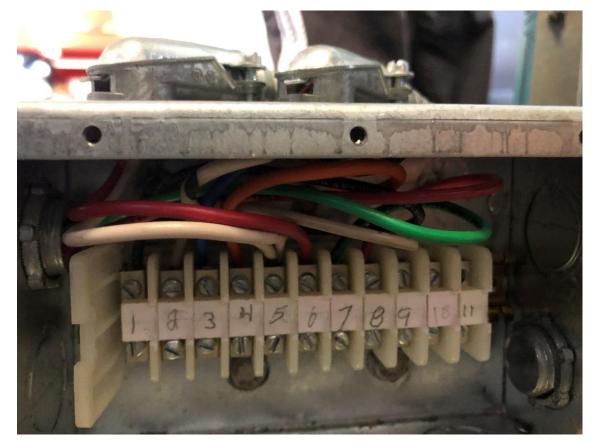






4. Disconnect the electrical wire





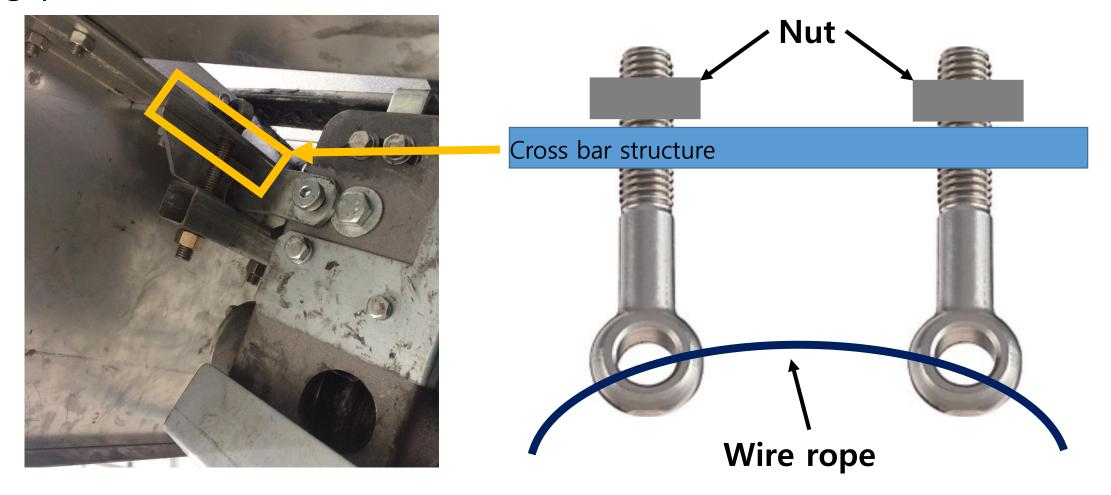
5. Remove the lifting part and shutter ears





6. Assemble the hanger bolt to dome structure

• Assembling the hanger bolt in the place where the dome shutter lifting part is removed



7. Connect the front side of the shutter drive to wire rope

- Loosen the bolts holding the worm gearbox(as shown in the red box)
- Fasten the bolts with the washer connected to the end of the wire rope





8. Connect the end side of the shutter drive to wire rope

- Loosen the bolts holding the shutter driver(as shown in the red box)
- Fasten the bolts with the washer connected to the end of the wire rope



9. Connect the wire to pullyman





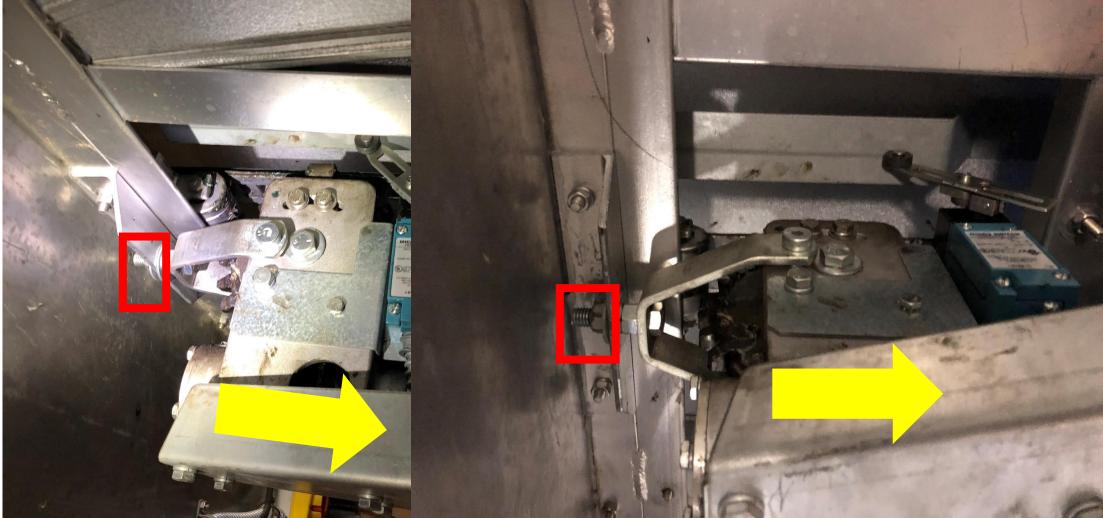
10. Pulling the wire ropes

- Pull the motor side wire using a pullyman
- Pull the worm gear side wire by hand



11. Unscrew a nylon nut

 Unscrew a nylon nut, and pull the drive to motor direction (yellow arrow direction) to pull it out



12. Lower the shutter drive



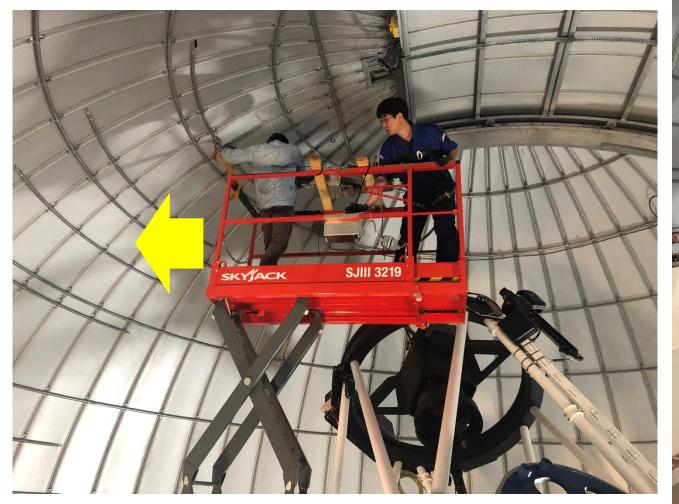
13. Disconnect the wire rope from shutter drive

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- Disconnect both side wire ropes from shutter drive
- Then, the wires except the drive will be suspended from the dome

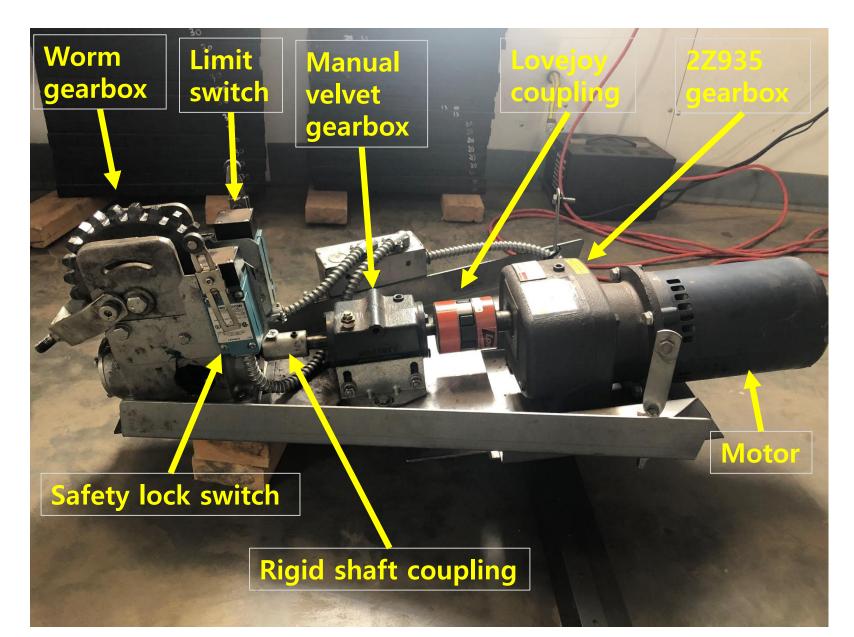
14. Go down the scissor lift

- Go slowly scissor lift to south until the lift does not touch the dome
- Let down the scissor lift to bottom





Shutter drive



Shutter drive parts in the dome

