

Figure Chapter 1-2. Chassis components

0300-1742-00 Chassis, Indoor

- 01 Color NTSC camera
- 02 Color PAL camera
- 03 BW EIA camera
- 04 BW CCIR camera

0300-1743-01 Carriage Assy.

Unicard Board (hidden)
0301-0518-03

Pan Gear
0500-3869-01

Pan Motor (not shown)
3501-0009-01

Power Supply
5606-0002-02

Yoke Bracket
0500-3844-01

0400-0507-01 Skirt Assy., Eyeball

Camera Shroud
0500-3795-01

Camera/Lens Board (hidden)
0301-0832-01

Sector Gear
0500-3817-01

Camera Cable,
integral to camera assy.

Cable Assy., Slip Ring Interface
0650-0623-01

Spool Cable Retainer
0500-3841-01

0300-1740-00 Eyeball Assy.

- 01 Color NTSC camera
- 02 Color PAL camera
- 03 BW EIA camera
- 04 BW CCIR camera

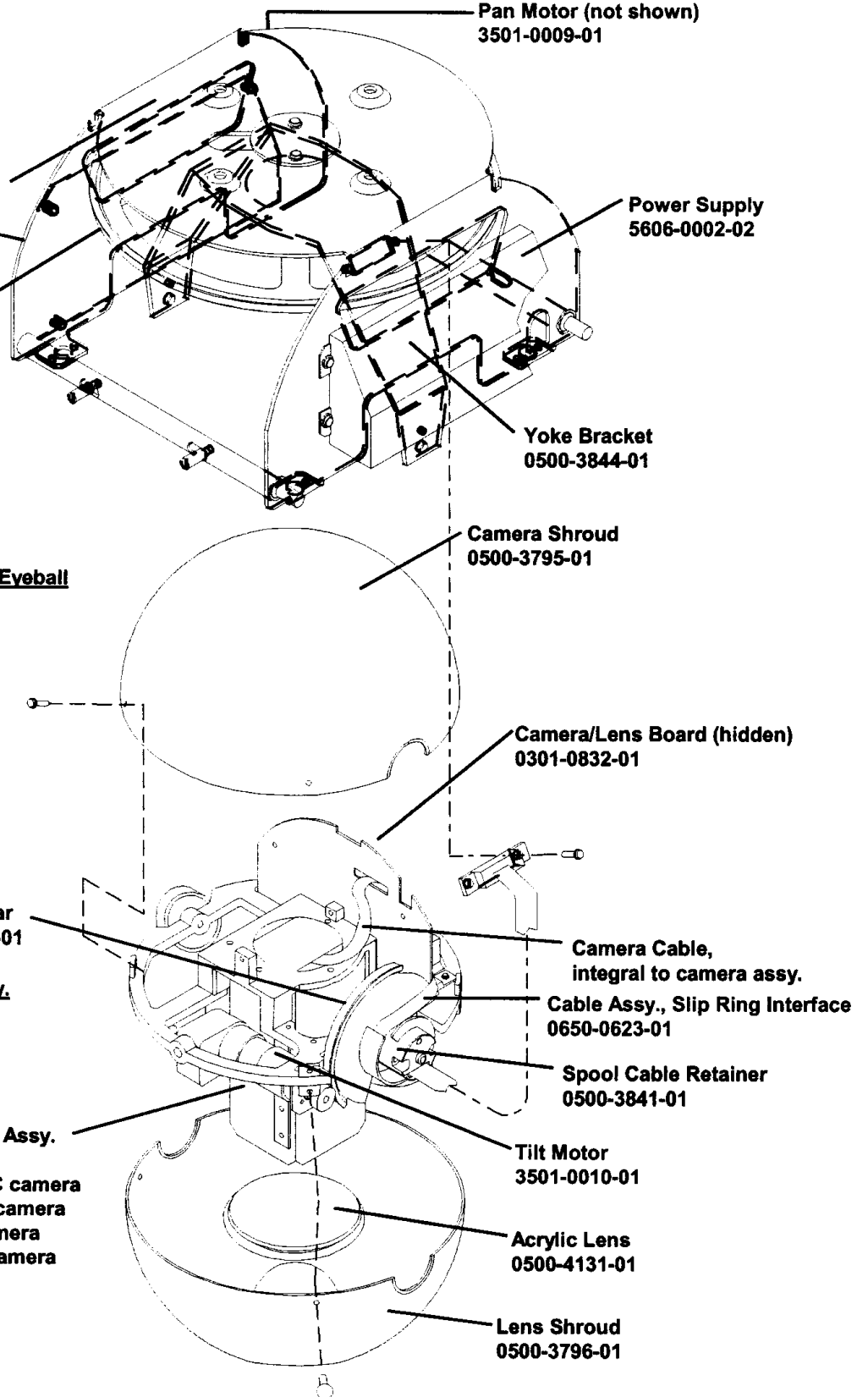
Camera/Bracket Assy.
0300-1754-00

- 01 Color NTSC camera
- 02 Color PAL camera
- 03 BW EIA camera
- 04 BW CCIR camera

Tilt Motor
3501-0010-01

Acrylic Lens
0500-4131-01

Lens Shroud
0500-3796-01



Dome CPU Board



WARNING: Unexpected pan and tilt can cause injury or damage the dome during servicing. To prevent such movement, always disconnect power/data connector P3 from the Unicard (CPU) board

1.

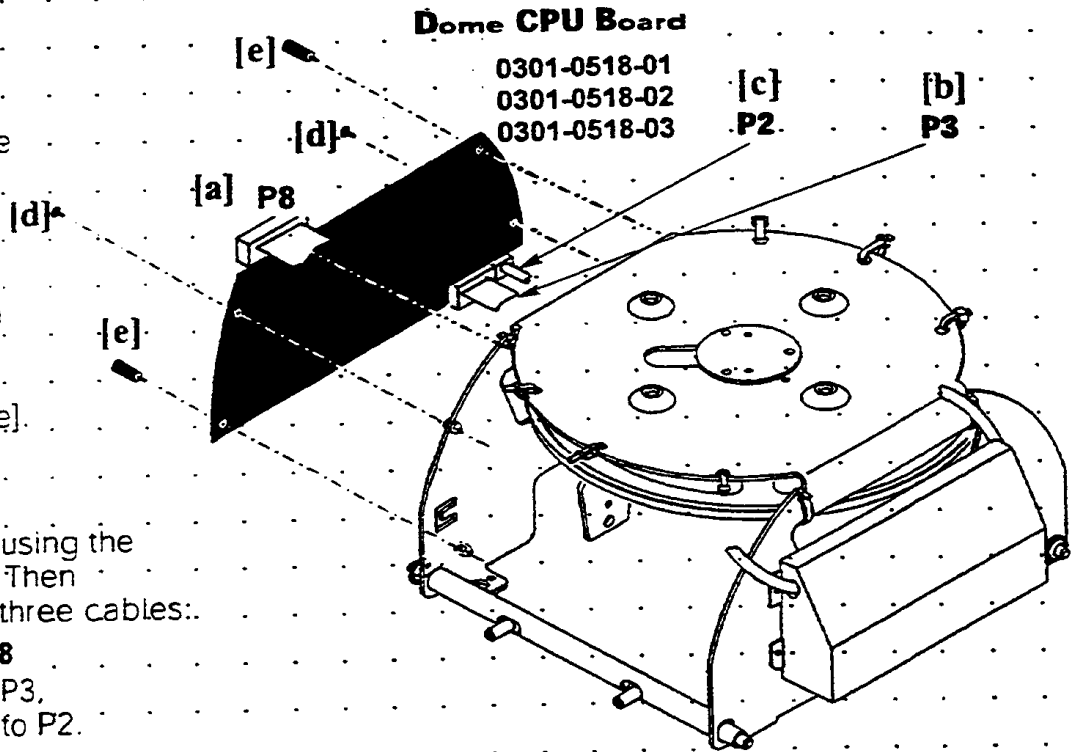
Remove the Unicard (CPU) board by first disconnecting the slip ring [a], pan motor [b], and power supply cables [c], then removing two M3x10 screws [d] and two standoffs [e].

2.

Secure the new board using the screws and standoffs. Then connect the following three cables:

- Slip ring cable to P8
- Pan motor cable to P3
- Power supply cable to P2

DOMe CPU BOARD REPLACEMENT IS COMPLETE.



Pan, Tilt, Zoom, Iris, and Focus Motors



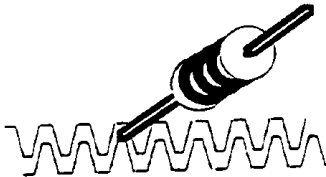
WARNING: Unexpected pan and tilt can cause injury or damage the dome during servicing. To prevent such movement, always disconnect power/data connector P3 from the Unicard (CPU) board

Remove the lens and camera shrouds (four screws each). Then remove the motor suspected of being defective. Tilt, zoom, focus and iris motors secure to the eyeball casting using two M3x10 screws each. The pan motor secures to the carriage assembly. Refer to the notes and diagrams for exact motor placement.

Note: Outline the bracket of the old motor with a pencil before removing to simplify the alignment of the new motor.

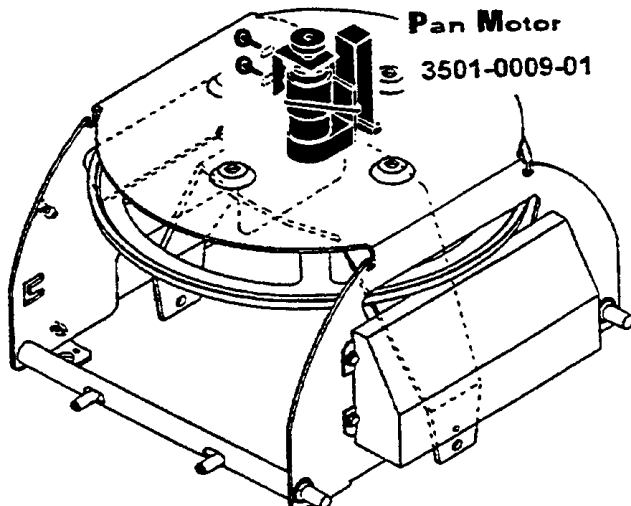
Note: When installing screws in the zoom, focus and iris motors, use the round hole [a] to align the motor, then use the oblong hole [b] to adjust the gear mesh.

Note: Calibrate gear mesh using a 1/4-watt resistor or .05mm (.02") dia. drill rod.

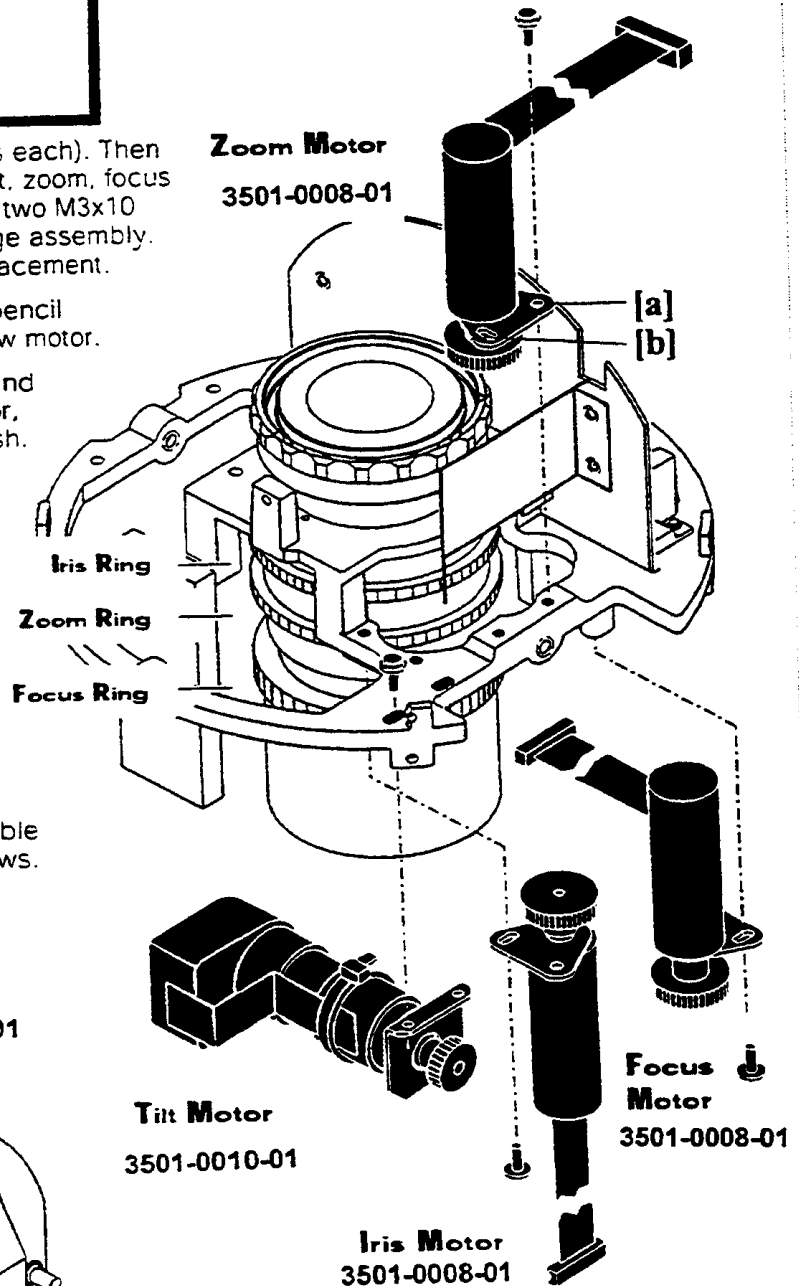


Note: Zoom, focus and iris motors are identical and can be exchanged when troubleshooting.

Unless only the pan motor was replaced, reassemble the lens and camera shrouds using the eight screws. Then reassemble the SpeedDome chassis and recalibrate.



Zoom Motor
3501-0008-01



Tilt Motor
3501-0010-01

Focus Motor
3501-0008-01

Iris Motor
3501-0008-01

Slip-Ring



WARNING: Unexpected pan and tilt can cause injury or damage the dome during servicing. To prevent such movement, always disconnect power/data connector P3 from the Unicard (CPU) board

1.

Ready the old slip-ring assembly for removal by unplugging its female connector [a] from the clock-spring cable connector at the yoke bracket, unplugging its ribbon cable [b] from JP4 of the dome CPU board, and by removing its two M3x8 screws [c] from at the base of the carriage assembly.

2.

Cut the tie wrap [d] and remove the old slip ring [e] and washer [f] while carefully feeding its female connector down through the slip-ring receptacle [g].

3.

Insert the new slip ring by carefully inserting its female cable connector through the receptacle (making sure the washer [f] stays at the end of the slip ring as it enters the receptacle). Then position the slip-ring ribbon cable in the slot of the receptacle and slowly turn the slip ring clockwise approx. 3/4-turn until its flange [e] firmly seats against the carriage assembly. Secure the slip ring using the two screws.

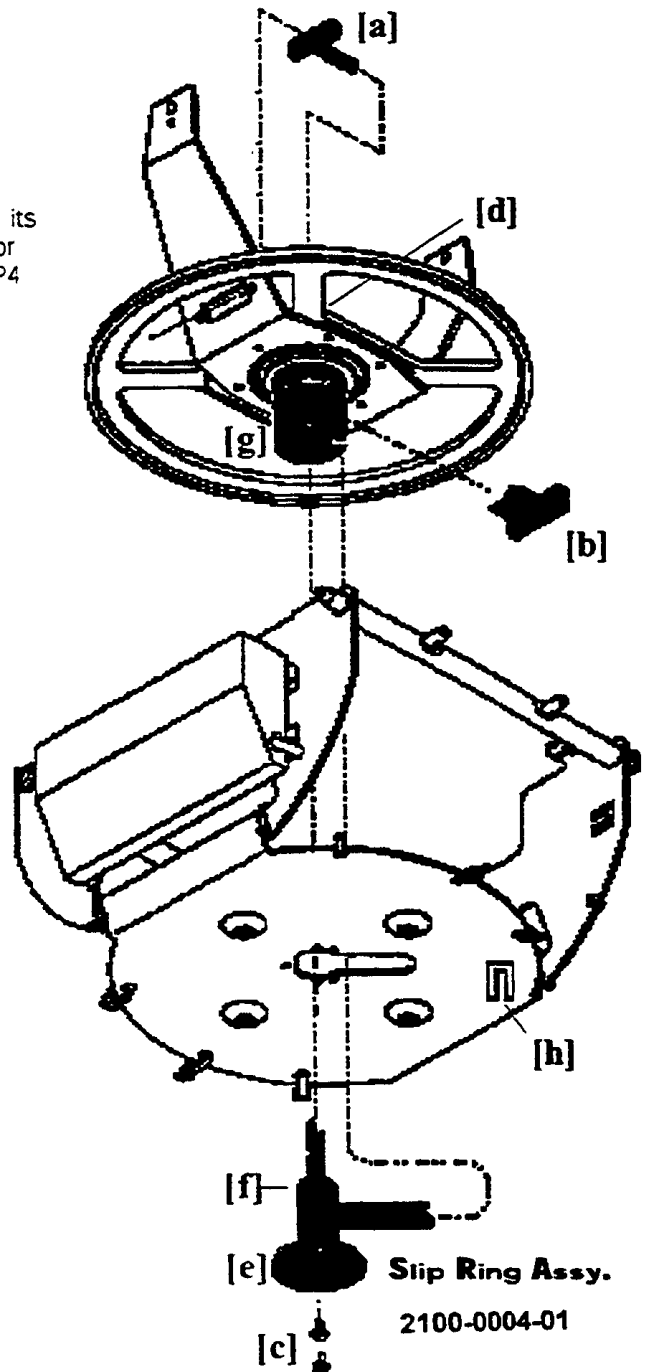
4.

Connect the cable exiting the end of the receptacle to the clock-spring cable connector and tie wrap it [d] to the chassis. Then slip the ribbon cable into its retaining notch [h] and connect it to JP4 of the dome CPU board.

SLIP-RING ASSY. REPLACEMENT IS COMPLETE.

5.

Reassemble the SpeedDome chassis and recalibrate.



Power Supply



WARNING: Unexpected pan and tilt can cause injury or damage the dome during servicing. To prevent such movement, always disconnect power/data connector P3 from the Unicard (CPU) board

1.

Disconnect power supply cables from P9 [b] and P1 [a] on the Unicard (CPU) board.

2.

Cut the tie wraps [c] to release the cables from the chassis.

3.

Detach the supply by removing four M3x10 screws [d] from the corner tabs.

4.

Attach the new supply to the chassis using the four screws previously removed. Then secure its cables along the chassis, as shown, using six new tie wraps.

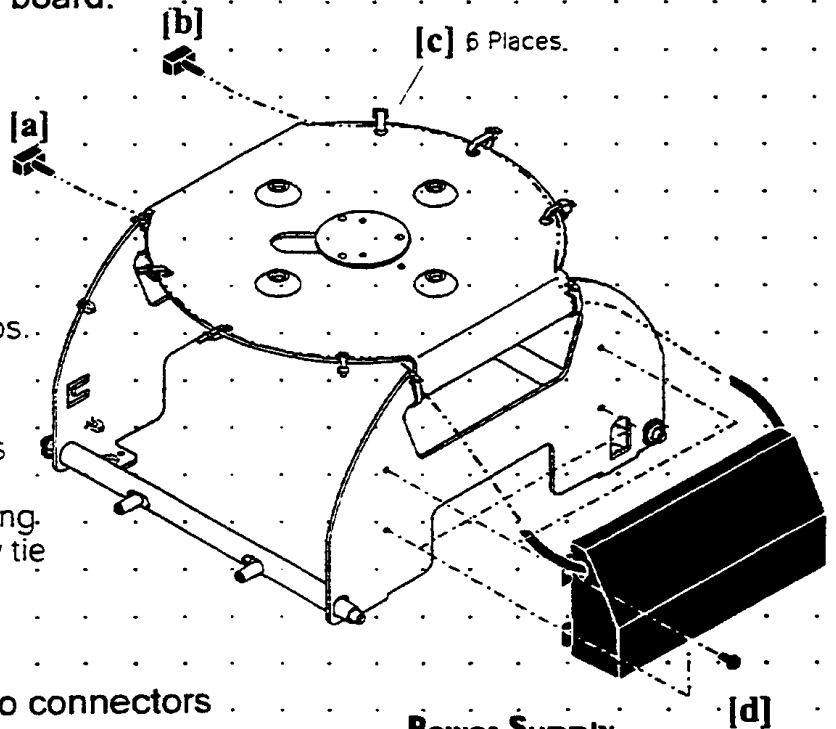
5.

Plug the power supply cables into connectors P9 and P1 on the Unicard (CPU) board.

POWER SUPPLY REPLACEMENT IS COMPLETE.

6.

Reassemble the SpeedDome chassis and recalibrate.



Power Supply
5606-0002-02

[d]