



DF5 Series DF5S Series Fixed-Mount Domes

Maintenance/ Service Manual

C1458SM-A (10/98)

Pelco • 300 W. Pontiac Way, Clovis • CA 93612-5699 USA • Pelco Online @ http://www.pelco.com In North America and Canada: Tel (800) 289-9100 or FAX (800) 289-9150 • DataFAX (800) 289-9108 International Customers: Tel (1-559) 292-1981 or FAX (1-559) 348-1120 • DataFAX (1-559) 292-0435

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1.1 IMPORTANT SAFEGUARDS AND WARNINGS

Prior to installation and use of this product, the following WARNINGS should be observed.

- Installation and servicing should only be done by qualified service personnel and conform to all local codes.
- 2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
- 3. Only use replacement parts recommended by Pelco.
- After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuitry.
- The installation method and materials should be capable of supporting four times the weight of the enclosure, pan/tilt, camera and lens combination.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



CAUTION: RISK OF ELECTRIC SHOCK. DO NOT OPEN.



CAUTION:
TO REDUCE THE RISK OF ELECTRICAL SHOCK,
DO NOT REMOVE COVER. NO USERSERVICEABLE PARTS INSIDE. REFER SERVICING
TO QUALIFIED SERVICE PERSONNEL.

Please thoroughly familiarize yourself with the information in this manual prior to installation and operation.

2.0 DESCRIPTION

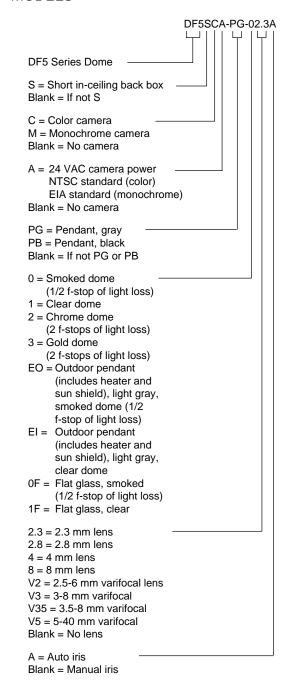
DF5 Series domes are discreet surveillance domes that are designed for indoor or outdoor use. Models include pendant and in-ceiling versions.

The DF5S Series domes are similar to the DF5 Series. The basic difference is that the back box for the DF5 Series is 5.25 inches (13.34 cm) in height while the DF5S Series back box is 2.75 inches (7 cm) in height. The DF5S Series domes are designed for indoor use where there is very little space above the ceiling.

2.1 MODELS

NOTE: Newer models furnished with a camera have a 1/3-inch format camera.

Older models furnished with a camera have a 1/2-inch format camera (models without an "X" at the end of the model number have an EIA or NTSC camera; models with an "X" at the end of the model number have a CCIR or PAL camera).



3.0 MAINTENANCE

Clean the acrylic dome as necessary to maintain a clear picture. Be careful not the scratch the surfaces of the dome.

Exterior Surface - Clean the dome's exterior surface with a nonabrasive cleaning cloth and cleaning agent that is safe for acrylic plastic. Either liquid or spray cleaner/ wax suitable for fine furniture is acceptable.

Interior Surface (Except Chrome or Gold) - Clean the same as the exterior surface.

Interior Surface (Chrome or Gold) - The inside surface of a chrome or gold dome is easily scratched. Use the following precautions to maintain the dome's surface.

- A. Always handle the dome from the outside of its circular flange.
- B. Never touch the coated inside surface. The acid in your fingerprints will eventually etch the coating if the fingerprints are not carefully removed according to the recommended cleaning procedure in item E.
- C. If dust or other contaminants accumulate on the dome's interior, remove the debris with compressed air. Compressed air cans are available from photographic equipment or electronic supply dealers.
- D. If heavy residue accumulates and cannot be removed with air pressure, rinse with water and immediately dry with air pressure so that water spots will not remain. Avoid wiping the coated surface with direct hand pressure - it will easily abrade unless extreme care is taken. Once scratched, the dome cannot be recoated.
- E. If internal wiping is necessary, avoid hand rubbing. Instead, make a wick as follows:

Use a very soft paper towel. Roll a section into a tightly wound tube. Tear the tube in half, and wet the fuzzy end of the wick with a solution of isopropyl alcohol diluted with water. Hold the dome with its opening facing downward and wipe the interior of the dome with the wet end of the wick. Use a circular motion, starting from the outside and spiraling into the center. Use a new wick for each two passes over the dome.

4.0 EXPLODED ASSEMBLY DIAGRAMS

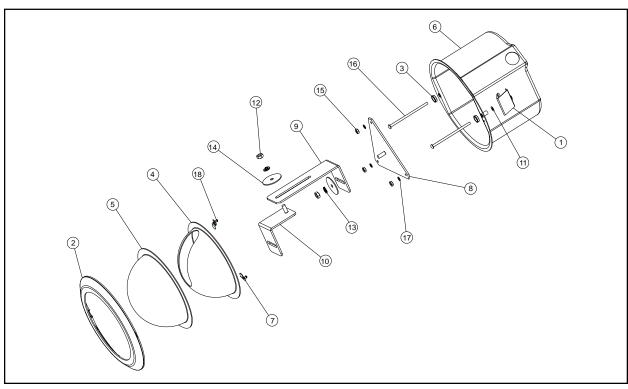


Figure 1. Exploded Assembly Diagram-DF5 In-Ceiling Models

Table A. Exploded Assembly Parts List-DF5 In-Ceiling Models

Item	Quantity	Description	Part Number
1	2	Spring paddle	70610027
2	1	Trim ring	70610030
3	2	Trim ring snap washer	70610036
4*	1	Dome liner	70610046
5	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
		Acrylic dome (chrome)	70610005-02
		Acrylic dome (gold)	70610005-03
6	1	Back box	7064020COMP
7*	2	Dome liner retainer	7064038COMP
8	1	Base plate	DF54000COMP
9	1	Tilt table support leg	DF54001COMP
10	1	Tilt table	DF54002COMP
11	2	Push nut bolt retainer	ZH810000
12	2	Nut, 1/4-20	ZH1/4-20NUTCH
13	3	Split lock washer, 1/4"	ZH1/4LWSSL
14	2	Fender washer, 1/4"	ZH255X1.50X62
15	3	Nut, 8-32	ZH8-32NUTSH
16	2	Screw, 8-32 x 3-1/2", pan head, Phillips	ZH8-32X3.50SPP
17	3	Internal star washer, #8	ZH8LWSIS
18*	2	Screw, M3 x 5, pan head, black	ZHM3X5BPT
NS	1	Flat washer, 3/16"	ZH260X562X65C
NS	1	Screw, 1/4-20 x 1/2", hex	ZH1/4-20X.500CH
NS	1	Conduit fitting	70610040
NS	1	Safety chain bracket	7064014COMP
NS	1	Trim ring leash assembly	7061010

^{*} Required with clear dome only

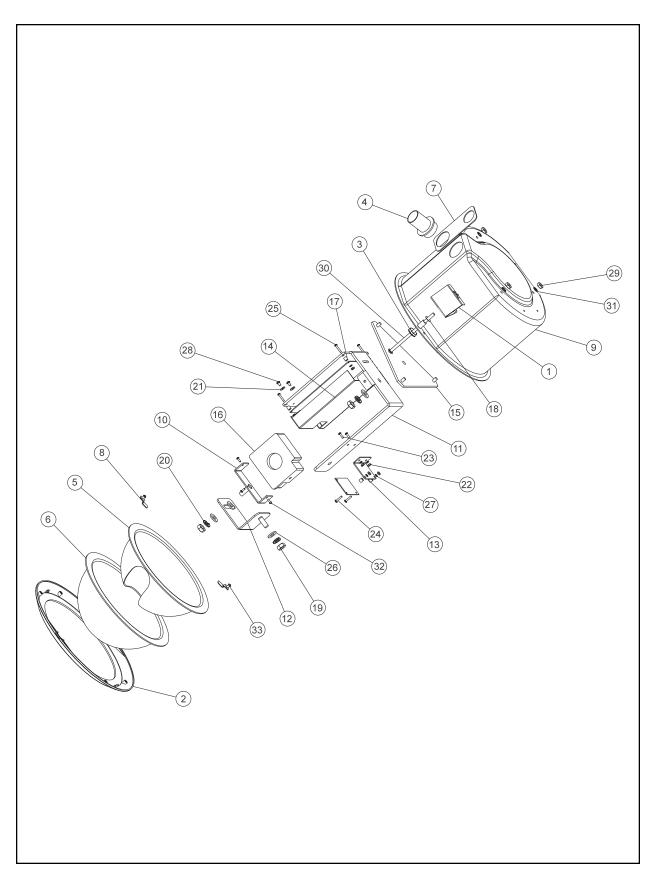


Figure 2. Exploded Assembly Diagram-DF5C and DF5M In-Ceiling Models

 Table B. Exploded Assembly Parts List–DF5C and DF5M In-Ceiling Models

Item	Quantity	Description	Part Number
1	2	Spring paddle	70610027
2	1	Trim ring	70610030
3	2	Trim ring snap washer	70610036
4	1	Conduit fitting	70610040
5*	1	Dome liner	70610046
6	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
		Acrylic dome (chrome)	70610005-02
		Acrylic dome (gold)	70610005-03
7	1	Safety chain bracket	7064014COMP
8*	2	Dome liner retainer	7064038COMP
9	1	Back box	7064040COMP
10	1	Camera mount	DF54003COMP
11	1	Camera/circuit board mount	DF54004COMP
12	1	Tilt table	DF54005COMP
13	1	Small circuit board bracket	DF54006COMP
14	1	Circuit board cover	DF54007COMP
15	1	Tilt table base plate	DF54008COMP
16	1	Camera, B&W, high resolution, 24 VAC, 1/2"	SC-BPL27
		Camera, color, high resolution, 24 VAC, 1/2"	SC-CPL27
17	6	Spacer	SPA9161
18	2	Push nut bolt retainer	ZH810000
19	3	Nut, 1/4-20	ZH1/4-20NUTCH
20	3	Split lock washer, 1/4"	ZH1/4LWSSL
21	2	Flat washer	ZH125X312X32S
22	8	Nut, 2-56	ZH2-56NUTSH
23	2	Screw, 2-56 x 5/16", pan head, Phillips	ZH2-56X.312SPP
24	2	Screw, 2-56 x 7/16", pan head, Phillips	ZH2-56X.437SPP
25	4	Screw, 2-56 x 1/2", pan head, Phillips	ZH2-56X.500SPS
26	4	Flat washer	ZH260X562X65C
27	8	Internal tooth lock washer, #2	ZH2LWSIS
28	2	Screw, 4-40 x 3/16", pan head, Phillips	ZH4-40X.187SPP
29	3	Nut, 8-32	ZH8-32NUTSH
30	2	Screw, 8-32 x 3-1/2", pan head, Phillips	ZH8-32X3.50SPP
31	3	Internal tooth lock washer, #8	ZH8LWSIS
32	3	Screw, M2 x 6, pan head, Phillips	ZHM2X6P.5SPP
33*	2	Screw, M3 x 5, pan head, black	ZHM3X5BPT
NS	1	Trim ring leash assembly	7061010

NS = Not shown
* Required with clear dome only

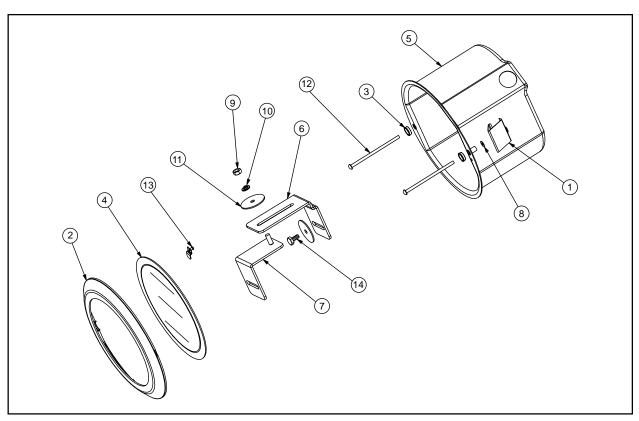


Figure 3. Exploded Assembly Diagram-DF5-0F and DF5-1F Flat Disk Models

 Table C. Exploded Assembly Parts List–DF5-0F and DF5-1F Models

Item	Quantity	Description	Part Number
1	2	Spring paddle	70610027
2	1	Trim ring	70610030
3	2	Trim ring snap washer	70610036
4	1	Acrylic flat disk (smoked) or	70610050-04
		Acrylic flat disk (clear)	70610050-05
5	1	Back box	7064022COMP
6	1	Tilt table support leg	DF54012COMP
7	1	Tilt table	DF54002COMP
8	2	Push nut bolt retainer	ZH810000
9	1	Nut, 1/4-20	ZH1/420NUTCHN
10	2	Split lock washer, 1/4"	ZH1/4LWSSL
11	3	Fender washer, 1/4"	ZH255X1.50X62
12	2	Screw, 8-32 x 3-1/2", pan head, Phillips	ZH8-32X3.50SPP
13	1	Screw, M3 x 5, pan head, black	ZHM3X5BPT
14	2	Screw, 1/4-20 x 1/2" hex	ZH1/4-20X.500CH
NS	1	Conduit fitting	70610040
NS	1	Conduit knock out seal	70610048
NS	1	Safety chain bracket	7064014COMP
NS	1	Trim ring leash assembly	7061010

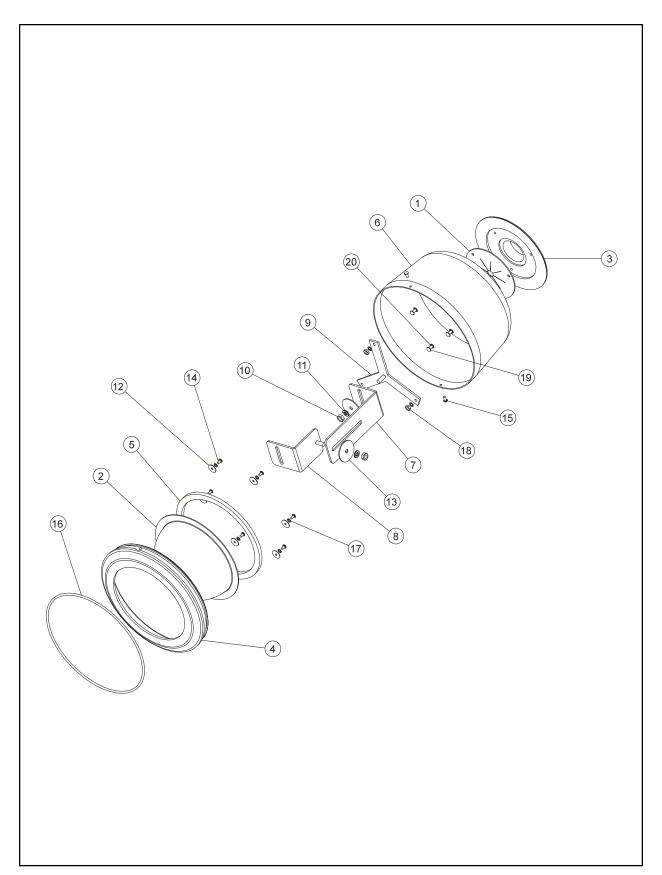


Figure 4. Exploded Assembly Diagram–DF5 Pendant Models (Original Version)

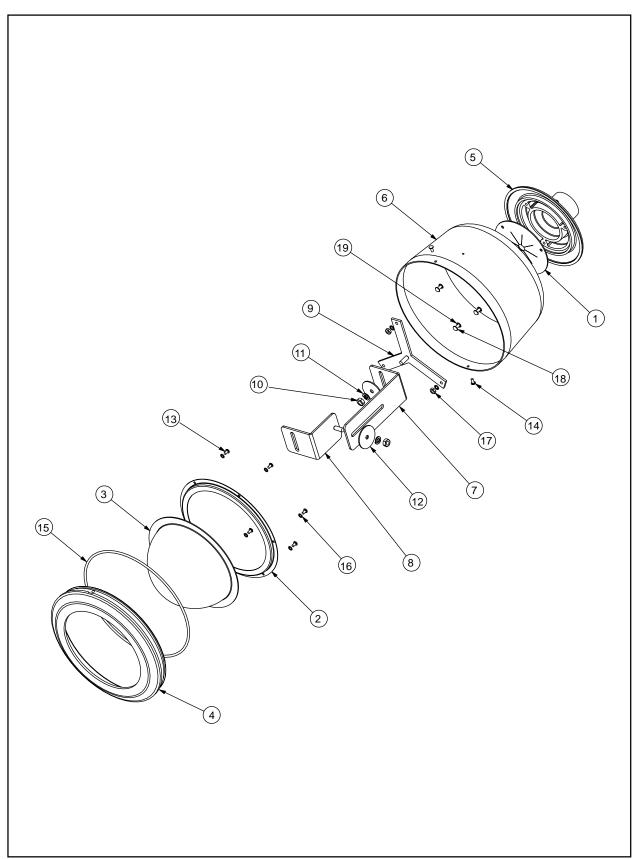


Figure 5. Exploded Assembly Diagram-DF5 Pendant Models (Newer Version)

Table D. Exploded Assembly Parts List-DF5 Pendant Models (Original Version)

Item	Quantity	Description	Part Number
1	1	Gasket	70610012
2	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
3	1	Top mount, black	7064016BCOMP
		Top mount, gray	7064016GCOMP
4	1	Trim ring, black	7064023BCOMP
		Trim ring, gray	7064023GCOMP
5	1	Lower dome retainer	7064027COMP
6	1	Back box, black	7064034BCOMP
		Back box, gray	7064034GCOMP
7	1	Tilt table support leg	DF54001COMP
8	1	Tilt table	DF54002COMP
9	1	Base plate	PDF54000COMP
10	2	Nut, 1/4-20	ZH1/4-20NUTCH
11	2	Split lock washer, 1/4"	ZH1/4LWSSL
12	6	Fender washer, #6 x 5/8"	ZH20-6X5/8"SS
13	2	Fender washer, 1/4"	ZH255X1.50X62
14	6	Screw, 6-32 x 1/4", pan head, Phillips	ZH6-32X.250SPP
15	2	Screw, 6-32 x 1/4", pan head, Phillips, black	ZH6-32X.250BPP
		Screw, 6-32 x 5/16", pan head, Phillips, gray	ZH6-32X.312GRAY
16	1	O-ring	ZH69-EP8X.139
17	6	Internal tooth lock washer, #6	ZH6LWSIS
18	3	Nut, 8-32	ZH8-32NUTSH
19	3	Screw, 8-32 x 3/8", pan head, Phillips	ZH8-32X.375SPP
20	6	Internal tooth lock washer, #8	ZH8LWSIS
NS	1	Trim ring leash assembly	7061005
NS	1	Top mount adapter (pipe nipple), black	7064028BCOMP
		Top mount adapter (pipe nipple), gray	7064028GCOMP
NS	1	Trim ring gasket	94510030

 Table E. Exploded Assembly Parts List–DF5 Pendant Models (Newer Version)

Item	Quantity	Description	Part Number
1	1	Gasket	70610012
2	1	Lower dome retainer	70610019
3	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
		Acrylic dome (chrome)	70610005-02
		Acrylic dome (gold)	70610005-03
4	1	Trim ring, black	7064023BCOMP
		Trim ring, gray	7064023GCOMP
5	1	Top mount, black	7064032BCOMP
		Top mount, gray	7064032GCOMP
6	1	Back box, black	7064034BCOMP
		Back box, gray	7064034GCOMP
7	1	Tilt table support leg	DF54001COMP
8	1	Tilt table	DF54002COMP
9	1	Base plate	PDF54000COMP
10	2	Nut, 1/4-20	ZH1/4-20NUTCH
11	2	Split lock washer, 1/4"	ZH1/4LWSSL
12	2	Fender washer, 1/4"	ZH255X1.50X62
13	6	Screw, 6-32 x 1/4", pan head, Phillips	ZH6-32X.250SPP
14	2	Screw, 6-32 x 1/4", pan head, Phillips, black	ZH6-32X.250BPP
		Screw, 6-32 x 5/16", pan head, Phillips, gray	ZH6-32X.312GRAY
15	1	O-ring	ZH69-EP8X.139
16	6	Internal tooth lock washer, #6	ZH6LWSIS
17	3	Nut, 8-32	ZH8-32NUTSH
18	3	Screw, 8-32 x 3/8", pan head, Phillips	ZH8-32X.375SPP
19	6	Internal tooth lock washer, #8	ZH8LWSIS
NS	1	Trim ring leash assembly	7061005
NS	1	Trim ring gasket	94510030

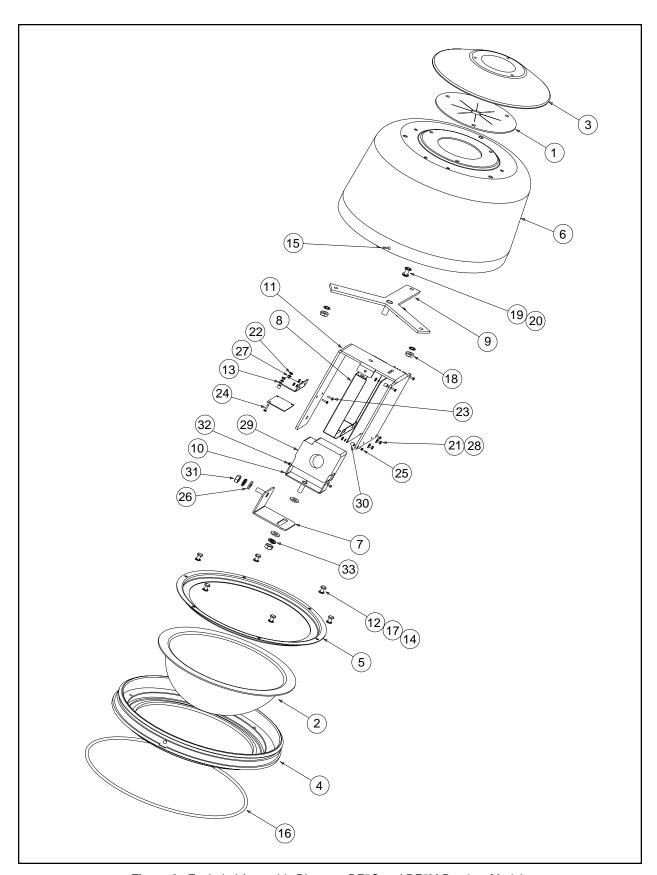


Figure 6. Exploded Assembly Diagram-DF5C and DF5M Pendant Models

Table F. Exploded Assembly Parts List– DF5C and DF5M Pendant Models

Item	Quantity	Description	Part Number
1	1	Gasket	70610012
2	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
		Acrylic dome (chrome)	70610005-02
		Acrylic dome (gold)	70610005-03
3*	1	Top mount, black	7064016BCOMP
		Top mount, gray	7064016GCOMP
4	1	Trim ring, black	7064023BCOMP
		Trim ring, gray	7064023GCOMP
5**	1	Lower dome retainer	7064027COMP
6	1	Back box, black	7064034BCOMP
		Back box, gray	7064034GCOMP
7	1	Tilt table	DF54005COMP
8	1 1	Circuit board cover	DF54007COMP
9	1 1	Base plate	PDF54000COMP
10	1 1	Camera mount	DF54003COMP
11	l i	Camera/circuit board mount	DF54004COMP
12***	6	Fender washer, #6 x 5/8"	ZH20-6X5/8"SS
13	1	Small circuit board bracket	DF54006COMP
14	6	Screw, 6-32 x 1/4", pan head, Phillips	ZH6-32X.250SPP
15	2	Screw, 6-32 x 1/4", pan head, Phillips, black	ZH6-32X.250BPP
13		Screw, 6-32 x 5/16", pan head, Phillips, gray	ZH6-32X.312GRAY
16	1	O-ring	ZH69-EP8X.139
17	6	Internal tooth lock washer, #6	ZH6LWSIS
18	3	Nut, 8-32	ZH8-32NUTSH
19	3	Screw, 8-32 x 3/8", pan head, Phillips	ZH8-32X.375SPP
20	6	Internal tooth lock washer. #8	ZH8LWSIS
21	2	Flat washer	ZH125X312X32S
22	8	Nut, 2-56	ZH2-56NUTSH
23	2	Screw, 2-56 x 5/16", pan head, Phillips	ZH2-56X.312SPP
23	2	Screw, 2-56 x 7/16", pan head, Phillips	ZH2-56X.437SPP
25	4		
25 26	4	Screw, 2-56 x 1/2", pan head, Phillips Flat washer	ZH2-56X.500SPS ZH260X562X65C
26	8	Internal tooth lock washer, #2	ZH260X562X65C ZH2LWSIS
28	2		ZH2LWSIS ZH4-40X.187SPP
28 29	1	Screw, 4-40 x 3/16", pan head, Phillips Camera, B&W, high resolution, 24 VAC, 1/2"	SC-BPL27
29	1		
20		Camera, color, high resolution, 24 VAC, 1/2"	SC-CPL27
30	6	Spacer	SPA9161
31	3	Nut, 1/4-20	ZH1/4-20NUTCH
32	3	Screw, M2 x 6, pan head, Phillips	ZHM2X6P.5SPP
33	3	Split lock washer, 1/4"	ZH1/4LWSSL
NS NC*	1	Trim ring leash assembly	7061005
NS*	1	Top mount adapter (pipe nipple), black	7064028BCOMP
		Top mount adapter (pipe nipple), gray	7064028GCOMP
NS	1	Trim ring gasket	94510030

Part numbers shown are for original versions. Newer versions have the two parts combined into one piece with part numbers of 7064032BCOMP (black) and 7064032GCOMP (gray).
 New models use 70610019 which can be used in place of 7064027COMP.

^{***} Not required with 70610019.

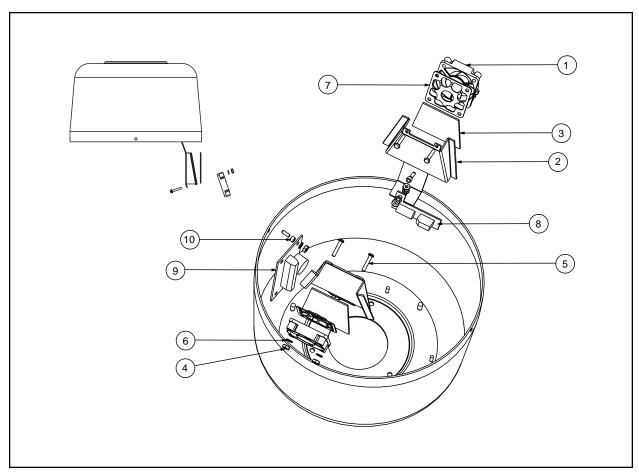


Figure 7. Exploded Assembly Diagram-Heater Segment in Pendant Back Box

Table G. Exploded Assembly Parts List-Heater Segment in Pendant Back Box

Item	Quantity	Description	Part Number
1	2	Fan, 1 W, 12VDC	70610013
2	2	Fan shroud and heater bracket	7064035COMP
3	2	Heater pad, 15 W, 24 VAC	HT01-0321-0202
4	7	Nut, 4-40	ZH4-40NUTSH
5	4	Screw, 4-40 x 5/8", pan head, Phillips	ZH4-40X.625SPP
6	7	Internal tooth lock washer, #4	ZH4LWSIS
7	2	Fan finger guard	7064002COMP
8	1	Fan rectifier circuit board	PCB9000277ASSY
9	1	Thermostat/terminal block circuit board	PCB9000300ASSY
		On at 70° F (21° C)	
		Off at 85° F (29° C)	0010010
10	2	Spacer, 3/16" diameter x .125", #4	SPA9015

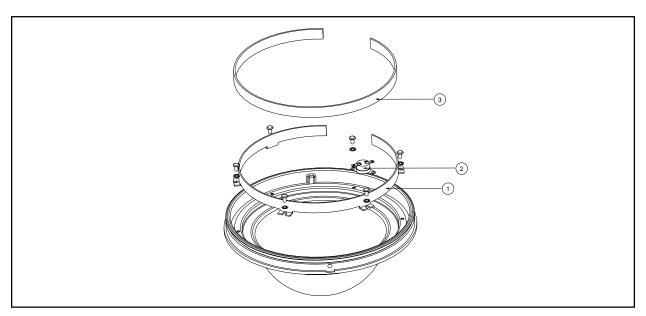


Figure 8. Exploded Assembly Diagram-Heater Segment in Pendant Lower Dome

Table H. Exploded Assembly Parts List-Heater Segment in Pendant Lower Dome

Item	Quantity	Description	Part Number
1	1	Heater bracket	7064041COMP
2	1	Thermostat On at 40° F (4° C) Off at 60° F (16° C)	EH5510049A
3	1	Heater pad, 30 W, 24 VAC	HT01-0621-20.5

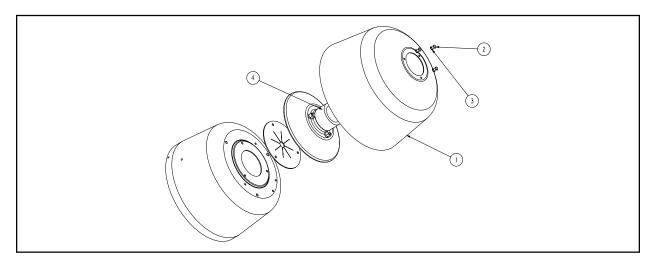


Figure 9. Exploded Assembly Diagram-Sun Shield

Table I. Exploded Assembly Parts List-Sun Shield

Item	Quantity	Description	Part Number
1	1	Sun shield, light gray	7064033COMP
2	3	Screw, 6-32 x 5/16", pan head, Phillips, gray	ZH6-32X.312GRAY
3	3	Internal tooth lock washer, #6	ZH6LWSIS

Original models do not have the pipe (4) built-in to the top mount. Original models require three 6-32 x .375" spacers, part number SPA9500.

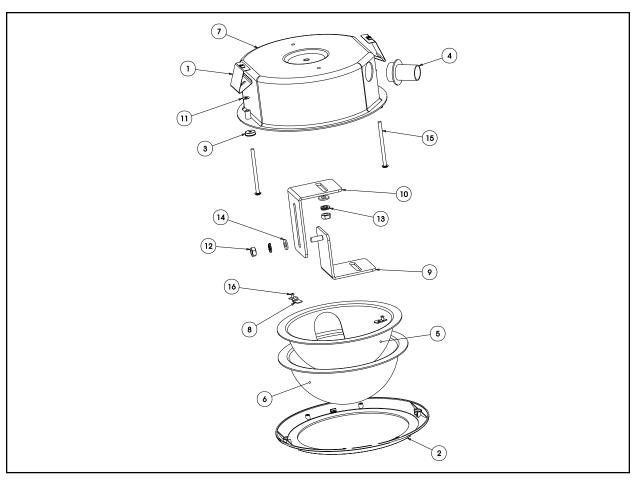


Figure 10. Exploded Assembly Diagram-DF5S

Table J. Exploded Assembly Parts List-DF5S

Item	Quantity	Description	Part Number
1	2	Spring paddle	70610027
2	1	Trim ring	70610030
3	2	Trim ring snap washer	70610036
4	1	Conduit fitting	70610040
5*	1	Dome liner	70610046
6	1	Acrylic dome (smoked)	70610015-04
		Acrylic dome (clear)	70610015-05
		Acrylic dome (chrome)	70610005-02
		Acrylic dome (gold)	70610005-03
7	1	Back box	7064031COMP
8*	2	Dome liner retainer	7064038COMP
9	1	Tilt table	DF54002COMP
10	1	Tilt table support leg	DF54011COMP
11	2	Push nut bolt retainer	ZH810000
12	2	Nut, 1/4-20	ZH1/4-20NUTCH
13	2	Split lock washer, 1/4"	ZH1/4LWSSL
14	2	Flat washer, 1/4"	ZH260X562X65C
15	2	Screw, 8-32 x 2-1/2", pan head, Phillips	ZH8-32X2.50CPS
16*	2	Screw, M3X5	ZHM3X5BPT
NS	1	Beauty ring (surface-mount application only)	DF5S-SMKIT
NS	1	RG174/U miniature coaxial cable assembly	DF51020
NS	1	Safety chain bracket	7064014COMP
NS	1	Trim ring leash assembly	7061010

^{*} Required with clear dome only

5.0 WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment. Exceptions to this warranty are as noted below:

- Three years on Genex[™] Series (multiplexers, keyboard and server).
- Two years on all standard motorized and fixed focal length lenses.
- Two years on Legacy®, Intercept®, PV1000 Series, CM6700/CM8500/CM9500/ CM9750/CM9760 Matrix, Spectra®, DF5 Series and DF8 Fixed Dome products.
- Two years on WW5700 series window wiper (excluding wiper blades).
- Two years on cameras.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warranty all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- 1. Model and serial number
- 2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Ship freight prepaid to: Pelc

300 West Pontiac Way Clovis, CA 93612-5699

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair). Goods returned for repair or credit should be clearly identified with the assigned CA/RA number and freight should be prepaid. All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Ship freight prepaid to: Pelco

300 West Pontiac Way Clovis, CA 93612-5699

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