**System Overview**

These instructions review how to install surface mount fixtures.

*Note: For surface mounted conduit and junction boxes, can be installed using the extension collar kit (optional, ordered separately).*

**Tools required:**
- 7/16" deep socket
- Phillips screwdriver (for extension collar only)

**Fixture components:**
1. Standard ceiling bracket (9404317)
2. White plugs, plastic (5007063)
3. 1/4"-20 Nyloc nut (5006536)
4. 1/4"-20 hex nut (5006955)
5. Aircraft cable 12" (5002426)
6. Mounting bracket - 1x4 only (9404327)

**Extension collar kits: components (optional):**
- 2'x2' Extension Collar Kit (322ZK02)
- 2'x4' Extension Collar Kit (324ZK02)
- 1'x4' Extension Collar Kit (321ZK02)

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**FOR RECESSED JUNCTION BOXES & CONDUIT ONLY**

*Note: For surface mounted junction boxes & conduit, refer to page 3*

1. **Drill ceiling anchor holes**
   - Use supplied mounting template to drill holes in correct location.
   - Note: See page 5 for installation dimensions.

2. **Install anchors**
   - Install 1/4"-20 anchors (supplied by others) to ceiling making sure they protrude between 7/8" to 1-1/8".
   - Note: See page 3 for surface mount conduit and junction box installation dimensions.

3a. **Attach ceiling brackets - 2’x2’ and 2’x4’ fixtures only**
   - 2'x2'/2'x4' fixtures only - Attach ceiling brackets in the orientation shown using the supplied 1/4"-20 hex nut.
   - Note: 1x4 fixtures shown in Step 3b.

3b. **Attach ceiling & mounting brackets - 1’x4’ fixtures only**
   - 1’x4’ fixture only - Attach ceiling and mounting brackets using supplied 1/4"-20 nuts as shown.
   - Note: 2x2/2x4 fixtures shown in Step 3a.

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**Installation Instructions**

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Installation Instructions

Surface Mount Fluorescent
Shine (33), Pique (91), PureFX (94), Vectra (97) and Voice (98)

**ATTENTION:** Install in accordance with national and local building and electrical codes.

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**4 Attach aircraft cables to ceiling brackets**

Attach aircraft cables to ceiling brackets (4x).

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**5 Prepare fixtures**

Remove door.

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**6a Attach fixture to aircraft cables - 2’x2’ and 2’x4’**

Raise fixture and install aircraft cable through hole following the zigzag pattern (4x).

Note: For 2x2 and 2x4 fixtures, see Step 6a. For 1x4 fixtures, see Step 6b.

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**6b Attach fixture to aircraft cables - 1’x4’**

Note: 1x4 fixture shown

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**7 Complete electrical connections**

While fixture is hanging by aircraft cables, complete electrical connections.

Note: Use purple and gray conductors for 0-10V dimming ballast only. For all other ballasts, keep conductors terminated.

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**8 Attach fixture to ceiling brackets**

Raise fixture to ceiling and attach fixture to ceiling brackets through holes in housing using 1/4"-20 Nyloc nuts.

Note: 2x2 fixture shown

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**9 Plug mounting holes in fixture**

Plug mounting holes in fixture with supplied white plugs.

Note: 2x2 fixture shown

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**10 Install lamps and re-install door**

Install lamps and re-install door.
Installation Instructions

FOR SURFACE MOUNTED JUNCTION BOXES & CONDUIT ONLY

1. Drill ceiling anchor holes
   Use supplied mounting template to drill holes in correct location according to fixture type.
   Note: See page 5 for installation dimensions.

2. Assemble extension collar kit
   Snap extension collar sections together. If necessary, cut out location for conduit.
   IMPORTANT: Maximum height of compatible surface mounted junction box is 1-5/8”.

3. Secure extension collar to fixture
   Attach extension collar to fixture using the #8-1/4” Phillips screws provided.

4. Install anchors
   Install 1/4”-20 anchors (supplied by others) to ceiling making sure they protrude between 1-11/16” to 1-15/16”.
   Note: See page 1 for recessed mounted conduit and junction box installation dimensions.

5a. Attach ECCB extension collar ceiling brackets - 2’x2’ and 2’x4’
   Attach ECCB extension collar ceiling brackets in the orientation shown using the supplied 1/4”-20 nut.
   Standard L-shaped ceiling brackets are to be discarded when using the extension collar kit.
   Note: For 1x4 fixtures, see next Step 5b.

5b. Attach ECCB extension collar & mounting brackets - 1’x4’ only
   1’x4’ fixture only - attach ECCB extension collar brackets and mounting brackets using supplied 1/4”-20 nuts as shown. Do not overtighten.
   Note: For 2x2 and 2x4 fixtures, see previous Step 5a.

6. Attach aircraft cables to ECCB extension collar ceiling brackets
   Attach aircraft cables to ceiling brackets.

7. Prepare fixtures
   Remove door.

ATTENTION: Install in accordance with national and local building and electrical codes.

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8a Attach fixture to aircraft cables - 2’x2’ and 2’x4’

Note: 2x2/2x4 fixture shown
Raise fixture and attach aircraft cables to fixture into zigzag patterns as shown (4x).
Note: For 2’x2’ and 2’x4’ fixtures, see Step 8a For 1’x4’ fixtures, see Step 8b.

8b Attach fixture to aircraft cables - 1’x4’

Note: 1x4 fixture shown
While fixture is hanging by aircraft cables, complete electrical connections.
Note: Use purple and gray conductors for 0-10V dimming ballast only. For all other ballasts, keep conductors terminated.

9 Complete electrical connections

Attach fixture to ceiling brackets

10 Attach fixture to ceiling brackets

Raise fixture to ceiling and attach fixture to ceiling brackets through holes in housing using 1/4”-20 Nyloc nuts.

11 Plug mounting holes in fixture

Plug mounting holes in fixture with supplied white plugs.

12 Install lamps and re-install door

Install lamps and re-install door.

ATTENTION: Install in accordance with national and local building and electrical codes.
ATTENTION: Install in accordance with national and local building and electrical codes.