KTN KTN-S/KTN-M/KTN-L LED Area Light
INSTALLATION INSTRUCTIONS

WARNING: *ALWAYS INSTALL FIXTURES ACCORDING TO NATIONAL ELECTRICAL CODE (NEC) AND LOCAL CODES. FAILURE TO DO SO WILL VOID THE WARRANTY AND COULD CAUSE DAMAGE TO THE FIXTURE OR MAY RESULT IN PERSONAL INJURY.*

This information deals with structures supplied by Techlight along with certain safety issues. It is NOT a comprehensive description of how to install these structures. Installation contractors must be relied upon for equipment and practices that meet the conditions of each job location. Techlight cannot be responsible for any damage that may occur during or after installation, or for any structure that has been modified by the purchaser or that is used in some way other than our application recommendations.

⚠ **CAUTION:** *MAKE CERTAIN POWER SUPPLY IS DISCONNECTED DURING INSTALLATION! TURN ELECTRICITY OFF AT THE CIRCUIT BREAKER BEFORE INSTALLING OR PERFORMING MAINTENANCE ON FIXTURE.*

HARDWARE KITS: **Each mounting option is provided with a Hardware Kit specific to that mounting option.**

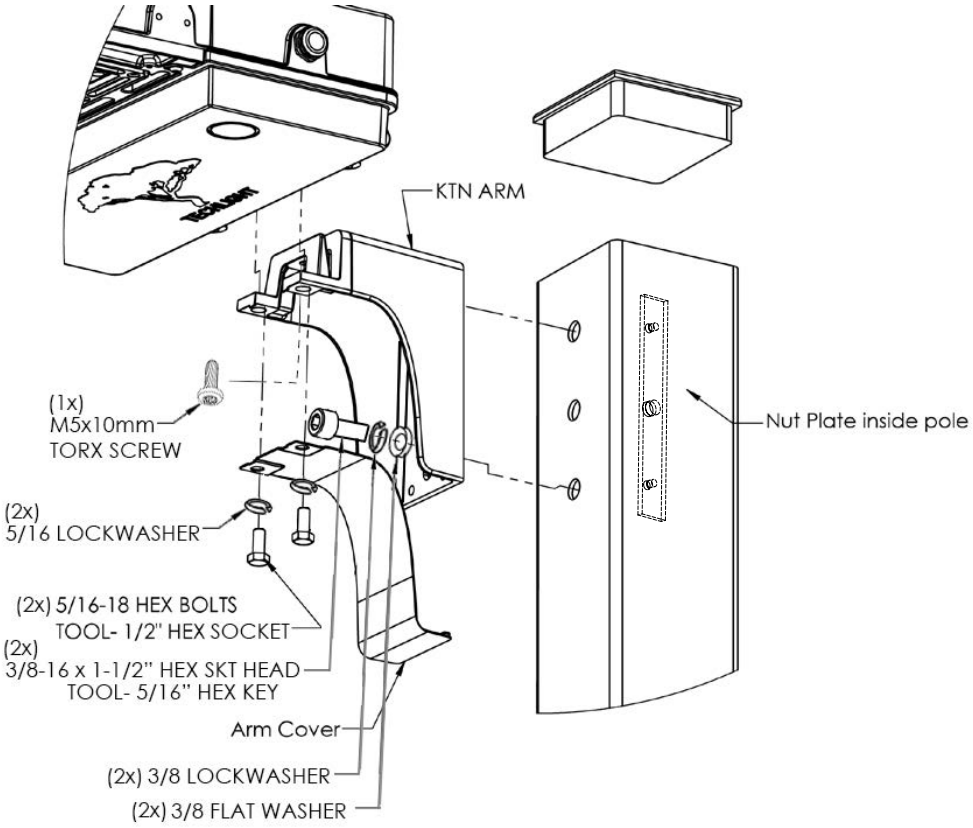
NOTE: Always verify the voltage at which the incoming power is supplied. The KTN fixture is available in two separate models; one auto-ranging from 100V~300V and another model for 347V~480V operation. If lens is damaged, replace with a new Techlight specific lens.

INSTALLATION USING THE KTN ARM

a. Tools Required: 5/16" hex key or Allen wrench,1/2" hex socket, T25 Torx bit

1. **Remove** the wire access cover on the KTN ARM to expose the mounting holes used to mount the arm to the pole.
2. **Position** the nut plate inside the pole so that the mounting holes in the nut plate and pole line up with the mounting holes in the KTN ARM **(FIGURE 1)**.
   If mounting on a round pole use the round pole adaptor - KTN(4RA or 5RA); 4" or 5" pole, position the round pole adapter between the pole and KTM ARM.
3. **Secure** the mounting arm to the pole using the (2) flat washers, (2) lock washers, (2) 3/8"-16 x 1-1/2" Socket head bolts. Torque bolts to 30-35 ft/lbs. minimum.
4. **Pull** the fixture whip into the wiring chamber of the mounting arm and slide the fixture onto the slide mount onto the arm **(FIGURE 1)**.
5. **Slide** fixture onto the KTN arm. Attach using (2) 5/16-18 hex bolts, (2) 5/16 lockwashers. Torque bolts to 12-15 ft/lbs. minimum.
6. **Secure** the fixture to the arm using (1) M5x10mm Torx Screw with a T25 Torx bit. Torque to 30-35 in/lbs. minimum.
7. **Connect** the power to the lighting fixture whip inside the KTN ARM according to local code and the National Electric Code (NEC).
8. **Close** the wire access cover of the KTN ARM. Then insert and tighten the (2ea) 5/16-18 hex screws. Tighten cap screws to 12-15 ft/lbs. torque min.

FIGURE 1 KTN ARM - POSTION ON POLE & PULL WIRING THROUGH

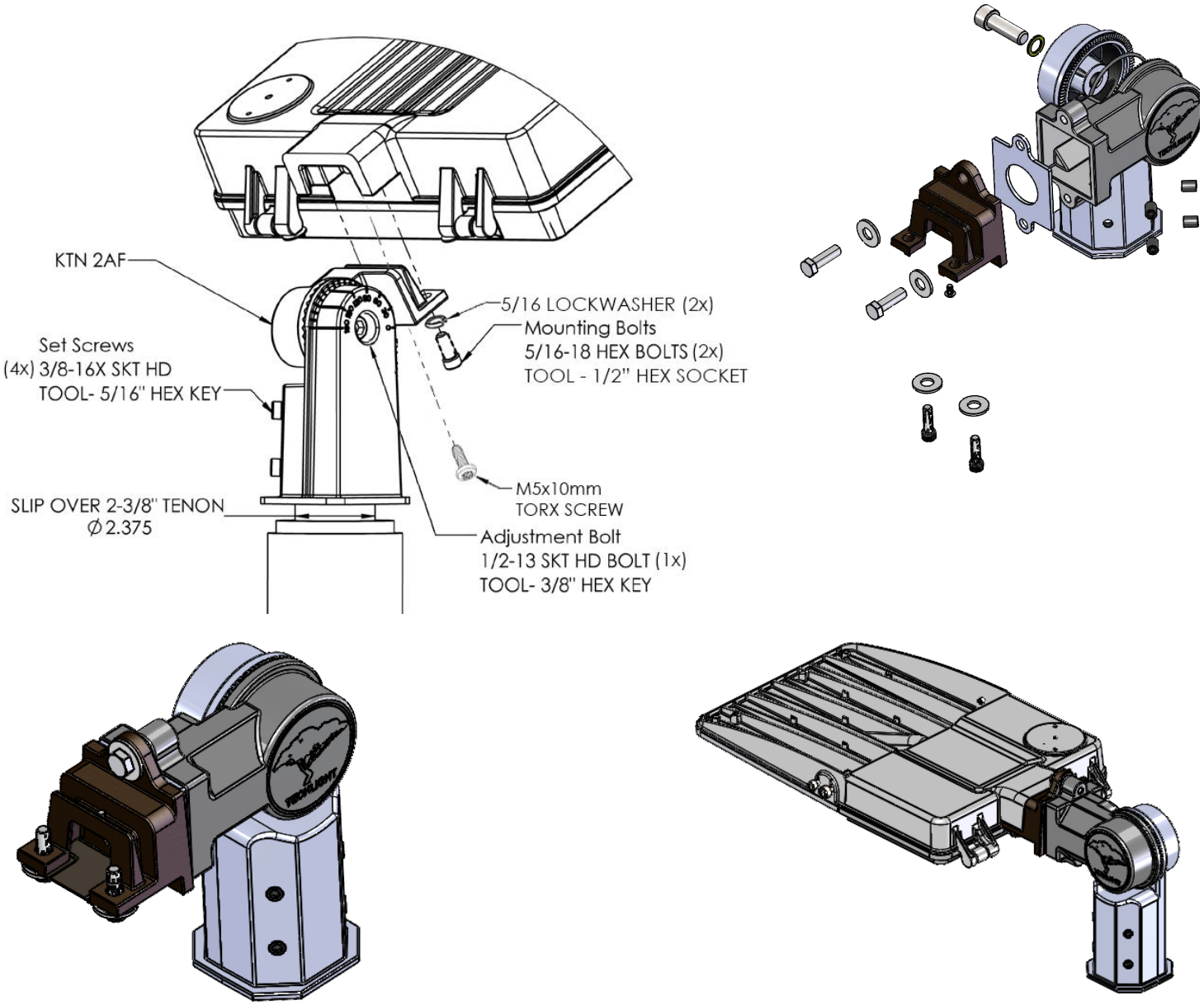


INSTALLATION USING THE KTN 2AF

a. Tools Required: 3/8" hex key or Allen wrench, 1/2" socket, 5/16" hex key or Allen wrench, T25 Torx bit

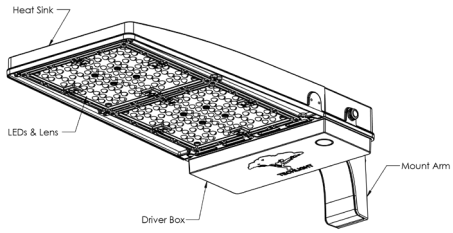
1. **Pull** the fixture whip through the KTN 2AF and slide the fixture onto the slide mount adapter part of the KTN 2AF **(Figure 2)**.
2. **Connect** the power to the lighting fixture whip according to local code and the National Electric Code (NEC).
3. **Attach** the fixture to the KTN slide mount adapter section of the KTN 2AF using (2) 5/16-18 hex bolts and (2) 5/16 lockwashers. Torque bolts to 12-15 ft/lbs.
4. **Secure** the fixture to the 2AF using (1) M5x10mm Torx screw with a T25 Torx bit.
5. **Mount** the KTN 2AF onto a 2-3/8" OD tenon (2" Nominal Pipe). Place KTN 2AF on pole tenon and orient to desired position. Tighten set screws lightly.
6. **Adjust** the fixture angle and tighten the adjustment bolt on the side of the KTN 2AF using 3/8" hex key. Torque bolts to 30-35 ft/lbs. minimum.
7. **Rotate** the fixture to the final desired orientation and secure the KTN 2AF onto the tenon by tightening the (4) set screws with 5/16" hex key. Torque set screws to 20 ft/lbs. minimum.

FIGURE 2 KTN 2AF - MOUNT 2AF ONTO TENON & PULL WIRING THROUGH



FOR SERVICING

a. Tools Required: T15 Torx screw driver and T25 Torx screw driver

1. **Order** Techlight driver for specific fixture model in advance.
2. **Access** the LED driver compartment for servicing by removing the three #10-24 pan head captive screws, located on the driver access door using T25 Torx screw driver **(FIGURE 4)**.
3. **Replace** old LED drivers with new LED drivers. Secure driver in place with #8 screws using T15 Torx screw driver.
4. **Ensure** gasket is in place and all wires are inside driver box before closing to ensure watertight seal.
5. **Close** driver box cover using three #10-24 pan head captive screws with T25 Torx screw driver. Torque bolts to 20-25 in/lbs. minimum.

DO NOT TILT KTN MORE THAN 45 DEGREES UPWARD FROM HORIZONTAL!