



**Franklin Electric**  
**GRID SOLUTIONS**

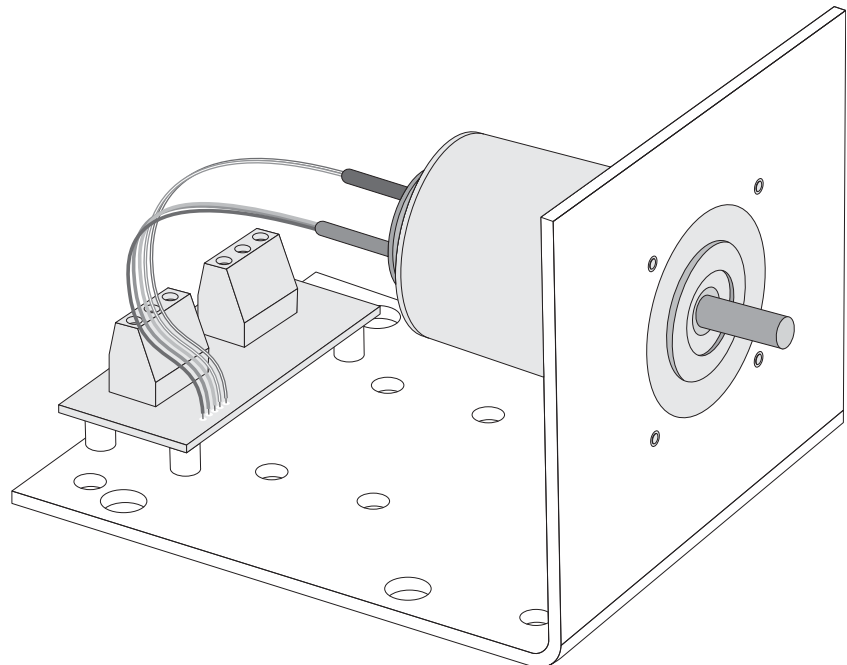
# SYNCHRO COUPLING AND MOUNT

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## REFERENCE GUIDE

000-1371 r4

**Synchro Transmitters**  
1292K  
1292KS



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### **Conventions used in this manual**

This manual includes safety precautions and other important information presented in the following format:

**NOTE:** This provides helpful supplementary information.

**IMPORTANT:** This provides instructions to avoid damaging hardware or a potential hazard to the environment, for example: fuel leakage from equipment that could harm the environment.

**▲ CAUTION:** This indicates a potentially hazardous situation that could result in minor or moderate injury if not avoided. This may also be used to alert against unsafe practices.

**▲ WARNING:** This indicates a potentially hazardous situation that could result in severe injury or death if not avoided.

**▲ DANGER:** This indicates an imminently hazardous situation that will result in death if not avoided.

### **Operating precautions**

**▲ WARNING:** IMPORTANT SAFETY INSTRUCTIONS. BEFORE INSTALLING ANY FRANKLIN ELECTRIC GRID SOLUTIONS EQUIPMENT, READ THIS GUIDE AND FOLLOW SAFETY AND OPERATING INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

**▲ WARNING:** Do not disassemble any equipment; contact Franklin Electric Grid Solutions when a repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

**▲ WARNING:** To avoid electric shock, abide by your company's safety practices and the following guidelines:

**▲ WARNING:** Perform service work only for which you have been trained.

**▲ WARNING:** Refer to NFPA 70E for electrical safety requirements.

**▲ WARNING:** Use of Personal Protection Equipment (PPE) and Protective Clothing per NFPA 70E guidelines is required. Some examples of these, but not limited to, are: Electrical-insulating Protective gloves, Protective footwear; Protective clothing for voltage levels, Insulated rescue hooks or other means for pulling personnel from live circuits.

**▲ WARNING:** Before working with electricity, remove personal metal items such as rings, bracelets, necklaces, watches, etc. A short-circuit current can be high enough to weld such items, causing a severe burn.

**▲ WARNING:** Always wear safety glasses with side shields.

**▲ WARNING:** To avoid a risk of serious injury or death, DO NOT come into contact with any source of live, electric current.

**▲ WARNING:** Avoid simultaneous contact with live conductors and enclosures, racks, or hardware that may be grounded.

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# 1 Introduction

The purpose of this document is to inform technicians of the mounting hole dimensions and mechanical synchro couplings, models 1292K and 1292KS, Synchro Transmitters with mounting brackets.

## 1.1 Documentation

- This document is intended for qualified and certified installation persons.
- Instructions of this document are in English. All other language versions are translations of this original document.
- Illustrations in this document show a typical setup and are for instruction and description purposes only.
- The information given in this document is given as a guide only. It is the installer's responsibility to ensure that correct and safe procedures are followed at the worksite.

### 1.1.1 Symbol Legend



Wear Protective Headwear



Wear Eye Protection



Wear Protective Clothing



Wear High-Visibility Clothing



Wear Protective Gloves



Wear Safety Footwear



Refer to instruction guide.



Disconnect main plug from electrical outlet.



Disconnect before carrying out maintenance or repair.



Warning: Electricity



General Warning



Warning: Flammable Material



No open flame; Fire, open ignition source and smoking prohibited

## 2 Safety/Security

### 2.1 General Safety Information

- Only perform procedures in this document that you are qualified and certified to perform.
- Personnel working on or with energized equipment must be authorized by relevant regulatory bodies to carry out such work and must have the appropriate training. Check with your employer and relevant regulatory body's rules for working with energized equipment.
- Obey all local laws, rules, regulations, and instructions in this document. In case of inconsistency or contradiction between information contained in this document and any laws, rules and regulations, obey the stricter of the two.
- Keep unqualified personnel at a safe distance during installation.
- Always wear all required PPE on-site and during installation.
- If it is necessary to remove safety/security devices, immediately reinstall the safety/security devices after completing the work.

### 2.2 Hazard Assessment

Prior to beginning work and prior to recommencing work after leaving and returning to the worksite, a worksite, *pre-job hazard assessment* must be performed to identify safety and environmental needs. At a minimum, this hazard assessment should:

- Identify possible hazards and risks.
- Identify the safety needs of the job.
- Identify the correct procedures, practices and equipment.
- Eliminate unsafe conditions and actions from the worksite.
- Identify the need for personal protective equipment.
- Inspect equipment before use.
- Confirm sheaths of all cables are secured and undamaged.
- Confirm plugs and connectors are properly connected and serviceable.
- Perform ongoing risk assessment during the project.

### 2.3 Required Personal Protective Equipment (PPEs)

These PPEs are required during all phases of installation.



Wear Protective Clothing



Wear Eye Protection



Wear High-Visibility Clothing



Wear Protective Gloves



Wear Protective Headwear



Wear Safety Footwear

# 3 Pre-Installation Inspection

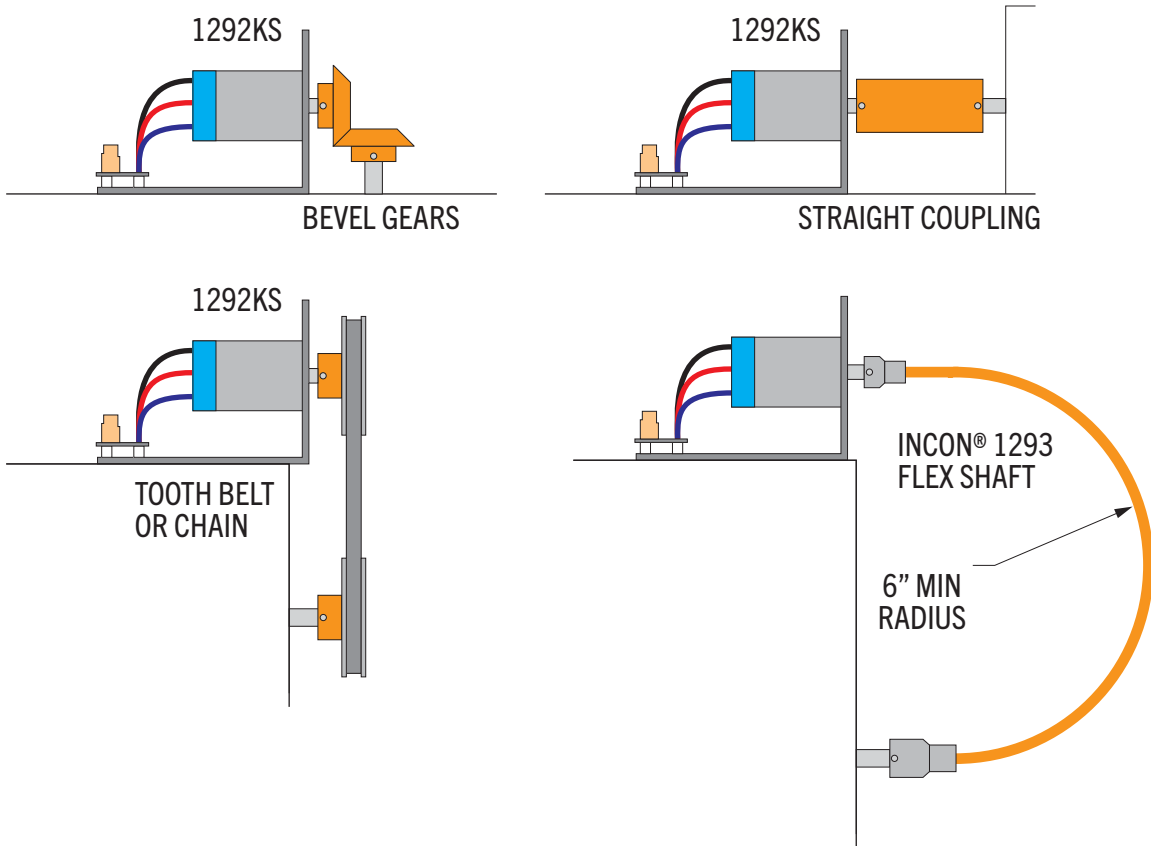
Upon receipt of your item(s),

1. Verify all items are in accordance with the order.
2. Check all items for damage.
3. If any item shows damage or is not in accordance with the order, inform Franklin Electric Grid Solutions *immediately*.
4. Remove the packaging material.
  - Follow all local laws, rules and regulations regarding disposal of discarded parts, packaging material or items and any subsequent components.

# 4 Mechanical Synchro Couplings with Mount

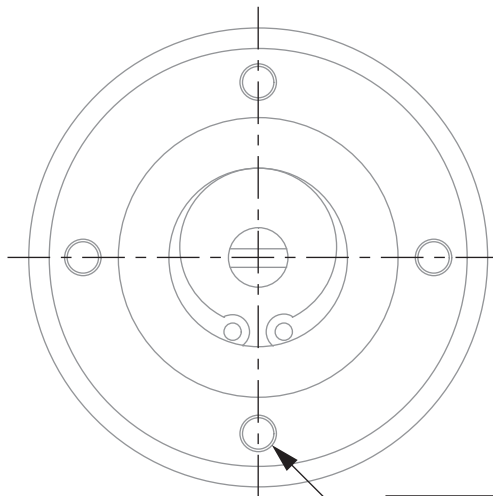
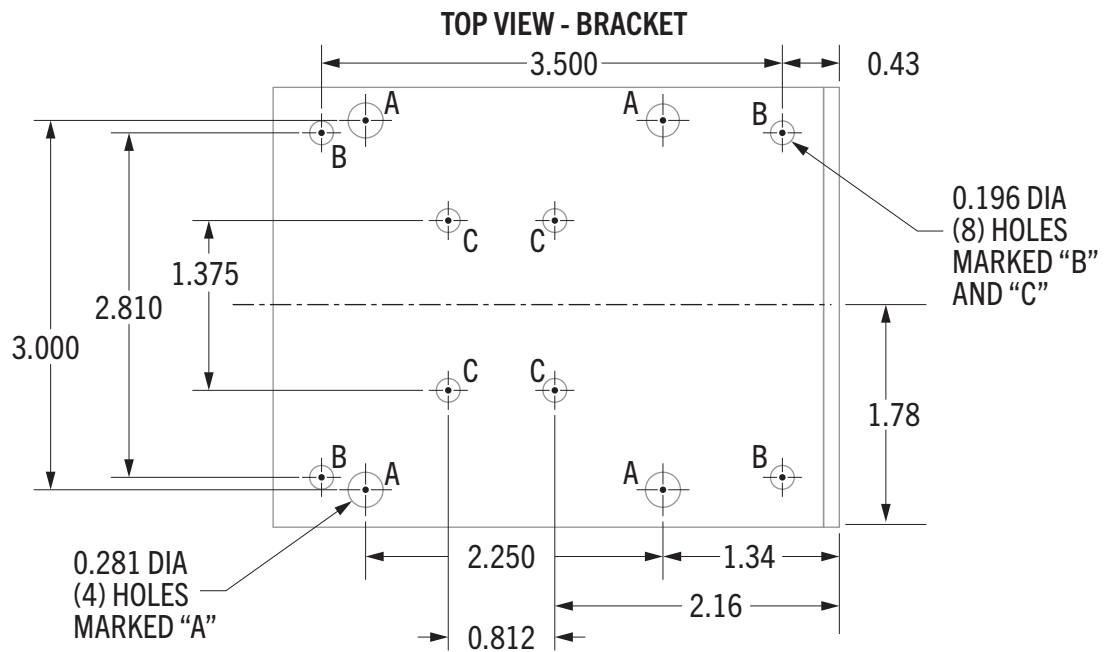


## 4.1 Mechanical Synchro Couplings



## 4.2 Bracket Mounting Hole Locations

Hole patterns "A", "B", and "C" match typical mounting patterns of synchro motors made by several manufacturers.



4X #4-40 UNC-2B TAPPED  
HOLES EQUALLY SPACED ON  
 $\varnothing 1.100 \pm .003$   
SCREWS MUST NOT ENTER  
MORE THAN .125.



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