**SBE P/N 80403**

| DATE | REV | REVISION RECORD | AUTH | DR | CHK |
|------|-----|-----------------|------|----|----|
| 10.03 |  | Change to Drawing only | CB | KLP |  |
| 3.9.04 | A | Changed 30452 to 31263 | CB | KLP |  |

# SBE3 to SBE21 Remote Temperature Mount Kit

*Kit Contents*

| SBE P/N | Manufacturer P/N | Primary SBE Application | QTY |
|---------|-----------------|------------------------|-----|
| 23404 | Temp Plenum Retainer | Secures Temp Sensor To Plenum | 1 |
| 23405 | Temp Plenum, Stainless Steel | Provides water flow to temp probe | 1 |
| 23618 | SBE 21 Remote Temp Mount Plug | Seals Plenum Retainer opening when not in use | 1 |
| 30254 | Washer, ¼" Split Ring Lock | Use with Plenum Hardware (30451) | 2 |
| 30451 | Bolt, ¼-20 x 2-3/4 HEX SS | Secure Plenum Retainer to Plenum | 2 |
| 30570 | Washer, ¼" Flat SS | Use with Plenum Hardware (30451) | 2 |
| 30809 | Morrison seal, .047" hole, Nit | Fits in between Plenum and Plenum Retainer | 1 |
| 31263 | Pipe, 1" Threaded, SS | Interface Plenum to plumbing system | 2 |

## *Procedure for Installation*

*Drawing number 67040*

**A. Assembling The Plenum**
1. Lubricate the Morrison seal with a Silicone-based lubricant. Never use a Petroleum-based lubricant on SBE o-rings and seals.
2. Clean the Morrison seal surface on the Stainless Steel Plenum (23405) and install the Morrison seal with hole facing out of the plenum.
3. Place the Plenum Retainer (23404) so that the small hole rests on top of the Morrison seal.
4. Secure the Retainer to the Plenum with two bolts (30451) and washers (30254, 30570). The lock washer should rest between the bolt head and the flat washer.
5. Wrap plumber's tape around the threads of the pipes and install them into the plenum as needed to make the assembly fit your present plumbing configurations.

**B. Installing The Sensor**
1. Remove the Temperature Probe Guard from your SBE 3S sensor.
2. Insert the temperature probe carefully into the Plenum Retainer and screw it in until flush.
3. When the sensor is not in use, replace the probe with the temperature mount plug (23618). Be sure to re-install the probe guard onto the SBE 3S before storing it or putting it to other uses.

Parent Part Number: 80403 / 90387
SBE Drawings:
    **67040** SBE3S, External Temp Mount Kit
Assembly

**Sea-Bird Electronics Procedure**
PROCEDURE NUMBER: **67040**
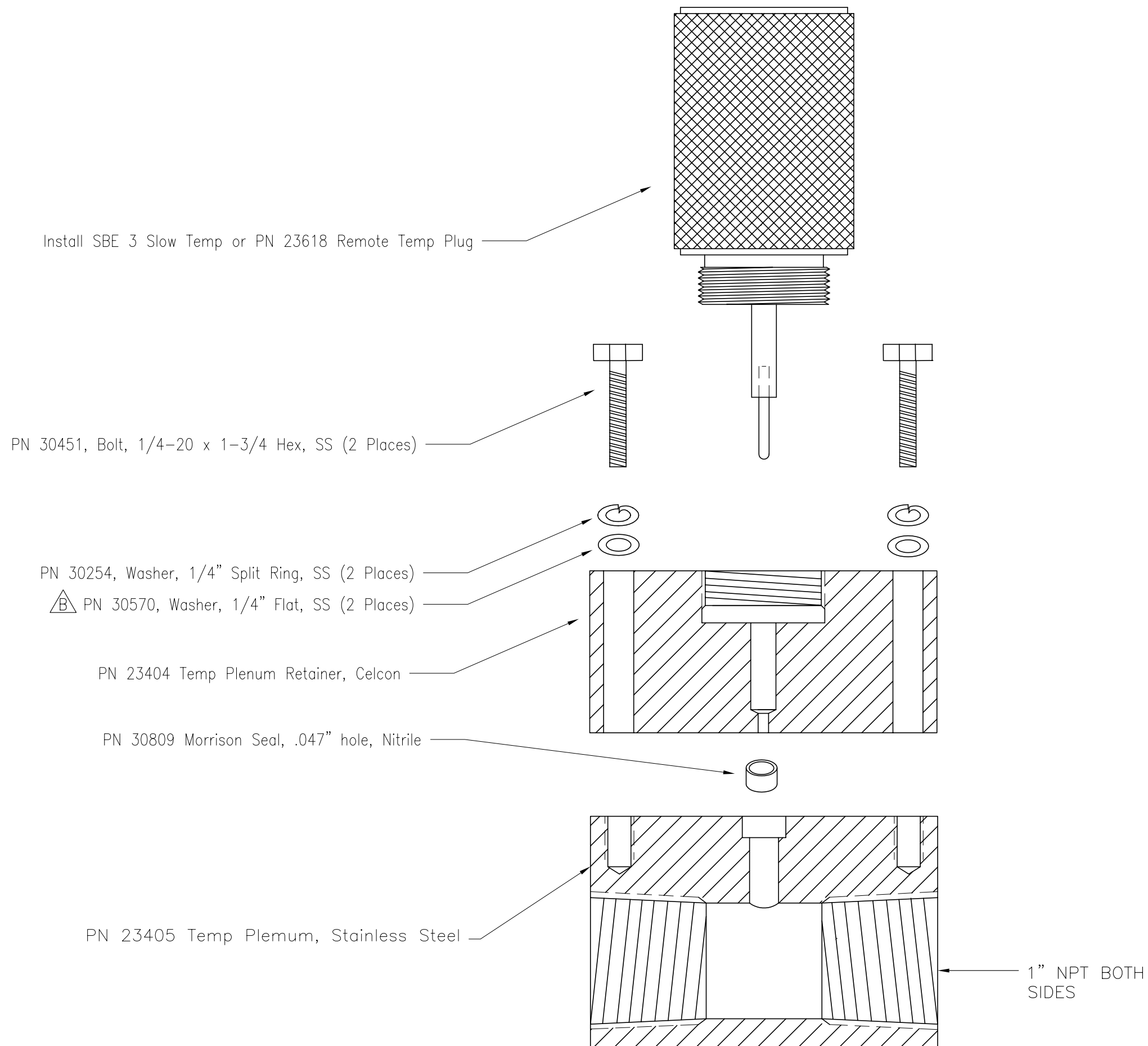TITLE:  **SBE21 Remote SBE3 Temperature Kit**
REVISION: **A**
EFFECTIVE DATE: **03/09/2004**
CHECKED BY:                          PAGE 1 of 1

Install SBE 3 Slow Temp or PN 23618 Remote Temp Plug

PN 30451, Bolt, 1/4-20 x 1-3/4 Hex, SS (2 Places)

PN 30254, Washer, 1/4" Split Ring, SS (2 Places)

⚠B PN 30570, Washer, 1/4" Flat, SS (2 Places)

PN 23404 Temp Plenum Retainer, Celcon

PN 30809 Morrison Seal, .047" hole, Nitrile

PN 23405 Temp Plemum, Stainless Steel

1" NPT BOTH SIDES



| TOLERANCES | SEA-BIRD ELECTRONICS, INC | | | |
|---|---|---|---|---|
| FRACTIONAL | P/N 80403 | SCALE N.T.S. | DRAWN BY MJ | |
| | | | APPROVED BY | |
| DECIMAL | TITLE External Temp Plenum Mount Assembly | | | |
| ANGULAR | DATE 01.18.99 | DRAWING NUMBER 67040 | | REV B |