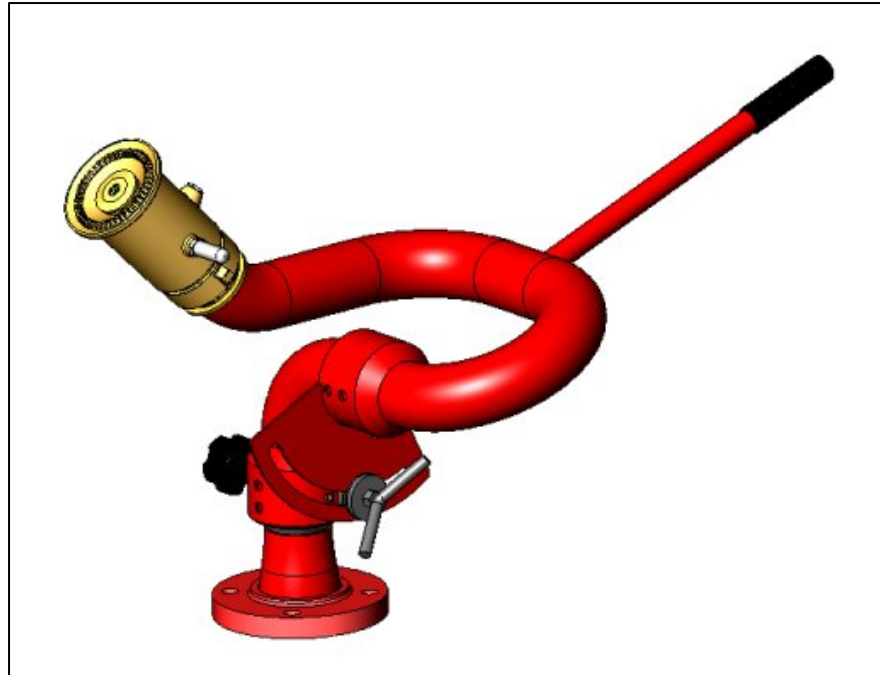




# Stang Industrial Products

## Operation and Maintenance & Installation Manual



### **Stang 2.50" Station Monitor With Bladelock, STL-AB Model # 925200**

1250 Railroad St.  
Corona, Ca 92882 USA  
[www.stangindustrial.com](http://www.stangindustrial.com)

01/2007

## 1. Introduction

The Stang 2.50" Station Monitor is a manually controlled water monitor that has a vertical & horizontal rotation. The welded single waterway design allows for an efficient & performance enhanced flow as well as a heavy duty construction. Horizontal rotation is controlled via a lock knob and the vertical travel lock is actuated by a bladlock mechanism.

This monitor is available with various intake options. Please refer to the list below for dash numbers.

## 2. General Features

- Schedule 40 Steel Waterway
- Aluminum Nickel Bronze Rotation Swivels
- ANSI Flange or NPT Intake
- NH Thread outlet
- Molded Handgrip for Rotation Operation
- Lock Knob & Bladlock Travel Locks

## 3. Dash Number Reference

Dash #	Inlet Type
-1	2.50" Raised Face 150# ANSI Flange
-11	3.00" Raised Face 150# ANSI Flange
-21	4.00" Raised Face 150# ANSI Flange
-31	6.00" Raised Face 150# ANSI Flange
-41	4.00" Flat Face 150# ANSI Flange
-51	2.50" Flat Face 150# ANSI Flange
-61	3.00" Flat Face 150# ANSI Flange
-71	6.00" Flat Face 150# ANSI Flange
-81	2.50" Male NPT
-91	2.50" Female NPT

## 4. Installation

### **\*\*Warning\*\***

Installation should be conducted by qualified personnel only. Improper installation can be hazardous & deadly to property & life.

#### 1. Flange Installation:

When installing to a flanged connection, make sure the mating flange is the same size as the flange on the monitor. Use the proper flange gasket to make a watertight seal. Use a minimum

of grade 5 bolts with galvanized finish. Make sure each hole in flange has been used and the thread engagement is 1.5 x diameter. It is advisable to use a locking mechanism such as lock washers underneath the nuts. Tighten to proper torque.

2. NPT Inlet:

Connect the NPT threads using a high quality thread sealant on the threads. Tighten using a spanner or pipe wrench.

## 5. Operation

### **\*\*Warning\*\***

Operation should be conducted by qualified personnel only. Water jet & reaction forces can be hazardous & deadly to property & life. Use with extreme caution.

1. Make sure all connections to the monitor are tight as per above instructions.
2. All travel rotations are locked.
3. Monitor outlet is not pointed to people or animals.
4. Open water supply valve slowly.
5. Check for leaks.
6. At this point slowly loosen the travel locks so you can rotate the monitor.
7. For shutdown lock travel locks in position. Slowly turn off water supply.

## 6. Maintenance

1. For swivel maintenance refer to TB-17 at the end of this document.
2. Threads on lock knobs need to stay lubricated with anti seize lubricant.

## 7. Storage

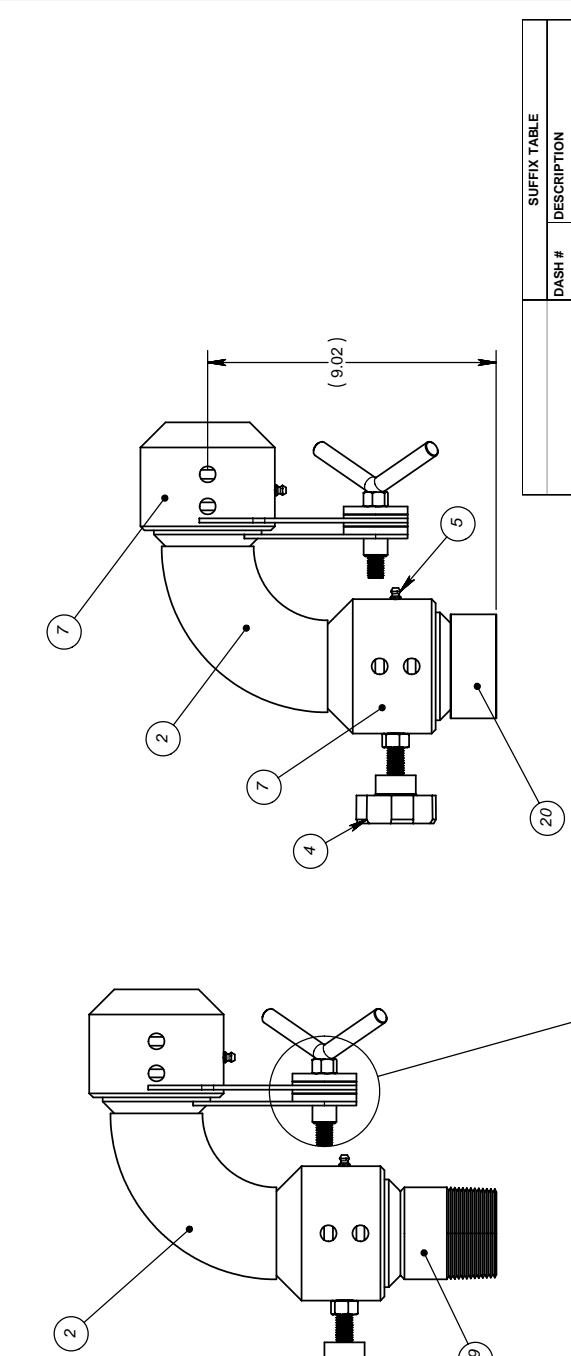
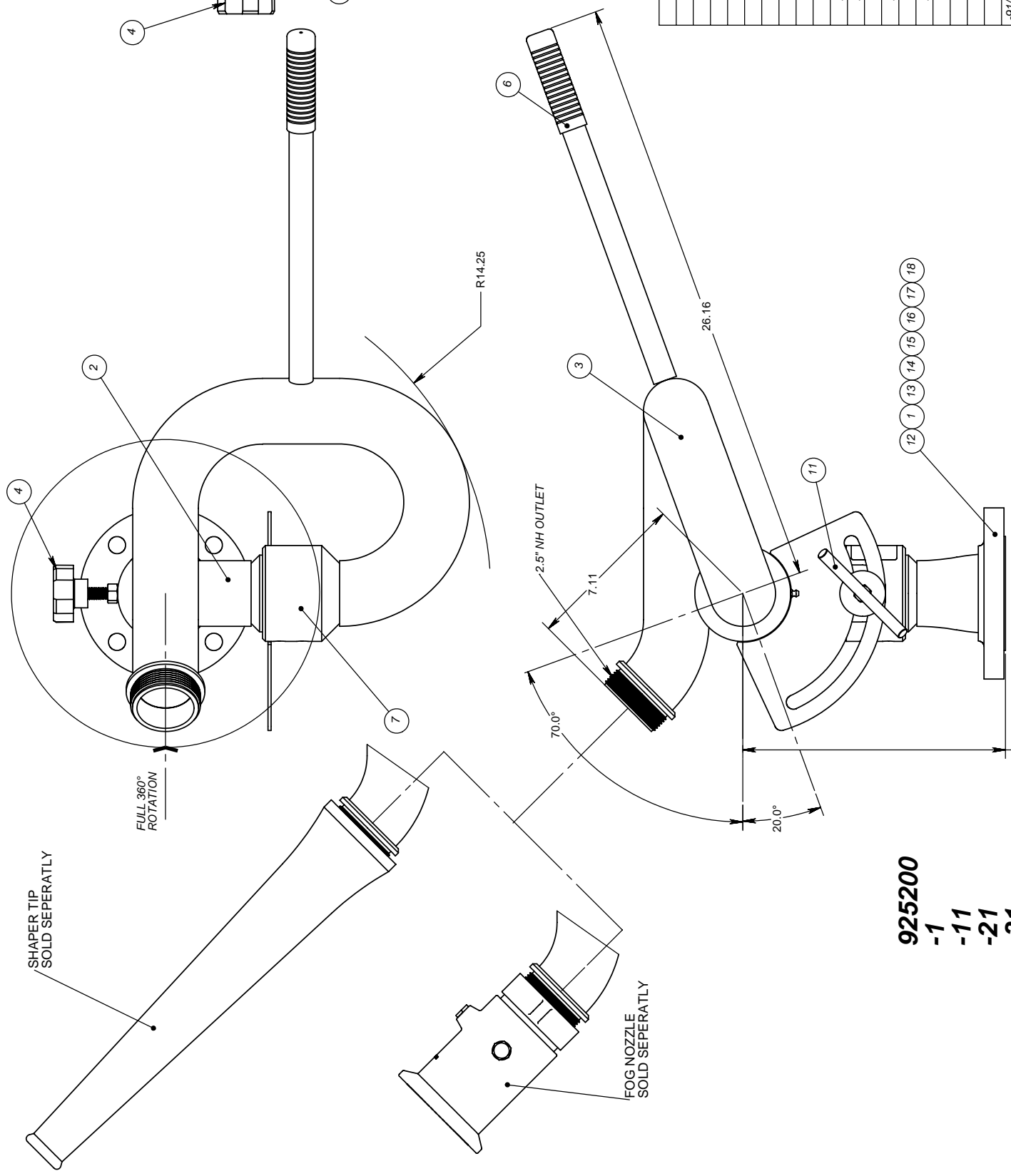
1. Make sure all water is removed from waterway.
2. Swivel is well greased.

## 8. Parts Breakdown

Please refer to technical drawing for parts breakdown.

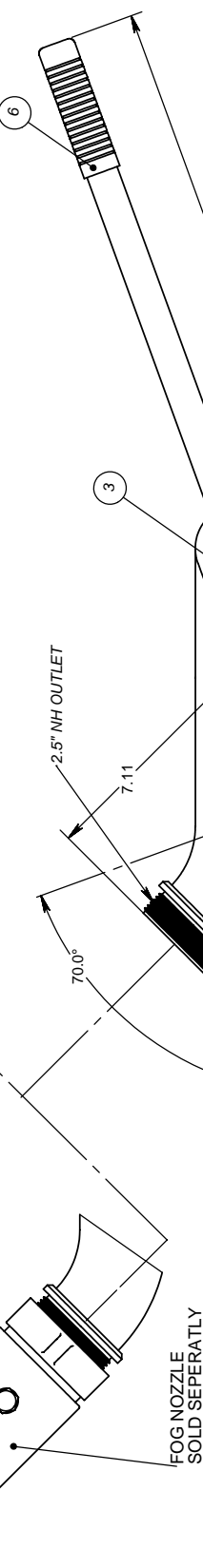
NOTES:  
 1) DO NOT SCALE THIS DRAWING  
 2) BREAK ALL SHARP EDGES  
 3) ALL DIMENSIONS DISPLAYED IN PARENTHESES ARE FOR REFERENCE ONLY  
 4) IF MONITOR DASH NUMBER HAS A SUFFIX SUCH AS EP MAKE SURE THAT THE MAJOR SUB-ASSEMBLIES HAVE THE SAME SUFFIX.

LTR	REVISION	DATE	BY
A	ADDED -41	05/06/04	EK
B	PART # 100682-241 WAS PART # 103568-1; ADDED "EP" NOTE; ADDED -51, -61 & -71	07/21/04	EK
C	ADDED -81 & -91 AND CORRESPONDING BOM ITEMS	10/15/04	EK
D	CHANGED THE INTAKE BASES FROM 100682 SERIES TO 802085 & 802090 SERIES; REDRAWN ON D-SIZE SHEET	8/23/2006	EK



925200-81

925200-91



TYPICAL DETAIL A

SUFFIX TABLE	DASH #	DESCRIPTION
	NO SUFFIX	POWDER COAT STANG RED
	EP	EPOXY COAT STANG RED
	P	POLISHED (SS ONLY)
	NP	NOT PAINTED

SEE NOTE 4

CONFIGURATION TABLE
925215-1 MONITOR 2.50" STATION W/2.5-150HRF & BL STL-AB
925215-11 MONITOR 2.50" STATION W/3.0-150HRF & BL STL-AB
925215-21 MONITOR 2.50" STATION W/4.0-150HRF & BL STL-AB
925215-31 MONITOR 2.50" STATION W/6.0-150HRF & BL STL-AB
925215-41 MONITOR 2.50" STATION W/4.0-150HRF & BL STL-AB
925215-51 MONITOR 2.50" STATION W/2.5-150HRF & BL STL-AB
925215-61 MONITOR 2.50" STATION W/3.0-150HRF & BL STL-AB
925215-71 MONITOR 2.50" STATION W/6.0-150HRF & BL STL-AB
925215-81 MONITOR 2.50" STATION W/2.5NPT(M) & BL STL-AB
925215-91 MONITOR 2.50" STATION W/2.5NPT(F) & BL STL-AB

ITEM NO.	QTY	DESCRIPTION	ITEM NO.	QTY	DESCRIPTION
1	-	BASE INTAKE, 2.50" W/2.5NPT(F), SS-AB	20	-	BASE INTAKE, 2.50" W/2.5NPT(F), SS-AB
-	1	BASE INTAKE, 2.50" W/2.5NPT(M), SS-AB	19	-	BASE INTAKE, 2.50" W/2.5NPT(M), SS-AB
-	1	BASE INTAKE, 2.50" W/6.0-150HRF FLG, STL-AB	18	-	BASE INTAKE, 2.50" W/6.0-150HRF FLG, STL-AB
-	1	BASE INTAKE, 2.50" W/3.0-150HRF FLG, STL-AB	17	-	BASE INTAKE, 2.50" W/3.0-150HRF FLG, STL-AB
-	1	BASE INTAKE, 2.50" W/2.5-150HRF FLG, STL-AB	16	-	BASE INTAKE, 2.50" W/2.5-150HRF FLG, STL-AB
-	1	BASE INTAKE, 2.50" W/4.0-150HRF FLG, STL-AB	15	-	BASE INTAKE, 2.50" W/4.0-150HRF FLG, STL-AB
-	1	BASE INTAKE, 2.50" W/6.0-150HRF FLG, STL-AB	14	-	BASE INTAKE, 2.50" W/6.0-150HRF FLG, STL-AB
-	1	BASE INTAKE, 2.50" W/3.0-150HRF FLG, STL-AB	13	-	BASE INTAKE, 2.50" W/3.0-150HRF FLG, STL-AB
1	1	LOCK HANDLE WELDMENT	11	1	LOCK HANDLE WELDMENT
2	2	WASHER, FLAT, .50ID X 2.00OD X .120T, DELRIN	10	2	WASHER, FLAT, .50ID X 2.00OD X .120T, DELRIN
2	2	WASHER, FLAT, 2.00OD X .56ID X .25T, 304	9	2	WASHER, FLAT, 2.00OD X .56ID X .25T, 304
1	1	PLATE, ALUM ID	8	1	PLATE, ALUM ID
2	2	SWIVEL KIT, 2.5 NOM.	7	2	SWIVEL KIT, 2.5 NOM.
1	1	GRIP,HAND,BLK PLSTC,HRG14055	6	1	GRIP,HAND,BLK PLSTC,HRG14055
2	2	FITTING, ZERK, STR, 1/4-28UNF, CRES	5	2	FITTING, ZERK, STR, 1/4-28UNF, CRES
1	1	LOCK KNOB, 50-200UNF-2A THD	4	1	LOCK KNOB, 50-200UNF-2A THD
1	1	ELL, UPPER, 2.50" W/BLADE BRAKE, STL-AB	3	1	ELL, UPPER, 2.50" W/BLADE BRAKE, STL-AB
1	1	ELL, LOWER, 2.50" W/BLADE BRAKE, STL-AB	2	1	ELL, LOWER, 2.50" W/BLADE BRAKE, STL-AB
-	-	BASE INTAKE, 2.50" W/2.5-150HRF FLG, STL-AB	1	-	BASE INTAKE, 2.50" W/2.5-150HRF FLG, STL-AB

**STANG INDUSTRIAL PRODUCTS**  
 1250 RAILROAD ST.  
 CORONA, CA 92882

**MONITOR, 2.50" STATION W/BLADELOCK**

STANG  
 925200  
 55822  
 08/23/06  
 10/16/03  
 NTS  
 STL-AB  
 D  
 1 OF 1

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES DECIMALS ANGULAR .XX ±.03 .XXX ±.010

DO NOT SCALE DRAWING

TREATMENT SEE NOTES

FINISH SEE NOTES

SIZE SUPP.# D N/A

DATE ORIGINAL DRAWING DATE SCALE

DATE 08/23/06 SCALE NTS

REVISION D

SHEET 1 OF 1

10.38: -1 & -51  
 11.51: -11 & -61  
 12.00: -21 & -41  
 13.51: -31 & -71

925200  
 -1  
 -11  
 -21  
 -31  
 -41  
 -51  
 -61  
 -71

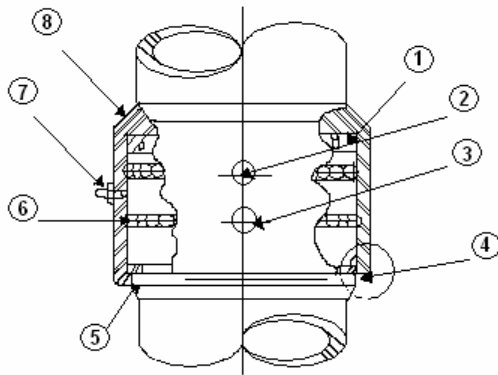
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# Technical Bulletin



Stang Industrial Products  
951-479-9810  
[www.stangindustrial.com](http://www.stangindustrial.com)

Technical Bulletin #: TB-17  
Part #: N/A  
Description: Swivel Joint Service Instructions  
TB Description: For the repair & service of Stang swivels



## Parts

1. Pressure Seal
2. Ball Retainer Plug
3. Retaining Ring (For Plug)
4. Dirt Seal
5. Inner Race
6. Steel Balls
7. Grease Zerk
8. Outer Race

## Equipment needed

1. Retaining ring pliers (Truarc or equal: #1 internal rings on joints up to 4", and #3 for 6" joints and larger)
2. Sharp pointed tool (Example: alignment punch or ice pick).
3. Solvent to soften grease in ball races.
4. Cleaning material-rags.
5. Lubricant: All purpose grease, grade #2.
6. New Seals.

## Maintenance

1. Lubricate swivel joint through grease zerk (7) after each 24 hours of accumulated use.

**Caution: Excessive grease pressure can cause packing displacement and consequent leakage.**

2. Inspect swivel joint at regular intervals for water leakage. If leakage is detected, replace packing as described in the repair procedure.

## REPAIR

1. Disassembly:
  - A. With retaining ring pliers, remove the two retaining rings (3).
  - B. Insert sharp pointed tool into middle of the ball retainer plug (2) and lift at slight angle. The ball retainer plug has a metal plate on top with a small hole in the middle of the plate to aid in removal.
  - C. Rotate swivel joint to allow balls (6) to roll out of races. If grease is thick and heavy, balls may not fall free. Use solvent to clean. Balls will always roll out if races are clean. Parts will disassemble when all the balls have been removed, and the seals will be exposed. A flexible polyethylene rod or similar tool may be used to push balls from race.
2. Cleaning:
  - A. Remove old seals (1 & 4) and replace with new parts.
  - B. Thoroughly clean all parts and apply a thin coat of lubricant around the packing.

## Reassembly

1. Replace pressure seal with new part if necessary. Lips must face away from ball grooves. Put small amount of grease on seal to ease reassembly.
2. Replace dirt seal. (Item 4)
3. Press the separate swivel joint races together and drop in the balls until the races are filled.
4. Replace the ball retainer plugs (2).
5. Replace retainer rings (3) with retaining ring pliers.
6. Lubricate the ball race area by using a small hand grease gun to force a small amount of the lubricant through grease zerk (7). Then rotate one portion of the 90° and regrease. Repeat 2 more times.
  - a. **Caution:** Do not over grease. Excessive grease pressure can cause leakage and/or difficult rotation.