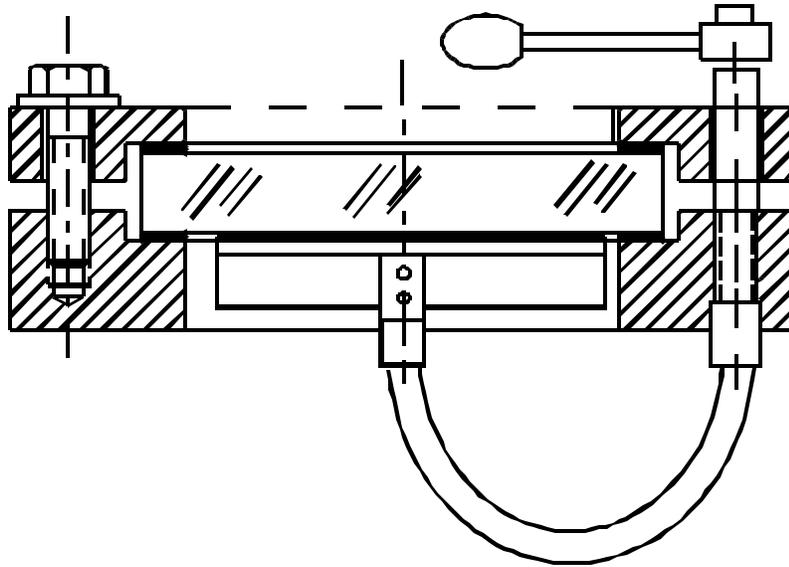




**ARCHON Industries, Inc.**

# WS Wiper



## Installation / Operation / Maintenance Instruction

Instruction No.: **1009 Rev.1**  
Issued: **12/12/1999**  
Approved: **Eng. Mgr. 10-02-03**



## I. STORAGE AND HANDLING

All units should be inspected for damage upon receipt. Units should be stored where they will be protected from physical damage. Particular care should be taken to protect threaded end connections, seals, bushings and blade from damage.

## II. PREPARATION

1. Before starting installation, ensure that the interior glass support flange is properly drilled and tapped (20mm diameter counterbore x 2mm deep on vessel interior, M14x 1.5 thread through) to accept the wiper threaded fittings, and that a clearance hole (1" diameter) has been drilled through the exterior glass cover flange.

2. Check that all necessary parts are on-hand. Each assembly should include the following parts (see drawing):

**Item Description**

1,2,3 Assembly of Wiper blade, Wiper frame, and drive pins

4 Compression spring

5,9 Assembly of Flexible shaft and Teflon Washer

6,7,8 Assembly of Shaft Housing, Compression Fitting and Teflon Washer

10 Connector

11 Lock-nut

12 Handle

13 Washer

14 Retainer Clip

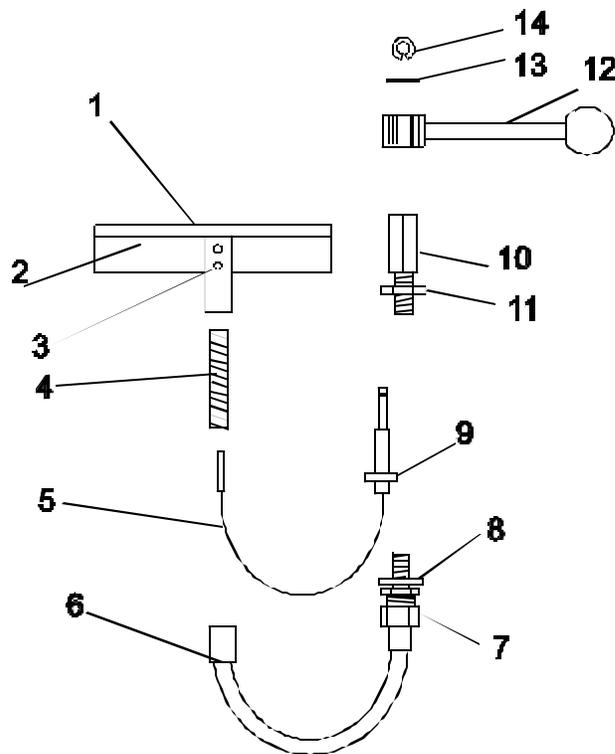
3. Wiper must be installed prior to installing sight-glass, gaskets and exterior glass cover.

## III. INSTALLATION

1.) Insert Shaft Housing/ Compression Fitting/ Washer Assembly (6,7,8) into the threaded hole in the interior flange. Screw fitting in until washer bottoms on counterbore surface.

2.) Insert Flexible Shaft / Teflon Washer Assembly (5,9) through the clearance hole in the exterior flange.

- 3.) Insert Spring (4) into shaft housing (6).
- 4.) Install Wiper Blade / Wiper frame assembly (1,2,3) over shaft housing (6), compressing spring (4). Spin Flexible shaft (5,9) until wiper engages with shaft end.
- 5.) Install Connector (10) and Lock-nut (11). Thread into the outside of interior glass support flange. Flexible shaft will protrude out through the connector.
- 6.) Install gaskets and sight-glass into interior glass support flange. Install sightglass assembly per Archon Sightglass Installation Instructions.



- 7.) Install Handle (12) onto the protruding end of the flexible shaft (5).
- 8.) Install Washer (13) over shaft end. Secure handle (12) to shaft end (5) with retainer clip (14).