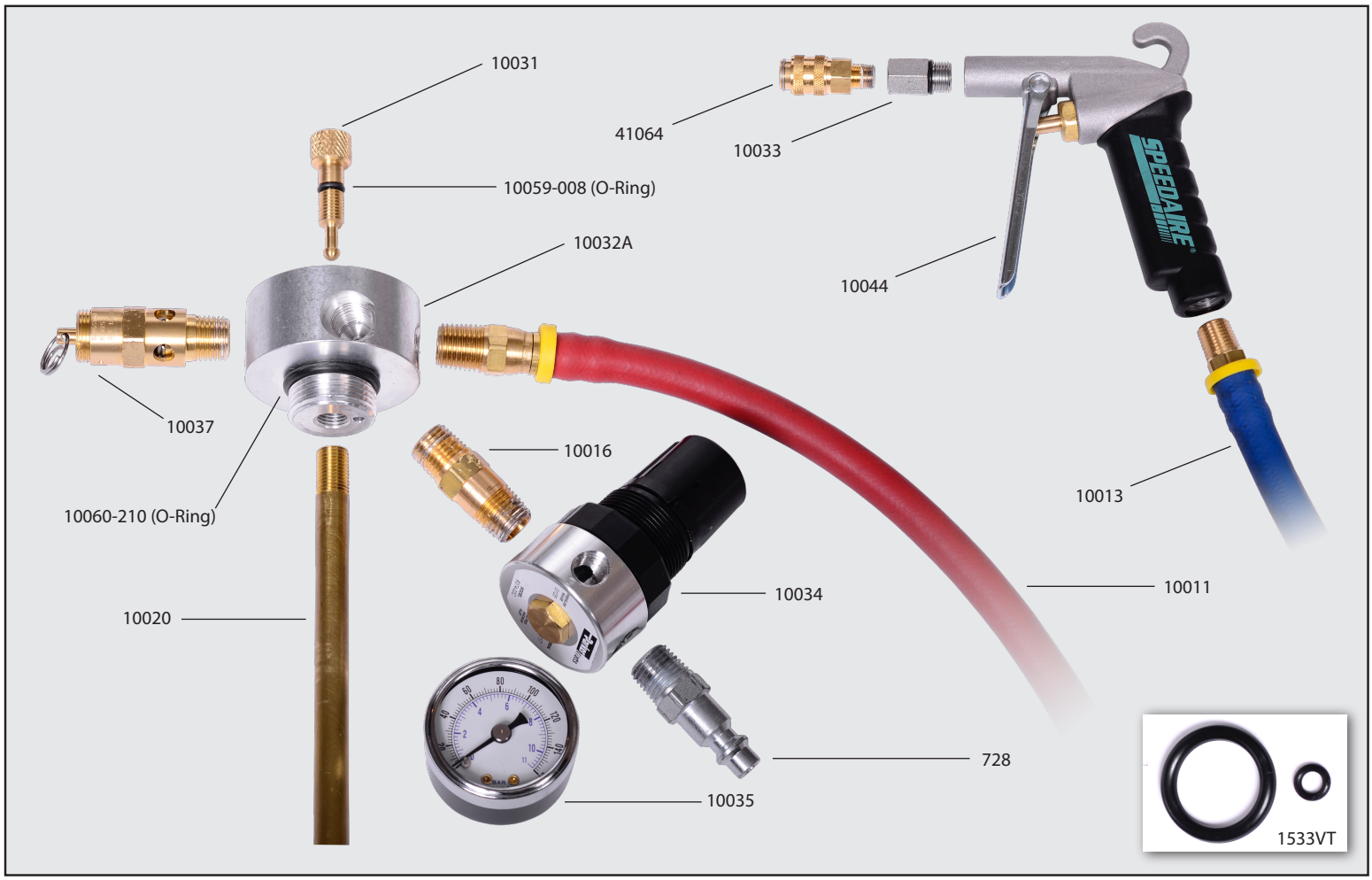
MIL-PRF-81309H

CORROSIONX® AVIATION

HANDI-SPRAY™ TREATMENT SYSTEM



AIR GUN COMPONENTS

41064	Quick Disconnect
10033	Quick Disconnect Adapter (not all guns require this part)
10044	Air Gun Assembly (does not include Quick Disconnect or Adapter)

WANDS

41061	Cricket Wand
42015	Hook Wand
42012	Superflex Wand
42019	3 Foot Wand
42018	6 Foot Wand
42016	8 Foot Wand

MAINTENANCE

1533VT	O-Ring Replacement Kit

Parts and specifications subject to change without notice.

SPRAYHEAD COMPONENTS

10031	Control Stem
10059-008	Control Stem O-Ring
10032A	Control Head
10060-210	Control Head O-Ring
10037	Safety Valve
10011	Hose (red for 2.5 and 5-gallon systems)
10013	Hose (blue for BeltPak systems)
10020	Pickup Tube
10016	Double Male Threaded Adapter
10034	Regulator
10035	Pressure Gauge
728	Coupler

CORROSIONX®

Handi-Spray™ Treatment System

OPERATING INSTRUCTIONS

WARNING: FAILURE TO COMPLY WITH INSTRUCTIONS AND SAFETY PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR DEATH. FOLLOW ALL RECOMMENDED PREPARATION AND SAFETY PRECAUTIONS!

NEVER POINT OR SPRAY THE UNIT AT ANYONE!
The treatment system dispenses liquids under pressure.

Always operate unit in upright position.

ALWAYS WEAR APPRORIATE PERSONAL PROTECTIVE EQUIPMENT WHEN OPERATING THIS UNIT.

NEVER EXCEED PRESSURE SETTING OF 110 PSI.

PREPARATION

1. You will need…
   a. An air compressor; minimum of 80 PSI and minimal CFM.
   b. An air supply hose to run from the compressor to the treatment system.
   c. A well-ventilated area. In enclosed or confined spaces, the use of an approved respiratory protection may be required.
   d. Suitable eye protection.

2. **NOTE: DO NOT OVER FILL.** Fill the tank by unscrewing Control Head #10032A. Leave at least 1" air space at the top of the #10002 Pressure Vessel. (Pour material to be sprayed into the Pressure Vessel.) After filling, wipe Control Head threads clean to ensure a good seal. Replace Control Head on Pressure Vessel and carefully screw on to light hand tightness to provide a good seal. The Control Head must seat on the O-Ring seal.

3. Select desired wand and snap into the #41064 Quick Disconnect.

OPERATION

1. Connect the air supply line to #728 Coupler Plug. The treatment system operates at 40—110 PSI with an optimum pressure of 60-80 PSI. Adjust pressure by pulling out on the black adjusting knob and turning clockwise to increase, counterclockwise to reduce.
   * Set and maintain your air compressor at proper levels.

2. For best results, test spray a small area to make sure that the force of the spray and the amount of atomization are as desired. If not, adjust the #10031 Control Stem accordingly. (Normally 1/8 to 1 full turn open, counterclockwise.)

3. When ready to spray, point the wand at the surface to be sprayed and depress the trigger of the gun. Flow stops when the trigger is released.

4. NOTE: Keep the discharge end of unit pointed away from yourself or any person when making adjustments. Changes in temperature may affect the viscosity of the material. Since materials of different viscosities spray at different rates, you may need to adjust the air pressure via the Control Stem. To reduce the amount being dispensed, turn the Control Stem clockwise. Turn the knob counterclockwise to increase the amount being dispensed.

5. **WARNING: NEVER RELIEVE PRESSURE BY LOOSENING THE CONTROL HEAD!**

   WHEN REFILLING THE CONTAINER, DISCONNECT THE AIR SUPPLY LINE FROM THE COUPLER PLUG AND CAREFULLY RELEASE PRESSURE BEFORE REMOVING CONTROL HEAD.

   TO RELEASE THE PRESSURE FROM THE SYSTEM, MAKE SURE THE UNIT IS IN THE UP-RIGHT POSITION. DISCONNECT THE AIR SUPPLY AND EITHER 1) PULL THE BLACK PRESSURE REGULATOR KNOB OUT AND TURN COUNTERCLOCKWISE, OR 2) PULL THE RING ON THE #10037 SAFETY VALVE TO BLEED AIR OUT OF THE PRESSURE VESSEL. PULL THE TRIGGER ON THE #10044 SPRAY GUN TO RELEASE ANY REMAINING PRESSURE.
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MAINTAINING YOUR TREATMENT SYSTEM

With proper care, your treatment system will give trouble-free performance for years.

1. Depressurize the system after each use and before storage! After disconnecting the air line, gradually bleed the air from the tank through the spray gun.

2. WARNING: Failure to follow all safety precautions for the material being used can result in serious injury or death. Periodic cleaning is recommended. Pour one quart of solvent (mineral spirits) into the empty tank. Reconnect the air supply line to the coupler plug and re-pressurize the system. Spray through the unit and wands for about 30 seconds in a well ventilated area.

3. To assure smooth operation of the trigger, occasionally lubricate the valve mechanism of spray gun with CorrosionX® Aviation. Clean any foreign material build-up from around the stem. Check #41064 Quick Disconnect for leakage when cleaning.

YOUR TREATMENT SYSTEM HAS BEEN DESIGNED FOR TROUBLE-FREE SERVICE. IF YOUR UNIT DOES NOT OPERATE PROPERLY, REFER TO THE CHART BELOW TO DIAGNOSE YOUR PROBLEM BEFORE CONTACTING U.S. CORROSION TECHNOLOGIES.

PROBLEM	SOLUTION
Too little material being discharged.	1. Check air pressure and adjust, if necessary. While unit operates at 40-110PSI, optimum pressure is 60 -80 PSI. **2.** Turn Control Stem (#10031) counterclockwise to increase flow. **Do not remove while under pressure.** 3. Depressurize the unit and check for obstructions in Pickup Tube (#10020), wands, or inlet hole (B) in the Control Head (#10032A). For best performance, your system should be cleaned periodically by spraying solvent (mineral spirits) though the unit and wands.
Too much material being discharged.	1. Turn Control Stem (#10031) clockwise to decrease flow. 2. Reduce air pressure to within optimum range noted above (60-80 PSI).
Irregular spray pattern	1. Depressurize the unit and check for obstructions in the Pickup Tube (#10020), wands, or inlet hole (B) in the Control Head (#10032A). 2. Check for foreign matter or clots of material solids in the container or material. Material must be of uniform consistency for unit to spray properly. 3. Check capacity of air compressor. The unit performs best at a minimum of 60 PSI.
Material leaking from system	1. Tighten nut at source of leak. 2. Replace O-Rings. 3. Check Quick Disconnect (#41604) for wear.
Trigger on gun hard to operate	Spray a small amount of CorrosionX® Aviation around trigger mechanism. Remove foreign material build-up around trigger valve mechanism.

Manufactured by:

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