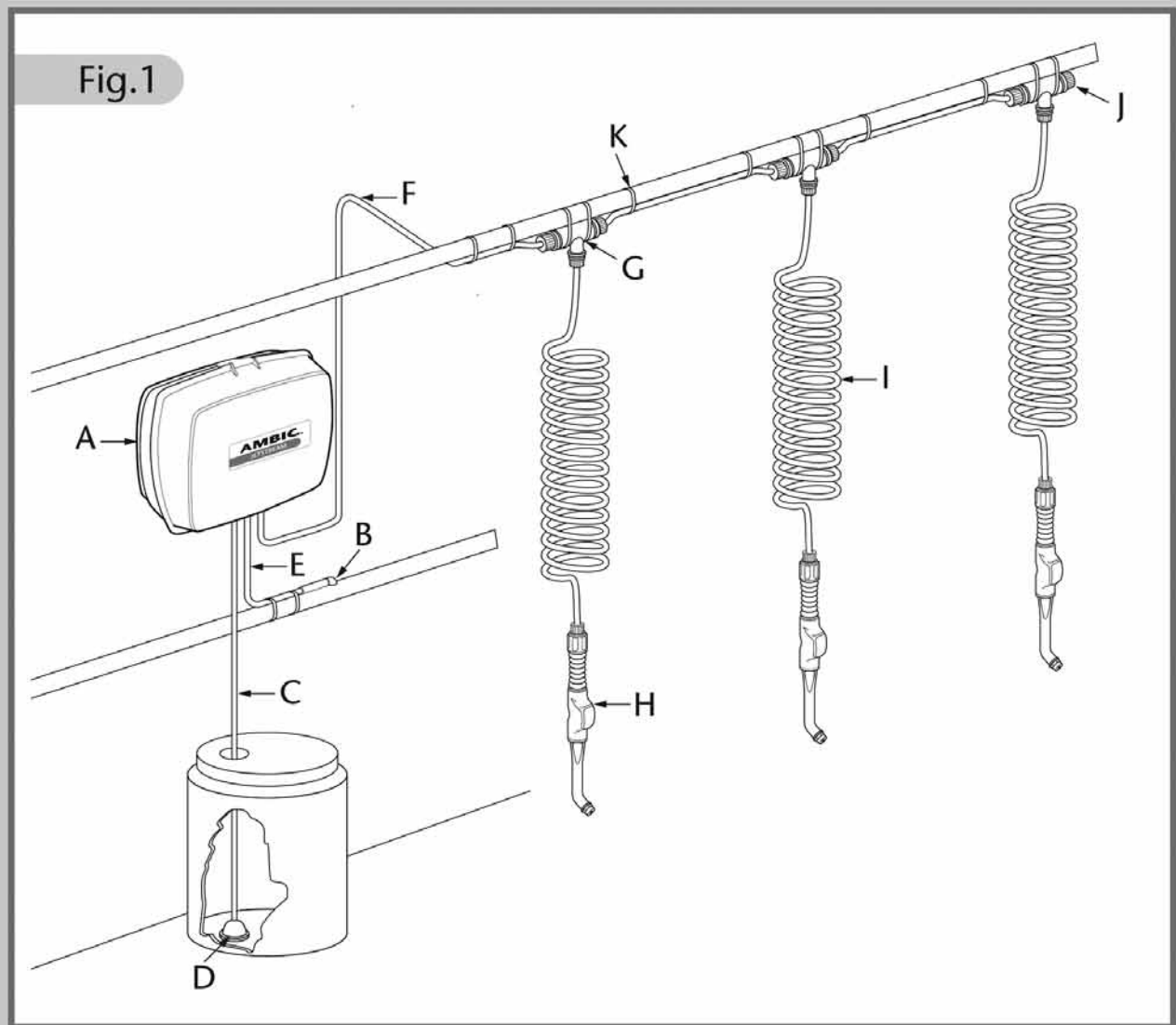


AMBIC™

JETSTREAM



INSTRUCTIONS • ISTRUZIONI • ANLEITUNG • INSTRUCȚIES
MODE D'EMPLOI • INSTRUCCIONES

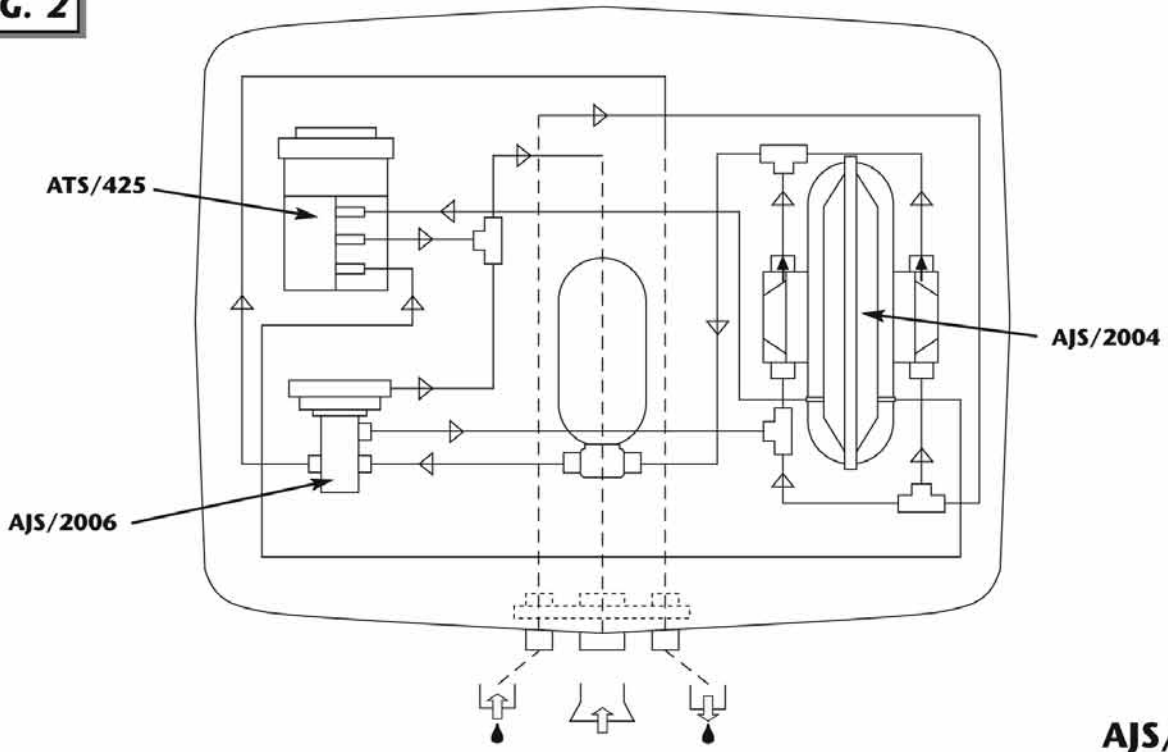
A Healthy Herd • A Healthy Profit

**1. SCHEMATIC LAYOUT
SCHEMA GENERALE**

**SCHEMATISCHER GRUNDRISS
SCHEMATISCH OVERZICHT**

**SCHEMA SYNOPTIQUE
DISPOSICIÓN ESQUEMÁTICA**

FIG. 2



**2. INSTALLATION
INSTALLAZIONE**

**INSTALLATION
INSTALLATIE**

**INSTALLATION
INSTALACIÓN**

FIG. 3

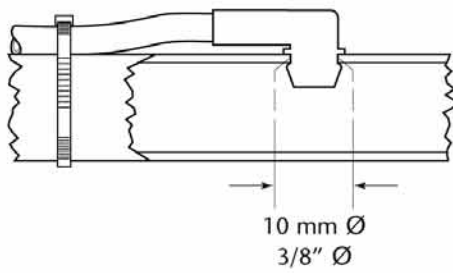


FIG. 4

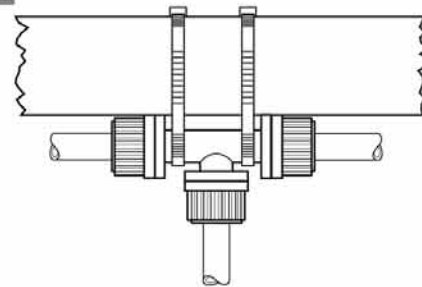


FIG. 5

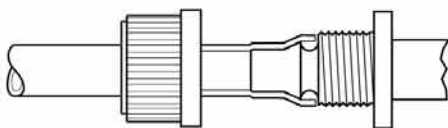
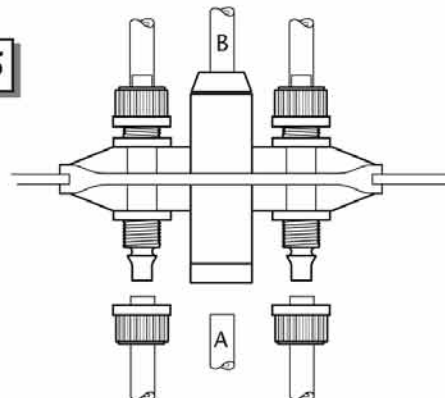


FIG. 6



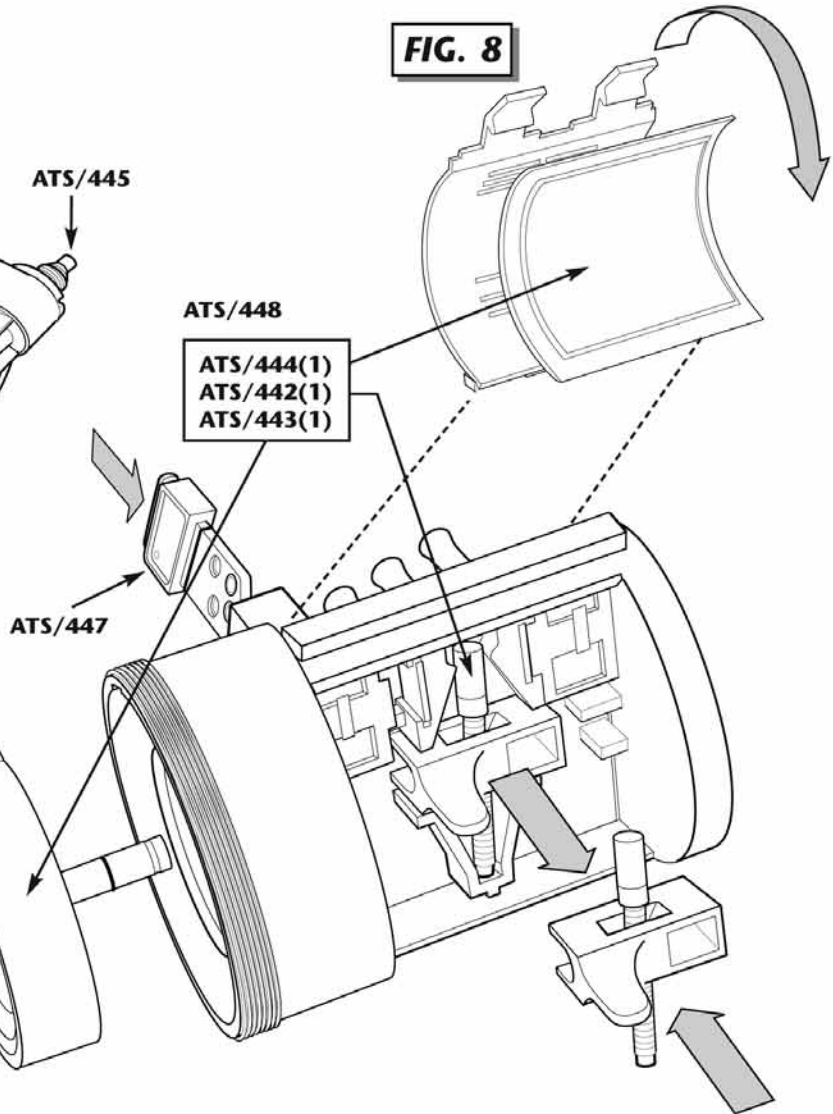
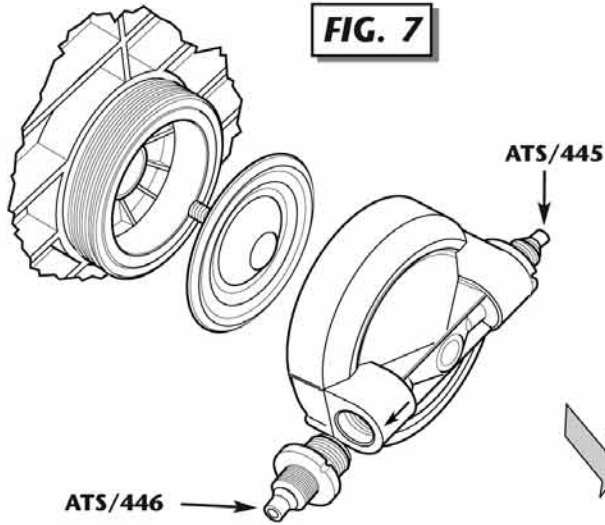


FIG. 9
ATS/425

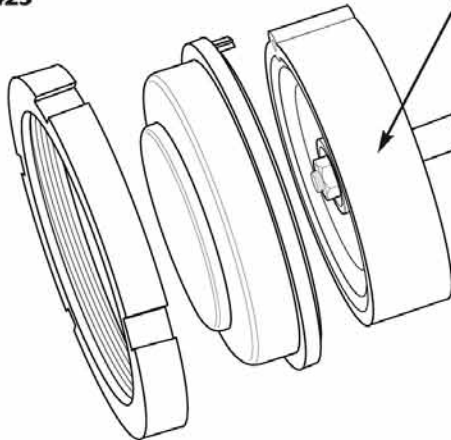


FIG. 10
AJS/2008

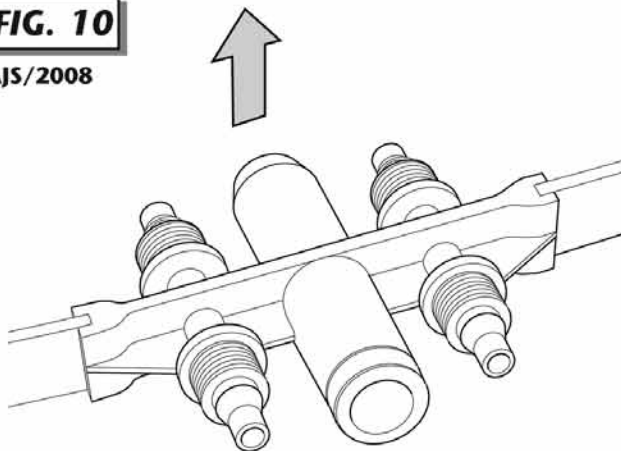


FIG. 11
AJS/2006

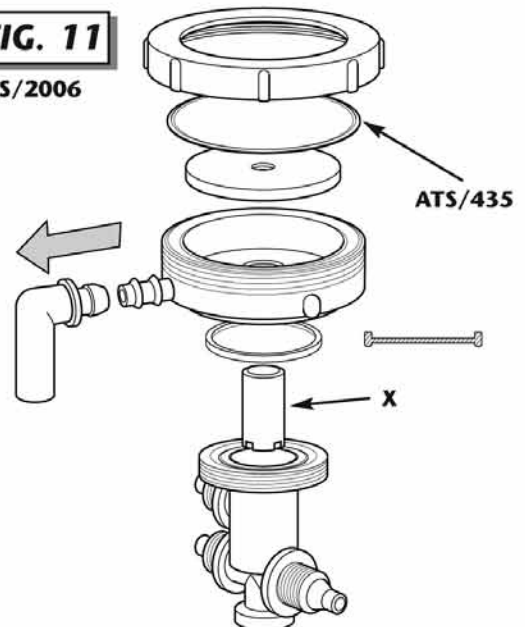
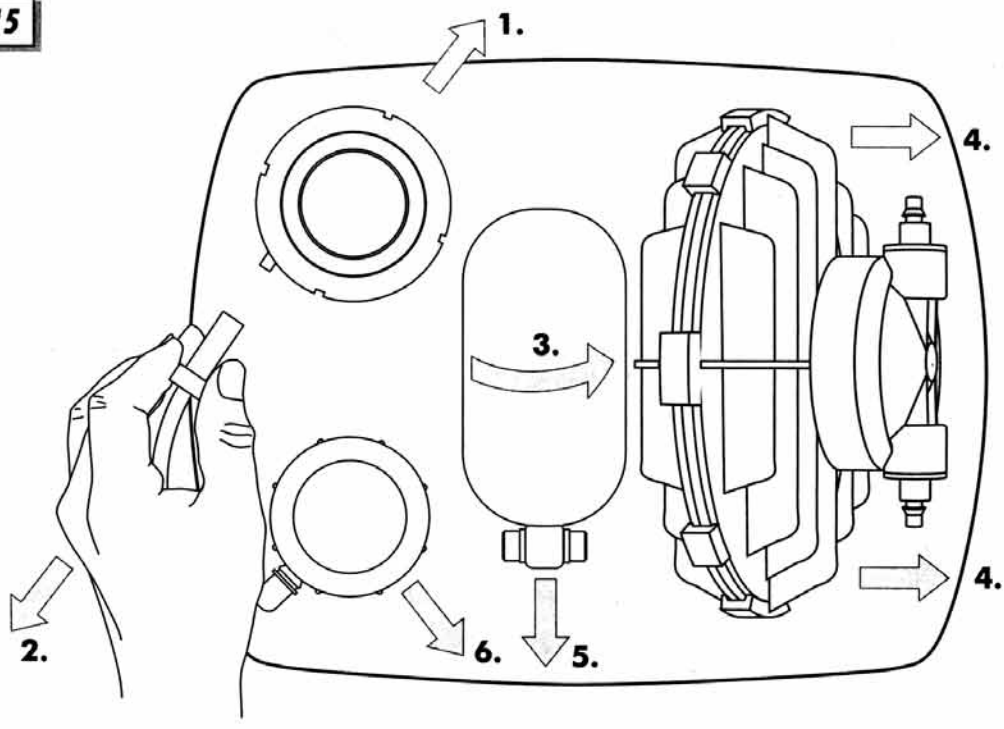


FIG. 15



5. OPERATION USO	FUNKTION BEDIENING	UTILISATION OPERACIÓN
---------------------	-----------------------	--------------------------

FIG. 12

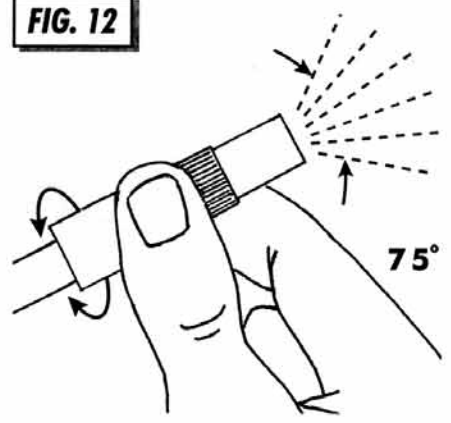
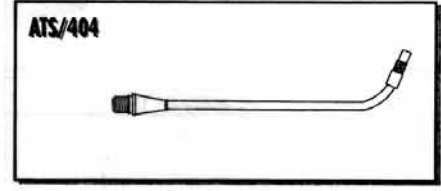
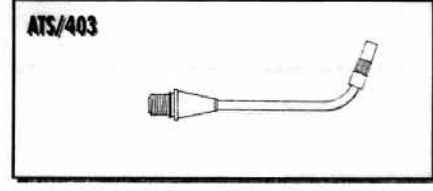
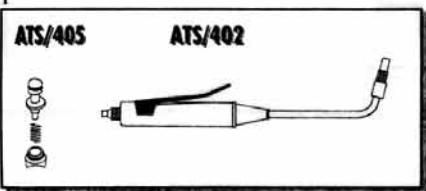
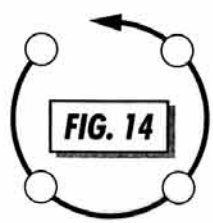
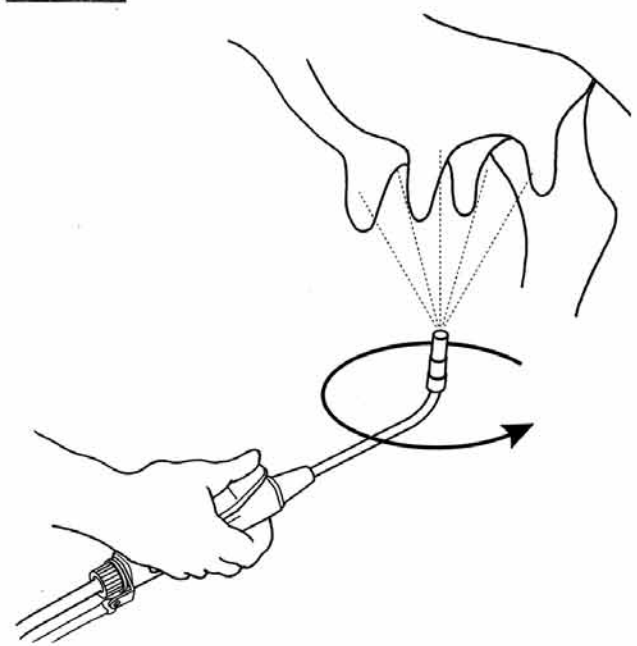


FIG. 13



**14. SPARE PARTS
ELENCO RICAMBI**

**ERSATZTEILE
RESERVEONDERDELEN**

**PIECES DE RECHANGE
REPUESTOS**

AJS/2001



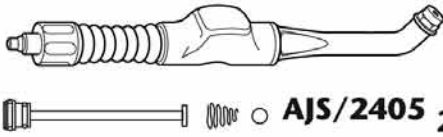
1.

ATS/412



9.

AJS/2402



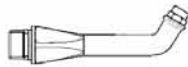
2.

ATS/413



10.

AJS/2450



3.

AJS/2415



ATS/415



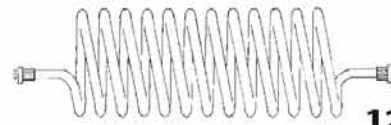
11.

AJS/2403



4.

ATS/406 (x 1)



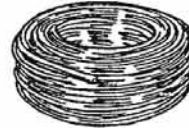
12.

AJS/2404



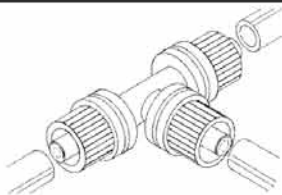
5.

ATS/410 x 6M (20ft)



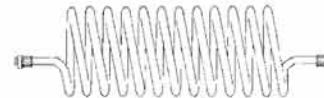
13.

ATS/407



6.

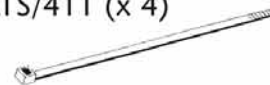
AJS/2414 **ATS/406 (x 1)**



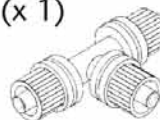
AJS/2402 (x 1)



ATS/411 (x 4)



ATS/407 (x 1)



2.6M (8ft 6ins)



14.

ATS/409 (x 6)



8.

**Drilling Template
Schema di montaggio**

**Bohrschablone
Boormal**

**Gabarit pour perçage
Patrón de perforación**

250 mm (9 5/8")

7. INSTALLATION

For general parlour layout refer to FIG 1.

Position Power Unit (A) not more than 3 metres (10ft) above the base of the Chemical Container, preferably in a dust free environment, close to a regulated Vacuum Line.

The unit will slot onto some existing Wall Brackets. If this is a new system, fix using 2 x screws and rawlplugs.

Using the drilling template on page 19, fit one screw first then carefully mark and drill the other. Accuracy between centres is most important.

VACUUM SUPPLY Drill a 10mmØ (3/8"Ø) hole in the top of a regulated main vacuum line (FIG 3). Remove burrs, lubricate Pipe Adaptor (B) and twist into hole.

Secure Tube (E) with Cable Ties (K). Do not over-tighten and avoid sharp bends. Cut tube to correct length and push firmly into Manifold rubber sleeve (FIG 6 'A').

CHEMICAL INTAKE Unscrew Nut and remove Blanking Plug from intake port ▲ (FIG 2). Cut tube (C) to correct length ensuring that the Intake Filter (D) rests on the bottom of the Chemical Container. Insert tube through nut, warm end of tube to ease assembly and push fully onto port. Tighten nut firmly with fingers. Do not use pliers or other tools. This method should be used when connecting all such fittings on Jetstream (FIG 5).

PRESSURE LINE Determine position of 'T's (G) and strap loosely to a suitable support (FIG4). Cut suitable lengths of Tubing (F) strapping and connecting to 'T's (G) and outlet port ▼ (FIG 2). Attach Coils (I) and Guns (H). Seal open end of last 'T' with Blanking Plug (J) and Nut.

Finally, once positions are correct, fully tighten Cable Ties. Do not over-tighten on tubing and avoid sharp bends.

8. INITIAL START UP

When installation is complete, turn on Vacuum Pump. Power Unit will automatically start, reaching full pressure within one minute.

There will be some air in the system. To expel this, hold each gun above the Delivery Line vertically at arms length pointing away from face. Press button until air bubbles are no longer apparent.

9. OPERATION

Jetstream is suitable for use with any recognised Teat Disinfectant except Sodium Hypochlorite. When using concentrates, ensure that the manufacturers instructions are followed. Agitation may, periodically, be required.

Important: Replenish disinfectant supply before it runs out to prevent air entering the system.

SPRAYING For effective Mastitis Pathogen control the teats must be completely covered with disinfectant.

The nozzle should ideally be positioned approximately 15cm (6") below the teats. Optimum and economical coverage is achieved by employing a circular movement (Fig 13 & 14). Application time will differ between cows, however, on average should be approximately 1 second per cow.

END OF MILKING When the main Vacuum Supply is turned off, the Power Unit automatically returns pressurised disinfectant to the Chemical Container. This ensures immediate safety and also flushes any debris from the Intake Filter (D).

10. MAINTENANCE

DIRECTIONAL VALVE ATS/425 is located at the top left of the Power Unit (FIG 2). **NOTE:** Most maintenance can be carried out with the Valve in place.

If complete removal is required, slide out of clips using a twisting action (Arrow 1 FIG 15). Grasp Valve Manifold and gently pull away from the Valve (Arrow 2). To refit, reverse the operation.

VALVE FILTER ATS/444 Replace every 1000 hours or sooner if heavily contaminated. Manually release Valve Filter Cover Clips by levering with fingers (FIG 8). Carefully remove Valve Filter taking care not to drop dust into the working parts. Fit new Valve Filter by reversing the process.

BLEED INSERT ATS/447 Pull out of main body taking care not to dislodge the 4 'O' Rings. Inspect two small holes near the end (FIG 9). Clean every 1000 hours or sooner if heavily contaminated. Use strand of wire attached to bleed insert.

DIAPHRAGM ASSEMBLY ATS/443 Replace every 3000 hours. First remove Valve Filter (see above). Remove Spring ATS/442. Pull Drive Box in direction of Arrow (FIG 9) using pliers on lug. Unscrew large black ring nut, gently prise off red cap, using a screwdriver in slot provided. Pull out Rubber Diaphragm by grasping outer rim. Re-fit Diaphragm Assembly ATS/443 taking care not to remove the pre-lubrication on the shaft. If the Spring, ATS/442 shows any sign of corrosion, replace it.

Fit new Diaphragm Assembly by reversing the operation, ensuring that the semi circular location engages in the recess on the main body. When replacing the Drive Box push hard until a click is heard indicating proper engagement. Prior to fitting the Filter and Cover, push Drive Box from end to end. An audible click should be heard, indicating proper operation.

DIAPHRAGM PUMP AJS/2004 The Pump is located on the right of the Power Unit 'A' (FIG 2). It needs no maintenance but, in the rare event of failure, it is removed by first unscrewing the Pressure Bottle ATS/436 in the direction of arrow 3 (FIG 15). Tilt Pump AJS/2004 and unclip by sliding in the direction of arrows 4 (FIG 15). Remove both rubber elbows. Unscrew 4 Nuts, on the Pump Head, ATS/445 and ATS/446 (FIG 7), warm tube ends and pull off gently, noting their positions.

When replacing the Pump, make sure that the arrows on the Pump Heads point towards the top of the Power Unit. Occasionally, debris may enter the Non Return Valves ATS/445 and ATS/446 (FIG 7). These can be unscrewed using long nosed pliers. Wash out and blow through. These components can be replaced if damaged.

RELIEF VALVE AJS/2006 The Valve is located at bottom left of Power Unit (FIG 2). To replace Diaphragm ATS/435, unscrew top with moulded lugs, this will expose Diaphragm for replacement. To fit a different Pressure Relief Module 'X' (FIG 11), AJS/2014, AJS/2016, AJS/2018, remove rubber elbow in direction of arrow. Unscrew the complete top inclusive of Spigot section, this will expose the existing Relief Module.

To replace or remove complete Relief Valve, first remove the Pump as described under Diaphragm Pump. Then tilt and slide Bottle Holder in direction of arrow 5 (FIG 15), unclip the Relief Valve in direction of arrow 6. Unscrew 3 nuts on the Relief Valve, warm tube ends and pull off gently noting their positions.

MANIFOLD ASSEMBLY AJS/2008 The Manifold is located by friction fit in the skirt of the Case Base (FIG 10). If it is damaged it can be replaced. Unscrew 4 Nuts and remove tubes. Pull out Vacuum Pipe 'A'. Cut Vacuum Pipe 'B' (FIG 6) close to rubber bush as it is glued for transportation. Lever Manifold from Case Base. Replace with new unit. Both Vacuum Pipes 'A' & 'B' need only be pushed in.

11. TROUBLE SHOOTING

FAULT	CAUSE	REMEDY
1. Unit does not spray	a. Vacuum Pump not switched on b. Vacuum line not airtight c. Constricted Vacuum Supply Pipe (E) d. Chemical Container is empty e. Intake Filter (D) blocked f. Pressure Line (F) blocked g. Spray Nozzle AJS/2415 blocked h. Unsuitable chemical being used i. Pump AJS/2004 faulty j. Directional Valve ATS/425 faulty k. Relief Valve AJS/2006 faulty	a. Switch on Vacuum Pump b. Check that Vacuum is reaching Power Unit by pulling Supply Pipe out and test with finger. Check Vacuum Pipe adaptor is correctly installed c. Check for kinks and overtightened Cable Ties d. Fill Container e. Clean Filter f. Clear blockage, check for constrictions, kinks and tight Cable Ties g. Disassemble, clean Nozzle (Fig 12) h. Change to recognised Teat Disinfectant i. Check Pump and repair or replace j. Check Valve and repair or replace k. Check Valve and clean, repair or replace
2. Nozzle (Fig.12) does not shut off cleanly or Leaks	a. Air in pressure Line (F) b. Control Valve ATS/405 dirty or damaged	a. Vent as described under "8. Initial start up" b. Clean or replace Control Valve
3. Chemical running out of Power Unit	a. Loose Connector Nut b. Defective Pump or Relief Valve	a. Locate leak and tighten Nut b. Check Units and repair or replace
4. Unit pressurised when Vacuum switched off	Relief Valve faulty	Repair or replace
5. Chemical leaks into Vacuum line	Relief Valve or Pump faulty	Immediately disconnect Vacuum line & plug it. Repair or replace defective part(s).

12. TECHNICAL DATA

Power Source	Vacuum 12-15 in. Hg (40-50Kpa)	Maximum No. of Guns operated simultaneously	3
Chemical Consumption	6-12 ml/Sec	Maximum No. of Guns per Power Unit	50
Air Consumption	50l/min (1.8cfm Atmospheric Air @ 50Kpa)	Maximum length of Pressure Line	80ft 25m
Spray Pressure	(Low Pressure Module) 40 psi (2.75BAR) @ 46Kpa (13.5Hg) AJS/2014 (Standard Pressure Module) 50psi (3.4BAR) @ 46Kpa (13.5Hg) AJS/2016 (High Pressure Module) 60psi (4.1BAR) @ 46Kpa (13.5Hg) AJS/2018		



The Coburn Company, Inc. • P O Box 147 • Whitewater, WI 53190 U.S.A.

phone 800-776-7042 262-473-2822 • fax 800-776-7044 262-473-3522