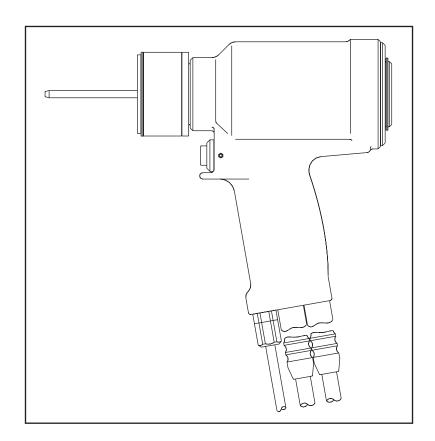
Alcoa Fastening Systems



2620 A2620 2620-PT A2620-PT

HYDRAULIC INSTALLATION TOOLS



Makers of Huck[®], Marson[®], Recoil[®] Brand Fasteners, Tools & Accessories



EU Declaration of Conformity

Manufacturer:

Alcoa Fastening Systems, Commercial Products Division, 1 Corporate Drive, Kingston, NY, 12401, USA

Description of Machinery:

Model numbers 2620 series fastener installation tools

Relevant provisions complied with:

Council Directive related to Machinery, (89/392/EEC), (91/368/EEC), (93/44/EEC), (93/68/EEC)

Council Directive related to EMC/EMI, (89/336/EEC)

European Representative:

Rob Pattenden, Huck International, Ltd. Unit C Stafford Park 7, Telford Shropshire TF3 3BQ, England, United Kingdom

Authorized Signature/date:

I, the undersigned, do hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Signature: _____

Full Name: Henk Rosier

Position: Engineering Manager

Installation Systems Division

Place: Kingston, New York, USA

Date: October, 2004

Sound Levels

Models: 2620, A2620, 2620-PT, and A2620-PT

SEL = 92.2 dB (A) peak value = 108.2 dB (C)

For an eight hour work day, installing 1,000 typical Huck fasteners will result in an equivalent noise level (Leq) of 77.7 dB (A).

To calculate equivalent noise level for other quantities of fasteners in an eight hour period, use the formula:

Leq = SEL + 10 log (n/28,800)

where n = number of fasteners in eight hours.

Vibration Levels

Models: 2600, 2600-12, 2600-16, and 2600-16-12

For an eight hour work day, installing 1,000 typical Huck fasteners will result in an equivalent weighted RMS vibration level (Aeq) of 4.6m/s².

To calculate equivalent vibration level for other quantities of fasteners in an eight hour period, use the formula:

Equivalent Vibration Level, Aeq $(m/s^2) = (n/480) \times 2.00$

where n = number of fasteners in eight hours, and $2.00(m/s^2)$ = Aeq for 60 seconds.

Test data to support the above information is on file at Alcoa Fastening Systems, Commercial Products Division, Kingston Operations, Kingston, NY, USA. Vibration measurements are frequency weighted in accordance with ISO 8041 (1990).

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SAFETY

This instruction manual must be read with particular attention to the following safety guide lines, by any person servicing or operating this tool.

1. Safety Glossary



Product complies with requirements — set forth by the relevant European directives.



Read manual prior to using equipment.



Eye protection required while using this equipment.



Hearing protection required while using this equipment.



WARNINGS - Must be understood to avoid severe personal injury.

CAUTIONS - show conditions that will damage equipment and or structure.

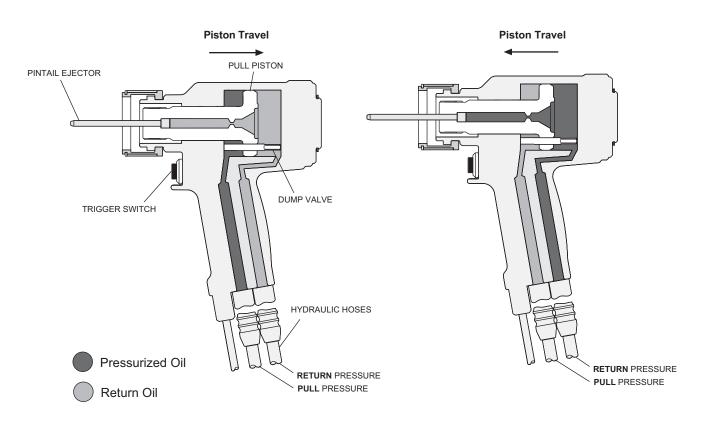
Notes - are reminders of required procedures.

Bold, Italic type and underlining emphasizes a specific instruction.

- 2. Huck equipment must be maintained in a safe working condition at all times and inspected on a regular basis for damage or wear. Any repair should be done by a qualified repairman trained on Huck procedures.
- 3. Repairman and Operator must read manual prior to using equipment and understand any Warning and Caution stickers/labels supplied with equipment before connecting equipment to any primary power supply. As applicable, each of the sections in this manual have specific safety and other information.
- See MSDS Specifications before servicing the tool. MSDS Specifications are available from you Huck representative or on-line at www.huck.com. Click on Installation Systems Division.

- When repairing or operating Huck installation equipment, always wear approved eye protection. Where applicable, refer to ANSI Z87.1 - 1989
- Disconnect primary power source before doing maintenance on Huck equipment.
- If any equipment shows signs of damage, wear, or leakage, do not connect it to the primary power supply.
- Make sure proper power source is used at all
- Never remove any safety guards or pintail deflector.
- 10. Never install a fastener in free air. Personal injury from fastener ejecting may occur.
- 11. When using an offset nose always clear spent pintail out of nose assembly before installing the next fastener.
- 12. If there is a pinch point between trigger and work piece use remote trigger. (Remote triggers are available for all tooling).
- 13. Do not abuse tool by dropping or using it as a hammer. Never use hydraulic or air lines as a handle. Reasonable care of installation tools by operators is an important factor in maintaining tool efficiency, eliminating downtime, and in preventing an accident which may cause severe personal injury.
- 14. Never place hands between nose assembly and work piece.
- 15. Tools with ejector rods should never be cycled with out nose assembly installed.
- 16. When two piece lock bolts are being used always make sure the collar orientation is correct. See fastener data sheet of correct positioning.

PRINCIPLE OF OPERATION



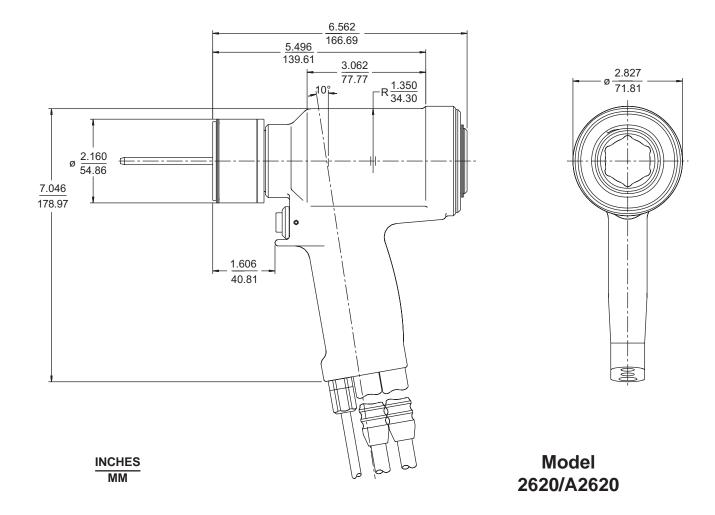
Pull Pressure (Pull Cycle) Fig. 1(a)

Return Pressure (Return Cycle) Fig. 1(b)

When the trigger is depressed, a solenoid operated valve in the POWERIG® directs pressurized hydraulic fluid through the PULL hose to the front side of the piston, and allows fluid on the RETURN side to flow back to the tank (Fig 1a). The piston and nose assembly collet moves rearward installing the fastener. When the piston reaches the end of the PULL stroke, it uncovers flats on the rear end of the unloading valve. These flats are designed to provide a passage for hydraulic fluid from the PULL side to the RETURN side of

the piston, "unloading" or "dumping" the pressurized fluid back to the tank (Fig 1a). When the trigger is released the solenoid is de-energized and the valve directs pressurized fluid to the rear side of the piston and allows fluid on the PULL side to flow back to the tank (Fig. 1b). This causes piston and collet to move forward and pushes the nose assembly and tool off the swaged (installed) fastener. When the piston reaches the end of the return stroke, pressure is built up, causing the power rig to shut off, completing the cycle.

SPECIFICATIONS (2620/A2620)



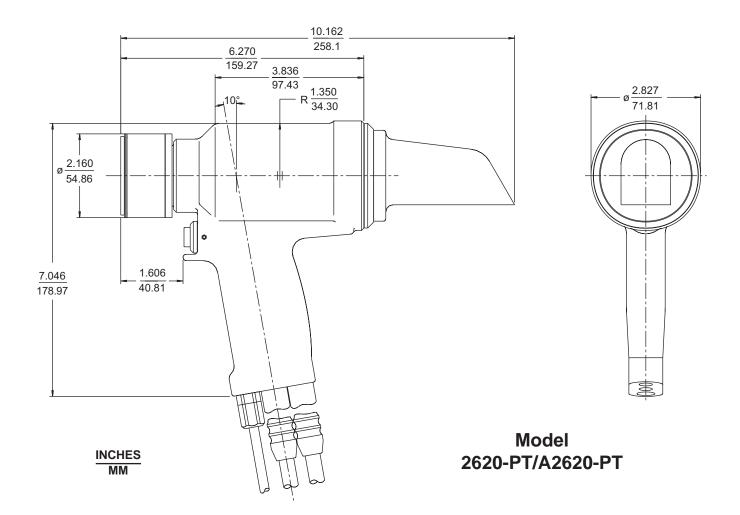
• **Stroke:** 1.437in

• Pull Pressure: 7,400 psi • Return Pressure: 3,200 psi

• Weight: 9 lbs 14oz

• Capacity: 17,745 lbs @ 6,500 psi •

SPECIFICATIONS (2620-PT/A2620-PT)



• Stroke: 1.437 in

• Pull Pressure: 7,400 psi

• Capacity: 17,745 lbs @ 6,500 psi

• **Weight:** 9 lbs 14oz

• Return Pressure: 3,200 psi

PREPARATION FOR USE







 Use Huck POWERIG® Hydraulic Unit, or equivalent, that has been prepared for operation per applicable *instruction manual*. Check both PULL and RETURN pressures, and if required, adjust to pressures given in *specifications of this manual*.



WARNING - Proper PULL and RETURN pressures are important for proper function of Installation Tools. Severe personal injury or damage to equipment may occur without correct pressures. Huck Pressure Gauge P/N T-10280 (old style) or the new T124833 is now available for checking these pressures using instructions furnished with the gauge and in applicable POWERIG® Hydraulic Unit instruction manuals. See Specifications.

2. First, turn hydraulic unit to OFF, and then, disconnect power supply from unit. Connect tool's hoses to unit.



WARNING - Be sure to connect tool hoses to hydraulic unit BEFORE connecting tool electrical switch cord to unit. Hoses and switch must be connected in this order and disconnected in the reverse order to prevent possible severe personal injury.

- 3. Connect tool's control switch electrical cord to hydraulic unit.
- 4. Connect hydraulic unit to power supply. Turn unit to ON. Hold tool trigger depressed for 30 seconds; depress trigger a few times to cycle tool and to circulate hydraulic fluid. Observe action of tool and check for leaks. Turn unit to OFF.
- Select nose assembly for fastener to be installed. Disconnect tool's control switch electrical cord from hydraulic unit; disconnect unit from power supply. Attach nose assembly to tool.
- Reconnect hydraulic unit to power supply. Reconnect tool's switch control cord to unit. Check operation of nose assembly; install fasteners in test plate of correct thickness with proper size holes. Inspect installed fasteners. If fasteners do not pass inspection, see *Troubleshooting* to locate and correct tool malfunction.

SERVICING THE TOOL



CAUTION: Keep dirt and other harmful material out of hydraulic system, which includes tool, hoses, couplers and POWERIG Hydraulic Unit. Parts must be kept away from unclean work surfaces. Dirt in hydraulic system causes valve failure in hydraulic unit.

Individual parts must be handled carefully and examined for damage or wear. Replace parts where required. Always replace O-rings and Back-up Rings when tool is disassembled for any reason. See applicable Service Kit.



WARNING: Inspect tool for damage or wear before each use. Do not operate if damaged or worn, as severe personal injury may occur

 The efficiency and life of your tool depends on proper maintenance. Using the manual will help







give a clear understanding of the tool and basic maintenance procedures. Please read this page completely before proceeding with maintenance and repair. Use proper hand tools in a clean and well-lighted area. Only standard hand tools are required in most cases. Where a special tool is required, the description and part number are given.

 While clamping tool or parts in a vise, and when parts require force, use suitable soft materials to cushion impact. For example, using a half-inch brass drift, wood block and vise with soft jaws greatly reduces possibility of damaging tool. Remove components in a straight line without bending, cocking or undue force. Reassemble tool with the same care.

(continued)

Consult TROUBLESHOOTING section of this







GOOD SERVICE PRACTICES (continued)

manual if a malfunction occurs and then see appropriate section of *DISASSEMBLY; ASSEMBLY;* Assembly and/or Component illustration(s).

Sealants, Lubricants, Hydraulic Fluid and Service Kits

- Rub SLIC-TITE TEFLON thread compound, or equivalent, on pipe threads to prevent leaks and for ease of assembly. CAUTION: Do not use TEFLON tape on pipe threads. Particles of shredded tape cause hydraulic unit valve failure. (SLIC-TITE in stick form, 503237).
- Smear LUBRIPLATE 130AA, or equivalent, on Orings and mating surfaces to prevent damaging Orings on rough or sharp surfaces. Also, increases ease of assembly. (LUBRIPLATE in a tube, 502723).
- Each Service Kit contains perishable parts for your specific tool. As foreseeable use may indicate, keep extra kits (O-rings, Back-up Rings, other standard items) and tool parts in stock. When stock is depleted, you can get kit items from any regular retailer of these items. See kit parts list for: O-ring size (AS568- number); material; durometer. For kit parts lists and related information, see General Notes.

PREVENTIVE MAINTENANCE

System Inspection

Operating efficiency of the tool is directly related to the performance of the complete system, including the tool with nose assembly, hydraulic hoses, trigger switch and control cord, and POWERIG Hydraulic Unit. Therefore, an effective preventive maintenance program includes scheduled inspections of the system to detect and correct minor troubles.

- Inspect tool and nose assembly for external damage.
- Verify that hydraulic hose fittings and couplings, and electrical connections are secure.
- Inspect hydraulic hoses for damage and deterioration. Do not use hoses to carry tool. Replace hoses if damaged.
- · Observe tool, hoses and hydraulic unit during

operation to detect abnormal heating, leaks or vibration.

POWERIG Hydraulic Unit Maintenance

Refer to the applicable POWERIG instruction manual.

Tool Maintenance

Whenever disassembled and also at regular intervals (depending on severity and length of use) replace all seals, wipers and back-up rings in tool. Service Kits, hoses and extra parts should be kept in stock. Inspect cylinder bore, pistons and piston rods for scored surfaces and excessive wear or damage. Replace as necessary.

Nose Assembly Maintenance

Clean nose often. Dip in mineral spirits, or similar solvent, to clean jaws and wash away metal chips and debris. At regular intervals, as experience shows, disassemble nose and use a sharp "pick" to remove imbedded particles from grooves of jaws.

DISASSEMBLY All Models

(Refer to Figures 2-4 & 8-13)

For component identification and Parts Lists refer to Figures 8-13.

NOTE:

The following procedure is for complete disassembly of tool. Disassemble **only** components necessary to replace damaged O-rings, Quad-Rings, Back-up Rings, and worn or damaged components. Always use soft jaw vice to avoid damage to tool.



WARNING: Be sure to disconnect tool's electric control trigger system from Hydraulic Unit before disconnecting tool's hoses from unit. Before any maintenance is done, DISCONNECT IN THIS ORDER (RECONNECT IN THE OPPOSITE ORDER) to avoid possible severe personal injury.

- Disconnect electrical or air connector from Powerig. Uncouple tool hydraulic hoses.
- 2. Remove nose assembly.







- 3. Unscrew coupling nipple and coupling body. Drain hydraulic hoses into container. Discard fluid.
- 4. Push rearward on Piston (4) until remaining hydraulic fluid is drained into container. Discard fluid.
- 5. NOTE: Do not remove hydraulic hoses from tool unless replacing hoses. If necessary to remove hoses, uncover hose fittings by sliding plastic shrouds back.
- 6. **NOTE:** Use the following steps **only** if the switch, wire or connector needs repair.

2620, 2620-PT Models Only

Remove Retaining Nut and Locking ferrule from Strain Relief (20). Loosen set screw (37) and remove switch (21). Loosen and remove the two wires from the switch. Remove cord from tool. Disassemble electrical connector (110686) (Figs. 8,9&12).

A2620, A2620-PT Models Only

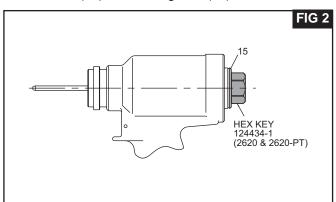
Unscrew and remove Air Switch (21). Remove Retaining Nut and Locking ferrule from Air Fitting (20). Remove plastic tubing and unscrew remaining part of fitting (20) from handle (Fig. 10,11&13).

7. Standard Models: (Fig. 8 & 10)

Remove Retaining Ring (17), cover plate (16) and Locking Disk (18).

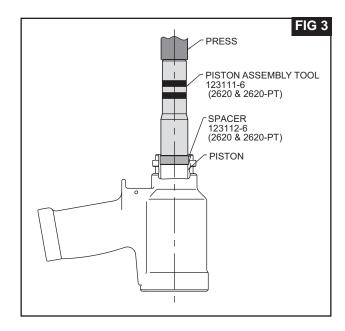
2620-PT Model: (Fig. 9 & 11)

Remove Deflector (32), Screws (31), Barbed Retainer (30) and locking disk (18).

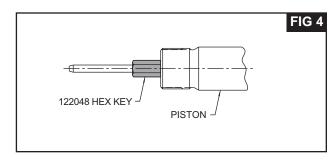


- 8. Insert hex key in End Cap (15) as shown in figure 2. Using a wrench unscrew end cap from cylinder.
- 9. Standard Models: (Fig. 8 & 10) Remove O-ring (9) and Back-up Ring (8) 2620-PT Model: (Fig.9 & 11)

Remove O-ring (9), Back-up Ring (8), retaining ring (36), washer (35), polyseal (34) and wiper seal (33).



- 10. Remove Dump Valve (19) from rear of cylinder.
- 11. Slide Spacer (123112-6/7) over piston and thread on Piston Assembly Tool (123111-6/7). Using a press push front gland and piston assemblies out of the back of the cylinder. (Fig. 3)
- 12. Remove Piston Assembly Tool (123111-6/7) and Spacer (123112-6/7) (Fig.3).
- 13. Slide Front Gland (11) off of Piston (4) and remove Wiper (6), Wiper Housing (7), Back-up Ring (8), Oring (9) and Polyseal (10) (Fig. 8 - 11).



- 14. Remove GLYD Ring (13) from Piston (4) (Fig. 5).
- 15. Standard Models Only: (Fig. 4, 8 & 10) Hold Piston (4) in a vise with soft jaws and remove Ejector Gland Assembly (22) with Hex Key 122048
- 16. Standard Models Only: (Fig. 4, 8 & 10) Remove from gland, Ejector Rod (29), Washer (23), O-rings (24), Wiper (26) Quad-Ring (28) and Backup Ring (27).







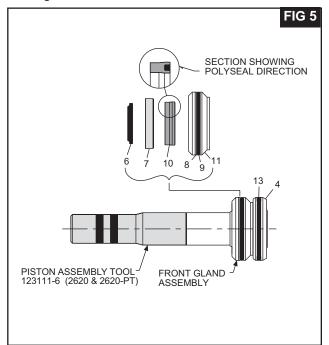
ASSEMBLY All Models

(Refer to Figures 2, 4, 5, & 8-13)

For component identification and Parts Lists, refer to Figures 8-11.

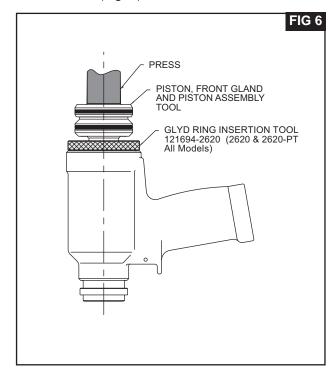
NOTE: Clean components with mineral spirits, or similar solvent. Inspect for wear/damage and replace as necessary. Replace all seals of disassembled components. Use O-rings, Quad-Rings and Back-up Rings in **Service Parts Kit 2620KIT (all models) and 2620-PTKIT (all models).** Smear LUBRIPLATE 130AA or PARKER-O-LUBE on O-rings, Quad-Rings, Back-up Rings and mating parts to ease assembly. Assemble tool taking care not to damage O-rings, Quad-Rings, or Back-up Rings.

- Standard Models Only: (Fig. 8 & 10)
 Install Back-up Ring (27), Quad-Ring (28), Wiper (26), O-rings (24), Washer (23) and Ejector Rod (29) into Ejector Gland (25).
- Standard Models Only: (Fig. 4, 8 & 10)
 Hold Piston (4) in a vise with soft jaws and install assembled Ejector Gland (22). Use Hex Key 122048 to tighten.



3. Thread Piston Assembly Tool (123111-6/7), onto piston (4) (Fig. 5). *Note: Do not install spacer* 123112-6/7.

- Install GLYD Ring (13) onto Piston (4) (Fig. 5).
- 5. Install Polyseal (10), O-ring (9), Back-up Ring (8), Wiper Housing (7) and Wiper (6) into Front Gland (11) (Fig.5).
- Lube Piston Assembly Tool and Piston, then slide assembled Gland (11) over Piston Assembly Tool onto Piston (Fig. 5).



- 7. Thread GLYD Ring Insertion Tool (121694-2620) into the back of the Cylinder (Fig. 6).
- 8. Using a press, push Piston and Front Gland Assemblies into the back of Cylinder (5). (Fig. 6)
- 9. Remove Piston Assembly Tool (123111-6/7) (Fig. 5).
- 10. Remove the GLYD Ring Insertion Tool (121694-2620) from the back of the Cylinder (Fig.6).
- 11. From the rear of Cylinder, install Dump Valve (19) with the four flats facing the rear of the tool (Figures 8-11).

(continued)



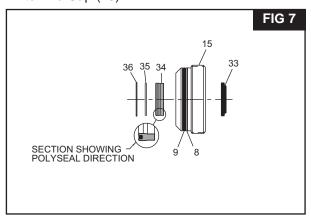




12. <u>Standard Models: (Fig. 8 & 10)</u>
Install O-ring (9) and Back-up Ring (8) on End Cap

2620-PT Model: (Fig.7, 9 & 11)

Install Back-up Ring (8), O-ring (9), Wiper Seal (33), Polyseal (34), Washer (35) and Retaining Ring (36) into End Cap (15).



- 13. Insert Hex Key into the End Cap (15). Using a wrench thread the End Cap into the back of the Cylinder and tighten (Fig. 2).
- Standard Models: (Fig. 8 & 10)
 Install Locking Disk (18), Cover Plate (16) and Retaining Ring (17).

 2620-PT Model: (Fig. 9 & 11)
 Install Locking Disk (18), Barbed Retainer (30),

Screws (31) and Deflector (32).

 If removed, reinstall Electrical/Air Connector (Fig.12 & 13).

16. **NOTE:** If switch or wire have been removed, replace as follows:

2620, 2620-PT Models Only

Slide Retaining Nut and Ferrule onto Electrical Wire. Feed Wire through Handle and pull out through the Trigger Switch hole. Attach Wires to Switch (21) and push the assembly back into the Handle. Tighten Screw (37) to hold Trigger Switch in place. Slide Ferrule into Strain Relief Housing, then thread and tighten Retaining Nut (Fig. 8,9 & 12).

A2620, A2620-PT Models Only

Install fitting (20) into handle. Slide retaining nut and ferrule over plastic tubing. Slide tubing into fitting (20) and tighten retaining nut. Screw in air trigger (21) and tighten (Fig. 8,9 & 13).

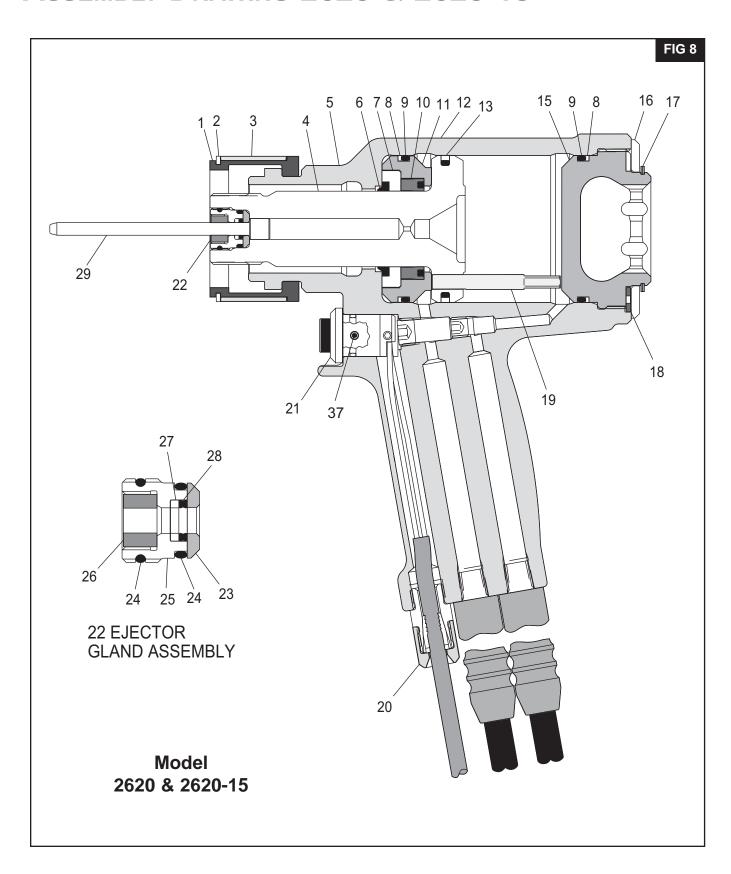
17. If removed, install one hydraulic Hose in Handle port marked "P" and one in port marked "R".

CAUTION: Do not use TEFLON tape on pipe threads.(See Good Service Practices Page 9)

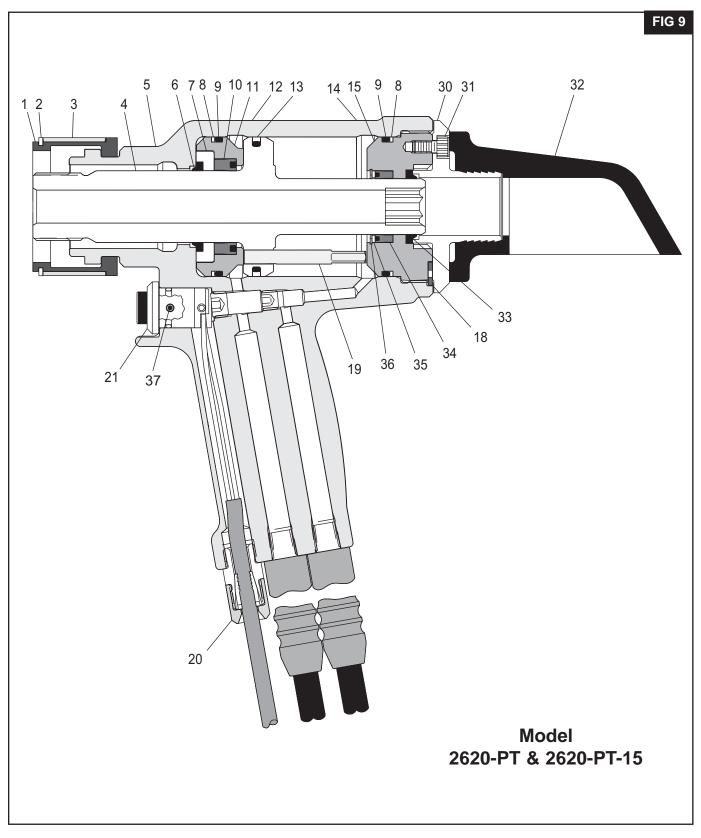
18. Install Coupler Nipple 110438, (PULL pressure hose); Coupler Body 110439, (RETURN pressure hose) (Fig. 12 & 13).

• • • • • • • Use Area Below for Service Notes: • • • •

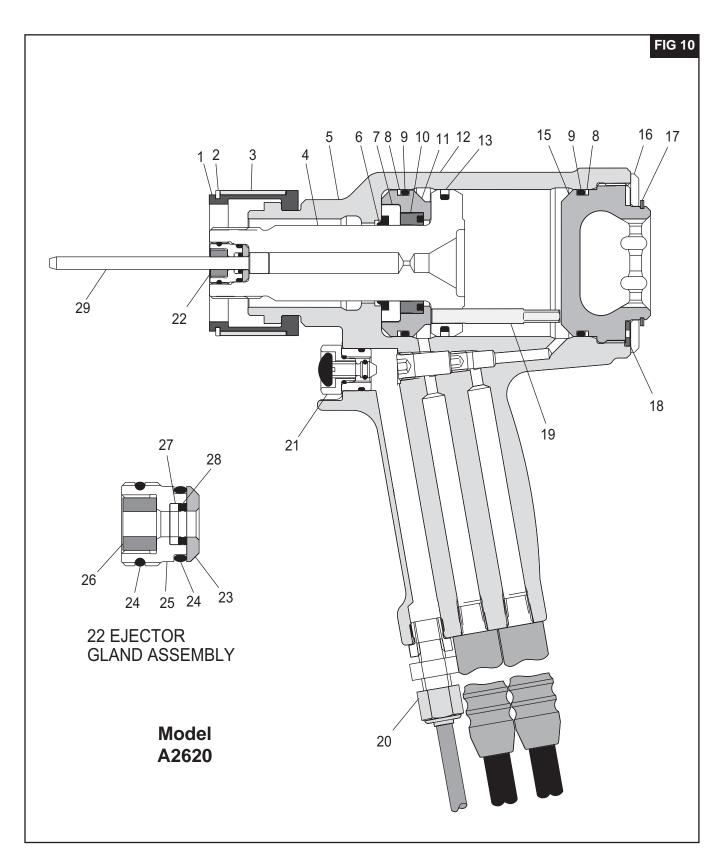
ASSEMBLY DRAWING 2620 & 2620-15



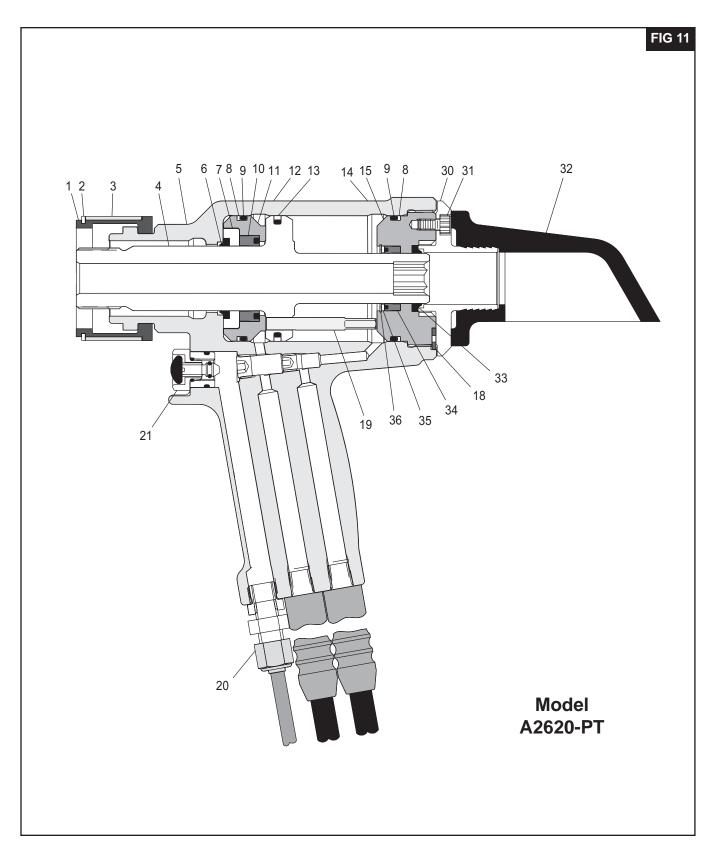
ASSEMBLY DRAWING 2620-PT-15



ASSEMBLY DRAWING A2620



ASSEMBLY DRAWING A2620-PT

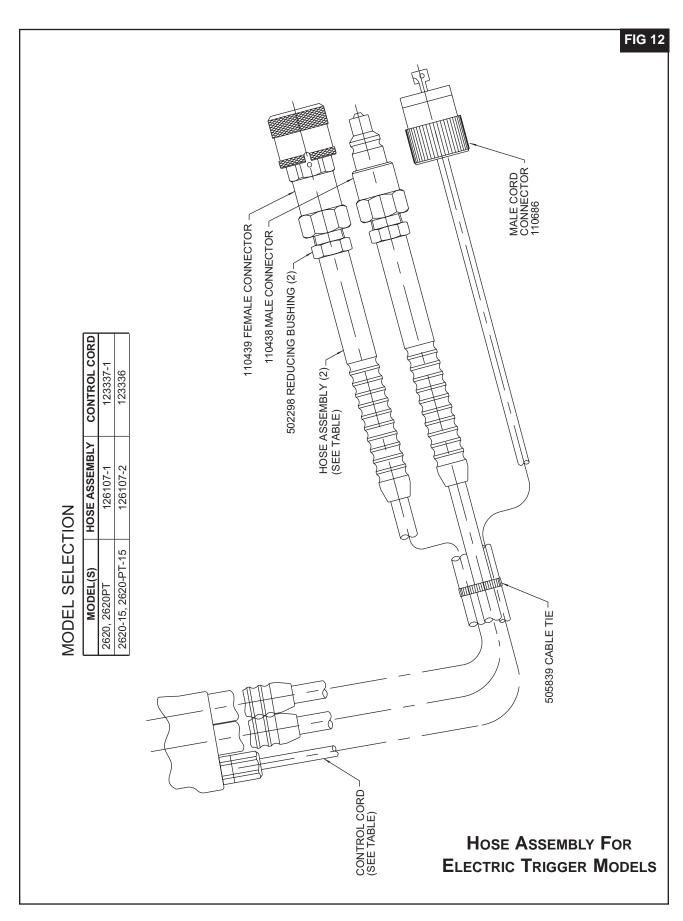


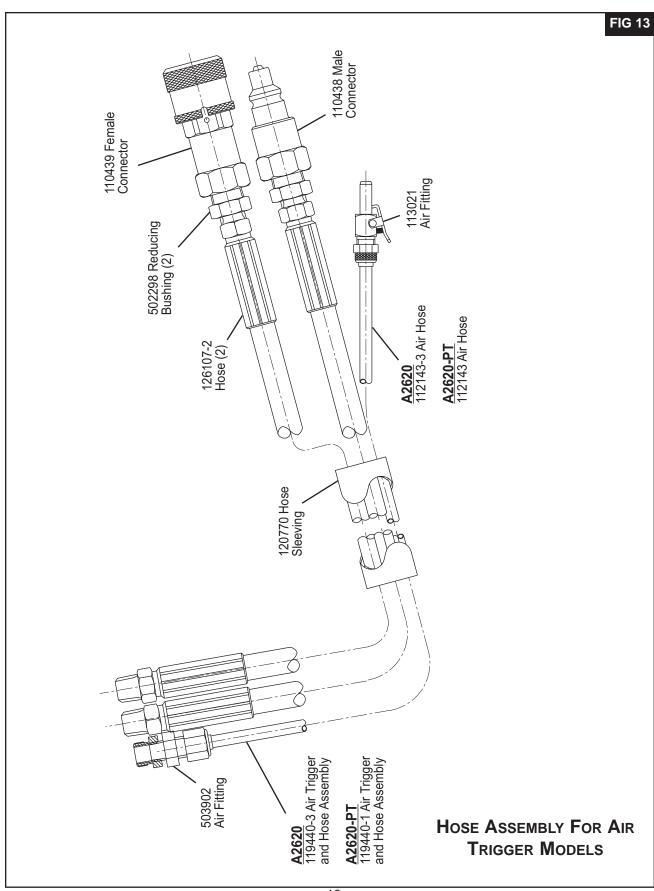
PARTS LIST (Figures 1, 2A, 2B, and 2C)

Location 2620-15 2620-PT-15 1 Split Ring 1 102147 102147 102147 102147 2 Retaining Ring 1 501514 501514 501514 501514 3 Retaining Sleeve 1 102148 102148 102148 102148 4 Piston 1 125612* 125612* 125761** 125761** 5 Cylinder Assembly 1 126152 126152 126152 126152 6 Wiper Seal 1 507407 507407 507407 507407 7 Wiper Housing 1 125610 125610 125610 125610 8 Back-up Ring 2 501127 501127 501127 501127 9 O-ring 2 507412 507412 507412 507412 10 Polyseal 1 507408 507408 507408 507408 11 Front Gland 1 125609 1256	Item	Description	Qty	2620	A2620	2620-PT	A2620-PT
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4 Piston 1 125612* 125612* 125761** 125761** 5 Cylinder Assembly 1 126152 126162 126162 126162 126162 126162 126162 126152 12614 125610 125610 125609 125609	3		1	102148	102148	102148	102148
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7 Wiper Housing 1 125610 125610 125610 125610 125610 125610 125610 125610 125610 125610 125610 125610 125610 125610 501127 507412 507412 507412 507418 507408 507408 507408 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125609 125601 125601 122769 122769 122769 <td>5</td> <td>Cylinder Assembly</td> <td>1</td> <td>126152</td> <td>126152</td> <td>126152</td> <td>126152</td>	5	Cylinder Assembly	1	126152	126152	126152	126152
8 Back-up Ring 2 501127 501127 501127 501127 501127 9 0-ring 2 507418 507408 507408 507408 507408 507408 507408 507408 507408 507408 507189-2 590	6	Wiper Seal	1	507407	507407	507407	507407
9 O-ring 2 507412 507412 507412 507408 500240 50240 </td <td>7</td> <td>Wiper Housing</td> <td>1</td> <td>125610</td> <td>125610</td> <td>125610</td> <td>125610</td>	7	Wiper Housing	1	125610	125610	125610	125610
9 O-ring 2 507412 507412 507412 507408 500240 50240 </td <td>8</td> <td>Back-up Ring</td> <td>2</td> <td>501127</td> <td>501127</td> <td>501127</td> <td>501127</td>	8	Back-up Ring	2	501127	501127	501127	501127
11 Front Gland 1 125609 1256019 122769-1 122763 125616 125616 125616 125616 125616 125616 122764	9		2	507412	507412	507412	507412
11 Front Gland 1 125609 1256019 122769-1 122763 125616 125616 125616 125616 125616 125616 122764	10	Polyseal	1	507408	507408	507408	507408
13 GLYD Ring Assembly 1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 122769-1 590240	11	Front Gland	1	125609	125609	125609	125609
14 Warning Sticker 1	12	Caution Sticker	1	590189-2	590189-2	590189-2	590189-2
15 End Cap 1 125614 125614 125763 125763 16 Cover Plate 1 125617	13	GLYD Ring Assembly	1	122769-1	122769-1	122769-1	122769-1
16 Cover Plate 1 125617	14	Warning Sticker	1			590240	590240
17 Retaining Ring 1 507406 507406	15	End Cap	1	125614	125614	125763	125763
18 Locking Disc 1 122764 122764 122764 122764 19 Dump Valve 1 125616 125616 125616 125616 20 Strain Relief or Air Fitting 1 505344 503902 505344 503902 21 Trigger Switch Assembly 1 120361 119345-1 120361 119345-1 22 Ejector Gland Assembly 1 120653 120653	16	Cover Plate	1	125617	125617		
19 Dump Valve 1 125616 125616 125616 125616 20 Strain Relief or Air Fitting 1 505344 503902 505344 503902 21 Trigger Switch Assembly 1 120361 119345-1 120361 119345-1 22 Ejector Gland Assembly 1 120653 120653	17	Retaining Ring	1	507406	507406		
20 Strain Relief or Air Fitting 1 505344 503902 505344 503902 21 Trigger Switch Assembly 1 120361 119345-1 120361 119345-1 22 Ejector Gland Assembly 1 120653 120653	18	Locking Disc	1	122764	122764	122764	122764
21 Trigger Switch Assembly 1 120361 119345-1 120361 119345-1 22 Ejector Gland Assembly 1 120653 120653	19	Dump Valve	1	125616	125616	125616	125616
22 Ejector Gland Assembly 1 120653	20	Strain Relief or Air Fitting	1	505344	503902	505344	503902
23 Ejector Washer 1 120652	21	Trigger Switch Assembly	1	120361	119345-1	120361	119345-1
24 O-ring 2 500779 500779	22	Ejector Gland Assembly	1	120653	120653		
25 Gland 1 122047	23	Ejector Washer	1	120652	120652		
26 Rod Wiper 1 122742 122742	24	O-ring	2	500779	500779		
27 Back-up Ring 1 501080	25	Gland	1	122047	122047		
28 Quad-Ring 1 501411 501411	26	Rod Wiper	1	122742	122742		
29 Pintail Ejector 1 122705	27	Back-up Ring	1	501080	501080		
30 Barbed Retainer 1	28	Quad-Ring	1	501411	501411		
31 Screws 3	29	Pintail Ejector	1	122705	122705		
32 Deflector 1	30	Barbed Retainer	1			125765	125765
33 Wiper Seal 1	31	Screws	3			500060	500060
34 Polyseal 1	32	Deflector	1			122766	122766
35 Spacer 1	33	Wiper Seal	1			505894	505894
36 Retaining Ring 1 506159 506159	34	Polyseal	1			506160	506160
	35	Spacer	1			122762	122762
37 Set Screw 1 501731 501731 501731 501731	36	Retaining Ring	1			506159	506159
	37	Set Screw	1	501731	501731	501731	501731

^{*} Piston 125612 is not sold separately. It may be purchased as Piston Assembly part no. 125613, which contains Piston 125612 and GLYD Ring Assembly 122769-1.

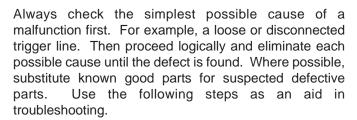
^{**} Piston 125761 is not sold separately. It may be purchased as Piston Assembly part no. 125762, which contains Piston 125761 and GLYD Ring Assembly 122769-1.





Alcoa Fastening Systems

TROUBLESHOOTING



- 1. Tool fails to operate when trigger is pressed.
 - a. Inoperative POWERIG® Hydraulic Unit. See applicable instruction manual.
 - b. Loose electrical connections.
 - c. Damaged trigger assembly.
 - d. Loose or faulty hose coupling.
- 2. Tool operates in reverse.
 - a. Reversed hose connections between hydraulic unit and tool.
- 3. Tool leaks hydraulic fluid.
 - a. Defective tool O-rings or loose connections at tool.
- 4. Hydraulic couplers leak fluid.
 - a. Damaged or worn O-rings in Coupler Body Coupler P/N 110440.
- 5. Hydraulic fluid overheats.
 - a. Unit not operating properly - see units manual.
 - b. Unit running in reverse (918; 918-5 only) - see units manual.
- 6. Tool operates erratically and fails to install fastener properly.
 - a. Low or erratic hydraulic pressure - air in system.
 - b. Damaged or worn Piston O-ring in tool.
 - c. Excessive wear on sliding surfaces of tool parts.
- 7. Pull grooves on fastener pintail stripped during PULL stroke.
 - a. Operator not sliding anvil completely onto fastener pintail.
 - b. Incorrect fastener grip.
 - c. Worn or damaged jaw segments.
 - d. Metal particles in jaw grooves.
 - e. Excessive sheet gap.
- 8. Collar of fastener not completely swaged.
 - a. Improper tool operation - see No. 6.
 - b. Scored anvil.
- 9. Tool "hangs up" on swaged collar of fastener.
 - a. Improper tool operation - see No. 6.
 - b. RETURN pressure too low.







- c. Not enough collar lubricant.
- d. Nose assembly not installed per NOSE ASSEMBLY DATA SHEET.
- 10. Pintail of fastener fails to break.
 - a. Improper tool operation - see No. 6.
 - b. Pull grooves on fastener stripped - see No. 7.
 - c. PULL pressure too low.
- 11. Nose will not release broken pintail.
 - a. Nose assembly not installed per NOSE ASSEMBLY DATA SHEET.

KITS AND ACCESSORIES

Service Kits:

2620/A2620 - 2620KIT 2620-PT/A2620-PT - 2620-PTKIT

Assembly Tool Kits:

2620/A2620 &

2620-PT/A2620-PT Tool Kit - 123110-7

Includes: (Fig. 3 & 6))

Spacer - 123112-6
Piston Assembly Tool - 123111-6
GLYD Ring Insertion Tool - 121694-2620

Accessories:

Ejector Hex Wrench (All Models) - 122048

End Cap Hex Wrench

2620 & 2620-PT - 124434-1 2620-PT/A2620-PT - 124434-1

Remote Trigger (All Models) - 123381-24

LIMITED WARRANTIES

Tooling Warranty: Huck warrants that tooling and other items (excluding fasteners, and hereinafter referred as "other items") manufactured by Huck shall be free from defects in workmanship and materials for a period of ninety (90) days from the date of original purchase.

Warranty on "non standard or custom manufactured products": With regard to non-standard products or custom manufactured products to customer's specifications, Huck warrants for a period of ninety (90) days from the date of purchase that such products shall meet Buyer's specifications, be free of defects in workmanship and materials. Such warranty shall not be effective with respect to non-standard or custom products manufactured using buyer-supplied molds, material, tooling and fixtures that are not in good condition or repair and suitable for their intended purpose.

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Huck's sole liability and Buyer's exclusive remedy for any breach of warranty shall be limited, at Huck's option, to replacement or repair, at FOB Huck's plant, of Huck manufactured tooling, other items, nonstandard or custom products found to be defective in specifications, workmanship and materials not otherwise the direct or indirect cause of Buyer supplied molds, material, tooling or fixtures. Buyer shall give Huck written notice of claims for defects within the ninety (90) day warranty period for tooling, other items, nonstandard or custom products described above and Huck shall inspect products for which such claim is made.

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The only warranties made with respect to such tool, part(s) or other items thereof are those made by the manufacturer thereof and Huck agrees to cooperate with Buyer in enforcing such warranties when such action is necessary.

Huck shall not be liable for any loss or damage resulting from delays or nonfulfillment of orders owing to strikes, fires, accidents, transportation companies or for any reason or reasons beyond the control of the Huck or its suppliers.

Huck Installation Equipment

Huck International, Inc. reserves the right to make changes in specifications and design and to discontinue models without notice.

Huck Installation Equipment should be serviced by trained service technicians only.

Always give the Serial Number of the equipment when corresponding or ordering service parts.

Complete repair facilities are maintained by Huck International, Inc. Please contact one of the offices listed below.

Eastern

One Corporate Drive Kingston, New York 12401-0250 Telephone (845) 331-7300 FAX (845) 334-7333

<u>Canada</u>

6150 Kennedy Road Unit 10, Mississauga, Ontario, L5T2J4, Canada.

Telephone (905) 564-4825 FAX (905) 564-1963

Outside USA and Canada

Contact your nearest Huck International Office, see back cover.

In addition to the above repair facilities, there are Authorized Tool Service Centers (ATSC's) located throughout the United States. These service centers offer repair services, spare parts, Service Parts Kits, Service Tools Kits and Nose Assemblies. Please contact your Huck Representative or the nearest Huck office listed on the back cover for the ATSC in your area.



For the Long Haul™

A Global Organization

Alcoa Fastening Systems (AFS) maintains company offices throughout the United States and Canada, with subsidiary offices in many other countries. Authorized AFS distributors are also located in many of the world's

industrial and Aerspace centers, where they provide a ready source of AFS fasteners, installation tools, tool parts, and application assistance.

Alcoa Fastening Systems world-wide locations:

Americas

Alcoa Fastening Systems Aerospace Products Tucson Operations

3724 East Columbia Tucson, AZ 85714 800-234-4825 520-747-9898 FAX: 520-748-2142

Alcoa Fastening Systems Aerospace Products Carson Operations

PO Box 5268 900 Watson Center Rd. Carson, CA 90749 800-421-1459 310-830-8200 FAX: 310-830-1436

Alcoa Fastening Systems Commercial Products Waco Operations

PO Box 8117 8001 Imperial Drive Waco, TX 76714-8117 800-388-4825 254-776-2000 FAX: 254-751-5259

Alcoa Fastening Systems Commercial Products Kingston Operations

1 Corporate Drive Kingston, NY 12401 800-431-3091 845-331-7300 FAX: 845-334-7333 www.hucktools.com

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6150 Kennedy Road, Unit 10 Mississagua, Ontario L5T2J4 Canada 905-564-4825 FAX: 905-564-1963

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France Operations Clos D'Asseville BP4 95450 Us Par Vigny France 33-1-30-27-9500 FAX: 33-1-34-66-0600



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that the user secure specific, up-to-date data and information regarding each application and/or use of such products.





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