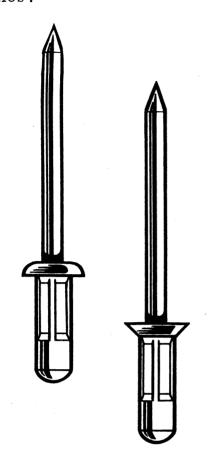
AVEX



WELLINGTON P.O. BOX 30-446 LOWER HUTT TELEPHONE 60-125 AUCKLAND P.O. BOX 8037 NEWTON TELEPHONE 362-480 This is a highly developed aluminium alloy blind rivet with the following characteristics:



- 1 GIVES HIGH CLENCH components automatically clamped together during riveting operation.
- 2 IS WEATHER-PROOF postive stem retention ensures complete weather-proofing.
- 3 REDUCES HOLE LINE-UP PROBLEMS it can be used for holes over the normal diameter.
- 4 CUTS LABOUR COSTS it is designed to provide high-class work irrespective of operator skill requires one operator only.
- 5 ONE LENGTH OF RIVET PER DIAMETER
 all regular thicknesses are met by
 one length of rivet per diameter.
 This reduces stockholdings and overcomes operator errors where more than
 one rivet per diameter is in use.
- 6 FOR UNIVERSAL APPLICATION metal to metal, metal to plastic, plastic to plastic in general, for any two or more components which must be joined securely.

PLACING TOOLS



TOOL No 734 SERIES

This robust yet lightweight hydropneumatic power tool will instal 1/8, 5/32 and 3/16 in. diameter Avex rivets. The light weight and mobility of this tool enables high placing speeds to be maintained with negligible operator fatigue. Also available with taper nose (7341) swivel head (7342) and right angle heads (7343).



TOOL No 737

A hand tool for the easy installation of 3/16 in. diameter Avex rivets. Ideal for site work such as roofing and building where a compressed air supply is not available.

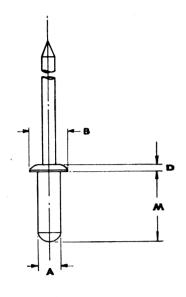


See how the one length Avex gives positive clench and grip over a wide range of thicknesses.

AVEX RIVETS



| PRODUCT CODE | MATERIAL | FINISH |
|--------------|--------------------------|-------------------|
| 1601 | Rivet 2% Mg. Alum. Alloy | Plain |
| 1601 | Stem Steel | Phosphate Treated |



2

| NOMINAL DIAMETER | <u>!</u> " | <u>5</u> " | 3/16 |
|---------------------|-----------------|--------------------------|-----------------|
| DIAMETER CODE | 04 | 05 | 06 |
| DIMENSION A | .125″/ .128″ | .15 6″ / .160″ | .186″/ .190″ |
| DIMENSION B | .215″ | •255″ | ·349″ |
| DIMENSION D | .044″ | ·05 7″ | .070″ |
| DRILL SIZE | 30 | 20 | 10 |

Call-up Explanation Avdel Part Numbers consist of eight figures

First four figures (Table One—Product Code) defines the fastener type, head form, material and surface treatment.

Next two figures (Table Two—Diameter Code) defines shank diameter in 32nd ins.

Last two figures (Table Three—Length Code) defines rivet length in 32nd ins.

Example: 1601-0512 Avex Rivet Snap Head Aluminium Alloy Plain 5. Diameter Grip Range 046"--250".

3

| NOM DIA | Lgth Code | M DIM | GRIP RANGE | NOM DIA | Lgth Code | M DIM | GRIP RANGE | NOM DIA | Lgth Code | M DIM | GRIP RANGE |
|------------|--------------|--------------|-----------------|------------|--------------|----------|-----------------|------------|--------------|----------|-----------------|
| | | | | | | | | | 13 | •530 | .062″/ .250″ |
| <u>!</u> " | 10 | . 400 | .031″/ .187″ | <u>5</u> " | 12 | .470 | .046"/ .250" | 3 " 16" | 19 | .720 | 187″/ •437″ |



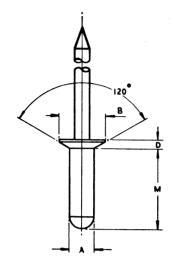








| PRODUCT CODE | | MATERIAL | FINISH |
|--------------|-------|--------------------|-------------------|
| 1.604 | Rivet | 2% Mg. Alum. Alloy | Plain |
| 1604 | Stem | Steel | Phosphate Treated |



2

| NOMINAL DIAMETER | <u>!</u> " | <u>5</u> " | 3 " 16" |
|---------------------|-----------------|--------------------------|-----------------|
| DIAMETER CODE | 04 | 05 | 06 |
| DIMENSION A | ·125″/ ·128″ | ·156"/ · 160 " | ·186″/ ·190″ |
| DIMENSION B | ·205 ″ | ·245 ″ | -339″ |
| DIMENSION D | ∙030″ | .032″ | ∙050″ |
| DRILL SIZE | 30 | 20 | 10 |

Avdel Part Numbers consist of eight figures Call-up Explanation

First four figures (Table One—Product Code)

defines the fastener type, head form, material and surface treatment.

Next two figures (Table Two—Diameter Code)
Last two figures (Table Three—Length Code)

Example: 1604-0615 Avex Rivet 120° Countersunk Aluminium Alloy Plain \(\frac{3}{16}\)" Dia. Grip Range \(\cdot 125'' - \cdot 312''\).

3

| NOM DIA | Lgth Code | M DIM | GRIP RANGE | NOM DIA | Lgth Code | M DIM | GRIP RANGE | NOM DIA | Lgth Code | M DIM | GRIP RANGE |
|------------|--------------|----------|-----------------|------------|--------------|----------|-----------------|------------|--------------|---------------|-----------------|
| | | | | | | | | | 15 | · 59 0 | ·125″/ ·312″ |
| <u>!</u> " | 12 | ·460″ | ·093″/ ·250″ | 5/ 32 | 14 | -530 | ·109″/ ·312″ | 3" 16" | 21 | -7 80 | ·250″/ ·500″ |

NOTES

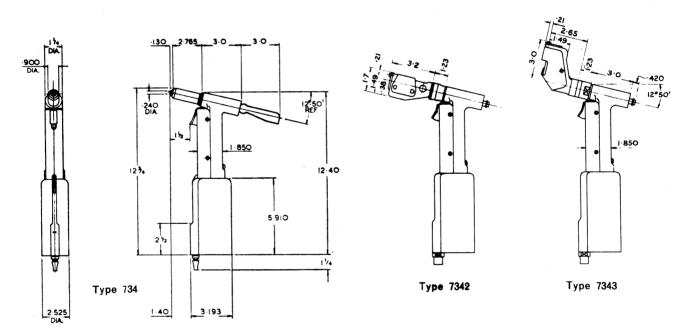
INSTALLATION EQUIPMENT

Pull Tool Type 734 Type 7342 Type 7343

THIS EQUIPMENT WILL INSTALL THESE PRODUCTS AVEX RIVETS NOM DIA RANGE &" - 32" - 13"

2

| POWER SOURCE | COMPRESSED AIR. | NORMAL WP 80 P. | S.I. MAX 100 P.S.I. | | |
|--------------------------|----------------------------------|------------------|---------------------|--|--|
| POWER CONSUMPTION | 056 CU FT FREE AIR PER ACTUATION | | | | |
| LUBRICATION | LIGHT OIL THROUG | H AIR INLET DAIL | Υ | | |
| WEIGHT | 3¼ lbs. | | | | |
| EFFECTIVE STROKE | 5" | | | | |
| CAPACITY LENGTH | Ñ.A. | | | | |
| CAPACITY NOM DIA | ₺" | 5 " 32 | 3″ | | |
| CAPACITY CODE | 04 | 05 | 06 | | |
| NOSE TIP CODE (734) | 7340-3700 | 7340-3800 | 7340-3900 | | |
| JAW SPREADER ASSY (734) | 7340-1300 | 7340-1400 | 7340-1501 | | |
| EXTENDED NOSE TIPS (734) | 7340-2801 | 7340-2802 | 7340-2803 | | |
| NOSE TIP 7342 | 7342-2500 | 7342-3500 | 7342-4500 | | |
| NOSE TIP 7343 | 7342-2500 | 7342-3500 | 7342-4500 | | |



NOTES:

- Service Tool Kit Pt. No. 7900-3400 is available.
 Nose Tip Spring Wedge is Pt. No. 7340-4200 and it is essential that this is assembled to the nose tips by using Assembly Tool 7900-0110.

AVDEL

HYDRO-PNEUMATIC PULL TOOL TYPE 734 SERIES

DESCRIPTION

The AVDEL Hydro-Pneumatic Pull Tool Type 734, is a robust, high-production tool developed for the easy and rapid installation of rivets. A compressed air supply of between 70 and 100 lbs/in² (4,92 and 7.04 kg/cm²) is required for placing rivets, the rate of air consumption being approximately .056 cu. ft. (1,59 litres) of free air at 80 lbs/in² (5,62 kg/cm²) per actuation.

OPERATION

To place rivets with Pull Tool Type 734, insert the rivet into the prepared hole in the work, apply the pull gun and depress the trigger until driving cycle is complete. Alternatively, the rivet mandrel may be inserted into the nose jaws of the pull gun and the rivet then offered up to the work.

LUBRICATION

Daily, before using, or when first putting the pull gun into service, pour a small quantity of clean, light lubricating oil into the air inlet. If the gun is in continuous use, the air hose should be disconnected and the tool lubricated with a few drops of oil every two or three hours.

PREPARING FOR OPERATION

Daily, before putting tool into service ,comply with instructions under 'Lubrication'. Always blow air line to clear it of all accumulated dirt or water before connecting air hose to tool. Check to see if pull gun is equipped with correct size jaw spreader assembly and nose tip to fit the rivet being placed.

WARNING

Before changing nose assemblies or dismantling pull tool air line must be removed.

NOSE ASSEMBLY

Before placing rivets check that the correct nose assembly and jaw spreader and spring assembly is fitted for the size of rivet. Select the correct jaw spreader and spring assembly from Table 1 below. To change jaw spreader and spring assembly the nose casing (63) must be unscrewed from the handle assembly (1) then remove jaw housing (65) by means of flats provided. Hold jaw housing with threaded portion uppermost and drop jaws followed by jaw spreader and spring assembly into position. Hold pull gun in right hand with nose downwards and holding assembly in left hand

screw home securely by means of flats.

Note The jaw housing must be assembled complete with the jaws (64) and jaw spreader assembly (60), care being taken not to damage the guide tube on the jaw spreader assembly (1/18 and 5/32 equipment only). Remove nose tip (59) and replace with an appropriate size. Tighten with spanner on flats provided.

Note when replacing nose tip retainer part No 7340-4200 it is essential that assembly tool 7900-0110 is used.

NOSE EQUIPMENT TYPE 734 (STANDARD TOOL)

| RIVET TYPE | 59 NOSE TIP | 60 JAW SPREADER | 61 SPRING | 62 BUFFER | 63 NOSE CASING | 64 JAWS | 65 JAW HOUSING | 66 LOCKING RING |
|--|----------------|--------------------|--------------|--------------|-------------------|------------|-------------------|--------------------|
| 1/8 AVEX Standard Nose | 7340–3700 | 7340–1300 | 7340–1303 | 7340–1303 | 7340–0306 | 7340–0213 | 7340–0304 | 7340–0327 |
| 5 32 AVEX Standard Nose | 7340–3800 | 7340–1400 | 7340–1303 | 7340–1304 | 7340–0306 | 7340-0213 | 7340–0304 | 7340–0327 |
| 3 16 AVEX Standard Nose | 7340–3900 | 7340–1501 | 7340-1502 | 7340–1503 | 7340–0306 | 7340–0213 | 7340–0304 | 7340–0327 |
| 1 8 Self Plug. Stainless Steel and Titanium | 7340–2302 | 7340–1400 | 7340–1303 | 73401304 | 7340–0306 | 7340–0213 | 7340–0304 | 7340–0327 |
| 5 32 Self Plug. Stainless Steel and Titanium | 7340-2402 | 7340–1501 | 7340–1502 | 7340–1503 | 7340–0306 | 7340-0213 | 7340–0304 | 7340–0327 |
| 1 8 AVEX Extended Nose | - | 7340–1300 | 7340–1303 | 7340–1304 | 7340–2801 | 7340–0213 | 7340–0304 | 7340–0327 |
| 5 32 AVEX Extended Nose | _ | 7340–1400 | 7340–1303 | 7340–1304 | 7340–2802 | 7340-0213 | 7340–0304 | 7340–0327 |
| 3-16 AVEX Extended Nose | - | 7340–1501 | 7340–1502 | 7340–1503 | 7340–2803 | 73400213 | 7340–0304 | 7340–0327 |
| 1 8 AVEX Head Forming Tip | 7340-4300 | 7340-1300 | 7340–1303 | 7340–1303 | 7340–0306 | 7340–0213 | 7340–0304 | 7340–0327 |
| 5:32 AVEX Head Forming Tip | 7340–4400 | 7340–1400 | 7340–1303 | 7340-1304 | 7340–0306 | 7340-0213 | 7340–0304 | 7340–0327 |
| 3:16 AVEX Head Forming Tip | 7340-4500 | 7340–1501 | 7340–1502 | 7340–1503 | 7340-0306 | 7340–0213 | 7340-0304 | 7340–0327 |

NOSE EQUIPMENT TYPE 7341 (TAPER NOSE TOOL)

| 1 8 AVEX Taper Nose | 7340-4000 | 7340–2700 | 7340–2505 | 7340–0331 | 7340–2504 | 7340–2501 | 7340–2502 | 7340–2503 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5 32 AVEX Taper Nose | 7340–4100 | 7340–3600 | 7340–2505 | 7340–0331 | 7340–2504 | 7340–2501 | 7340–2502 | 7340–2503 |
| 1 8 St.St. & Tit. Taper Nose | 7340–2901 | 7340–3000 | 7340–2505 | 7340–0331 | 7340–2504 | 7340–2501 | 7340–2502 | 7340–2503 |
| 5 32 St.St. & Tit. Taper Nose | 7340–3202 | 7340–3201 | 7340–2505 | 7340-0331 | 7340–2504 | 7340–2501 | 7340-2502 | 7340–2503 |

NOTE: The Wedge Device included in Nose Tip Assemblies is Part No. 7340-4200 (This supersedes Spring 7340-1702 used on the obsolete Nose Tips)

NOTE:- WHEN ORDERING TYPE 734 OR 7341 TOOLS PLEASE INDICATE EQUIPMENT REQUIRED

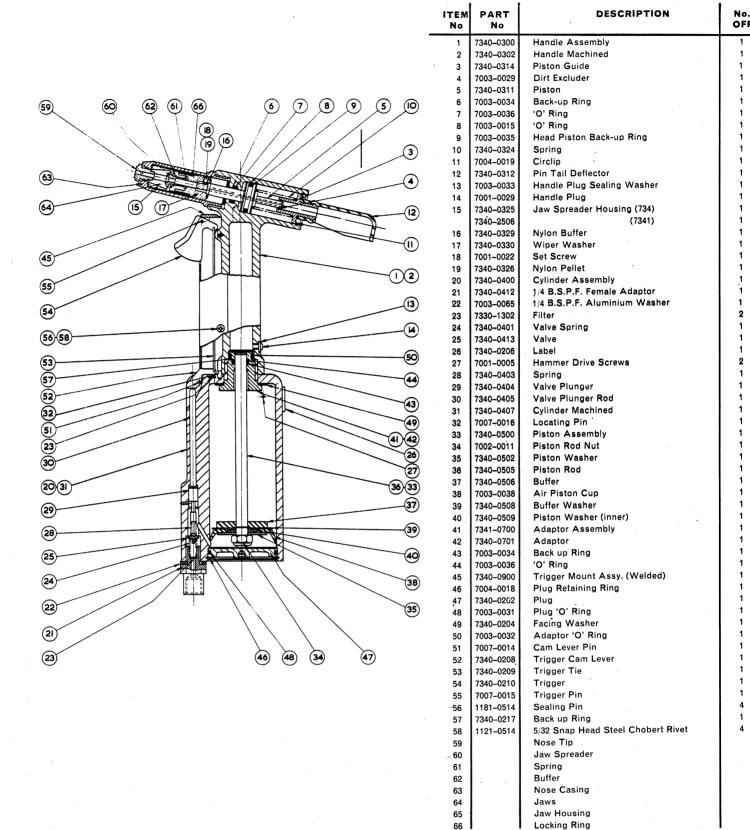
E.G. 734 TOOL COMPLETE WITH $\frac{3}{16}$ AVEX EQUIPMENT

OR 7341 TOOL COMPLETE WITH & AVEX EQUIPMENT



HYDRO-PNEUMATIC PULL TOOL TYPE 734 SERIES

LIST OF PARTS



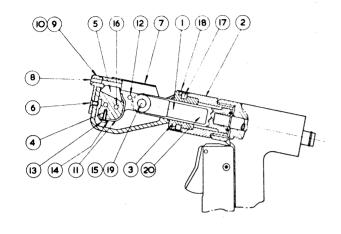
TO PRIME

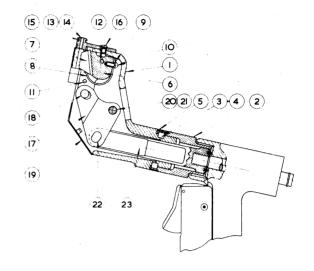
- 1. Thoroughly clean the exterior of the pull tool.
- 2. With the gun held in soft vice jaws, as shown in figure 1, loosen but do not remove plug (14). Remove plug retaining ring (40) and cylinder plug (47), then withdraw the air piston assembly (33). Tighten plug (14).
- 3. Prime by pouring oil in through the adaptor (41) at the bottom of the air
- cylinder to the level shown, using the bottle provided. Replace air piston assembly, ensuring that the buffer (37) is not left out, then replace plug (47) and plug retaining ring (46).
- 4. Loosen plug (14) allowing excess oil to be pushed out by hydraulic piston spring (10), then tighten plug (14) and the gun is ready to use.

AVDEL

HYDRO-PNEUMATIC PULL TOOL TYPE 7342

HYDRO-PNEUMATIC PULL TOOL TYPE 7343





LIST OF PARTS

| PRODUCT CODE | DESCRIPTION |
|--------------|--|
| 7342-0004 | Swivel Head Tool Complete for 1/8" Avex |
| 7342-0005 | Swivel Head Tool Complete for 5/32" Avex |
| 7342-0006 | Swivel Head Tool Complete for 3 16" Avex |
| 7342-2200 | Swivel Head only for 1 8" |
| 7342-3200 | Swivel Head only for 5:32" |
| 7342-4200 | Swivel Head only for 3:16" |

| ITEM No | PART No | DESCRIPTION | QUAN- TITY |
|------------|------------|-----------------------------|---------------|
| 1 | 7342-2300 | Body | 1 |
| 2 | 7342-2201 | Adaptor + | 1 |
| 3 | 7342-2202 | Clip | 1 |
| 4 | 7342-2204 | Housing | 1 |
| 5 | 7342-2206 | Jaw | 1 |
| 6 | 7342-2207 | Screw | 1 |
| 7 | 7342-2208 | Plate | 1 |
| - 8 | 7342-2500 | Nose Tip assy. 1/8" Rivets | 1 |
| | 7342-3500 | Nose Tip assy. 5/32" Rivets | 1 |
| | 7342-4500 | Nose Tip assy. 3/16" Rivets | 1 |
| 9 | 7342-2501 | Nose Tip 1/8" Rivets | - 1 |
| | 7342-3501 | Nose Tip 5/32" Rivets | 1 |
| | 7342-4501 | Nose Tip 3/16" Rivets | 1 |
| 10 | 7340-4200 | Mandrel Retainer | 1 |
| 11 | 7350-0210 | Spring | 1 |
| 12 | 7350-0213 | Pin | 1 |
| 13 | 7001-0072 | Screw | 1 |
| 14 | 7002-0016 | Washer | 1 |
| 15 | 7007-0027 | Dust Cap | 1 |
| 16 | 7007-0038 | Pin | 2 |
| 17 | 7007-0039 | Roller | 2 |
| 18 | 7007-0040 | Screw | 2 |
| 19 | 7350-0205 | Pin | 1 |
| 20 | 7342-2400 | Spindle | 1 |

Note Tool Type 734 can be converted to the swivel head 7342 series by fitting of the complete head

series by fitting of the complete head Part No. 7342-2200 for $\frac{1}{8}$ " Rivets 7342-3200 for 5/32" Rivets 7342-4200 for 3/16" Rivets It should be noted that spindle 7342-2400 would require fitting to head piston and that pin 7350-0205 is necessary to complete the assembly. (Both these items are required as well as the basic head).

basic head).
For all other details refer to 734 tool.

LIST OF PARTS

| PRODUCT CODE | DESCRIPTION |
|--------------|---|
| 7343-0004 | Right Angle Tool Complete for 1/8" Avex Rivets |
| 7343-0005 | Right Angle Tool Complete for 5/32" Avex Rivets |
| 7343-0006 | Right Angle Tool Complete for 3/16" Avex Rivets |
| 7343-2200 | Right Angle Head only for 1/8" Avex |
| 7343-3200 | Right Angle Head only for 5/32" Avex |
| 7343-4200 | Right Angle Head only for 3/16" Avex |

| ITEM No | PART No | DESCRIPTION | QUAN- TITY |
|------------|------------|-------------------------|---------------|
| 1 | 7343-2202 | Body | , 1 |
| 2 | 7342-2201 | Adaptor | 1 |
| 3 | 7007-0040 | Screw | 1 |
| 4 | 7007-0039 | Roller | 1 |
| 5 | 7342-2202 | Clip | 1 1 |
| 6 | 7342-2204 | Housing | 1 |
| 7 | 7342-2206 | Jaw | 1 |
| 8 | 7350-0210 | Spring | 1 1 |
| 9 | 7002-0016 | Washer | 1 |
| 10 | 7001-0072 | Screw | 1 |
| 11 | 7350-0213 | Pin | 1 1 |
| 12 | 7007-0038 | Pin | 1 |
| 13 | 7342-2500 | 1/8" Nose Tip Assembly | 1 |
| | 7342-3500 | 5/32" Nose Tip Assembly | 1 1 |
| | 7342-4500 | 3/16" Nose Tip Assembly | 1 1 |
| 14 | 7342-2501 | 1/8" Nose Tip | 1 |
| | 7342-3501 | 5/32" Nose Tip | 1 |
| | 7342-4501 | 3/16" Nose Tip | 1 1 |
| 15 | 7340-4200 | Mandrel Retainer | 1 1 |
| 16 | 7342-2207 | Screw | 1 1 |
| 17 | 7343-2203 | Lever | 1 |
| 18 | 7343-2207 | Pin | 1 |
| 19 | 7343-2204 | Guard | 1 |
| 20 | 7343-2205 | Nut | 1 |
| 21 | 7343-2206 | Screw | 1 1 |
| 22 | 7342-2400 | Spindle | 1 1 |
| 23 | 73500205 | Pivot Pin | 1 |

Note Tool Type 734 can be converted to the Right Angle Head 7343 Series by fitting the complete head: 7343-2220 for 1/8- Rivets 7343-3200 for 5/32- Rivets 7343-4200 for 3/16- Rivets

It should be noted that Spindle 7342-0205 would require fitting to the Head Piston and that pin 7350-0205 is necessary to complete the Assembly. (Both these items required as well as the

basic head.)
FOR ALL OTHER DETAIL REFER TO 734 TOOL.