

ONPAAS *AUTOMOTIVE LINES* *PARTS & ASSEMBLIES*



CATALOG

Air-Conditioning repair-kits & accessories
Automotive tubing & hardware

avBechtle GmbH

avPAAS Automotive Lines

Catalog 2024

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AIR-CONDITIONING

AC-Line Repair Systems

Overview of the system	5
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Hose & Tubes

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AC-Line Repair

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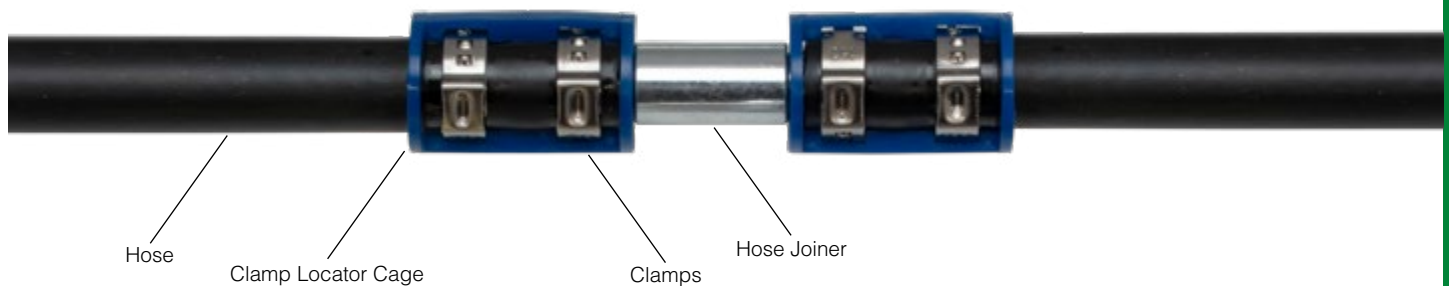
AC-LINE REPAIR SYSTEMS

Our avPAAS AC-line repair systems make it easy to fix line leaks fast and professional.

It repairs leaks, saves time and money, is heat and strain resistant, requires only commercially available tools and fits SAE and metric lines. It can be used to repair leaks in aluminum, copper, brass, steel and many plastic lines.

Hose to hose repair system

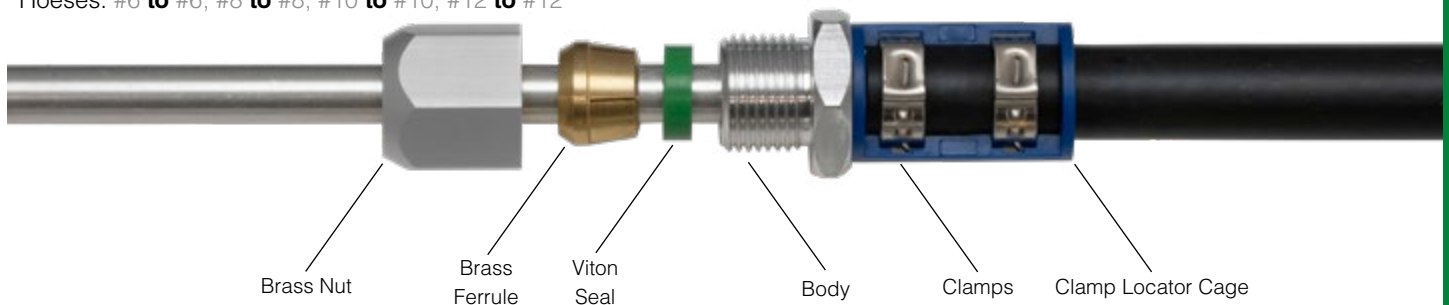
Hoses: #6 to #6, #8 to #8, #10 to #10, #12 to #12



Tube to hose repair system

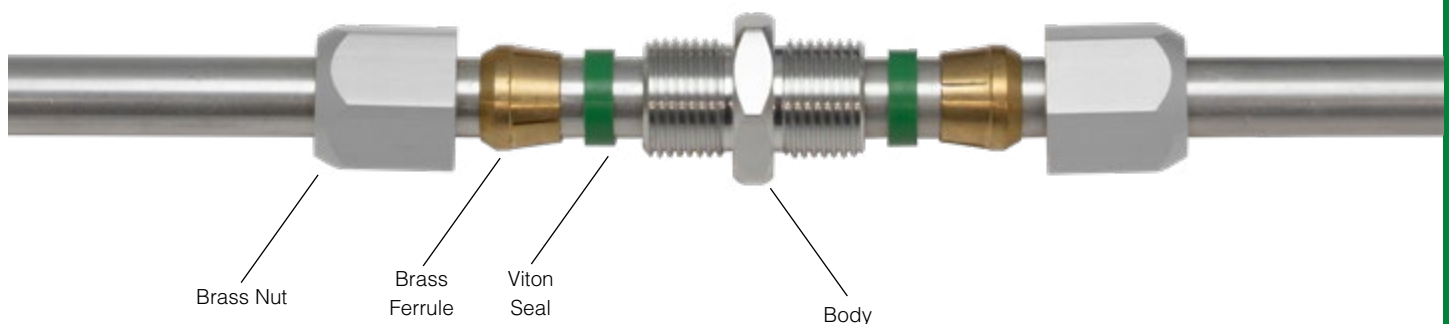
Tubes: 5/16", 3/8", 1/2", 5/8", 3/4"

Hoses: #6 to #6, #8 to #8, #10 to #10, #12 to #12



Tube to tube repair system

Tubes: 5/16", 3/8", 1/2", 5/8", 3/4"



HOSE & TUBES



AIR-CONDITIONING HOSES

AC Hose Reduced Barrier

SAE J2064

AC Hose	Inner Diameter		Part Number
#6	8 mm	5/16"	G10-100
#8	10 mm	13/32"	G10-101
#10	13 mm	1/2"	G10-102
#12	16 mm	5/8"	G10-103

AIR-CONDITIONING TUBES

AC Aluminium Repair Tubing

Inner Diameter	Length	Material	Part Number
5/16"	300 mm	Aluminium	G11-101
3/8"	300 mm	Aluminium	G11-102
1/2"	300 mm	Aluminium	G11-103
5/8"	300 mm	Aluminium	G11-104
3/4"	300 mm	Aluminium	G11-105



TOOLS

Rubber Brake Hose Cutter

A12-112 BQ2103



The blade has two cutting points for double life.



Replacement blade
A13-136 (BQ2101B)

Professional Tube Cutter

A12-116 BQ602



Replacement blade
A13-114 (BQ602C)

Hose Clamp Pliers

G15-101



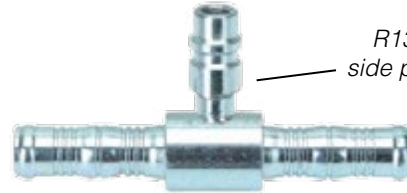
AC-LINE REPAIR

HOSE JOINERS



Hose Size	Part Number
for #6 to #6 AC Hose	G13-127
for #8 to #8 AC Hose	G13-128
for #10 to #10 AC Hose	G13-129
for #12 to #12 AC Hose	G13-130

HOSE JOINERS WITH VALVE



Hose Size	Side Port	Part Number
for #6 to #6 AC Hose	16 mm	G13-131
for #8 to #8 AC Hose	16 mm	G13-132
for #10 to #10 AC Hose	13 mm	G13-133
for #12 to #12 AC Hose	13 mm	G13-134

HOSE TO PORT CONNECTORS

180° Female Imperial, ext. O-ring



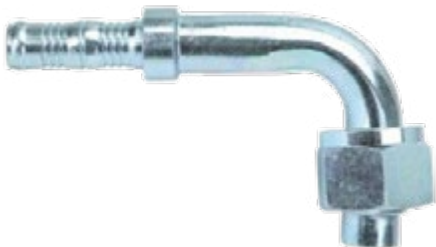
Hose Size	Port	Part Number
for #6	5/8-18 UN	G13-135
for #8	3/4-16 UN	G13-136
for #10	7/8-14 UN	G13-137
for #12	1/16-14 UN	G13-138

45° Female Imperial, ext. O-ring



Hose Size	Port	Part Number
for #6	5/8-18 UN	G13-139
for #8	3/4-16 UN	G13-140
for #10	7/8-14 UN	G13-141
for #12	1/16-14 UN	G13-142

90° Female Imperial, ext. O-ring



Hose Size	Port	Part Number
for #6	5/8-18 UN	G13-143
for #8	3/4-16 UN	G13-144
for #10	7/8-14 UN	G13-145
for #12	1/16-14 UN	G13-146

CLAMP LOCATOR CAGES



Clamps

Hose Size	Part Number	Part Number
for #6 AC Hose	G13-117	G13-121
for #8 AC Hose	G13-118	G13-122
for #10 AC Hose	G13-119	G13-123
for #12 AC Hose	G13-120	G13-124

AC-LINE REPAIR *CONTINUED*

REPAIR UNION BODYS

Tube to hose



Tube Size	Hose Size	Part Number
5/16", 3/8", 1/2" Tube	for #6 AC Hose	G13-103
5/16", 3/8", 1/2" Tube	for #8 AC Hose	G13-104
5/16", 3/8", 1/2" Tube	for #10 AC Hose	G13-105
5/8" and 3/4" Tube	for #12 AC Hose	G13-106

Tube to tube



Tube Size	Part Number
5/16", 3/8", 1/2" Tube	G13-101
5/8" and 3/4" Tube	G13-102

VITON SEALS



Tube Size	Part Number
5/16"	G13-107
3/8"	G13-108
1/2"	G13-109
5/8"	G13-110
3/4"	G13-111

BRASS FERRULES



Tube Size	Part Number
5/16"	G13-112
3/8"	G13-113
1/2"	G13-114
5/8"	G13-115
3/4"	G13-116

AIR-CONDITIONING TUBE FLARE ENDS

Tube Size	Nut	o-ring	Part Number
3/4"	male	internal	G12-101
1/2"	male	external	G12-102
5/8"	male	external	G12-103
3/4"	male	external	G12-104
3/8"	male	internal	G12-105
1/2"	male	internal	G12-106
5/8"	male	internal	G12-107
3/4"	male	internal	G12-108
3/8"	female	internal	G12-109
1/2"	female	external	G12-110
5/8"	female	external	G12-111
3/4"	female	external	G12-112



TUBING & HARDWARE

Copper-Nickel

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Stainless Steel

316L Stainless Steel	10
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PVF Tube

PVF Tube	11
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COPPER-NICKEL

For the ultimate combination of corrosion resistance and ease of use, choose copper-nickel tubing. EziBend meets SAE J1650, copper-nickel material standards, and is specially alloyed for automotive use.

TOUGH ON CORROSION

Unlike other similarly-priced tubing that attempts to protect rust-prone steel with plating or coating, EziBend tubing is rust and corrosion proof. It will remain protected after tube formation.

EASY ON TOOLS

EziBend's composition is inherently ductile, making it strong yet easy to work with. The same properties that make EziBend simple to shape allow it to achieve a superior sealing surface against fittings.

EZIBEND

Outer Diameter	Coil Length	Part Number
3/16"	25ft	E00-100 <i>T187-25SE</i>
3/16"	100ft	E00-101 <i>T187-100SE</i>
1/4"	25ft	E00-102 <i>T250-25SE</i>
1/4"	100ft	E00-103 <i>T250-100SE</i>
5/16"	25ft	E00-104 <i>T312-25SE</i>
3/8"	25ft	E00-111 <i>T375-25SE</i>



STAINLESS STEEL

Renowned for its ease of use and stunning appearance, 316L stainless is the top choice of premiere automotive builders.

MARINE-GRADE 316L

Marine-grade stainless steel tubing has a high-level of corrosion protection. 316L contains molybdenum, a corrosion resistor that is not found in 304 stainless.

IDEAL FOR BUILDERS

Our .028" wall thickness and annealing process make it the builder's choice for stainless installations. Straightening, cutting, bending, and flaring is easier than with non-annealed stainless.

316L STAINLESS STEEL

Outer Diameter	Coil Length	Part Number
3/16"	25ft	E00-106 <i>T187-25SS</i>
3/16"	100ft	E00-107 <i>T187-100SS</i>
1/4"	25ft	E00-108 <i>T250-25SS</i>
1/4"	100ft	E00-109 <i>T250-100SS</i>
5/16"	25ft	E00-110 <i>T312-25SS</i>
3/8"	25 ft	E00-111 <i>T375-25SS</i>



316L Stainless Steel, 5/16"
E00-110 *T312-25SS*

PVF TUBE

PVF TUBE

PVF-Coated Steel Brake Lines

Outer Diameter	Coil Length	Part Number
3/16"	20 meter	E20-187



3/16" PVF-Coated Steel Brake Lines
E20-187

HOSE & PROTECTORS

HOSE

Remote Reservoir Hose

Available in 10 ft sections.

Inner Diameter	Outer Diameter	Part Number
1/4"	7/16"	A00-108 <i>BQ320</i>
5/16"	1/2"	A00-109 <i>BQ321</i>
3/8"	9/16"	A00-110 <i>BQ322</i>

1/4" Remote Reservoir Hose
A00-108 *BQ320*

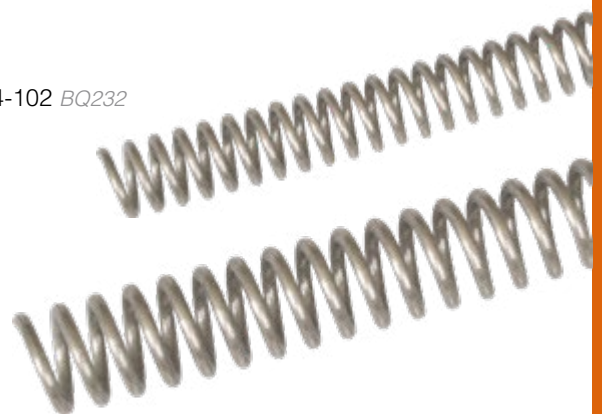


TUBE PROTECTORS

Spring Guard

Inner Diameter	Length	Material	Part Number
3/16"	3ft	Stainless steel	A14-101 <i>BQ231</i>
1/4"	3ft	Stainless steel	A14-102 <i>BQ232</i>

Spring Guards
A14-101 *BQ231*, A14-102 *BQ232*



TUBING TOOLS

STRAIGHTENERS

Professional Tube Straightener

A12-109 BQ1028

Complete a professional tube installation by forming coiled tube into straight sections of any length. Adjust the wheels to the tube size and pull the tube through the tool to straighten.

- For 3/16" – 1/2" light-walled, annealed tube
- Non-marking delrin wheels
- 5-point precision and fine-threaded adjustment
- Vice mount or bolt straight to the workbench



Replacement wheel
A13-121 BQ1028-75



Brake Tube Straightener

A12-110 BQ1030

Designed for the automotive DIY-er. Straightens coils with common brake line sizes.

- Straighten 3/16" – 1/4" annealed tubing
- U-shaped rollers straighten both tubing sizes
- Hard polymer rollers leave a smooth finish on tubing
- Smooth ball bearing action
- Bench-mount ready
- Optional vise-mount base A13-123 (BQ1030-MB)



Vise-mount base
A13-123 BQ1030-MB

Tube-Straightening Pliers

A12-120 BQ405

Remove imperfections or fix mistakes with these pliers.

- Straightens incorrect bends in 3/16" and 1/4" tube
- Makes tight-radius bends, up to 90°, for both 3/16" and 1/4" tube
- The flat side of the mandrel provides a guide surface for cutting



CUTTERS

These tube cutters have a heavy-duty wheel to cut 3/16" to 5/8" stainless steel or other light-walled tubing.

Professional Tube Cutter

A12-116 BQ602



Replacement blade
A13-114 BQ602C

Mini Tube Cutter

A12-115 BQ601



TUBING TOOLS *CONTINUED*

BENDERS

Brake Tube Pliers

A12-108 BQ402

For use on 3/16" and 1/4" brake tube, these pliers are perfect for working in constrained areas under a vehicle.

- Align the tube and nut with the port during installation
- Put a tight 90° bend behind a tube nut (such as a master cylinder drop)



One side of the tool end is flat to facilitate cutting.

Professional Tube Bender

A12-124 BQ406

For use on 3/16" and 1/4" brake tube, this bender is easy to use and yields professional results. Bend on the vehicle or mount the tool in a vise for precision mass production.

- Bends in a tight radius, up to 180°
- Low-friction rollers make for easy precision work
- Smooth roller channels provide a clean, scratch-free finish
- Handles separate for quick and easy tube removal



Professional Tube Bender

A12-119 BQ409

For use on 1/4" 5/16" and 5/16" brake tube, this bender is easy to use and yields professional results. Bend on the vehicle or mount the tool in a vise for precision mass production.

- Bends in a tight radius, up to 180°
- Low-friction rollers make for easy precision work
- Smooth sliding channels provide a clean, scratch-free finish



TUBING TOOLS CONTINUED

LINE STOPPERS

Line Stopper Kits prevent leaks and contamination during service.

4-Piece Stopper Kit

A12-121 BQ407

The 5/16" stopper in the 4-Piece Stopper Kit is suitable for 3/16" and 1/4" lines.



8-Piece Stopper Kit

A12-122 BQ408

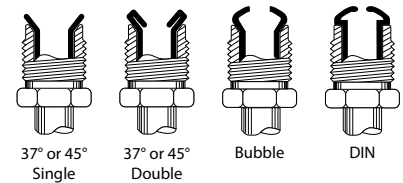
BQ408 comes in slide-lock clamshell case.



Stopper Size	4-Piece Qty	8-Piece Qty
3/16"-1/4"	-	2
5/16"	1	2
3/8"	1	1
1/2"	1	1
Banjo	1	2

FLARING TOOLS

These flaring tools are designed to be used in a bench vise or with our table flange mount (A13-111 BQ350-1).



- Smooth channel dies minimize tube scarring and deformation for a show-quality finish.
- The cam-and-lever design, combined with ball detent turrets, provide fast and easy single, double, bubble, and DIN flares.
- Replacement components are available.

Standard Series



45° flares 3/16", 1/4", 5/16", 3/8", 1/2"
4.75 mm, 6 mm, 8 mm, 10 mm

37° flares 3/16", 1/4", 5/16", 3/8", 1/2"

DIN flares 3/16", 1/4"

Part Number **A12-104** BQ350

"A" Series



3/16", 1/4", 5/16", 3/8"
4.75 mm, 6 mm, 8 mm, 10 mm

3/16", 1/4", 5/16", 3/8", 1/2"

3/16", 1/4"

Part Number **A12-105** BQ350A

"A" Series Features:

- Die-cast steel body
- Extra-long handle
- Tube-setting tab
- Die-clamp bolt
- Mounting flange

TUBING TOOLS CONTINUED

TOOL KITS

Thread Identification Kit

A12-111 BQ2100

The Thread Identification Kit has gauges for the vast majority of brake plumbing threads, both male and female. Gauges are color-coded for fast selection. The threads are hardened for long life, and each gauge is available separately as a replacement part. The gauges can also be used to block-off fluid ports during service.

Imperial Sizes

3/8-20 BSF
3/8-24 UNF
7/16-20 UNF
7/16-24 UNS
1/2-20 UNF
9/16-18 UNF
9/16-20 UNS

Metric Sizes

M9 × 1
M10 × 1
M10 × 1.25
M10 × 1.5
M11 × 1.25
M12 × 1
M12 × 1.25
M12 × 1.5
M14 × 1.5



Bleeder Buster Kit

A36-100 BQ2200

Use this kit to remove and replace frozen bleeder screws. All kit components are available individually as replacement parts.



Kit includes:

Part Number	Qty
A36-101 BQ2200-1	1
A36-106 BQ2200W	1
A36-122 BQ315	10
A36-123 BQ316	10
A36-107 BQ4433	4
A36-108 BQ4434	4
A36-109 BQ4435	4
A36-111 BQ4438	4
A36-112 BQ4439	4
A36-113 BQ4440	4
A36-114 BQ4441	4
A36-115 BQ4442	4
A36-116 BQ4443	4
A36-117 BQ4444	4
A36-118 BQ4445	4
A36-119 BQ4446	4



Bleed Screw Removal Tool

A36-101 BQ2200-1



Filler Wire Replenishment Kit

A36-106 BQ2200W

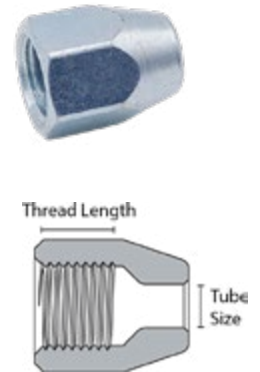
/// Full list of bleed screws and caps are on page 31.

HARDWARE

TUBE NUTS

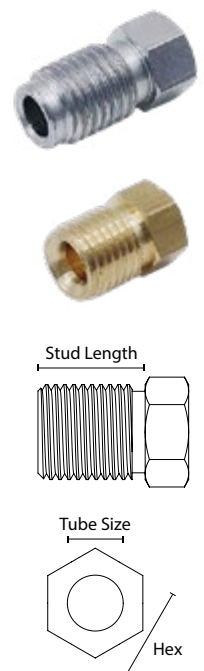
Female Imperial

Thread	Tube Size	Thread Length	Seat	Hex	Part Number
3/8-24 UNF	3/16"	7.5 mm	37°	7/16"	A17-100 <i>BQ55</i>
3/8-24 UNF	3/16"	5.6 mm	45°	7/16"	A17-107 <i>BQ9176</i>
7/16-20 UNF	1/4"	5.8 mm	37°	9/16"	A17-101 <i>BQ57</i>
1/2-20 UNF	5/16"	10 mm	45°	5/8"	A17-108 <i>BQ9177</i>
9/16-18 UNF	3/8"	7.5 mm	37°	11/16"	A17-111 <i>BQ9201</i>
9/16-18 UNF	3/8"	8.6 mm	45°	11/16"	A17-118 <i>BQ9239</i>
9/16-18 UNF	3/8"	6.1 mm	o-ring pilot	5/8"	A17-112 <i>BQ9207</i>
5/8-18 UNF	3/8"	8.6 mm	45°	13/16"	A17-116 <i>BQ9219</i>



Male Imperial

Thread	Tube Size	Stud Length	Flare	Hex	Part Number
3/8-20 BSF	3/16"	14 mm	45°	3/8"	A18-104 <i>BQ4276</i>
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	A18-115 <i>BQ5555</i>
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	A18-116 <i>BQ5555B brass</i>
3/8-24 UNF	3/16"	9.1 mm	45°	3/8"	A18-117 <i>BQ5555SS stainless</i>
3/8-24 UNF	3/16"	17 mm	45°	3/8"	A18-106 <i>BQ4285</i>
7/16-20 UNF	3/16"	17.5 mm	45°	11 mm	A18-120 <i>BQ6118</i>
7/16-20 UNF	1/4"	18 mm	45°	7/16"	A18-105 <i>BQ4277</i>
7/16-24 UNS	3/16"	9.1 mm	45°	11 mm	A18-118 <i>BQ5842</i>
7/16-24 UNS	3/16"	9.1 mm	45°	11 mm	A18-119 <i>BQ5842SS stainless</i>
7/16-24 UNS	1/4"	12.5 mm	45°	7/16"	A18-101 <i>BQ2577</i>
7/16-24 UNS	1/4"	12.5 mm	45°	7/16"	A18-102 <i>BQ2577SS stainless</i>
1/2-20 UNF	3/16"	10.2 mm	45°	1/2"	A18-130 <i>BQ9184</i>
1/2-20 UNF	1/4"	14 mm	45°	1/2"	A18-133 <i>BQ9187</i>
1/2-20 UNF	5/16"	10.2 mm	45°	1/2"	A18-103 <i>BQ2578</i>
9/16-18 UNF	3/16"	14 mm	45°	9/16"	A18-131 <i>BQ9185</i>
9/16-18 UNF	1/4"	14 mm	45°	9/16"	A18-132 <i>BQ9186</i>
5/8-18 UNF	3/8"	10.2 mm	45°	5/8"	A18-127 <i>BQ9181</i>

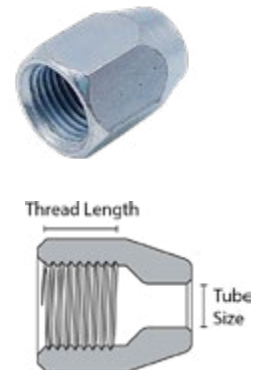


/// Copper Seat Seal (Flare Gasket) is on page 26.
 /// Imperial Tube Nuts Assortment Kit, A38-106 (*BQ7006*), is on page 30.

HARDWARE *CONTINUED*

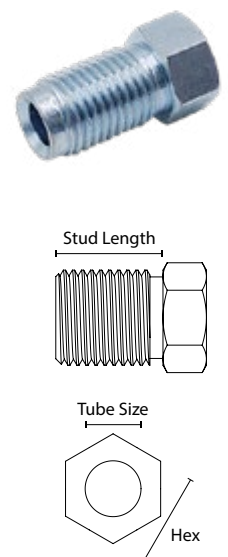
Female Metric

Thread	Tube Size	Thread Length	Seat	Hex	Part Number
M10×1	3/16"	9mm	45°	13mm	A17-106 <i>BQ9175</i>
M12×1	3/16"	9mm	45°	16mm	A17-105 <i>BQ9174</i>
M12×1	1/4"	9mm	45°	16mm	A17-110 <i>BQ9179</i>
M12×1.25	1/4"	8mm	45°	16mm	A17-104 <i>BQ9156</i>
M12×1.5	1/4"	9mm	45°	16mm	A17-109 <i>BQ9178</i>
M14×1.5	10mm	10.9mm	37°	17mm	A17-113 <i>BQ9208</i>
M16×1.5	10mm	10.9mm	37°	19mm	A17-114 <i>BQ9209</i>
M16×1.5	3/8"	11mm	45°	19mm	A17-117 <i>BQ9226</i>
M18×1.5	12mm	14.4mm	37°	21mm	A17-115 <i>BQ9210</i>



Male Metric

Thread	Tube Size	Stud Length	Flare	Hex	Part Number
M9 × 1	3/16"	14 mm	45°	10 mm	A18-107 <i>BQ4510</i>
M10 × 1	3/16"	11.6 mm	45°	11 mm	A18-108 <i>BQ4511</i>
M10 × 1	3/16"	11.6 mm	45°	11 mm	A18-110 <i>BQ4511SS</i> <i>stainless</i>
M10 × 1	3/16"	14 mm	45°	11 mm	A18-109 <i>BQ4511LT</i> <i>long thread</i>
M10 × 1	3/16"	12.6 mm	DIN	11 mm	A18-100 <i>BQ72</i>
M10 × 1.25	3/16"	11.6 mm	45°	11 mm	A18-111 <i>BQ4512</i>
M10 × 1.5	3/16"	11.6 mm	45°	11 mm	A18-134 <i>BQ9188</i>
M11 × 1	3/16"	15 mm	45°	11 mm	A18-135 <i>BQ9189</i>
M11 × 1.25	3/16"	15 mm	45°	11 mm	A18-136 <i>BQ9190</i>
M11 × 1.5	3/16"	13.1 mm	45°	13 mm	A18-137 <i>BQ9191</i>
M12 × 1	3/16"	11.6 mm	45°	13 mm	A18-126 <i>BQ9180</i>
M12 × 1	1/4"	11.6 mm	45°	13 mm	A18-112 <i>BQ4513</i>
M12 × 1	1/4"	11.6 mm	45°	12 mm	A18-114 <i>BQ4513SS</i> <i>stainless</i>
M12 × 1	1/4"	14.6 mm	45°	13 mm	A18-113 <i>BQ4513LT</i> <i>long thread</i>
M12 × 1	1/4"	14.9 mm	DIN	13 mm	A18-125 <i>BQ9169</i>
M12 × 1.25	3/16"	11.6 mm	45°	13 mm	A18-138 <i>BQ9192</i>
M12 × 1.25	1/4"	11.6 mm	45°	13 mm	A18-123 <i>BQ9157</i>
M12 × 1.5	3/16"	11.6 mm	45°	13 mm	A18-139 <i>BQ9193</i>
M12 × 1.5	1/4"	11.6 mm	45°	13 mm	A18-128 <i>BQ9182</i>
M13 × 1	3/16"	15 mm	45°	13 mm	A18-140 <i>BQ9194</i>
M13 × 1.25	3/16"	15 mm	45°	13 mm	A18-141 <i>BQ9195</i>
M13 × 1.5	3/16"	15 mm	45°	13 mm	A18-142 <i>BQ9196</i>
M14 × 1.5	1/4"	11.6 mm	45°	15 mm	A18-129 <i>BQ9183</i>
M14 × 1.5	5/16"	11.6 mm	45°	15 mm	A18-143 <i>BQ9197</i>
M14 × 1.5	5/16"	15 mm	DIN	16 mm	A18-122 <i>BQ9149</i>
M16 × 1.5	5/16"	11.6 mm	45°	17 mm	A18-144 <i>BQ9198</i>
M16 × 1.5	3/8"	16 mm	45°	17 mm	A18-124 <i>BQ9166</i>
M16 × 1.5	10 mm	13.2 mm	DIN	16 mm	A18-121 <i>BQ9148</i>
M18 × 1.5	5/16"	16 mm	45°	18 mm	A18-145 <i>BQ9199</i>



// Metric Tube Nuts Assortment Kit, A38-105 (*BQ7005*), is on page 30.

HARDWARE *CONTINUED*

ELBOWS

90° Swivel Elbow

A21-100 *BQ141*

Port thread 3/8-24 UNF, inverted
 Tube nut 3/8-24 UNF

Zinc-nickel A21-101 *BQ141Z*



A21-100 (BQ141) is useful in tight spots that require an inverted seat connection.

JIC Elbow

A21-102 *BQ252*

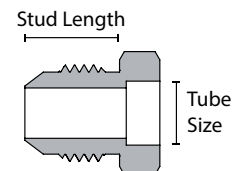
Port thread 3/8-24 UNF, inverted
 Stud thread 3/8-24 UNF
 Dash size -03 JIC



BRAZE-ON FITTINGS

Aluminum

Thread	Tube Size	Stud Length	Type	Hex	Part Number
9/16-18 UNF	3/8"	14.1 mm	-06 JIC	5/8"	A22-103 <i>BQ170</i>
5/8-18 UNF	3/8"	15.7 mm	45°	11/16"	A22-104 <i>BQ171</i>
3/4-16 UNF	1/2"	16.7 mm	-08 JIC	13/16"	A22-105 <i>BQ172</i>
7/8-14 UNF	5/8"	22.6 mm	-10 JIC	15/16"	A22-106 <i>BQ173</i>
1 1/16-14 UNS	3/4"	25.4 mm	45°	1 1/16"	A22-107 <i>BQ174</i>



Steel

Thread	Tube Size	Stud Length	Type	Hex	Part Number
3/8-24 UNF	3/16"	12.2mm	-03 JIC	7/16"	A22-102 <i>BQ153</i>
9/16-18 UNF	3/8"	14.1mm	-06 JIC	5/8"	A22-112 <i>BQ226</i>
9/16-18 UNF	1/2"	14.1mm	-06 JIC	11/16"	A22-114 <i>BQ228</i>
9/16-18 UNF	10mm	14.1mm	-06 JIC	5/8"	A22-113 <i>BQ227</i>



PRE-FLUXED BRAZING RODS

Silver

A13-143 *BQ33*

For professional brazing of steel, stainless, brass, or any combination of these metals. Designed for brazing high-pressure fittings. No cadmium. 18" long.



pack of 8

Aluminum

A13-144 *BQ34*

For brazing aluminum. 18" long.



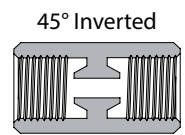
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HARDWARE *CONTINUED*

FEMALE UNIONS

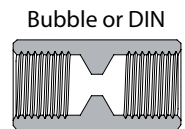
Imperial

Thread	Seat	Hex	Overall Length	Part Number
3/8-24 UNF	45°	1/2"	22.2 mm	A23-100 <i>BQ110</i>
3/8-24 UNF	45°	1/2"	22.2 mm	A23-101 <i>BQ110B</i> brass
3/8-24 UNF	bubble	1/2"	25 mm	A23-108 <i>BQ115</i>
7/16-24 UNS	45°	9/16"	22.2 mm	A23-102 <i>BQ111</i>
7/16-24 UNS	45°	9/16"	22.2 mm	A23-103 <i>BQ111SS</i> stainless
1/2-20 UNF	45°	5/8"	25 mm	A23-104 <i>BQ112</i>
9/16-18 UNF	45°	3/4"	27 mm	A23-111 <i>BQ119</i>
5/8-18 UNF	45°	3/4"	27 mm	A23-106 <i>BQ113</i>



Metric

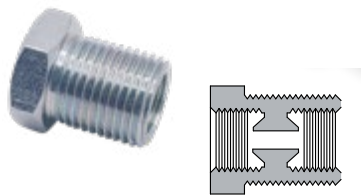
Thread	Seat	Hex	Overall Length	Part Number
M10 × 1	45°	13 mm	24 mm	A23-110 <i>BQ117</i>
M10 × 1	DIN	13 mm	25 mm	A23-107 <i>BQ114</i>
M12 × 1	45°	16 mm	25 mm	A23-109 <i>BQ116</i>
M12 × 1	DIN	16 mm	27 mm	A23-112 <i>BQ147</i>



Bulkhead Union

A23-113 *BQ148*

Thread	7/16-24 (2)
Seat type	45° inverted
Mount thread	5/8-18 UNF
Hex	19 mm



Secure with A26-100 (*BQ13*) bulkhead nut.

/// Female Unions Assortment Kit, A38-108 (*BQ7009*), is on page 30.

Tandem Trailer Fittings

A25-101 *BQ4700B*

Thread	3/8-24 UNF (4)
Seat type	inverted



brass

Block off excess ports with A37-109 (*BQ503*) plug.

HARDWARE *CONTINUED*

MALE UNIONS

A28-213 *BQ195*

Thread	3/8-24 UNF studs (2)
Seat type	inverted
Hex	1/2"
Stud length	16 mm
Overall length	44 mm



A23-115 *BQ292*

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2 mm
Overall length	30.7 mm



| Stainless A23-116 *BQ292SS*

A23-117 *BQ293SS*

Thread	3/8-24 UNF studs (2)
Dash size	-03 JIC
Hex	7/16"
Stud length	12.2 mm
Overall length	45.9 mm



stainless

Use with A26-103 (BQ78) nut.

BULKHEAD NUTS

Imperial

Thread	Hex Size	Thickness	Part Number
3/8-24 UNF	1/2"	5 mm	A26-103 <i>BQ78</i>
7/16-20 UNF	5/8"	6 mm	A26-105 <i>BQ80</i>
1/2-20 UNF	3/4"	6 mm	A26-108 <i>BQ83</i>
5/8-18 UNF	15/16"	8 mm	A26-100 <i>BQ13</i>
11/16-18 UNS	1"	8 mm	A26-102 <i>BQ77</i>
3/4-16 UNF	1 1/16"	8 mm	A26-109 <i>BQ84</i>
7/8-14 UNF	1 1/8"	8 mm	A26-101 <i>BQ75</i>
7/8-18 UNS	1 1/8"	8 mm	A26-113 <i>BQ89</i>



Metric

Thread	Hex Size	Thickness	Part Number
M10 × 1	13 mm	5 mm	A26-104 <i>BQ79</i>
M12 × 1	19 mm	6 mm	A26-106 <i>BQ81</i>
M12 × 1.5	19 mm	6 mm	A26-107 <i>BQ82</i>
M16 × 1.5	22 mm	7 mm	A26-112 <i>BQ87</i>
M18 × 1.5	25 mm	8 mm	A26-111 <i>BQ86</i>
M20 × 1.5	27 mm	8 mm	A26-110 <i>BQ85</i>

HARDWARE *CONTINUED*

TEES

Female Imperial

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
1/8-27 NPT	NPT	31.75 mm	Bolt	8.2 mm	14 mm	A27-106 <i>BQ93A</i>
3/8-24 UNF	45°	T-shape	none	none	1/2"	A27-110 <i>BQ264</i>
3/8-24 UNF	45°	31.75 mm	Bolt	8.2 mm	1/2"	A27-103 <i>BQ90A</i>
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	A27-100 <i>BQ56A</i>
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	A27-101 <i>BQ56AB</i> <i>brass</i>
3/8-24 UNF	45°	28.6 mm	Bolt	8.2 mm	1/2"	A27-102 <i>BQ56ASS</i> <i>stainless</i>
7/16-20 UNF	bubble	31.75 mm	Bolt	8.2 mm	14 mm	A27-107 <i>BQ94A</i>
7/16-24 UNS	45°	31.75 mm	Bolt	8.2 mm	14 mm	A27-105 <i>BQ92A</i>



Female Metric

Thread	Seat	Diameter	Mount	Mount Hole	Thickness	Part Number
M10 × 1	45°	31.75 mm	Bolt	8.2 mm	1/2"	A27-104 <i>BQ91A</i>
M10 × 1	DIN	31.75 mm	Bolt	7.2 mm	14 mm	A27-108 <i>BQ95A</i>

Male Imperial

Thread	Dash Size	Diameter	Mount	Mount Hole	Thickness	Part Number
3/8-24 UNF	-03 JIC	31.75 mm	Bolt	8.2 mm	1/2"	A27-112 <i>BQ360</i>
7/16-20 UNF	-04 JIC	31.75 mm	Bolt	8.2 mm	1/2"	A27-113 <i>BQ361</i>



Tees with Bracket

A27-115 *BQ7812*

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.5 mm



| Brass A27-116 *BQ7813B*

A27-116 *BQ7813B*

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Mount hole size	8.8 mm

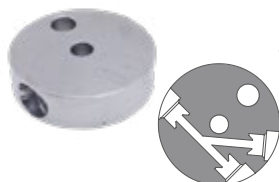


| Steel A27-115 *BQ7812*

Double Bolt Tee

A27-109 *BQ177SS*

Thread	3/8-24 UNF ports (3)
Seat type	inverted
Diameter	47 mm
Thickness	1/2"
Mount hole size	8.5 mm



stainless for Harley

NPT Tee

A27-111 *BQ265*

Thread	3/8-24 UNF ports (3)
Seat type	1/8-27 UNF ports (middle) inverted (2)



HARDWARE CONTINUED

CLIPS & BRACKETS

Universal Clip

A15-102 BQ3052



Universal Clip

A15-103 BQ3052SS



stainless

Clip - Toyota

A15-104 BQ3053



Universal Brackets

A15-203 BQB06

Hole size 19 mm
Mount holes 5 mm



A15-268 BQB244

Hole size 17 mm
Mount holes 6.8 mm



Bracket Retaining Screws

A36-125 BQ71



pack of 50

Self-Drilling Screws

A36-124 BQ811



pack of 20

Tube Clamps

Tube size	Part Number
3/16"	A15-126 BQ249
1/4"	A15-127 BQ250
5/16"	F11-138 FL35
3/8"	F11-137 FL34



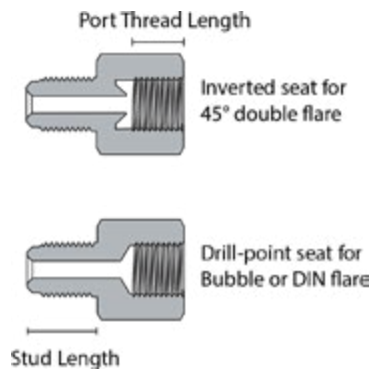
plastic



HARDWARE *CONTINUED*

THREAD ADAPTERS

Male-Female



When deciding if an adapter will work with a specific port, think of the Stud Fit as a "tube-size equivalent," in that the adapter will seat properly if the corresponding tube and tube nut would also seat properly

Port Thread	Stud Thread	Port Seat	Tube Size	Stud Length	Stud Fit	Hex	Part Number
1/8-27 NPT	3/8-24 UNF	NPT	-	11.2 mm	-	9/16"	A28-121 <i>BQ247</i>
1/8-27 NPT	1/2-20 UNF	NPT	-	11 mm	-	9/16"	A28-122 <i>BQ248</i>
1/8-27 NPT	M10 × 1.5	NPT	-	11 mm	-	9/16"	A28-119 <i>BQ187</i>
3/8-24 UNF	1/8-27 NPT	45°	3/16"	NPT	3/16"	1/2"	A28-108 <i>BQ48</i>
3/8-24 UNF	3/8-24 UNF	45°	3/16"	12 mm	3/16"	9/16"	A28-118 <i>BQ156</i>
3/8-24 UNF	7/16-20 UNF	45°	3/16"	12 mm	3/16"	9/16"	A28-107 <i>BQ47</i>
3/8-24 UNF	7/16-24 UNS	45°	3/16"	12 mm	3/16"	9/16"	A28-106 <i>BQ46</i>
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12 mm	3/16"	5/8"	A28-129 <i>BQ9300</i>
3/8-24 UNF	1/2-20 UNF	45°	3/16"	12 mm	5/16"	5/8"	A28-111 <i>BQ120</i>
3/8-24 UNF	9/16-18 UNF	45°	3/16"	12 mm	3/16"	11/16"	A28-115 <i>BQ124</i>
3/8-24 UNF	9/16-18 UNF	Bubble	3/16"	12 mm	3/16"	11/16"	A28-125 <i>BQ262</i>
3/8-24 UNF	9/16-20 UNS	45°	3/16"	12 mm	3/16"	11/16"	A28-112 <i>BQ121</i>
3/8-24 UNF	M10 × 1	45°	3/16"	12.6 mm	3/16"	9/16"	A28-109 <i>BQ49</i>
3/8-24 UNF	M10 × 1	Bubble	3/16"	12 mm	3/16"	13 mm	A28-116 <i>BQ125</i>
3/8-24 UNF	M12 × 1	45°	3/16"	12 mm	3/16"	16 mm	A28-128 <i>BQ383</i>
7/16-24 UNS	3/8-24 UNF	45°	1/4"	11.2 mm	3/16"	9/16"	A28-105 <i>BQ45</i>
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12 mm	3/16"	5/8"	A28-130 <i>BQ9301</i>
7/16-24 UNS	1/2-20 UNF	45°	1/4"	12 mm	5/16"	5/8"	A28-113 <i>BQ122</i>
7/16-24 UNS	9/16-18 UNF	45°	1/4"	12 mm	3/16"	11/16"	A28-114 <i>BQ123</i>
1/2-20 UNF	3/8-24 UNF	45°	3/16"	12 mm	3/16"	11/16"	A28-131 <i>BQ9304</i>
1/2-20 UNF	3/8-24 UNF	45°	5/16"	11.2 mm	3/16"	16 mm	A28-123 <i>BQ260</i>
1/2-20 UNF	7/16-24 UNS	45°	5/16"	12 mm	1/4"	5/8"	A28-117 <i>BQ127</i>
9/16-18 UNF	3/8-24 UNF	45°	5/16"	11.2 mm	3/16"	11/16"	A28-124 <i>BQ261</i>
M10 × 1	3/8-24 UNF	45°	3/16"	11.2 mm	3/16"	1/2"	A28-110 <i>BQ50</i>
M10 × 1	M10 × 1	DIN	3/16"	13 mm	3/16"	16 mm	A28-100 <i>BQ40</i>
M10 × 1	M10 × 1.25	45°	3/16"	12 mm	3/16"	13 mm	A28-102 <i>BQ42</i>
M10 × 1	M12 × 1	45°	3/16"	12 mm	3/16"	16 mm	A28-103 <i>BQ43</i>
M10 × 1.25	M10 × 1	45°	3/16"	12.6 mm	3/16"	13 mm	A28-101 <i>BQ41</i>
M10 × 1.5	M10 × 1	45°	3/16"	13 mm	3/16"	15 mm	A28-132 <i>BQ9305</i>
M11 × 1.25	3/8-24 UNF	45°	3/16"	11.2 mm	3/16"	1/2"	A28-133 <i>BQ9307</i>
M12 × 1	1/8-27 NPT	DIN	1/4"	NPT	3/16"	16 mm	A28-120 <i>BQ246</i>
M12 × 1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	14 mm	A28-126 <i>BQ379</i>
M12 × 1	M10 × 1	45°	1/4"	12.6 mm	3/16"	16 mm	A28-104 <i>BQ44</i>
M14 × 1.5	1/8-27 NPT	45°	3/16"	NPT	3/16"	17 mm	A28-127 <i>BQ380</i>

/// Male-Female Adapters Assortment Kit, A38-104 (*BQ7004*), is on page 29.

HARDWARE *CONTINUED*

Male-Male

JIC Thread	2nd Stud Thread	2nd Stud Length	Hex	Overall Length	Part Number
3/8-24 UNF (-03 JIC)	3/8-24 UNF	16mm	1/2"	34.2mm	A28-206 <i>BQ135</i>
3/8-24 UNF (-03 JIC)	1/4-28 UNF	16mm	1/2"	36mm	A28-204 <i>BQ132</i>
3/8-24 UNF (-03 JIC)	1/2-20 UNF	13mm	1/2"	33mm	A28-211 <i>BQ168</i>
3/8-24 UNF (-03 JIC)	M10×1	16mm	1/2"	34.2mm	A28-201 <i>BQ129</i>
3/8-24 UNF (-03 JIC)	M10×1.25	16mm	1/2"	36mm	A28-200 <i>BQ128</i>
3/8-24 UNF (-03 JIC)	M10×1.5	16mm	1/2"	60mm	A28-202 <i>BQ130</i>
7/16-20 UNF (-04 JIC)	3/8-24 UNF	16mm	1/2"	37.1mm	A28-203 <i>BQ131</i>
7/16-20 UNF (-04 JIC)	7/16-24 UNS	16mm	9/16"	36mm	A28-205 <i>BQ134</i>
7/16-20 UNF (-04 JIC)	M10×1	11.6mm	1/2"	31.6mm	A28-212 <i>BQ176</i>
7/16-20 UNF (-04 JIC)	M12×1	16mm	14mm	36mm	A28-207 <i>BQ144</i>
7/16-20 UNF (-04 JIC)	M12×1.25	16mm	14mm	37mm	A28-209 <i>BQ149</i>



/// Male-Male Adapters Assortment Kit, A38-109 (*BQ7010*), is on page 30.

-04 JIC to M10 × 1

A28-208 *BQ145*

JIC thread	7/16-20 UNF
Dash size	-04 JIC
2nd thread	M10 × 1
Hex	12 mm
Stud length	9 mm
Overall length	29 mm



Designed to be used with ISO 24° cone connector.

-03 JIC to 1/8-28 BSPP

A28-210 *BQ157*

JIC thread	3/8-24 UNF
Dash size	-03 JIC
2nd thread	1/8-28 BSPP
Hex	5/8"
Stud length	6.5mm
Overall length	29 mm



Designed to be used with bonded washer (dowty seal).

COMPRESSION TUBE JOINERS

Tube Size	Part Number
8 mm	D10-129
10 mm	D10-128
3/8"	D10-130
5/16"	D10-131
1/4"	D10-132
3/16"	D10-133



HARDWARE *CONTINUED*

BUMP TUBE ADAPTERS

These adapters are for power steering and fuel systems.

Male to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Stud Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
1/2-20 UNF (-05 JIC)	1/2-20 UNF	9/16"	37.4mm	D13-100 <i>5MBT-5MJ</i>
9/16-18 UNF (-06 JIC)	11/16-18 UNS	3/4"	41.9mm	D13-101 <i>7MBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M14 × 1.5	5/8"	38.8mm	D13-102 <i>14MMBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M16 × 1.5	17mm	38.9mm	D13-104 <i>16MMBT-6MJ</i>
9/16-18 UNF (-06 JIC)	M18 × 1.5	3/4"	39.4mm	D13-106 <i>18MMBT-6MJ</i>



Male to O-ring Boss

O-ring boss includes a PTFE crush ring

Stud Thread	O-ring Boss Thread	Hex	Overall Length	Part Number
9/16-18 UNF (-06 JIC)	M16 × 1.5 (Ford type III)	3/4"	32.1mm	D13-105 <i>16MMORB-6MJ</i>



Female to O-ring Pilot

O-ring pilot includes a high-temperature Viton O-ring.

Port Thread	O-ring Pilot Thread	Hex	Overall Length	Part Number
5/8-18 UNF inverted	M16 × 1.5	3/4"	30.8mm	D13-103 <i>16MMBT-6FI</i>



/// Bump Tube Adapter Assortment Kit, A38-103 (*BQ7003*), is on page 29.

TRANSMISSION LINE ADAPTERS

Straight

A35-100 *BQ182*

Thread 5/8-18 UNF
Seat type inverted



90°

A35-101 *BQ183*

Thread 5/8-18 UNF
Seat type inverted



HARDWARE *CONTINUED*

COPPER WASHERS

Sold in packs of 20.

Bolt Size	Diameter	Thickness	Part Number
3/8"	5/8"	1.5 mm	A31-108 <i>BQ3858</i>
7/16"	18 mm	1.5 mm	A31-102 <i>BQ1118</i>
1/2"	20 mm	2 mm	A31-104 <i>BQ1320</i>
9/16"	21 mm	2 mm	A31-105 <i>BQ1421</i>
8 mm	13 mm	1.3 mm	A31-100 <i>BQ813</i>
10 mm	16 mm	1.5 mm	A31-101 <i>BQ1016</i>
12 mm	18 mm	1.5 mm	A31-103 <i>BQ1218</i>
15 mm	22 mm	2 mm	A31-106 <i>BQ1522</i>
16 mm	24 mm	2 mm	A31-107 <i>BQ1624</i>



Copper Seat Seal
(Flare Gasket)
A31-109 *BQ244*
pack of 10

/// Copper Washer Assortment Kit, A38-100 (*BQ7000*), is on page 29.

BANJO BOLTS

Standard

Thread	Stud Length	Hex	Part Number	Washer
3/8-24 UNF	25mm	11mm	A32-114 <i>BQ8093</i>	A31-108 <i>BQ3858</i>
7/16-20 UNF	23.8mm	1/2"	A32-111 <i>BQ8089</i>	A31-102 <i>BQ1118</i>
7/16-20 UNF	27mm	11mm	A32-117 <i>BQ8096</i>	A31-102 <i>BQ1118</i>
7/16-24 UNS	26.5mm	1/2"	A32-112 <i>BQ8090</i>	A31-102 <i>BQ1118</i>
1/2-20 UNF	31mm	9/16"	A32-118 <i>BQ8097</i>	A31-104 <i>BQ1320</i>
M8x1	17mm	10mm	A32-101 <i>BQ8076</i>	A31-100 <i>BQ813</i>
M8x1.25	16mm	10mm	A32-102 <i>BQ8077</i>	A31-100 <i>BQ813</i>
M10x1	22mm	11mm	A32-116 <i>BQ8095</i>	A31-101 <i>BQ1016</i>
M10x1	26mm	11mm	A32-115 <i>BQ8094</i>	A31-101 <i>BQ1016</i>
M10x1.25	22mm	11mm	A32-120 <i>BQ8099</i>	A31-101 <i>BQ1016</i>
M10x1.5	20mm	11mm	A32-100 <i>BQ8075</i>	A31-101 <i>BQ1016</i>
M10x1.5	23mm	11mm	A32-107 <i>BQ8086</i>	A31-101 <i>BQ1016</i>
M10x1.5	23mm	11mm	A32-108 <i>BQ8086SS stainless</i>	A31-101 <i>BQ1016</i>
M10x1.5	27mm	11mm	A32-110 <i>BQ8088</i>	A31-101 <i>BQ1016</i>
M11x1.25	23mm	11mm	A32-109 <i>BQ8087</i>	A31-102 <i>BQ1118</i>
M12x1	21.3mm	13mm	A32-119 <i>BQ8098</i>	A31-103 <i>BQ1218</i>
M12x1.25	25mm	13mm	A32-103 <i>BQ8078</i>	A31-103 <i>BQ1218</i>
M12x1.5	25mm	13mm	A32-113 <i>BQ8092</i>	A31-103 <i>BQ1218</i>



Double

Thread	Stud Length	Hex	Part Number	Washer
3/8-24 UNF	34.5 mm	7/16"	A32-106 <i>BQ8085</i>	A31-108 <i>BQ3858</i>
M10 x 1	34.5 mm	11 mm	A32-104 <i>BQ8083</i>	A31-101 <i>BQ1016</i>
M10 x 1.25	34.5 mm	11 mm	A32-105 <i>BQ8084</i>	A31-101 <i>BQ1016</i>



/// Banjo Bolt Assortment Kit, A38-107 (*BQ7007*), is on page 30.

HARDWARE *CONTINUED*

BANJO ADAPTERS

Block Block banjo adapter ports have an inverted seat.

Thread	Hole Size	Thickness	Width	Part Number
3/8-24 UNF	10.2 mm	1/2"	17 mm	A33-100 <i>BQ60</i>
7/16-24 UNS	11.2 mm	14 mm	18 mm	A33-102 <i>BQ62</i>
1/2-20 UNF	12.9 mm	16 mm	20 mm	A33-103 <i>BQ63</i>
M10 × 1	10.2 mm	13 mm	17 mm	A33-101 <i>BQ61</i>



Round Round banjo adapters have a JIC stud.

Thread	Dash Size	Hole Size	Thickness	Width	Overall Length	Part Number
3/8-24 UNF	-03 JIC	10 mm	10 mm	17 mm	42 mm	A33-104 <i>BQ150</i> tube
3/8-24 UNF	-03 JIC	10 mm	10 mm	17 mm	19.6 mm	A33-105 <i>BQ151</i>
3/8-24 UNF (2)	-03 JIC	10 mm	10 mm	17 mm	39.2 mm	A23-114 <i>BQ152</i> union
7/16-20 UNF	-04 JIC	10 mm	10 mm	10 mm	42 mm	A33-106 <i>BQ155</i> tube
1/2-20 UNF	-05 JIC	14 mm	14 mm	24 mm	26 mm	A33-107 <i>BQ271</i>
1/2-20 UNF	-05 JIC	14 mm	14 mm	24 mm	44 mm	A33-108 <i>BQ392</i> tube
9/16-18 UNF	-06 JIC	16 mm	16 mm	28 mm	44 mm	A33-109 <i>BQ393</i> tube



/// Banjo Adapters Assortment Kit, A38-101 (*BQ7001*), page 29.

BRAZE-ON BANJO HEADS

Hole Size	Thickness	Width	Tube Size	Overall Length	Part Number
7/16"	10 mm	19 mm	3/16"	27.5 mm	A22-115 <i>BQ225</i>
10.2 mm	8 mm	17 mm	3/16"	25.5 mm	A22-110 <i>BQ223</i>
10.2 mm	10 mm	18 mm	3/16"	26 mm	A22-111 <i>BQ224</i>
12.2 mm	12 mm	22 mm	10 mm	27 mm	A22-108 <i>BQ178</i>
14.2 mm	14 mm	24 mm	10 mm	28 mm	A22-109 <i>BQ179</i>



/// Brazing rods are on page 18.

HARDWARE CONTINUED

BLEED SCREWS

Thread	Stud Length	Hex	Part Number	Cap
1/4-28 UNF	15.3 mm	7 mm	A36-112 <i>BQ4439</i>	BQ315
5/16-24 UNF	17.5 mm	5/16"	A36-111 <i>BQ4438</i>	BQ316
3/8-24 UNF	20.8 mm	3/8"	A36-107 <i>BQ4433</i>	BQ315
7/16-20 UNF	20.5 mm	7/16"	A36-118 <i>BQ4445</i>	BQ316
7/16-24 UNS	24.5 mm	7/16"	A36-117 <i>BQ4444</i>	BQ316
M7 × 1	12.5 mm	8 mm	A36-110 <i>BQ4436</i>	BQ315
M7 × 1	21.5 mm	7 mm	A36-114 <i>BQ4441</i>	BQ315
M8 × 1	17.5 mm	8 mm	A36-116 <i>BQ4443</i>	BQ316
M8 × 1.25	22.1 mm	8 mm	A36-115 <i>BQ4442</i>	BQ316
M10 × 1	19.5 mm	10 mm	A36-109 <i>BQ4435</i>	BQ315
M10 × 1	24.1 mm	10 mm	A36-108 <i>BQ4434</i>	BQ315
M10 × 1.25	20.4 mm	10 mm	A36-119 <i>BQ4446</i>	BQ316
M10 × 1.5	17.9 mm	10 mm	A36-113 <i>BQ4440</i>	BQ316



Bleed Screw Caps

Part Number	Size
A36-122 <i>BQ315</i>	Small
A36-123 <i>BQ316</i>	Large

Bleed Screw Repair Kit

A36-121 *BQ181*

Rescue your brake component that has a stripped or broken bleed screw: simply drill and tap to 1/8-27 NPT.



/// Bleeder Buster Kit, A36-100 (*BQ2200*), is on page 15.
 /// Bleed Screws Assortment Kit, A38-110 (*BQ7014*), is on page 31.

BRAKE HOSE CAPS & PLUGS

Caps



Thread	Hex	Part Number
3/8-24 UNF	1/2"	A37-100 <i>BQ160</i>
7/16-20 UNF	9/16"	A37-102 <i>BQ162</i>
7/16-24 UNS	9/16"	A37-101 <i>BQ161</i>
1/2-20 UNF	5/8"	A37-103 <i>BQ163</i>
M10 × 1	13 mm	A37-104 <i>BQ164</i>
M10 × 1.25	13 mm	A37-105 <i>BQ165</i>
M12 × 1	16 mm	A37-106 <i>BQ166</i>
M12 × 1.5	16 mm	A37-107 <i>BQ167</i>

Plugs



Thread	Fits	Hex	Part Number
1/8-27 NPT	-	7/16"	A37-114 <i>BQ508</i>
3/8-24 UNF	inverted seat	3/8"	A37-109 <i>BQ503</i>
7/16-24 UNS	inverted seat	7/16"	A37-110 <i>BQ504</i>
M10 × 1	drill-point seat	11 mm	A37-112 <i>BQ506</i>
M10 × 1	inverted seat	11 mm	A37-108 <i>BQ502</i>
M12 × 1	drill-point seat	13 mm	A37-113 <i>BQ507</i>
M12 × 1	inverted seat	13 mm	A37-111 <i>BQ505</i>

/// Brake Hose Plugs & Caps Assortment Kit, A38-111 (*BQ7015*), is on page 31.

HARDWARE *CONTINUED*

ASSORTMENT KITS

Assortment kits contain a selection of hard-to-find parts and problem-solvers.

Call about custom branding.

Copper Washers

A38-100 *BQ7000*

Part Number	Qty
A31-101 <i>BQ1016</i>	20
A31-102 <i>BQ1118</i>	20
A31-103 <i>BQ1218</i>	20
A31-104 <i>BQ1320</i>	20
A31-105 <i>BQ1421</i>	10
A31-106 <i>BQ1522</i>	10
A31-107 <i>BQ1624</i>	10
A31-108 <i>BQ3858</i>	20



/// Copper washer listing is on page 26.

Banjo Adapters

A38-101 *BQ7001*

Part Number	Qty
A33-100 <i>BQ60</i>	4
A33-101 <i>BQ61</i>	4
A33-102 <i>BQ62</i>	4
A33-103 <i>BQ63</i>	4
A33-104 <i>BQ150</i>	4
A33-105 <i>BQ151</i>	4



/// Banjo adapter listing is on page 155.

3-Way Tube Tees

A38-102 *BQ7002*

Part Number	Qty
A27-100 <i>BQ56A</i>	2
A27-103 <i>BQ90A</i>	2
A27-104 <i>BQ91A</i>	2
A27-105 <i>BQ92A</i>	2
A27-106 <i>BQ93A</i>	2
A27-108 <i>BQ95A</i>	2



/// Tee listing is on page 108.

Bump Tube Adapters

A38-103 *BQ7003*

Part Number	Qty
D13-100 <i>5MBT-5MJ</i>	4
D13-101 <i>7MBT-6MJ</i>	4
D13-102 <i>14MMBT-6MJ</i>	4
D13-103 <i>16MMBT-6FI</i>	4
D13-104 <i>16MMBT-6MJ</i>	4
D13-106 <i>18MMBT-6MJ</i>	4



/// Bump tube adapter listing is on page 25.

Male-Female Adapters

A38-104 *BQ7004*

Part Number	Qty
A28-100 <i>BQ40</i>	2
A28-101 <i>BQ41</i>	4
A28-102 <i>BQ42</i>	4
A28-103 <i>BQ43</i>	4
A28-104 <i>BQ44</i>	4
A28-105 <i>BQ45</i>	4
A28-106 <i>BQ46</i>	4
A28-107 <i>BQ47</i>	4
A28-108 <i>BQ48</i>	4
A28-109 <i>BQ49</i>	4
A28-110 <i>BQ50</i>	4
A28-111 <i>BQ120</i>	4
A28-112 <i>BQ121</i>	2
A28-113 <i>BQ122</i>	4
A28-114 <i>BQ123</i>	2
A28-115 <i>BQ124</i>	2
A28-116 <i>BQ125</i>	4
A28-118 <i>BQ156</i>	4



/// Male-Female adapter listing is on page 23.

HARDWARE *CONTINUED*

Metric Tube Nuts

A38-105 *BQ7005*

Part Number	Qty
A18-100 <i>BQ72</i>	4
A18-108 <i>BQ4511</i>	10
A18-111 <i>BQ4512</i>	6
A18-112 <i>BQ4513</i>	6
A17-105 <i>BQ9174</i>	4
A17-106 <i>BQ9175</i>	4
A17-109 <i>BQ9178</i>	4
A17-110 <i>BQ9179</i>	4
A18-126 <i>BQ9180</i>	4
A18-128 <i>BQ9182</i>	4
A18-129 <i>BQ9183</i>	4
A18-134 <i>BQ9188</i>	4
A18-137 <i>BQ9191</i>	4
A18-138 <i>BQ9192</i>	4
A18-139 <i>BQ9193</i>	4



/// Metric tube nut listing is on page 17.

Imperial Tube Nuts

A38-106 *BQ7006*

Part Number	Qty
A17-101 <i>BQ57</i>	4
A18-101 <i>BQ2577</i>	10
A18-103 <i>BQ2578</i>	6
A18-104 <i>BQ4276</i>	4
A18-105 <i>BQ4277</i>	4
A18-106 <i>BQ4285</i>	4
A18-115 <i>BQ5555</i>	10
A18-118 <i>BQ5842</i>	10
A18-120 <i>BQ6118</i>	6
A17-107 <i>BQ9176</i>	4
A17-108 <i>BQ9177</i>	4
A18-130 <i>BQ9184</i>	4
A18-131 <i>BQ9185</i>	4
A18-132 <i>BQ9186</i>	4
A18-133 <i>BQ9187</i>	4



/// Imperial tube nut listing is on page 16.

Banjo Bolts

A38-107 *BQ7007*

Part Number	Qty
A32-107 <i>BQ8086</i>	4
A32-109 <i>BQ8087</i>	4
A32-110 <i>BQ8088</i>	4
A32-111 <i>BQ8089</i>	4
A32-112 <i>BQ8090</i>	4
A32-113 <i>BQ8092</i>	4
A32-114 <i>BQ8093</i>	6
A32-116 <i>BQ8095</i>	6
A32-117 <i>BQ8096</i>	4
A32-118 <i>BQ8097</i>	4
A32-119 <i>BQ8098</i>	4
A32-120 <i>BQ8099</i>	4



/// Banjo bolt listing is on page 26.

Female Unions

A38-108 *BQ7009*

Part Number	Qty
A23-100 <i>BQ110</i>	4
A23-102 <i>BQ111</i>	4
A23-107 <i>BQ114</i>	4
A23-108 <i>BQ115</i>	4
A23-109 <i>BQ116</i>	4
A23-110 <i>BQ117</i>	4



/// Female Union listing is on page 19.

Male-Male Adapters

A38-109 *BQ7010*

Part Number	Qty
A28-201 <i>BQ129</i>	4
A28-202 <i>BQ130</i>	4
A28-203 <i>BQ131</i>	4
A28-205 <i>BQ134</i>	4
A28-206 <i>BQ135</i>	4
A28-207 <i>BQ144</i>	4



/// Male-Male adapter listing is on page 24.

HARDWARE *CONTINUED*

Bleed Screws

A38-110 *BQ7014*

Part Number	Qty
A36-122 <i>BQ315</i>	10
A36-123 <i>BQ316</i>	10
A36-107 <i>BQ4433</i>	4
A36-108 <i>BQ4434</i>	4
A36-109 <i>BQ4435</i>	4
A36-111 <i>BQ4438</i>	4
A36-112 <i>BQ4439</i>	4
A36-113 <i>BQ4440</i>	4
A36-114 <i>BQ4441</i>	4
A36-115 <i>BQ4442</i>	4
A36-116 <i>BQ4443</i>	4
A36-117 <i>BQ4444</i>	4
A36-118 <i>BQ4445</i>	4
A36-119 <i>BQ4446</i>	4



/// Bleed screw listing is on page 28.

Brake Hose Plugs & Caps

A38-111 *BQ7015*

Part Number	Qty
A37-100 <i>BQ160</i>	2
A37-101 <i>BQ161</i>	2
A37-103 <i>BQ163</i>	2
A37-104 <i>BQ164</i>	2
A37-105 <i>BQ165</i>	2
A37-106 <i>BQ166</i>	2
A37-107 <i>BQ167</i>	2
A37-108 <i>BQ502</i>	2
A37-109 <i>BQ503</i>	2
A37-110 <i>BQ504</i>	2
A37-111 <i>BQ505</i>	2
A37-112 <i>BQ506</i>	2
A37-113 <i>BQ507</i>	2
A37-114 <i>BQ508</i>	2
A13-146 <i>BQ1020R</i>	1



A13-146
BQ1020R

/// Plug and cap listing is on page 28.

FUEL

Fuel Connectors

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Fuel Line Kit

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FUEL CONNECTORS

QUICK CONNECTS

Thumb-release convenience with no special tools required.

Straight

90°

Female	Male	Part Number
1/4"	5/16"	F11-112 <i>FL08-4-5</i>
5/16"	5/16"	F11-113 <i>FL08-5-5</i>
5/16"	3/8"	F11-114 <i>FL08-5-6</i>
3/8"	5/16"	F11-115 <i>FL08-6-5</i>
3/8"	3/8"	F11-116 <i>FL08-6-6</i>

Female	Male	Part Number
5/16"	5/16"	F11-117 <i>FL09-5-5</i>
5/16"	3/8"	F11-118 <i>FL09-5-6</i>
3/8"	5/16"	F11-119 <i>FL09-6-5</i>
3/8"	3/8"	F11-120 <i>FL09-6-6</i>



QUICK CONNECT TUBES

Description

1/4" quick connect to 8mm FuelFlex - straight
 5/16" quick connect to 8mm FuelFlex - straight
 3/8" quick connect to 3/8" quick connect - straight
 3/8" quick connect to 10mm FuelFlex - straight

Part Number

F11-107 *FL05-4*
 F11-104 *FL03-5*
 F11-106 *FL04-6*
 F11-105 *FL03-6*



FUELFLEX CONNECTORS

Description

8 mm FuelFlex to 8mm FuelFlex - 90°
 10 mm FuelFlex to 10mm FuelFlex - 90°

Part Number

F11-131 *FL20-5*
 F11-132 *FL20-6*



FUELFLEX REDUCERS

Description

8 mm FuelFlex to 1/4" FuelFlex
 10 mm FuelFlex to 8mm FuelFlex

Part Number

F11-108 *FL06-5-4*
 F11-109 *FL06-6-5*



FUELFLEX TO RUBBER HOSE

Description

8 mm FuelFlex to 5/16" rubber hose
 10 mm FuelFlex to 3/8" rubber hose

Part Number

F11-102 *FL02-5*
 F11-103 *FL02-6*



FUEL CONNECTORS CONTINUED

THREAD CONNECTORS

Straight

Tube End	End Form	Thread	Length	Part Number
5/16" rubber hose	bump	M14×1.5	230 mm	F11-110 <i>FL07-5</i>
3/8" rubber hose	bump	M16×1.5	230 mm	F11-111 <i>FL07-6</i>
8 mm FuelFlex	double flare	M14×1.5	90 mm	F11-125 <i>FL12-14MM</i>
8 mm FuelFlex	bump	M14×1.5	155 mm	F11-126 <i>FL13-5</i>
8 mm FuelFlex	bump	M14×1.5	100 mm	F11-128 <i>FL14-5</i>
10 mm FuelFlex	bump	M16×1.5	155 mm	F11-127 <i>FL13-6</i>
10 mm FuelFlex	bump	M16×1.5	100 mm	F11-129 <i>FL14-6</i>



Bent

Tube End	End Form	Thread	Bend	Part Number
8 mm FuelFlex	double flare	M14×1.5	30°	F11-124 <i>FL11-14MM</i>
10 mm FuelFlex	bump	M16×1.5	180°	F11-130 <i>FL15</i>



FUEL FITTINGS

MALE-FEMALE ADAPTERS

Male	Female	Seat	Part Number
8 mm FuelFlex	M14×1.5	bump	F11-121 <i>FL10-5S steel</i>
10 mm FuelFlex	M16×1.5	bump	F11-122 <i>FL10-6S steel</i>
8 mm FuelFlex	M14×1.5	inverted	F11-123 <i>FL10-14MM brass</i>



FUELFLEX UNIONS

Size	Part Number
8 mm	F11-100 <i>FL01-5</i>
10 mm	F11-101 <i>FL01-6</i>



BUMP TUBE NUTS

Size	Part Number
M16×1.5 – 3/8"	A18-121 <i>BQ9148</i>
M14×1.5 – 5/16"	A18-122 <i>BQ9149</i>



COMPRESSION FITTINGS

Description	Part Number
8 mm FuelFlex — 5/16" metal tube	F11-139 <i>FL36 brass</i>
8 mm FuelFlex — 8 mm FuelFlex	F11-140 <i>FL37 brass</i>
10 mm FuelFlex — 3/8" metal tube	F11-141 <i>FL38 brass</i>
10 mm FuelFlex — 10 mm FuelFlex	F11-142 <i>FL39 brass</i>



FUEL ACCESSORIES

FUELFLEX TUBING

Size	Coil Length	Part Number
8 mm (5/16")	25ft	F00-100 <i>T8-FF</i>
10 mm (3/8")	25ft	F00-101 <i>T10-FF</i>



SPRING MANDRELS

Size	Part Number
8 mm (5/16")	F12-100 <i>BQ318</i>
10 mm (3/8")	F12-101 <i>BQ319</i>



FUEL PRESSURE REPAIR KIT

Size	Part Number
8 mm (5/16")	F11-133 <i>FL21</i>
10 mm (3/8")	F11-134 <i>FL22</i>



TUBE SUPPORT CLAMPS

Size	Part Number
8 mm (5/16")	F11-138 <i>FL35</i>
10 mm (3/8")	F11-137 <i>FL34</i>



360° TUBE CLAMPS

Size	Part Number
8 mm (5/16")	F11-135 <i>FL25</i>
10 mm (3/8")	F11-136 <i>FL26</i>



360° TUBE CLAMP PLIERS

A12-123 *BQ412*



TUBE CUTTER

A12-100 *BQ-01*



HEAT SHIELD

A14-107 *BQ313-SV*

Available in 5ft sections.
Maximum OD is 1/2".



FUEL LINE KIT



PROFESSIONAL FUEL LINE KIT

F10-100 *BQFL4500*

The Professional Fuel Line Kit comes with dozens of components and fittings, from quick connects and adapters to pliers, clamps, and heat shields. With over 180 pieces and 50 feet of FuelFlex tubing, this kit is a complete fuel line solution for almost any vehicle.



Part Number Qty

TUBING

F00-100 *T8-FF* 25 ft

F00-101 *T10-FF* 25 ft

QUICK CONNECTS

F11-112 *FL08-4-5* 2

F11-113 *FL08-5-5* 2

F11-114 *FL08-5-6* 2

F11-115 *FL08-6-5* 2

F11-116 *FL08-6-6* 2

F11-117 *FL09-5-5* 2

F11-118 *FL09-5-6* 2

F11-119 *FL09-6-5* 2

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