



A/C Clip

Innovative Air Conditioning Hose Assemblies



ENGINEERING YOUR SUCCESS.



AIR CONDITIONING ASSEMBLIES, SIMPLIFIED.

Innovative and Simplified A/C Clip

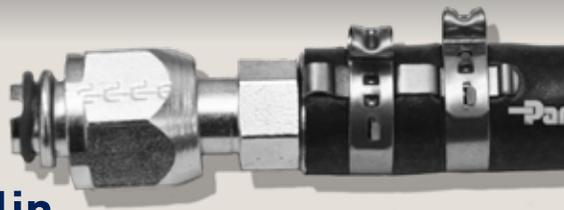
PARKER HANNIFIN IS ENHANCING THE QUALITY OF AIR CONDITIONING AND REFRIGERATION SYSTEMS ALL OVER THE WORLD WITH THE DEVELOPMENT OF A NEW HOSE FITTING SOLUTION. PROVIDING INCREDIBLE EASE OF USE AND THE LOWEST POSSIBLE PERMEATION RATES FOR A/C SYSTEMS, PARKER'S A/C CLIP LEADS THE INDUSTRY IN VALUE AND PERFORMANCE EVEN FOR THE MOST DEMANDING APPLICATIONS.

Parker has developed this innovative fitting that meets the SAE J2064 standard. Parker provides an end-to-end solution with our 285 Refrigeration hose, fittings, clamps, tubes and the tools to create an air conditioning assembly. Apart from an easy and quick assembly of the fitting on the hose, this hose/fitting combination guarantees low permeation compared to existing products in the market as well as the following benefits:

- Technicians avoid the cost and lead-time associated with ordering OEM air conditioning assemblies.
- Provides the end-user with proven, high quality replacement part.
- Does not require crimping machines and dies for assembly.
- Simplifies prototype design phase.

There are three main advantages to using Parker's A/C Clip:

- Simplified design – assembled by hand using simple tools.
- Ease of design and orientation – for difficult applications when hose and fitting must be assembled on site.
- Superior flexibility for tight routing applications.



A/C CLIP INSTALLATION GUIDE

REQUIRED TOOLS



Hose Cut-Off Tool (Part No. TH11-1)



A/C Clip Pliers (Part No. ACPL-1)

1. Cut hose to the proper length with the hose cutter.



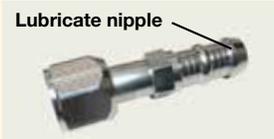
2. Place two A/C Clips onto the A/C Clip Chamber.



3. Slip assembled A/C Clip Chamber with A/C Clips onto the hose until the closed end of the Chamber contacts the end of the hose.



4. Lubricate the fitting nipple with a generous amount of P-80 Lube. This will assist with the insertion of the fitting into the hose.



5. Insert fitting until the hex contacts the hose end with the A/C Clip Chamber.



6. Tighten A/C Clips with the pliers until the ear clamp ends make contact or meet. Expect a slight "spring back" or gap once the pliers are released. If you are using pneumatic pliers (Optional) to close the A/C Clips, the pliers open themselves when the correct closing force has been reached.



285 Barrier Air Conditioning Hose

Parker 285 Barrier Hose is designed to deliver consistency and reliability in all sizes for air conditioning systems. Parker 285 Hose exceeds current industry standards for ultra-low refrigerant permeation and is designed, built, and tested to meet SAE J3062 Type C performance specifications. The hose is designed to meet Automotive OEM requirements for R134a and the next generation R1234yf refrigerants.

- Highly flexible
- Exceeds Automotive OEM requirements
- Exceeds SAE J3062 “Ultra Low” refrigerant permeation rating (<0.50 kg/m²yr R134a)
- Excellent Class I moisture ingress rating (<0.039 g/cm²/year)
- Compatible with Parker’s 26 series fittings (in sizes -4 through -12) and A/C Clips (in sizes -6 through -16)

285

Refrigerant

SAE J3062 Type C Class I



PART NUMBER	DASH NUMBER	HOSE I.D.		HOSE O.D.		WORKING PRESSURE		MINIMUM BEND RADIUS		WEIGHT		VACUUM RATING	
		INCH	MM	INCH	MM	PSI	MPa	INCH	MM	LBS/FT	KG/M	INCHES OF Hg	kPa
285-4	-4	0.200	5.08	0.490	12.45	500	3.4	2.000	50.8	0.09	0.14	28	95
285-6	-6	0.324	8.23	0.580	14.73	500	3.4	2.320	58.9	0.10	0.15	28	95
285-8	-8	0.420	10.67	0.680	17.27	500	3.4	2.720	69.1	0.13	0.19	28	95
285-10	-10	0.510	12.95	0.765	19.43	500	3.4	3.000	76.2	0.15	0.22	28	95
285-12	-12	0.635	16.13	0.930	23.62	500	3.4	3.720	94.5	0.20	0.30	28	95
285-16	-16	0.895	22.74	1.230	30.74	350	2.4	4.800	121.9	0.31	0.47	28	95

Application: Refrigerants R134a / PAG Oil & R1234yf / PAG Oil

Inner Tube: Synthetic rubber with nylon barrier

Reinforcement: One Fiber Braid

Cover: Synthetic rubber

Temperature Range: -40° F to +257° F (-40° C to +125° C)



WARNING: This product can expose you to chemicals including ethylene thiourea, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov



IMPORTANT: A/C Clip is approved for use with the new version of 285 hose announced in November 2018 only. To distinguish between the legacy 285 hose and the new version, the hose lay line was changed and appears as follows:



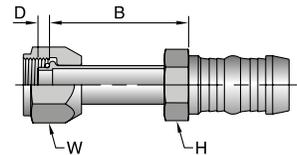
A/C Clip Chambers A/C Clips

PART NUMBER	HOSE SIZE	PACKAGE QUANTITY	PART NUMBER	HOSE SIZE	CLAMP SIZE		WIDTH INCH	THICKNESS INCH	PACKAGE QUANTITY
					INCH	MM			
ACCH-6C	-6	10	ACC-6C	-6	33/64 – 5/8	13.2 – 15.7	9/32	0.024	20
ACCH-8C	-8	10	ACC-8C	-8	39/64 – 47/64	15.3 – 18.5	9/32	0.024	20
ACCH-10C	-10	10	ACC-10C	-10	49/64 – 57/64	19.4 – 22.6	9/32	0.024	20
ACCH-12C	-12	10	ACC-12C	-12	15/16 – 1-1/16	23.9 – 27.1	9/32	0.024	20
ACCH-16C	-16	10	ACC-16C	-16	1-15/64 – 1-23/64	31.4 – 34.6	9/32	0.024	20

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov

5S1A Female Tube-O – Swivel – Short Pilot

SAE J2064

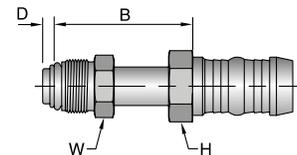


PART NUMBER	THREAD	HOSE I.D.	D		W	H	B		ADDITIONAL TOOLING REQUIRED	
	INCH	INCH	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5S1A-6-6	5/8 x 18	5/16	0.18	4.7	3/4	1/2	1.65	41.9	ACCH-6C	ACC-6C
5S1A-8-8	3/4 x 16	13/32	0.18	4.7	7/8	5/8	2.00	50.8	ACCH-8C	ACC-8C
5S1A-10-10	7/8 x 14	1/2	0.18	4.7	1-1/16	3/4	2.60	66.1	ACCH-10C	ACC-10C
5S1A-10-12	7/8 x 14	5/8	0.18	4.7	1-1/16	3/4	1.70	43.2	ACCH-12C	ACC-12C
5S1A-12-16	1-1/16 x 14	7/8	0.18	4.7	1-1/4	1.00	2.31	58.7	ACCH-16C	ACC-16C

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov

S51A Male Tube-O – Swivel – Short Pilot

SAE J2064



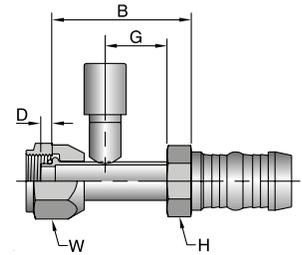
PART NUMBER	THREAD	HOSE I.D.	D		W	H	B		ADDITIONAL TOOLING REQUIRED	
	INCH	INCH	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
S51A-6-6	5/8 x 18	5/16	0.18	4.7	5/8	1/2	1.70	43.2	ACCH-6C	ACC-6C
S51A-10-12	7/8 x 18	5/8	0.18	4.7	7/8	3/4	2.00	50.8	ACCH-12C	ACC-12C
S51A-10-16	7/8 x 18	7/8	0.18	4.7	7/8	1.00	2.50	63.5	ACCH-16C	ACC-16C

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5S1A-PT

Female Tube-O – Swivel – Short Pilot with Low Pressure Charge Port for R134a

SAE J2064



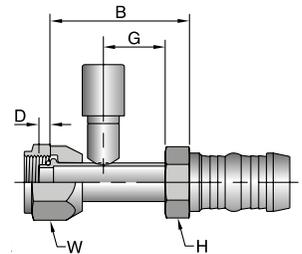
PART NUMBER	THREAD	HOSE I.D.	D		G		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5S1A-10-12-PT	7/8 x 14	5/8	0.18	4.7	1.00	25.4	1-1/16	3/4	2.25	57.2	ACCH-12C	ACC-12C
5S1A-10-16-PT	7/8 x 14	7/8	0.18	4.7	1.00	25.4	1-1/16	1.00	2.25	57.2	ACCH-16C	ACC-16C

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov

5S1A-PB

Female Tube-O – Swivel – Short Pilot with High Pressure Charge Port for R134a

SAE J2064



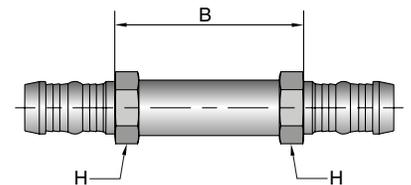
PART NUMBER	THREAD	HOSE I.D.	D		G		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5S1A-6-6-PB	5/8 x 18	5/16	0.18	4.7	0.65	16.5	3/4	1/2	1.7	43.2	ACCH-6C	ACC-6C
5S1A-8-8-PB	3/4 x 16	13/32	0.18	4.7	0.71	18.0	7/8	5/8	2.0	50.8	ACCH-8C	ACC-8C

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HU1A

Splicer Fitting

SAE J2064



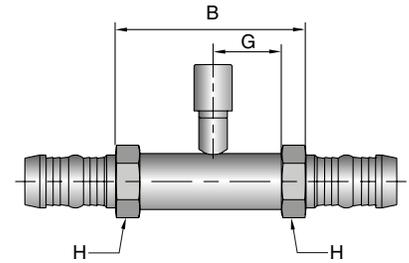
PART NUMBER	HOSE I.D.	H	B		ADDITIONAL TOOLING REQUIRED	
	INCH	INCH	INCH	MM	CHAMBER	CLIP
HU1A-6-6	5/16	1/2	1.85	46.9	ACCH-6C	ACC-6C
HU1A-8-8	13/32	5/8	1.79	45.5	ACCH-8C	ACC-8C
HU1A-10-10	1/2	3/4	1.79	45.5	ACCH-10C	ACC-10C
HU1A-16-16	7/8	1-1/8	1.85	46.9	ACCH-16C	ACC-16C

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HU1A-PT

Splicer Fitting with Charge Port for R134a

SAE J2064



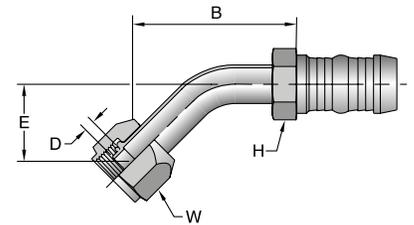
PART NUMBER	HOSE I.D.		G		H		B		ADDITIONAL TOOLING REQUIRED	
	INCH	MM	INCH	MM	INCH	MM	CHAMBER	CLIP		
HU1A-16-16-PT	7/8	31.2	1.2	31.2	1-1/8	3.40	86.4	ACCH-16C	ACC-16C	

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5H1A

Female Tube-O – Swivel – 45° Elbow – Short Pilot

SAE J2064



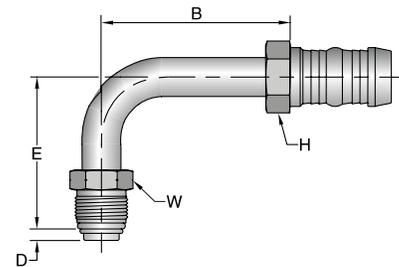
PART NUMBER	THREAD	HOSE I.D.	D		E		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5H1A-6-6	5/8 x 18	5/16	0.18	4.7	1.05	26.7	3/4	1/2	2.27	57.6	ACCH-6C	ACC-6C
5H1A-8-8	3/4 x 16	13/32	0.18	4.7	1.05	26.7	1-1/16	5/8	2.27	57.6	ACCH-8C	ACC-8C
5H1A-10-10	7/8 x 14	1/2	0.18	4.7	1.25	31.8	1-1/16	3/4	2.88	73.2	ACCH-10C	ACC-10C
5H1A-10-12	7/8 x 14	5/8	0.18	4.7	1.25	31.8	1-1/16	3/4	2.88	73.2	ACCH-12C	ACC-12C
5H1A-10-16	7/8 x 14	7/8	0.18	4.7	1.25	31.8	1.00	1.00	2.66	67.6	ACCH-16C	ACC-16C

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5K1A

Male Tube-O – Swivel – 90° Elbow – Short Pilot

SAE J2064



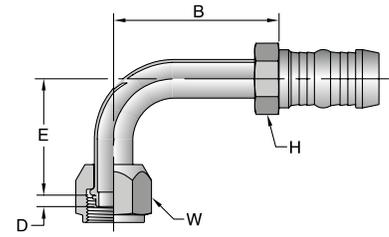
PART NUMBER	THREAD	HOSE I.D.	D		E		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5K1A-6-6	5/8 x 18	5/16	0.18	4.7	2.28	58.0	5/8	1/2	1.80	45.7	ACCH-6C	ACC-6C
5K1A-8-8	3/4 x 18	13/38	0.18	4.7	2.28	58.0	3/4	5/8	1.80	45.7	ACCH-8C	ACC-8C
5K1A-10-10	7/8 x 18	1/2	0.18	4.7	2.45	62.2	7/8	3/4	2.67	67.8	ACCH-10C	ACC-10C
5K1A-10-12	7/8 x 18	5/8	0.18	4.7	2.44	62.2	7/8	3/4	2.67	67.8	ACCH-12C	ACC-12C
5K1A-10-16	7/8 x 18	7/8	0.18	4.7	2.44	62.2	7/8	1.00	3.03	77.0	ACCH-16C	ACC-16C

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5T1A

Female Tube-O – Swivel – 90° Elbow – Short Pilot

SAE J2064



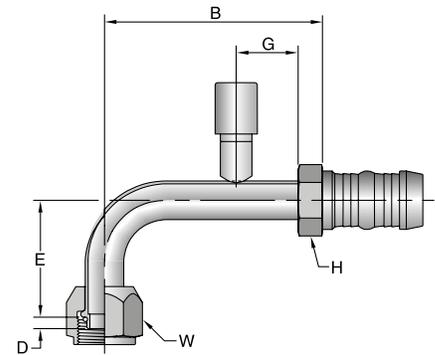
PART NUMBER	THREAD	HOSE I.D.	D		E		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5T1A-6-6	5/8 x 18	5/16	0.18	4.7	1.38	35.0	3/4	1/2	1.79	45.5	ACCH-6C	ACC-6C
5T1A-6-8	5/8 x 18	13/32	0.18	4.7	1.38	35.0	3/4	5/8	1.79	45.5	ACCH-8C	ACC-8C
5T1A-8-8	3/4 x 16	13/32	0.18	4.7	1.61	41.0	7/8	5/8	2.24	56.9	ACCH-8C	ACC-8C
5T1A-10-10	7/8 x 14	1/2	0.18	4.7	2.56	65.0	1-1/16	3/4	3.15	80.0	ACCH-10C	ACC-10C
5T1A-12-16	1-1/16 x 14	7/8	0.18	4.7	2.56	65.0	1-1/4	1.00	3.15	80.0	ACCH-16C	ACC-16C

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5T1A-PT

Female Tube-O – 90° Elbow – Short Pilot with Low Pressure Chart Port for R134a

SAE J2064



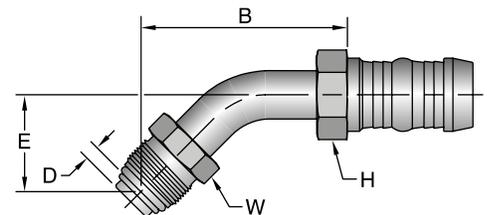
PART NUMBER	THREAD	HOSE I.D.	D		E		G		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5T1A-10-16-PT	7/8 x 14	7/8	0.18	4.7	1.89	48.0	1	25.4	1-1/16	1.00	3.52	89.4	ACCH-16C	ACC-16C

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5R1A

Male Tube-O – Swivel – 45° Elbow – Short Pilot

SAE J2064



PART NUMBER	THREAD	HOSE I.D.	D		E		W	H	B		ADDL. TOOLING REQD.	
	INCH	INCH	INCH	MM	INCH	MM	INCH	INCH	INCH	MM	CHAMBER	CLIP
5R1A-6-6	5/8 x 18	5/16	0.18	4.7	1.05	26.6	5/8	1/2	2.27	57.6	ACCH-6C	ACC-6C
5R1A-10-10	7/8 x 18	1/2	0.18	4.7	2.30	58.4	7/8	3/4	3.7	94.0	ACCH-10C	ACC-10C

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defect or other reproductive harm. For more information go to www.p65warnings.ca.gov