Perma-Cool®

High Performance Automotive Cooling

Since 1969


Perma-Cool

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High Performance Electric Fans

Primary Electric Fans

Our High Performance Electric Fans are the most powerful electric fans available and are capable of moving almost twice the volume of air as competitive models. Features include high RPM precision motors with dual ball bearing armature supports for longer life. 10" and 11" fans have high strength, glass filled nylon blades. 14", 16" and 18" fans have lightweight aluminum blade assemblies. All High Performance Electric Fans feature an open steel fan housing, a Perma-Cool® exclusive, for unrestricted air flow.

19110

10" HP Electric Fan (Puller Only)

Mounting Area Req'd. 10 1/2" x 12" x 4"
AMP Draw.....10.0
Est. CFM.....2750

fans have high strength, glass filled nylon blades

19111

11" HP Electric Fan (Puller Only)

Mounting Area Req'd. 12" x 12 1/2" x 4"
AMP Draw.....11.0
Est. CFM.....2800

fans have high strength, glass filled nylon blades

19112

12" HP Electric Fan

Mounting Area Req'd. 12 1/2" x 12 1/2" x 3 3/4"
AMP Draw.....10.0
Est. CFM.....3300

Replacement Blade Part# 19302
Replacement Motor Part# 19209

19113

13" HP Electric Fan

Mounting Area Req'd. 14" x 14" x 3 3/4"
AMP Draw.....10.5
Est. CFM.....3000

Replacement Blade Part# 19303
Replacement Motor Part# 19209

- Ideal for use as primary cooling fans
- Perfect for engine swaps
- Reversible "push/pull" for mounting on either side of the radiator (except 19110 and 19111 Puller Only)
- Patented nylon mounting system included with each electric fan
- Wiring systems with automatic thermal switch sold separately
- New more powerful chrome plated motors
- CFM Ratings measured at 0% static pressure

19114

14" HP Electric Fan

Mounting Area Required 13 ¾" x 12 ½" x 3 ¾"
AMP Draw..... 8.0
Est. CFM 2450

Replacement Blade Part# 19304
Replacement Motor Part# 19209

19115

16" HP Electric Fan

Mounting Area Required 15 ½" x 14" x 3 ¾"
AMP Draw..... 9.8
Est. CFM 2450

Replacement Blade Part# 19306
Replacement Motor Part# 19209

19117

18" HP Electric Fan

Mounting Area Req'd. 17 ¾" x 17 ¾" x 3 ¾"
AMP Draw.....10.5
Est. CFM.....2900

Replacement Blade Part# 19308
Replacement Motor Part# 19209

see page 37 for electric fan wiring systems and accessories

Standard Electric Fans
Straight Blade *Auxiliary Fans*

Our Standard Electric Fans feature high Strength, Glass filled polypropylene blade and shroud assemblies. Straight Blade design flows substantially more air than spiral blade designs. The low profile configuration is ideal for vehicles with limited space. Standard electric fans have multiple mounting locations to fit almost any application.

19127

7" Standard Electric Fan

Mounting Area Required 7 ¼" x 7" x 2 ¼"
AMP Draw.....3.0
Est. CFM.....2200

19128

8" Standard Electric Fan

Mounting Area Required 8 ¼" x 8" x 2 ¼"
AMP Draw.....4.0
Est. CFM..... 2400

19129

9" Standard Electric Fan

Mounting Area Required 9" x 9 ½" x 2 ¼"
AMP Draw.....4.5
Est. CFM.....2390

19120

10" Standard Electric Fan

Mounting Area Required 11" x 10" x 2 ¼"
AMP Draw.....4.7
Est. CFM.....2350

- Perfect for use as auxiliary cooling fans
- Reversible “push/pull” for mounting on either side of the radiator
- Patented nylon mounting system included with each electric fan
- Wiring systems with automatic thermal switch sold separately
- CFM Ratings measured at 0% static pressure

19122

12” Standard Electric Fan

Mounting Area Required 13 ¾” x 12 ½” x 2 ½”
AMP Draw.....8.0
Est. CFM.....2450

19124 (Primary Electric Fan)

14” Standard Electric Fan

Mounting Area Required 15 ½” x 14” x 4”
AMP Draw.....11.0
Est. CFM.....2650

19126 (Primary Electric Fan)

16” Standard Electric Fan

Mounting Area Required 17” x 16” x 4”
AMP Draw.....11.0
Est. CFM.....2850

see page 37 for electric fan wiring systems and accessories

Standard Electric Fans
Spiral / Curve Blade *Auxiliary Fans*

- Perfect for use as auxiliary cooling fans
- Non Reversible – Puller Fans only
- All Electric Fans require 30 Amp Fuse for start–up Protection
- Patented Nylon mounting system included with each Electric Fan (U.S. Patent 4,617,702)
- Wiring Systems with automatic thermal switch sold separately
- CFM Ratings measured at 0% static pressure

18128

8" Spiral Blade Fan

Mounting Area Required 11" x 11" x 2 ¼"
Amp Draw.....4.0
CFM.....1450

18120

10" Spiral Blade Fan

Mounting Area Required 11" x 11" x 2 ¼"
Amp Draw..... 4.0
CFM.....1450

18122

12" Spiral Blade Fan

Mounting Area Required 12 ½" x 12" x 2 ½"
Amp Draw..... 6.5
CFM.....1650

18124 (Primary Electric Fan)

14" Spiral Blade Fan

Mounting Area Required 14 ¼" x 14" x 2 ¾"
Amp Draw.....8.5
CFM.....1850

18126 (Primary Electric Fan)

16" Spiral Blade Fan

Mounting Area Required 16 ½" x 15 ¾" x 2 ¾"
Amp Draw.....9.5
CFM.....2300

see page 37 for electric fan wiring systems and accessories

Cool-Pack Direct Fit Cooling Systems

Cool Pack Radiator Cooling Systems from Perma-Cool® install in minutes for better cooling, increased horsepower and torque. The robust aluminum assembly houses dual high-output electric fans controlled by a 170°-210°F adjustable thermal sensor with a highly accurate digital temperature probe. The special black powder coated finish resists acid, fuel and oil. Cool Packs mount solidly to the radiator core support (not the radiator) and use stock mounting holes and fasteners, wherever possible. They come pre-assembled, pre-wired, and require no drilling, cutting or modifications.

19513

19510

19524

19501

Chevrolet System

19514 **88-98 Chevy/GMC Full Size Pickup**
92-03 Chevy Suburban, Tahoe, Yukon
(V8 Gas with 17" x 34" Radiator Core)

19515 **88-98 Chevy/GMC Suburban, Tahoe, Yukon**
92-03 Chevy Suburban, Tahoe, Yukon
(V8 Gas with 19" x 34" Radiator Core)

19516 **99-02 Chevy/GMC Suburban, Tahoe, Yukon**
(V8 Gas (exc.8.1L) with 17" or 19" x 34" Radiator Core)

19517 **99-02 Chevy/GMC Suburban, Tahoe, Yukon**
(V8 Gas (exc.8.1L) with 17" x 28" x 1/2" Radiator Core)

19524 **88-89 GM Silverado/Sierra**
92-203 GM Suburban/Tahoe/Yukon
(V8 Gas 17" x 28.5" Radiator Core)

Ford Systems

19501 **79-93 Mustang 4/6/8 Cyl ALL 19"X 25"**

19510 **87-96 (Full Size Pickup V8 Gas)**

19511 **97-03 Ford F150 (4.6 & 5.4 L V8)**

Jeep System

19503 **97-06 Jeep Wrangler TJ 6 Cylinder** (Single Fan System)

Toyota System

19512 **99-06 Toyota (Tundra & Sequoia V8)**

Nissan System

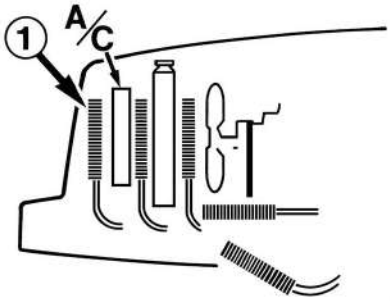
19522 **04-13 Nissan (Titan & Armada V8)**

How Transmission Oil Coolers Work

Automatic transmission generates large amounts of heat and are totally dependent on the transmission fluid for cooling. When the fluid temperature exceeds 200° the fluid deteriorates rapidly, diminishing its ability to lubricate and cool critical valves, springs, seals and other internal components, leading to premature failure and costly repairs. Over 90% of all automatic transmission failures are the caused by overheating. A 20° drop in fluid temperature can double the life of the transmission!

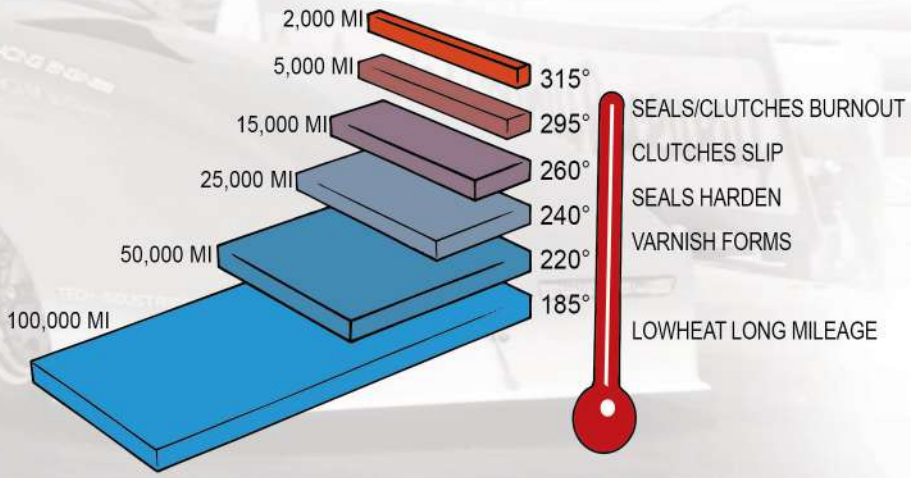
The inefficient factory cooler is located in the radiator's coolant holding tank. The hot trans fluid is cooled by transferring its heat to the colder engine coolant that surrounds it. The minimal temperature difference between the two fluids under normal conditions causes little, if any drop in the trans fluid temperature.

Perma-Cool® Trans Coolers perform best when installed in conjunction with factory cooler and mounted in the front of the radiator. With cool fluid re-entering the transmission, the valves, springs and seals perform as intended, resulting in smoother operation, positive shifts, lower floorboard temperatures and extended life. If you use your vehicle for towing, drive a recreation vehicle, a street machine with a high performance automatic transmission or a race car you need a Perma-Cool® Transmission Cooler.



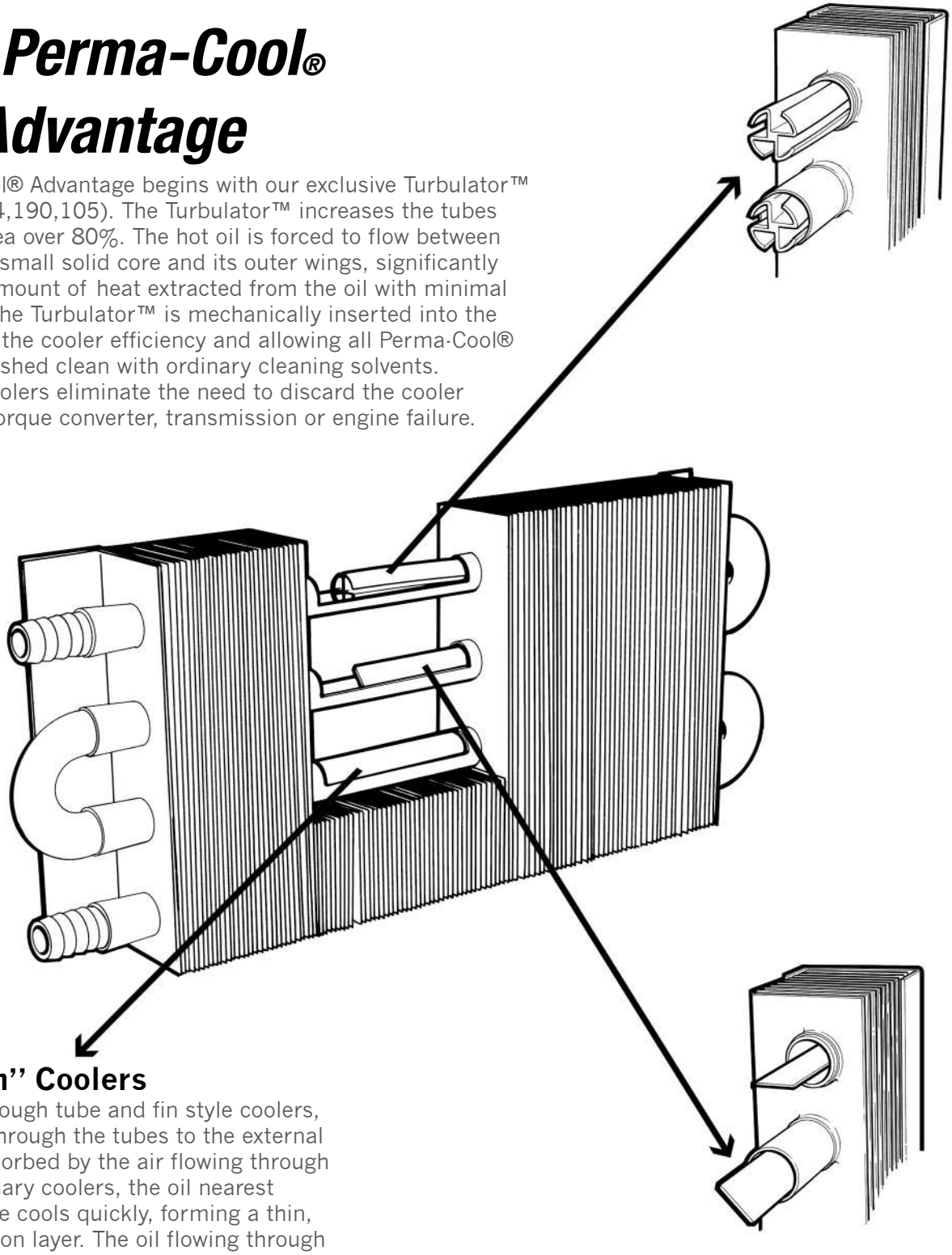
Mounting Location Efficiency

No. 1: 100% efficient in front of radiator
No. 2: 85% efficient placed on angle between frame members in front of front axle
No. 3: 75% efficient between A/C condenser and radiator
No. 4: 65% efficient between radiator and fan
No. 5: 60% efficient under fan in engine compartment



The Perma-Cool® Advantage

The Perma-Cool® Advantage begins with our exclusive Turbulator™ fin (U.S. Patent 4,190,105). The Turbulator™ increases the tubes inner surface area over 80%. The hot oil is forced to flow between the Turbulator's small solid core and its outer wings, significantly increasing the amount of heat extracted from the oil with minimal pressure drop. The Turbulator™ is mechanically inserted into the tube, increasing the cooler efficiency and allowing all Perma-Cool® Coolers to be flushed clean with ordinary cleaning solvents. Perma-Cool® Coolers eliminate the need to discard the cooler in the event of torque converter, transmission or engine failure.



"Plain" Coolers

As oil cycles through tube and fin style coolers, heat is extracted through the tubes to the external fins where it is absorbed by the air flowing through the cooler. In ordinary coolers, the oil nearest the wall of the tube cools quickly, forming a thin, sludge-like insulation layer. The oil flowing through the center of the tube remains hot, never receiving proper cooling.

"Swizzle Stick" Coolers

Some manufacturers use "Swizzle Stick" style agitators in the tubes to prevent the buildup of sludge. The result is random, uncontrolled oil flow which does little to improve the efficiency of the cooler.

Thin-Line Transmission Coolers

- Efficient Tube & Fin Design for long-lasting durability
- ½" aluminum tubes with patented turbulators
- Aircraft derived epoxy stronger and cleaner than most brazed units
- Fin Edge Guards help protect during handling & installation
- Thin-Line Transmission Coolers are meant to be ran in series with factory cooling system
- Lifetime warranty

Kit Includes Mounting Hardware

102

Trans Cooler Kit	Inlets/ Outlets	Recommended Applications	Cooler Pass Count	Trans Cooler Only	Inlets/ Outlets	GVW	Dimensions		
							Depth	Width	Length
1010	11/32" barb	Subcompact & Compact cars	4 Pass	1020	-6AN Male	12,000-14,000	3/4"	5"	12 1/2"
1011	11/32" barb	Subcompact, Compact	4 Pass	1021	-6AN Male	14,000-16,000	3/4"	5"	15 1/2"
1012	11/32" barb	Medium/Fullsize cars & Light trucks	6 Pass	1022	-6AN Male	16,000-18,000	3/4"	7 1/2"	12 1/2"
1013	11/32" barb	Fullsize Cars & Trucks, Motorhomes to 28	6 Pass	1023	-6AN Male	18,000-20,000	3/4"	7 1/2"	15 1/2"
1014	11/32" barb	Trucks and Motorhomes 28'-40' & up	8 Pass	1024	-6AN Male	22,000-24,000	3/4"	10"	15 1/2"
1015	11/32" barb	Trucks and Mini Motorhomes	8 Pass	1025	-6AN Male	20,000-22,000	3/4"	10"	12 1/2"

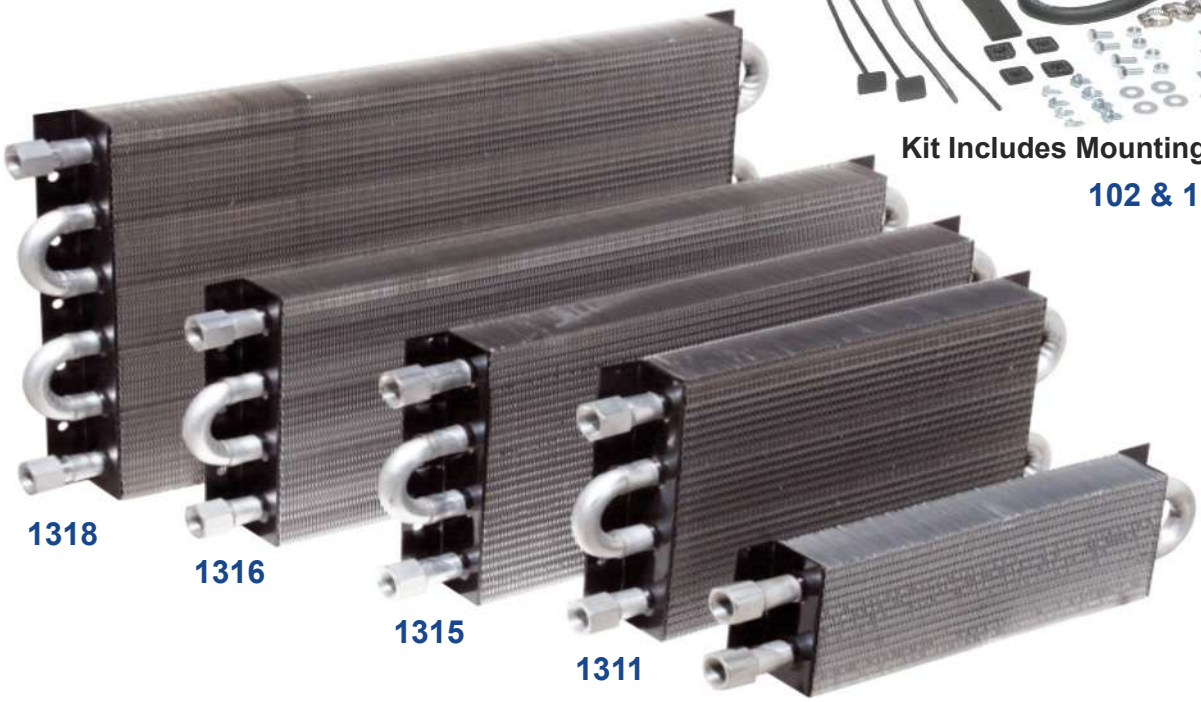
Heavy Duty Transmission Coolers

Heavy duty coolers feature 5/8" Tubes with Turbulator® cooling fins, 11/32" multi-barb fittings and durable mounting brackets for secure vehicle attachment. Systems include transmission oil hose, illustrated instructions and all necessary mounting hardware. Cooler coils are also available with optional 3/8" female pipe thread fittings for use with braided steel lines (not available in systems).

- Maximum cooling for extreme service applications
- Rugged 1 ½" thick design controls chronic overheating
- Ideal for performance vehicles with high stall speed converters
- Recommended for vehicles with electronic overdrive transmissions
- Lifetime Warranty
- 11/32 x 4' hose

Kit Includes Mounting Hardware

102 & 103



1318

1316

1315

1311

1310

Trans Cooler Only Part #	Inlets/ Outlets	Recommended Applications	Cooler Pass Count	Trans Cooler Kit Part #	Inlets/ Outlets	GVW	Dimensions		
							Depth	Width	Length
1310	3/8" NPT	Subcompact & Compact cars	2 Pass	1300	11/32" barb	12,000	1 1/2"	3 1/2"	15"
1311	3/8" NPT	Medium/Fullsize cars & Light trucks	4 Pass	1301	11/32" barb	17,000	1 1/2"	7"	15"
1315	3/8" NPT	Trucks and Motorhomes 28'	4 Pass	1305	11/32" barb	21,000	1 1/2"	7"	18"
1316	3/8" NPT	Trucks w/Campers, Motorhomes to 28'	4 Pass	1306	11/32" barb	24,000	1 1/2"	7"	21"
1318	3/8" NPT	Motorhomes 28'-40' & up	6 Pass	1308	11/32" barb	30,000	1 1/2"	10 1/2"	21"

Remote Coolers

Remote Coolers have become very popular, and for good reason: they are a perfect blend of utility and function. Traditional, ram-air coolers engine, transmission, power steering – or any combination of them, require airflow to function efficiently. This usually means putting up front behind the grille, effectively obstructing airflow needed by the coolant system to do its job. With engine compartments becoming packed with supporting hardware and related components, even if airflow IS sufficient, space is at a premium. A remote cooler, with its own fan supplying the needed airflow for heat extraction, can literally be mounted wherever space allows. Perma-Cool® offers a wide variety of sizes and styles of Remote Coolers provide a positive, leak-proof cooler that is easy to install to ensure customer satisfaction for years to come.

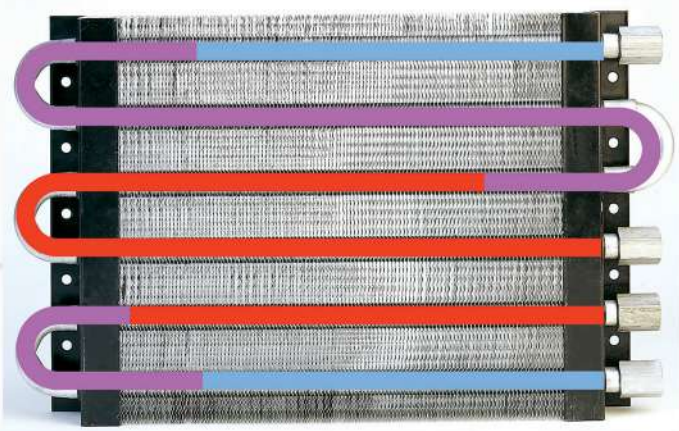
Remote Coolers

18900
Thermo Switch 3/8" NPT

Activates 12V electric fan at 185°F and shuts off at 160°F +/– Easy two-wire connection. No relay required

18900

Dual Circuit Remote Coolers



- Efficient Tube & Fin Design for long-lasting durability
- Full 5/8" aluminum tubes with patented turbulators™
- Cools two components with one compact, efficient cooler
- Features 3/8" NPT Female inlets and outlets
- Powerful, Low-Profile 10" Electric Fan
- Completely flushable
- Anodized Aluminum Fan mounting brackets
- Use Part No. 18900 (sold separately) to thermostatically control fan

A: Fluids such as; Transmission, engine
B: Fluids such as; Engine, Power Steering, Differential, Fuel

Dual Circuit Remote Coolers Part #	Cooler Only Part #	Applications	Cooler Pass Count	Amp Draw	Inlet/Outlet	Dimensions		
						Depth	Width	Length
13311	3311	Full Size Cars & Light Trucks	4/2 Pass	4.7	3/8" NPT	4"	10.5"	14"
13315	3315	Trucks with Campers	4/2 Pass	4.7	3/8" NPT	4"	10.5"	18"
13318	3318	Race & Heavy Towing	4/2 Pass	4.7	3/8" NPT	4"	10.5"	21"

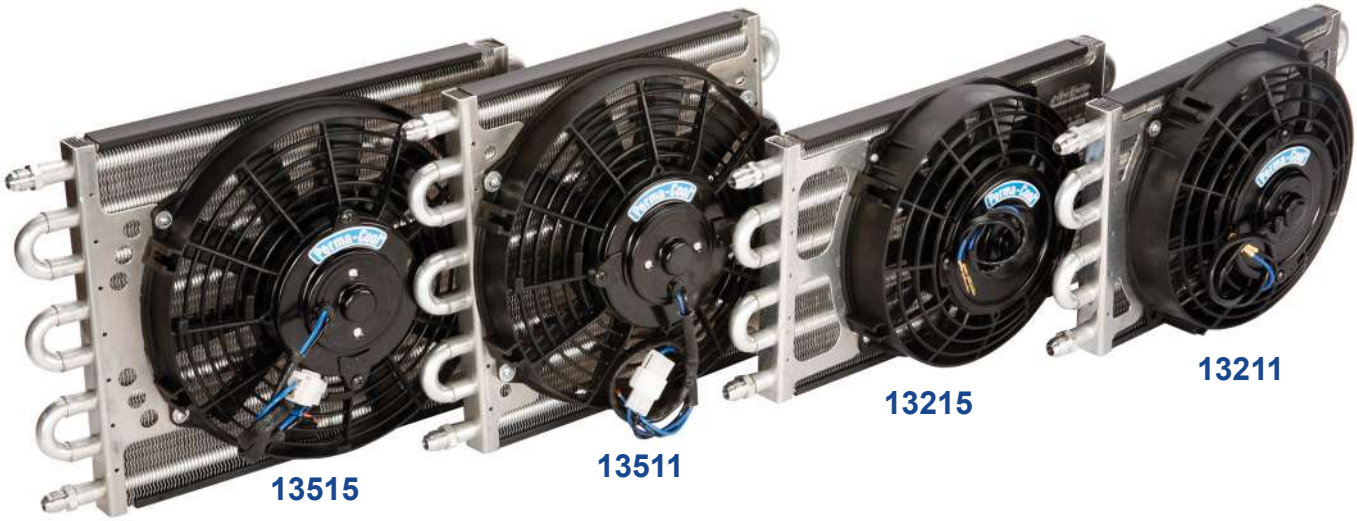
Maxi-Cool™ Junior Coolers

Maxi-Cool™ Junior Coolers are engineered to provide continuous cooling for transmission with extreme operation temperatures such as vehicles with high stall speed converters, trans brakes or racing transmissions. Maxi-Cool™ Junior Coolers feature Turbulator® heat sink inserts ½" aluminum tubes with ¾" aluminum fins. Ideal for Super Com, Super Gas and Bracket cars. Rugged metal mounting brackets solidly connect the electric fan to the cooler coil.

- Provides optimum cooling in a compact design
- Available in 6 pass and 8 pass models
- Complete kit includes hose, clamps, and neccesary mounting hardware
- Use part # 18900 to thermostatically control fan (sold separately)

18899
Thermo Switch - 6AN Male

Activates 12V electric fan at 185°F and shuts off at 160°F
Easy two-wire connection. No relay required.



13515 **13511** **13215** **13211**

Maxi-Cooler Jr. Cooler W/Fan Only Part #	Maxi-Cooler Jr. Complete Kit Part #	Applications	Cooler Pass Count	Amp Draw	Electric Fan Diameter	Dimensions			Inlet/Outlet
						Depth	Width	Length	
13211	17211	Full Size Cars & Light Trucks	6 Pass	4	8"	3"	7.5"	12.5"	-6AN Male
13215	17215	Trucks with Campers & Occasional Light Towing	6 Pass	4	8"	3"	7.5"	15.5"	-6AN Male
13511	17511		8 Pass	4.7	10"	3"	10"	12.5"	-6AN Male
13515	17515	Race & Heavy Towing	8 Pass	4.7	10"	3"	10"	15.5"	-6AN Male

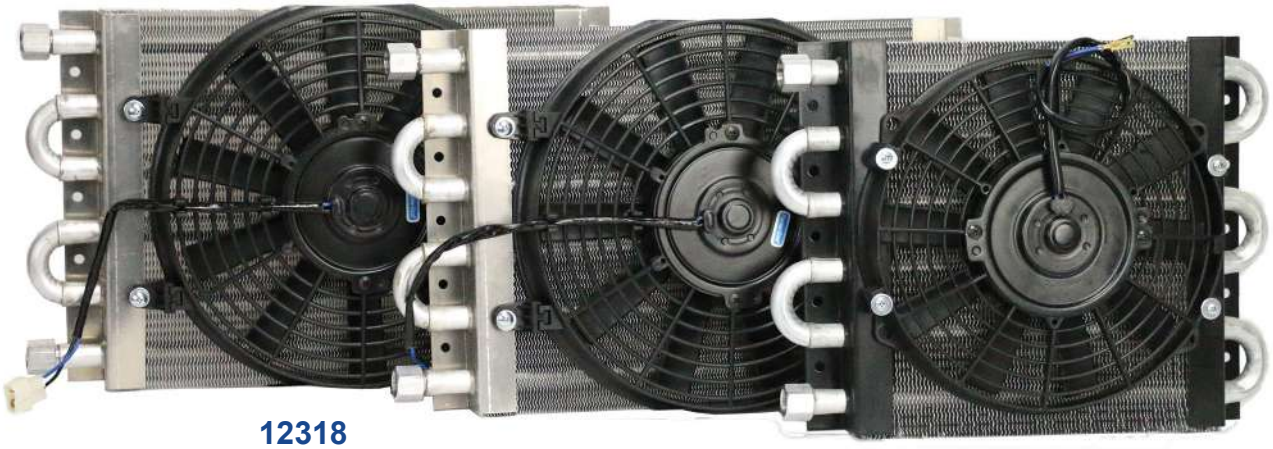
Maxi-Cool™ Six Pass

Maxi-Cool™ robust 5/8" aluminum tube and 1 ½" wide aluminum fin design features our patented Turbulator® for more efficient cooling than all other designs. For maximum cooling during high load conditions add the electric fan module. All Maxi-Cool™ cooler feature 3/8" NPT tube ends. Limited lifetime warranty. Oil hose, fan control switch and installation components available separately.

- Provides up to 95° drop in temperatures
- Cool engine or transmission
- Optional electric fan module provides maximum cooling
- Easy installation with illustrated instructions

Activates 12V electric fan at 185°F and shuts off at 160°F
Easy two-wire connection. No relay required.

18900
Thermo Switch 3/8" NPT



12318 **12315** **12311**

Maxi-Cooler Cooler Only (No Fan) Part #	Maxi-Cooler Cooler W/Fan Only Part #	Maxi-Cooler Complete Kit Part #	Applications	Cooler Pass Count	Amp Draw	Electric Fan Diameter	Dimensions			Inlet/Outlet
							Depth	Width	Length	
2311	12311	18311	Full Size Cars & Light Trucks	6 Pass	4.7	10"	4"	10.5"	14"	3/8" NPT
2315	12315	18315	Trucks with Campers & Occasional Light Towing	6 Pass	4.7	10"	4"	10.5"	18"	3/8" NPT
2318	12318	18318	Race & Heavy Towing	6 Pass	4.7	10"	4"	10.5"	21"	3/8" NPT

Remote Oil Thermostats

1060

Remote Oil Thermostat with
3/8" NPT Ports
(Recommended for Transmission)

1070

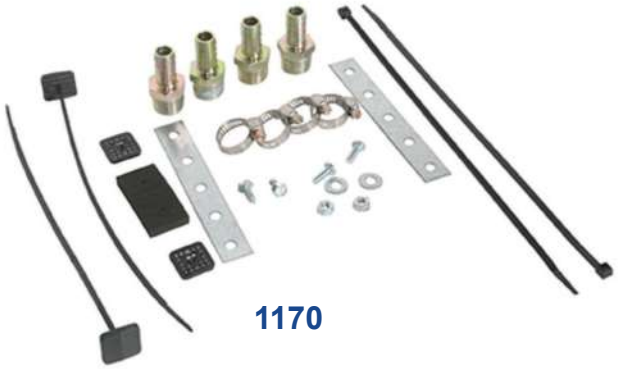
Remote Oil Thermostat with
½" NPT Ports
(Recommended for Engine
and Transmission)

1071

Remote Oil Thermostat with
-10AN (7/8" -14 SAE) Ports
(Recommended for
Race Applications)

1160

Mounting Kit for Part # 1060 for
Engine Oil
3/8" NPT X ½" hose barb.



1170

Mounting kit for part # 1070
for Engine Oil
½" NPT X ½" hose barb.

Maintaining proper oil temperature is critical in today's sophisticated engines and automatic transmissions. Installation of an auxiliary oil cooler helps keep the oil below the 200° maximum temperature. However, installation of a remote oil thermostat, in addition to an oil cooler, will help warm the oil up to operating temperatures faster. That's a plus at start up or on cold days when the oil is thick and takes longer to get into the oil galleys. When oil temperature exceeds 180° the thermostatic valve closes, allowing 95% flow through the oil cooler. At temperatures below 180° the valve is open, with 90% of the oil bypassing the cooler. The remaining 10% of the oil flows through the cooler, maintaining constant system pressure, preventing air pockets and eliminating cold oil shock. Flows up to 20 gallons per minute. Rated to 200 PSI. Thermostat mounting kits containing four brass fittings, four stainless steel hose clamps and two nylon tie mounts are sold separately. U.S. Patent 4,517,702

Automatic Transmission Filter System

10678 Standard System

- High quality cast aluminum dual **¼'' NPT side-ports** filer mount
- High temperature/high-pressure 11/32" X 4' hose
- High performance ¾"-16 transmission filter element with pressure relief
- Filter element measures 3 ¾" Dia. X 4 ¼" Long
- Brass and steel fittings & stainless hose clamps
- Mounting hardware & Illustrated installation instructions

10677 Deluxe System

- Deluxe System Features all Items in Part # 10678 plus electric temperature gauge with mounting bracket, sending unit, electrical wire and hardware.

10676 Heavy-Duty System

- High quality cast aluminum dual **½'' NPT side-ports** filter mount
- High temperature/high-pressure ½" X 5' oil hose
- High performance ¾"-16 transmission filter element with pressure relief
- Filter element measure 3 ¾" Dia. X 4 ¼" Long
- Brass and steel fittings & stainless hose clamps
- Mounting hardware & Illustrated Installation instructions

10675 Heavy-Duty Deluxe System

- Deluxe System Features all Items in Part # 10676 plus electric temperature gauge with mounting bracket, sending unit, electrical wire and hardware.

Engine Oil Cooler Systems

Most people think of their engine coolant system primarily when considering temperature control products. Though the entire top end of an engine is dependent on the cooling fan, radiator, water pump and related hardware to keep temperatures under control – the majority of enthusiast's neglect to consider the importance of keeping the bottom end cool as well.

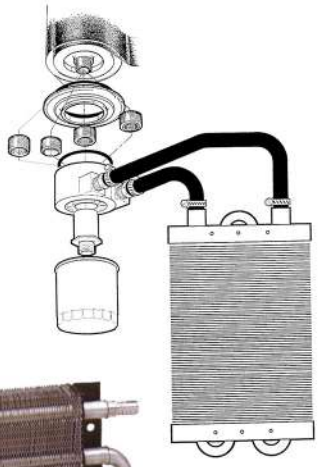
The heavy hitters in your engines bottom end; the crankshaft, connecting rods, bearings, camshaft, pistons and all of the related componentry rely solely on the oil for lubricating, cooling and for cleaning as well. Newer engines are designed to run hotter for cleaner emisions, typically coolant temperatures run between 200°-220°. Those coolant temperatures mean the engine oil is hotter yet, between 15°-50° higher and in some cases higher still. Once oil temps go beyond 200°, oil begins losing viscosity and its ability to lubricate and cool, resulting in accelerated wear and tear on vital engine components.

An engine oil cooler cannot only extend the life of the oil and the entire bottom end, they also help lower coolant temperature on the top end too. We have seen reductions in coolant t emperatures of up to 20° simply by adding an engine cooler, with no modifications to the coolant system. Plumbing an engine oil cooler is a very simple thing to do, with two easy ways to do so; via a sandwich adapter, which mounts on your engine block oil filter landing and "sandwiches" between the filter and the landing to provide oil lines that are then run to the cooler and returned. The other option is by using a spin-on adapter that routes oil to the cooler and them to separate remote oil filter mount. This type allows enthusiasts to relocate the oil filter changes a very simple and clean task.

Perma-Cool® manufactures ALL of our Engine Oil Coolers at our modern Riverside manufacturing facility. We offer a broad range of coolers for every need and budget. From our copper-tubed Headered Competition and Aluminum Coolers, designed with hardcore endurance and severe duty use in mind to our Tube & Fin ½" and 5/8" big tube coolers to our heavy duty Diesel Engine Oil Coolers, we have an application just for you. With our Lifetime Warranty on our coolers, we stand behind our products to a degree unmatched by others.

Engine Oil Coolers

Sandwich Style



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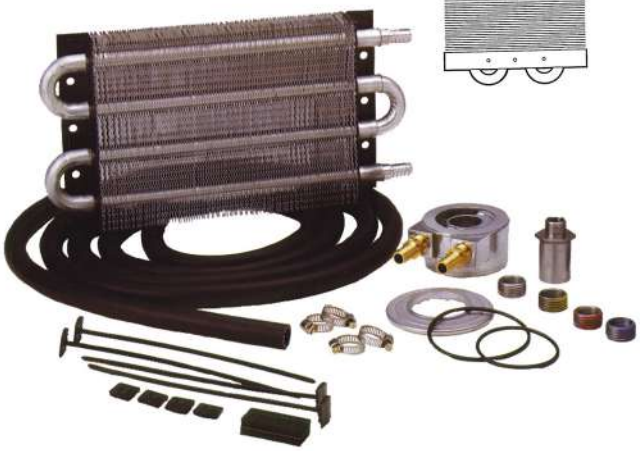

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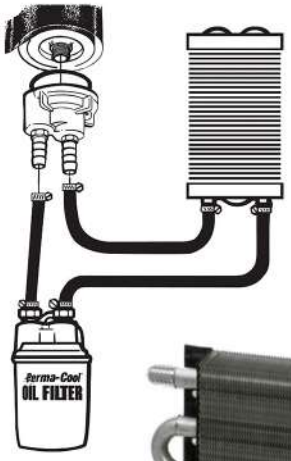
Remote Style



10195

Cooler Only	Sandwich System	Spin-On System	Cooler Pass Count	Tube Dia.	Turbulator	Cooler Dimensions			Inlet/Outlet	Recommended Use
						Depth	Width	Length		
691	69189	69195	4 Pass	5/8"	No	3/4"	7 1/2"	12 1/2"	1/2" Barb	Engines Rated to 200HP
101	10189	10195	4 Pass	5/8"	Yes	1 1/2"	7"	14"	1/2" Barb	Engines Rated to 300HP
401	40189	40195	4 Pass	5/8"	Yes	1 1/2"	7"	21"	3/8" NPT	Engines Rated to 500HP
N/A	N/A	76117	4 Pass	5/8"	No	1 1/2"	7"	15"	1/2" Barb	Engines Rated 125-200HP
N/A	N/A	76317	6 Pass	1/2"	No	2 1/4"	7 1/2"	12 1/2"	1/2" Barb	Engines Rated 75-125HP

Oil Filter Relocation Kit

72944

Dual Filter Relocation Kits
1/2" x 8 hose included

Single Filter Relocation Kits

70944 '85-'19 Chev/GMC 5.7, 6.2, 6.5, 6.6L Diesel
70956 '89-'19 Dodge/RAM 5.9, 6.7L L6 Cummins Diesel
'11-'19 Ford 6.7L V8 Powerstroke
10710 '85-'03 Ford 6.9, 7.3L Diesel (Converts to ¾"-16 Filter Thread)

Dual Filter Relocation Kits

72944 '85-'19 Chev/GMC 5.7, 6.2, 6.5, 6.6L Diesel
72956 '89-'19 Dodge/RAM 5.9, 6.7L L6 Cummins Diesel
'11-'19 Ford 6.7L V8 Powerstroke

Transmission Oil Coolers

13161 **HD Transmission Oil Cooler System**
Recommended for Dodge Cummins® Coil Size: 1 ½" X 7" X 21" **24,000 GVW**
Cooler Coil with 3/8" NPT Fittings, ½" x 5' hose included

13181 **HD Transmission Oil Cooler System**
Recommended for Dodge Cummins® Coil Size: 1 ½" X 10 ½" X 21" **30,000GVW**
Cooler coil with 3/8" NPT Fittings, ½" x 5' hose included

Diesel Engine Oil Cooler System

Sandwich Style

40836

VS

Remote Style

40110

Part No.	Applications	Cooler Pass Count	Tube Dia.	Adapter Type	Cooler Dimensions			Inlet/Outlet
					Depth	Width	Length	
40110	85-'03 Ford Powerstroke 6.9/7.3L	4 Pass	5/8"	Spin-On	1 1/2"	7"	21"	3/8" NPT
40114	85-'17 GM Diesel, 5.7/6.2/6.5/6.6L	4 Pass	5/8"	Spin-On	1 1/2"	7"	21"	3/8" NPT
40156	89-'17 Dodge Cummins 5.9/6.7L 11-17 Ford 6.7 L	4 Pass	5/8"	Spin-On	1 1/2"	7"	21"	3/8" NPT
40836	89-'17 Dodge Cummins 5.9/6.7L	4 Pass	5/8"	Sandwich	1 1/2"	7"	21"	3/8" NPT

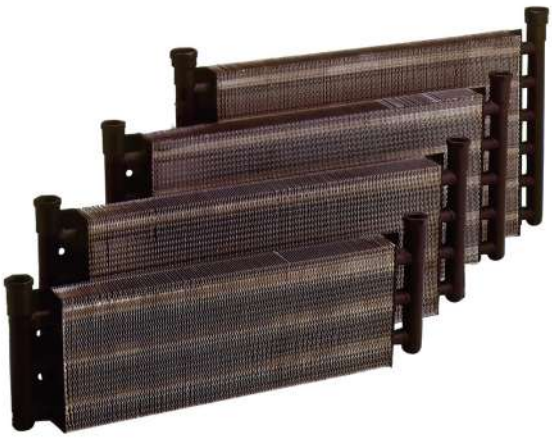
Perma-Cool knows Trucks. Whether for work or play, if your customers frequently tow heavy loads, on steep grades in the middle of summer, help them keep their cool with our Heavy-Duty Transmission Cooler Systems #13161 and #13181. And our Single and Dual Oil Filter Relocation Kits for Cummins, Powerstroke and Duromax-equipped Diesel owners allow them to keep their factory recommended oil filter while extending the life of both expensive engine components and the lubrication they count on.

Competition Oil Coolers

- Strong, Lightweight all-aluminum construction
- Full 5/8" aluminum tubes with Patented turbulators maximize heat transfer
- Aircraft derived epoxy stronger and cleaner than most brazed units
- 3/8" NPT fittings
- Continuous loop double-row design Completely flushable
- 100% Pressure tested to 300 P.S.I.
- Lifetime Warranty

Competition Oil Cooler Part No.	Recommended Applications	Cooler Pass Count	Tube Dia.	Oil Flow in GPM	Cooler Dimensions			Inlet /Outlet	Recommended Use
					Depth	Width	Length		
212	Mild Street	4 Pass	5/8"	3-10	3"	3 3/4"	12"	3/8" NPT	Stock Performance Engines 85-300HP
415	Street, Light Strip	8 Pass	5/8"	4-14	3"	7 1/4"	14"	3/8" NPT	High Performance Engines 250-450HP
515	Street, Strip, Endurance & Off Road	10 Pass	5/8"	5-16	3"	9"	14"	3/8" NPT	High Performance Engines 500-800HP
615	Modified Strip	12 Pass	5/8"	5-18	3"	10 3/4"	14"	3/8" NPT	High Performance Engines to 850-1000HP

Headered Competition Oil Coolers



- Maximum BTU Heat transfer per Volume of Oil Flow
- Single Row Coolers provide Optimal Cooling
- Full 5/8" copper tubes with Patented turbulators maximize heat transfer
- 100% Pressure tested to 300 P.S.I.
- Headered design yields highest flow rates
- Rugged construction withstands rigors of pressure spikes
- Perfect solution for low airflow environments
- Lifetime Warranty

Headered Oil Cooler Part No.	Cooler Pass Count	Tube Dia.	Oil Flow in GPM	Cooler Dimensions			Inlet /Outlet	Recommended Use
				Depth	Width	Length		
201	3 Pass	5/8"	3-10	1 1/2"	6"	18"	1/2" NPT	High Performance Engines to 450HP
202	4 Pass	5/8"	4-14	1 1/2"	8"	18"	1/2" NPT	High Performance Engines to 475HP
501	5 Pass	5/8"	4-16	1 1/2"	9 1/2"	21"	1/2" NPT	High Performance Engines to 600HP
601	6 Pass	5/8"	4-18	1 1/2"	11 1/2"	21"	1/2" NPT	High Performance Engines to 700HP

Power Steering, Fuel & ATV Cooling Systems

- Prevents premature power steering pump failure
- Ideal for circle track, off road, sprint and road racing steering systems
- Applications include RVs and 4WD vehicles
- Cools fuel for better engine performance
- Lowers fuel density and prevents vapor lock
- 11/32" x 4' oil hose included

997 Two Pass Cooler System

Coil Size 1 ½" X 2 ½" X 12"

1001 Two Pass Cooler System

Coil Size 1 ½" X 2 ½" X 7 ½"

1007 Four Pass Cooler System

Coil Size: ¾" X 5" X 7 ½"

1008 Universal ATV Oil Cooler System

Systems include oil hose, illustrated instructions and all necessary mounting hardware.

1200 Two Pass Heavy Duty Cooler System

Coil Size: 1 ½" X 2 ½" X 7 ½"

High Performance Fuel Filter/Water Separator Systems

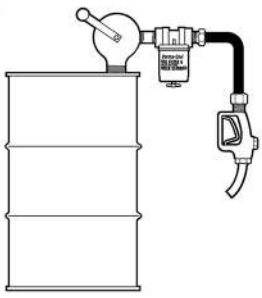
Perma-Cool® Fuel Filter/Water Separators help ensure delivery of clean and water-free fuel to your performance engine, regardless of fuel type. Whether you are running diesel, biodiesel, gasoline, E85, ethanol, methanol or gasohol, our 24,000-mile high performance filter element is perfect for the job.
Filtering down to 2 microns, our filter removes virtually ALL water from the fuel delivery system. They are not affected by fuel additives and also adaptable to industrial and marine applications. With four options to choose from, there is a perfect solution for your high performance fuel filter requirements.

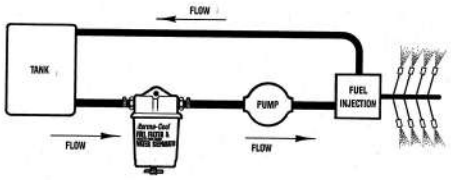
81074

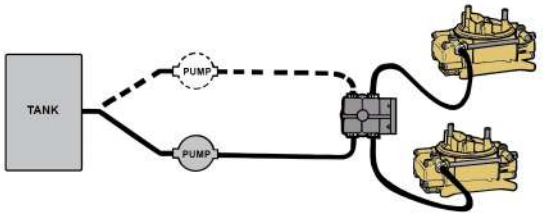
Deluxe System

- Flows up to 5 GPM
- Ideal for dual fuel pumps or dual carburetor setups
- Removes virtually ALL water from fuel
- Filters down to 2 microns
- Tested to 90 P.S.I.
- Adaptable to automotive, industrial and marine applications
- Replacement fluid filter element sold separately (Part #: 81000)
- Petcock allows easy water drainage
- Made in U.S.A.

Typical Applications







Deluxe Fuel Filter/Water Separator Systems

- 24,000 Mile Filter Element
- Designed for use with ALL fuel types
- Removes virtually ALL water from fuel
- Filters down to 2 microns
- Tested to 90 P.S.I.
- Round nylon petcock allows easy water draining
- Perfect for Automotive, Industrial and Marine applications
- Easy installation with Illustrated instructions included
- Replacement Filter element P/N: 81000 sold separately
- Four options available-Deluxe, Street Flow, High Performance and High Flow
- Made in USA

Street & High-Performance Fuel Filter Water Separator Systems

- Flows up to 5 GPM
- Ideal for dual fuel pumps or dual carb setups

84794

Street Flow Filter Head

- Cast aluminum dual ¼" NPT side-ports filter mount
- New lower profile design
- Easy installation in limited space applications
- Includes mount, filter element and two ¼" NPT plugs

81794

High Performance Filter Head

- Cast aluminum dual ½" NPT side-ports filter mount
- Includes mount, filter element and two ½" NPT plugs
- Perfect for high performance multi-carb setups

88864

High Flow Filter Head

- Industrial or fleet use
- ¾" pipe port size for high flow
- Ideal for fuel transfer

81000

Fuel Filter/Water Separator Replacement Element

- Perfect for all fuel types
- Round nylon petcock for easy water draining
- Filters down to 2 micron
- 6" long filter element

Turbo Flex®
Stainless Steel Flex Fans

Contrary to what you might have been lead to believe with parasitic loss through a mechanical, belt-driven fan – how much horsepower they use as well as the cost in fuel economy – they are still a very effective way to cool an engine.

- Improves fuel economy & engine performance
- Low profile blades perfect for limited space applications
- Heavy gauge aluminum provides years of reliable service
- Standard rotation applications only
- Available with black or chrome-plated heavy gauge steel hubs
- Natural stainless blade finish
- Specially formed blade tip design reduces fan noise
- Blades flatten out at highway speeds to reduce engine drag

Rotation

Reverse

Standard

Black Center

17" 84171 (Early Chevy 216 Motor.)
.980 thru hole
84270 (Early Chevy w/Fan Spacer)

13"

84130

Actual Diameter...13.50"
Fan Depth...1.13"
CH Spacing 1.00"- 2.00"

15"

84150

Actual Diameter...14.63"
Fan Depth... 1.19"
CH Spacing 1.38"- 2.06"

17"

84170

Actual Diameter... 16.63"
Fan Depth...1.19"
CH Spacing 1.50"- 2.13"
Early Chevy 235 Motor

18"

84180

Actual Diameter...17.38"
Fan Depth...1.25"
CH Spacing 1.38"- 2.06"

Chrome Center

CH Spacing = Center Hole Spacing

13"

94130

Actual Diameter...13.50"
Fan Depth...1.13"
CH Spacing 1.00"- 2.00"

15"

94150

Actual Diameter...14.63"
Fan Depth... 1.19"
CH Spacing 1.38"- 2.06"

17"

94170

Actual Diameter... 16.63"
Fan Depth...1.19"
CH Spacing 1.50"- 2.13"

18"

94180

Actual Diameter...17.38"
Fan Depth...1.25"
CH Spacing 1.38"- 2.06"

- Wide paddle blades move higher volumes of air
- Standard/Reverse rotation applications available
- Perfect for full-sized trucks used for regular or heavy duty towing
- Provide extra cooling for supercharged & turbocharged engines

CH Spacing = Center Hole Spacing

Turbo-Flex® HP Flex Fans

13”

Standard: 85130
Reverse: N/A
Actual Diameter...12.75”
Fan Depth...1.75”
CH Spacing 1.00”- 2.00”

15”

Standard: 85150
Reverse: 86150
Actual Diameter...14.75”
Fan Depth...1.69”
CH Spacing 1.38”- 2.06”

17”

Standard: 85170
Reverse: 86170
Actual Diameter...16.75”
Fan Depth...1.63”
CH Spacing 1.38”- 2.06”

18”

Standard: 85180
Reverse: 86180
Actual Diameter...17.63”
Fan Depth...1.63”
CH Spacing 1.38”- 2.06”

19”

Standard: 85190
Reverse: 86190
Actual Diameter...18.69”
Fan Depth...1.75”
CH Spacing 1.38”- 2.06”

20”

Standard: 85200
Reverse: 86200
Actual Diameter...19.50”
Fan Depth...1.81”
CH Spacing 1.38”- 2.06”

13”

Standard: 95130
Reverse: N/A
Actual Diameter...12.75”
Fan Depth...1.75”
CH Spacing 1.00”- 2.00”

15”

Standard: 95150
Reverse: 96150
Actual Diameter...14.75”
Fan Depth...1.69”
CH Spacing 1.38”- 2.06”

17”

Standard: 95170
Reverse: 96170
Actual Diameter...16.75”
Fan Depth...1.63”
CH Spacing 1.38”- 2.06”

18”

Standard: 95180
Reverse: 96180
Actual Diameter...17.63”
Fan Depth...1.63”
CH Spacing 1.38”- 2.06”

19”

Standard: 95190
Reverse: 96190
Actual Diameter...18.69”
Fan Depth...1.75”
CH Spacing 1.38”- 2.06”

20”

Standard: 95200
Reverse: 96200
Actual Diameter...19.50”
Fan Depth...1.81”
CH Spacing 1.38”- 2.06”

Turbo Flex Aluminum Flex Fans

- Improves fuel economy and engine performance
- Low Profile blade design only 1.25” deep for limited space applications
- Standard Rotation applications only
- Specially formed blade tip design reduces fan noise
- Blades flatten out at highway speeds to reduce engine drag

CH Spacing = Center Hole Spacing

Blue Blade / Black Center

17”
Standard: 83171
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 83181
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Red Blade / Black Center

17”
Standard: 83172
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 83182
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Black Blade / Black Center

17”
Standard: 83175
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 83185
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Blue Blade / Chrome Center

17”
Standard: 93171
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 93181
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Red Blade / Chrome Center

17”
Standard: 93172
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 93182
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Black Blade / Chrome Center

17”
Standard: 93175
Actual Diameter...16.63”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

18”
Standard: 93185
Actual Diameter..17.38”
Fan Depth...1.25”
CH Spacing 1.38” - 2.06”

Fan Spacers

Universal Fit Fan Spacers

24050
1/2" Spacer
5/8" male, 5/8" female

24100
1" Spacer
5/8" male, 3/4" female

24150
1 1/2" Spacer
5/8" male, 3/4" female

24200
2" Spacer
5/8" male, 3/4" female

24225
2 1/4" Spacer
5/8" male, 3/4" female

24250
2 1/2" Spacer
5/8" male, 3/4" female

Specific Fit Fan Spacers

22051
1/2" Spacer
thru. hole diameter .980"
includes 1/4"-20 thread bolts

23119
1" Spacer
thru. hole diameter 1.190"
includes M6 & M8 X 1.5mm bolts

23125
2" Spacer
thru. hole diameter 1.250"
includes M6 & M8 X 1.5mm bolts

23118
2" Spacer
thru. hole diameter fits Ford Hub Thread
includes M8 X 1.5mm bolts

Mounting Hardware
Specific fit applications incluide necessary mounting hardware

Universal Spacers Include:
Die cast alumium fan spacers with 5/8" male pilot and 3/4" female pilot hole. Comes with bushing to reduce 5/8" female pilot and 5/16" plated NC and NF Mounting hardware

Oil Filter Relocation
Deluxe Systems

Fast and easy oil changes are now possible thanks to pur Oil Filter Relocation Systems. These kits contain all the parts needed to move the oil filter to a more convient locationin the engine compartment. The kit contains an adoptar to covert the stock filter landing on the engine block to an oil passage, yoiur chose of a single or dual remote filter mount. Uses the factory style oil filter.

70911

Deluxe Single Remote

Deluxe Single Remote System	Engine Thread	Filter Thread	Inlet/Outlet Ports Left/Right	Filter Landing
70911	3/4"-16	3/4"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
70922	M18 x 1.5	M18 x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"
70944	13/16"-16	13/16"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
70956	1"-16	1"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
70966	M20x 1.5	M20x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"
70988	M22x 1.5	M22x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"

- Available in single or dual remote oil filter mount
- Provides extra clearance for engine swaps
- Increases oil capacity
- Moves filter to a convenient location
- Keeps original OE factory filter thread

72911

Deluxe Dual Remote

Deluxe Dual Remote System	Engine Thread	Filter Thread	Inlet/Outlet Dual Ports L/R	Filter Landing
72911	3/4"-16	3/4"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
72922	M18 x 1.5	M18 x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"
72944	13/16"-16	13/16"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
72956	1"-16	1"-16	1/2" NPT (x2)	2 1/4"-3 1/8"
72966	M20x 1.5	M20x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"
72988	M22x 1.5	M22x 1.5	1/2" NPT (x2)	2 1/4"-3 1/8"

Oil Filter Relocation Standard Systems

10611

10711

Standard Single Remote System

Standard Single Remote System	Engine Thread	Filter Thread	Inlet/Outlet Ports		Filter Landing
			Spin On Adapter	Filter Mount	
10611	3/4"-16	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"
10612	M18 x 1.5	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"
10613*	See Note Below	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"
10614	13/16"-16	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"
10616	M20x 1.5	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"
10618	M22x 1.5	3/4"-16	1/2" NPT	3/8" NPT Ports Up	2 1/4"-3 1/8"

Standard Dual Remote System

Standard Dual Remote System	Engine Thread	Filter Thread	Inlet/Outlet Ports		Filter Landing
			Spin On Adapter	Filter Mount	
10710	1 1/2"-16	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10711	3/4"-16	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10712	M18 x 1.5	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10713*	See Note Below	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10714	13/16"-16	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10716	M20 x 1.5	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10718	M22 x 1.5	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"
10756	1"-16	3/4"-16	1/2" NPT	1/2" NPT R/L (x2)	2 1/4"-3 1/8"

* **Note:** Conister to Spin-On adapter early Chevy V8

Universal Engine Oil Filter Relocation Systems

Universal Engine Oil Filter Kit Fits ¾"-16, 13/16"-16, 1"-12, 18 X 1.5mm, 20 X 1.5mm and 22 X 1.5mm thread sizes. 1 7/8" thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" and 3 1/8" O-Rings Included.U.S. Patent 5,291,969.

- Dual filter system doubles oil filtration
- Universal coverage, fits 98% of all automotive applications

10695

10795

Remote Oil Filter Mounts

- Die cast from aerospace quality aluminum
- CNC machined port and filter threads

Ports Up Filter Mounts

1/4" NPT	3/8"NPT	1/2" NPT	Filter Thread	Filter Landing
5011	1761	1211	3/4"-16	2 1/4"-3 1/8"
N/A	N/A	1213	13/16"-16	2 1/4"-3 1/8"
5014	1764	1214	1"-14	2 1/4"-3 1/8"
5015	1765	1215	1"-12	2 1/4"-3 1/8"
5016	1766	1216	1"-16	2 1/4"-3 1/8"

1211
Ports Up

Ports Left / Right

1/4" NPT	1/2" NPT	Filter Thread	Filter Landing
4791	1791	3/4"-16	2 1/4"-3 1/8"
N/A	1793	13/16"-16	2 1/4"-3 1/8"
4794	1794	1"-14	2 1/4"-3 1/8"
4795	1795	1"-12	2 1/4"-3 1/8"
4796	1796	1"-16	2 1/4"-3 1/8"

1791
Single Ports Left / Right

Ports Left

3/8" NPT	1/2" NPT	Filter Thread	Filter Landing
1721	1701	3/4"-16	2 1/4"- 3 1/8"
1724	1704	1"-14	2 1/4"- 3 1/8"
1725	1705	1"-12	2 1/4"- 3 1/8"
1726	1706	1"-16	2 1/4"- 3 1/8"

1701
Ports Left

Remote Oil Filter Mounts

- Allows more plumbing options when space is at a premium or gives ability to use temp sensor on aux. ports. Includes 2 pipe plugs.

1731
Ports Right

Ports Right

3/8" NPT	1/2" NPT	Filter Thread	Filter Landing
1731	1711	3/4"-16	2 1/4"-3 1/8"
1734	1714	1"-14	2 1/4"-3 1/8"
1735	1715	1"-12	2 1/4"-3 1/8"
1736	1716	1"-16	2 1/4"-3 1/8"

1221
Dual Mount
Ports Left / Right

Dual Ports Left / Right

1/2" NPT	Type	Filter Thread	Filter Landing
1221	Ports L/R	3/4"-16	2 1/4"-3 1/8"
1223	Ports L/R	13/16"-16	2 1/4"-3 1/8"
1226	Ports L/R	1"-16	2 1/4"-3 1/8"

6630
Super Filter Mount

Super Filter Mount

Part No.	Port Size	Type	Filter Thread	Filter Landing
6630	3/4" NPT	Ports L/R	1 1/2"-12	3 1/2"-4 5/16"
6730	-12 AN	Ports L/R	1 1/2"-12	3 1/2"-4 5/16"

Spin-On Oil Adapters

Thd = Thread Sizes

111

Spin-On Oil Adapters 1/2" NPT Ports

111
Thd ¾"-16
O-Ring 2 1/2"

112
Thd M18 X 1.5
O-Ring 2 1/2"

1114
Thd 13/16"-16
O-Ring 2 1/2"

1116
Thd M20 X 1.5
O-Ring 2 1/2"

114

114
Thd 13/16"-16
O-Ring
2 1/2"- 3 1/8"

115
Thd 1"-12
O-Ring
2 1/2"- 3 1/8"

116
Thd M20 X 1.5
O-Ring
2 1/2"- 3 1/8"

118
Thd M22 X 1.5
O-Ring
2 1/2"

1156
Thd 1"-16
O-Ring
2 1/2"- 3 1/8"

2840
Thd1-1/2"-16
O-Ring
3 1/8" - 3 5/8"

195

Universal Spin-On Oil Adapters 3/8" NPT Ports

195
Fits ¾"-16, 13/16"-16, 1"-12, 18 X 1.5mm, 20 X 1.5mm, 22 X 1.5mm thread sizes. 3/8" NPT ports. For use with ½" oil hose. 2 ½" and 3 1/8" O-Rings included. U.S. Patent 5,291,969.

2791

Dual Port Oil Adapters Fixed Port Style 1/2" NPT Ports

2791
Thd ¾"-16
O-Ring 2 1/2"

2792
Thd M18 X 1.5
O-Ring 2 1/2"

2794
Thd 13/16"-16
O-Ring 2 1/2"

2796
Thd M20 X 1.5
O-Ring 2 1/2"

2798
Thd M22 X 1.5
O-Ring....2 1/2"

Dual ports right and left provides a choice for both inlet and outlet hose locations, ideal for engine swaps where space in at a minimum. Both inlet and outlet ports can be used for high volume oil flow. Includes 2 pipe plugs.

3791

Dual Port Oil Adapters Adjustable Port Style 1/2" NPT Ports

3791
Thd ¾"-16
O-Ring 2 1/2"

3792
Thd M18 X 1.5
O-Ring 2 1/2"

3794
Thd 13/16"-16
O-Ring 2 1/2"

3796
Thd M20 X 1.5
O-Ring 2 1/2"

3798
Thd M22 X 1.5
O-Ring 2 1/2"

- Aerospace quality aluminum castings
- Problem solving components

Bolt-On Filter Adapters

113
Bolt-On Adapter

Converts GM canister on 1956 and later Chevy and GMC V8s for use with remote oil cooler and /or a remote oil filter. ½" NPT ports. O-Ring, gasket and bolts for early and late models applications included. Brass fittings and AN adapters sold separately.

1134
Canister to Spin-On Oil Filter Adapter

Replaces stock oil filter canister to 13/16"-16 spin-on filter with 3 1/8" O-Ring, gasket and bolts for early and late applications included.

1135
Chevrolet Oil Filter Adapter

Replaces the factory oil filter mounting plate. Eliminates the oil filter bypass resulting in continuous filtration and cleaner oil. Includes all mounting hardware and installation instructions.

117
VW Bolt-On Block Off Adopter

Use when replacing factory oil cooler to reroute oil to remote oil cooler or filter. 3/8" NPT ports. Complete with special gasket. For air cooled engines only. Brass fittings and AN adapters sold separately.

14845
Chevrolet Filter Bypass Relief Valve Plug

Converts to full flow System by omitting low pressure relief valve. Please note: one plug per package. Shown larger than actual part.

1201
Block Off Adapter

Fits ¾"-16 Threads. Designed to fit Ford, Chrysler and Dodge Applications. 2 ½" O-Ring.

Sandwich Oil Adapter

- Add a remote oil cooler without relocating the oil filter
- Universal Kit covers 90% of all automotive applications
- Made in U.S.A.

Perma-Cool® Sandwich adapters are installed between the oil filter landing on the engine block and the oil filter to route the oil to a remote oil cooler. They are die cast from aerospace quality aluminum and machine finished on our CNC production line. O-Rings and illustrated instructions included. Brass fittings and AN adapters sold separately.

181

Sandwich Adapters 1" Thick 2 1/2" O-Ring

181 Fits ¾"-16 thread sizes. Designed to fit most Fords, Chryslers and Dodges. 1" Thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" O-Ring included. U.S. Patent 4,335,688.

1814 Fits 13/16"-16 thread sizes. Designed to fit most GM's/small filter landing. 1" Thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" O-Ring included. U.S. Patent 4,335,688.

182 Fits 18 X 1.5mm thread sizes. Designed to fit most GM V6s. 1" Thick. 3/8" NPT Ports For use with ½" oil lines. 2 ½" O-Ring included. U.S. Patent 4,335,688.

1816 Fits 20 X 1.5mm Thread sizes. Designed to fit most early imports including Honda, Mazda and Mitsubishi. 1" thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" for obstructed area.

188 Fits 22 X 1.5mm thread sizes. Designed to fit late model Ford V8s and some Hondas. 1" thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" O-Ring included. U.S. Patent 4.335.688.

1836 Fits 1"- 16 thread sizes. Designed to fit '89-'19 Dodge/RAM 5.9, 6.7L L6 Cummins Diesel '11-'19 Ford 6.7L V8 Powerstroke. 1" 5/8 thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" O-Ring included. U.S. Patent 4.335.688.

185

Sandwich Adapters 1 7/8" Thick 3 1/8" O-Ring

Fits 13/16"-16 threads. Designed to fit most small and big block Chevy V8s with recessed filter landing. 1 7/8" thick. 3/8" NPT ports for use with ½" oil lines. 3 1/8" O-Ring included. U.S. Patent 4,335,688.

184

185

Sandwich Adapters 1" Thick 2 1/2" & 3 1/8" O-Ring

184 Fits 13/16"-16 thread sizes. Designed to fit most early GM 4 and 6 Cylinders and Cadillac, Oldsmobile and Pontiac V8s. 1" Thick. 3/8" NPT port for use with ½" oil lines. 2 ½" and 3 1/8" O-Rings included. U.S. Patent 4,335,688.

186 Fits 20 X 1.5mm Thread sizes. Designed to fit most early imports including Honda, Mazda and Mitsubishi. 1" thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" and 3 1/8" O-Rings included. U.S. Patent 4.335.688.

189

Universal Sandwich Adapter

Fits ¾"-16, 13/16"-16, 1"-12, 18 X 1.5mm, 20 X 1.5mm and 22 X 1.5mm thread sizes. 1 7/8" thick. 3/8" NPT ports for use with ½" oil lines. 2 ½" and 3 1/8" O-Rings Included. U.S. Patent 5,291,969.

189

Performance Fittings & Accessories


15165

Straight Hose Barbs

15148 1/8" x 3/8" HB (2)
15149 1/4" x 1/2" HB (2)
15150 1/4" x 3/8" HB (2)
15152 3/8" x 3/8" HB (2)
15153 3/8" x 1/2" HB (2)
15154 1/2" x 5/8" HB (2)
15155 1/2" x 3/8" HB (2)
15156 1/2" x 1/2" HB (2)
15175 3/8"SAE x 3/8" HB (1)
15165 (Trans Fitting) 11/32" HB x 5/16" SAE
15179 Ford Transmission Adapter Kit
15265 -6 AN (F) x 3/8" HB (2)


15145

NPT Plugs

15142 1/8" NPT Plug (1)
15143 1/4" NPT Plug (1)
15144 3/8" NPT Plug (1)
15145 1/2" NPT Plug (1)
15180 3/4" NPT Plug (1)


15172

90° Hose Barbs

15167 1/8" x 3/8" (2)
15169 1/2" x 5/8" (1)
15170 1/4" x 3/8" HB (2)
15172 3/8" x 1/2" HB (2)
15173 3/8" x 3/8" HB (2)


139

Oil Hose 1/2" (Engine)

131 5' Length
139 8' Length
132 11-½' Length
138 25' Length

Oil Hose 11/32" (Transmission)

130 4' Length
133 25' Length

NPT Bushings

15138 1/4" NPT x 1/8" NPT (1)
15161 1/2" NPT x 1/8" NPT (1)
15162 1/2" NPT x 3/8" NPT (2)
15163 3/4" NPT x 1/2" NPT (2)
15164 3/8" NPT x 1/8" NPT (1)


15163

45°/90° Adapters

15157 3/8" NPT x 3/8" NPT 90° (2)
15158 1/2" NPT x 1/2" NPT 90° (2)
15160 3/8" NPT x 3/8" NPT 45° (2)


15157

Aluminum Bushings and Plugs

15402 -10AN to 1/8" NPT
15422 -12AN to 1/8" NPT
15409 -10AN Plug
15429 -12AN Plug


15402

Teflon Tape Roll

15146 1/2" x 310" Length

15146

Stainless Steel Clamps

14006 Mini #6
14008 Standard #8


14008

Electric Fan Accessories

19001

Electric Fan 12V Toggle Switch

Manual toggle switch (30A), mounting bracket, connectors

18902

Heavy Duty 30-Amp Wiring System

Heavy-duty 30 amp relay and wiring harness for use with dual electric fan installations. Wiring diagram and illustrated instructions are included.

19002

30 Amp A/C Relay

30 amp air conditioning relay activates electric fan when air conditioning turned on (recommended for single fan).

19006

Electric Fan Relay Switch

60 Amp Dual 30/40 relay activates electric fan when air conditioning is turned on (recommended for two fans).

Non-Adjustable Wiring System

19003

180°F Thermal Switch only

19001

Wiring System

180°F Thermal Switch

System includes all components for electric fan installation: 180°F automatic thermal switch, insulated wire, wire connectors, fuse block power taps, in-line fuse holder with 30 amp fuse, wiring diagrams for single and dual fan installations and illustrated instructions

19007

Wiring System

180°F Threaded Thermal Sensor

System includes all of the components for a single fan installation. 180°F automatic thermal switch with ½" male pipe threads, insulated wire, wire connectors, fuse block power taps, in-line fuse holder with 30 amp fuse, wiring diagrams for single and dual fan applications and illustrated instructions. Dual fans require a 30 amp relay, part number 19002, sold separately.

19107

180°F Threaded Thermal Sensor Only

Adjustable Wiring System

Systems includes all of the components for single fan installation. 170°F-210°F adjustable thermal switch module with unique silicon chip temperature sensor that ensures accurate temperature readings to within ± 1°F. Pre-wired module wiring harness, fuse block power taps, in-line fuse holder with 30 amp fuse, wiring diagrams for single and dual fan applications and illustrated instructions are included. Dual fans require an additional relay, part number 18902, sold separately.

18905

Adjustable Wiring System

Probe Type Thermal Sensor

Probe type temperature sensor mounted between the radiator fins.

18907

Adjustable Wiring System

Threaded Thermal Sensor

Temperature sensor with 3/8" male pipe threads and ½" male pipe Thread bushing.

21006

Replacement Probe Type Thermal Sensor Only

21276

Replacement Threaded Thermal Sensor Only