

OIL COOLER COMPONENTS

COOLING SYSTEMS

OIL FILTER BY-PASS ADAPTERS

CROSSED OUT ITEMS HAVE BEEN DISCONTINUED

Many installations, particularly oil cooler installations, require the oil filter to be relocated. Earl's has bypass adapters for most spin-on and many bolt-on applications. They are quick and easy to install. All ports are 1/2" NPT female unless otherwise noted.


	PART NO.	THREAD	PORT SIZE	O-RING O.D.	O-RING CROSS SECTION
	1177ERL	3/4-16	1/2 NPT	2-3/4" (69.2mm)	.139
	1178ERL	3/4-16	1/2 NPT	2-3/4" (69.2mm)	.139
TYPICAL APPLICATIONS* Most Ford, Chrysler, Toyota, Nissan & V-W vehicles with spin-on filter. Many other foreign makes.					
	1277ERL	1-3/16-16	1/2 NPT	2-3/4" & 3-3/8" (inner 69.2mm) (outer 85mm)	.139
TYPICAL APPLICATIONS* Most General Motors and American Motors vehicles with spin-on filter.					
	1377ERL	Bolt on (Chevy) 1/4-20 & 5/16-18 Bolts	1/2 NPT	-	-
TYPICAL APPLICATIONS* Chevrolet V-8 without spin-on filter. (Includes both bolt sizes and supercedes 1477).					
	1577ERL	18mm x 1.5	1/2 NPT	2-3/4" (69.2mm)	.139
	1578ERL	18mm x 1.5	1/2 NPT	2-3/4" (69.2mm)	.139
TYPICAL APPLICATIONS* Some General Motors vehicles with spin-on filter.					
	1677ERL	Bolt On (V.W.)	3/8 NPT	-	-
TYPICAL APPLICATIONS* V-W Type 1 and 2, 3/8 NPT ports					

*If you are unsure which adapter your vehicle requires or don't find your vehicle listed, please call factory for correct part number.

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	PART NO.	THREAD	PORT SIZE	O-RING O.D.	CROSS SECTION
	1777ERL	Bolt-On (VW)	1/4 NPT	-	-
	TYPICAL APPLICATIONS* VW Type 1 and 2, 1/4 NPT ports				
	1877ERL	22mm x 1.5	1/2 NPT	2-3/4" (69.2mm)	.139
	TYPICAL APPLICATIONS* Many Honda and Acura vehicles. Some Ford.				
	1977ERL	20mm x 1.5	1/2 NPT	2-3/4" & 3-3/8" (inner 69.2mm) (outer 85mm)	.139
	TYPICAL APPLICATIONS* Many Honda and Acura vehicles. Some Ford.				
	1118ERL	3/4-16	1/2 NPT	2-1/2 (65mm)	.210
	TYPICAL APPLICATIONS* Nissan, Toyota, Suzuki				
	1119ERL	20mm x 1.5	1/2 NPT	2-1/2 (65mm)	.210
	TYPICAL APPLICATIONS* Nissan, Subaru, Holden				
	1120ERL	13/16-16	1/2 NPT	2-1/2 (65mm)	.210
	TYPICAL APPLICATIONS* GM - small canister				
	1121ERL	22mm x 1.5	1/2 NPT	2-1/2 (65mm)	.210
	TYPICAL APPLICATIONS* Honda, Acura				

*If you are unsure which adapter your vehicle requires or don't find your vehicle listed, please call factory for correct part number.

REMOTE OIL FILTER MOUNTS

USE THESE TEMP-A-CURE quality oil filter mounts from Earl's to relocate your oil filter. Machined from billet or cast from lightweight aluminum, these remote mounts are especially useful in high performance vehicles where quick, easy access to an oil filter is desired.

	DOUBLE PART NO.	CENTER THREAD	PORT SIZE
	2377ERL	3/4-16	1/2 NPT
USE FILTER: Fram filters PH-8 or HP-1 (or equivalent)			

	SINGLE PART NO.	CENTER THREAD	PORT SIZE
	2178ERL	3/4-16	1/2 NPT
	2177ERL	3/4-16	1/2 NPT
USE FILTER: Fram filters PH-8 or HP-1 (or equivalent)			
	2277ERL	3/4-16	1/2 NPT
USE FILTER: Fram filters PH-8 or HP-1 (or equivalent)			
	2477ERL	13/16-16	1/2 NPT
USE FILTER: Fram HP-2 (or equivalent)			

OIL THERMOSTAT

TO INSURE quick warm up under cold weather conditions, use our oil-stat. This uniquely designed product controls oil temperature like a thermostat controls water temperature in a radiator. The three sensor ports allow monitoring of oil temperature, flow and pressure. Designed for passenger car, marine and truck usage with Earl's TEMP-A-CURE oil coolers.

PART #	501ERL
Fitting Size	-10 AN Female O-Ring Seal
Starts to Open	160° Fahrenheit
Fully Open	180° Fahrenheit






*See page 121 for proper inline assembly

OIL COOLER COMPONENTS

COOLING SYSTEMS




BILLET ALUMINUM SANDWICH STYLE OIL THERMOSTAT

As in our remote oil thermostat these units facilitate quick oil warm up. These units mount between the oil filter mounting boss and the oil filter itself. **Opening starts at 160° / Fully open at 180°**

	PART NO.	CENTER PORT SIZE	PORT SIZE	O-RING O.D.	O-RING CROSS SECTION
	502ERL	3/4-16	10 AN Female O-Ring Seal	inner 2.887, outer 3.387	.139
	Typical Applications* Most Ford, Chrysler, Toyota, Nissan & V-W vehicles with spin-on filter. Many other foreign makes.				
	503ERL	13/16-16	10 AN Female O-Ring Seal	inner 2.887, outer 3.387	.139
	Typical Applications* Most General Motors and American Motors vehicles with spin-on filter.1				
	504ERL	13/16-16	10 AN Female O-Ring Seal	inner 2.887, outer 3.387, spacer 3.77	.139 .210
	Typical Applications* Most Chevy V8 with spin on filter. All V8 through 1989 and some through 1996. 1990 and later may have metric threads.				

SANDWICH FILTER ADAPTERS

THESE UNITS allow the adaptation of an oil cooler to any engine while maintaining the stock oil filter location. These adapters add approximately 1" to the length of the filter (except 513) and have 3/8 female pipe threads.

	PART NO.	CENTER PORT SIZE	PORT SIZE	O-RING O.D.	O-RING CROSS SECTION
	509ERL	22mm x 1.5	3/8 NPT	2-3/4 (69.2mm)	.139
	Typical Applications* Many Honda & Acura. Some Ford.				
	510ERL	3/4-16	3/8 NPT	2-3/4 (69.2mm)	.139
	Typical Applications* Most Ford, Chrysler, Toyota, Nissan & V-W vehicles with spin-on filters. Many other foreign makes.				
	511ERL	18mm x 1.5	3/8 NPT	2-3/4 (69.2mm)	.139
	Typical Applications* Some General Motors vehicles with spin on filter.				

*If you are unsure of which adapter your vehicle requires or don't find your vehicle listed, please call factory for correct part number at 310-609-1602

OIL COOLER COMPONENTS

COOLING SYSTEMS

SANDWICH FILTER ADAPTERS

	PART NO.	CENTER PORT SIZE	PORT SIZE	O-RING O.D.	O-RING CROSS SECTION
	512ERL	13/16-16	3/8 NPT	2-3/4 & 3-3/8 (inner 69.2mm) (outer 85mm)	.139
	Typical Applications* Most General Motors and American Motors vehicles with spin-on filter, except Chevy V8				
	513ERL	13/16-16 (Chevy)	3/8 NPT	3-3/8 (85mm)	.139
	Typical Applications* Most General Motors and American Motors vehicles with spin-on filter, except Chevy V8				
	514ERL	20mm x 1.5	3/8 NPT	2-3/4 & 3-3/8 (inner 69.2mm) (outer 85mm)	.139
	Typical Applications* Many Honda and Acura vehicles. Some Ford.				
	515ERL	18mm x 1.5	3/8 NPT	2-1/2 (65mm)	.210
	Typical Applications* GM				
	516ERL	3/4-16	3/8 NPT	2-1/2 (65mm)	.210
	Typical Applications* Toyota, VW, Suzuki, Nissan				
	517ERL	20mm x 1.5	3/8 NPT	2-1/2 (65mm)	.210
	Typical Applications* Honda, Acura, Nissan, Mazda, Subaru, Hyundai, KIA, Holden				
	518ERL	13/16-16	3/8 NPT	2-1/2 (65mm)	.210
	Typical Applications* GM				
	519ERL	22mm x 1.5	3/8 NPT	2-1/2 (65mm)	.210
	Typical Applications* Honda, Acura, some Ford				

*If you are unsure of which adapter your vehicle requires or don't find your vehicle listed, please call factory for correct part number at 310-609-1602

APPLICATION DATA

MAKE	MODEL	YEAR	FILTER	THREAD	SANDWICH	BYPASS	REMOTE
ALFA ROMEO	4 CYL, V6			3/4 X 16	510	1177	2177
AUDI	4 CYL	67-92		3/4 X 16	510	1177	2177
BMW	3 SERIES	73 - ON	Z 63	3/4 X 16	510	1177	2177
CHEVROLET	V8, 6 CYL		Z 24	13/16 X 16	512	1277	2477
CHEVROLET	V6 inc recessed land			M18 X 1.5	511	1577	ANY
CHRYSLER	SLANT 6		Z 9	3/4 X 16	510	1177	2177
CHRYSLER	HEMI 6		7 96	M16 X 1.5	N/A	N/A	N/A
DATSUN	L SERIES MOTORS			3/4 X 16	510	1177	2177
FORD AUST	CAPRI 1.6	89-95	Z79A	M20 X 1.5	517	1119	ANY
FORD AUST	CORTINA 6	74-82	Z9	3/4 X 16	510	1177	2177
FORD AUST	FALCON ETC	60-2002	Z9	3/4 X 16	510	1177	2177
FORD AUST	FESTIVA	92-00	Z79A	M20 X 1.5	517	1119	ANY
FORD AUST	LASER ETC	81-2002	Z79A	M20 X 1.5	517	1119	ANY
FORD AUST	TELSTAR ETC	83-92	Z56B	M20 X 1.5	517	1119	ANY
FORD AUST	TELSTAR ETC	92-98	Z411	M20 X 1.5	517	1119	ANY
HOLDEN	6 CYL, V8	63-84	Z30	13/16 X 16	512	1277	2477
HOLDEN	APOLLO	89-95	Z158/Z386	3/4 X 16	510	1177	2177
HOLDEN	COMMODORE 4, 6,8	78-91	Z30	13/16 X 16	512	1277	2477
HOLDEN	COMMODORE VL NISSAN 6	86-88	Z145A	3/4 X 16	510	1177	2177
HOLDEN	COMMODORE VL V8	86-88	Z30	13/16 X 16	512	1277	2477
HOLDEN	COMMODORE VP -ON	88 - 2002	V6	M18 X 1.5	511	1577	ANY
HOLDEN	COMMODORE V8	88 -2002		13/16 X 16	512	1277	2477
HOLDEN	GEMINI (PETROL)	75-87	Z56B	M20 X 1.5	517	1119	ANY
HONDA	ACCORD, PRELUDE 1.8	83-85	Z148A	M20 X 1.5	517	1977	ANY
HONDA	ACCORD 4 CYL	86-2002	Z79A	M20 X 1.5	517	1977	ANY
HONDA	CRX	88-98	Z79A	M20 X 1.5	517	1977	ANY
HONDA	INTEGRA	87-2001	Z79A	M20 X 1.5	517	1977	ANY
HONDA	PRELUDE	85-2001	Z79A	M20 X 1.5	517	1977	ANY

MAKE	MODEL	YEAR	FILTER	THREAD	SANDWICH	BYPASS	REMOTE
HYUNDAI	EXCEL/ACCENT	86-2002	Z142A	M20 X 1.5	517	1977	ANY
HYUNDAI	LAN/ELANTRA	93-2002	Z142A	M20 X 1.5	517	1977	ANY
JAGUAR	V12 ENGINE			1" X 12		115	ANY
KIA	CARNIVAL V6	88-2002		M20 X 1.5	517	1977	ANY
MAZDA	323 1.3/5/6/8	80-2002	Z79A	M20 X 1.5	517	1977	ANY
MAZDA	626 2.0, 2.2	87-94	Z148A	M20 X 1.5	517	1977	ANY
MAZDA	MX 5	89-2002	Z79A	M20 X 1.5	517	1977	ANY
MAZDA	MX 6, TURBO	87-91	Z56B	M20 X 1.5	517	1977	ANY
MAZDA	RX 3,4,5,7	72-85	Z148A	M20 X 1.5	517	1977	ANY
MAZDA	RX 7	86-92	Z79A	M20 X 1.5	517	1977	ANY
MITSUBISHI	ALL MODELS	78-2002	VARIOUS	M20 X 1.5	517	1977	ANY
NISSAN	180B, 200B	72-81	Z115	3/4 X 16	510	1177	2177
NISSAN	240,260,280 Z	71-84	Z115	3/4 X 16	510	1177	2177
NISSAN	300 ZX, INC TURBO	84-97	Z145A	3/4 X 16	510	1177	2177
NISSAN	200 SX	97-2002	Z442	M20 X 1.5	517	1119	ANY
NISSAN	EXA	83-91	Z145A	3/4 X 16	510	1177	2177
NISSAN	PATROL GQ 4.2	87-97	Z170	3/4 X 16	510	1177	2177
NISSAN	PULSAR N12 INC TURBO	80-87	Z145A	3/4 X 16	510	1177	2177
NISSAN	PULSAR N13 1.6/8	87-91	Z154	M18 X 1.5	511	1577	ANY
NISSAN	PULSAR N14 1.6	91-98	Z145A	3/4 X 16	510	1177	2177
NISSAN	PULSAR N14 2.0, NX/R (SR20)	91-97	Z442	M20 X 1.5	517	1119	ANY
NISSAN	STANZA	78-83	Z115	3/4 X 16	510	1177	2177
PORSCHE	924, 944	76-82	Z63	3/4 X 16	510	1177	2177
ROVER	MOST RANGE ROVER V8	77-2002	Z9	3/4 X 16	510	1177	2177
SAAB	ALL MODELS	73-81	Z89A	3/4 X 16	510	1177	2177
SUBARU	ALL	89-2002	Z495	M20 X 1.5	517	1119	ANY
SUZUKI	VITARA 1.6	95-98	Z172	3/4 X 16	516	1118	2177
TOYOTA	ALMOST ALL PETROL	72-2002	VARIOUS	3/4 X 16	516	1118	2177
VW	WATER COOLED	76-83	Z63	3/4 X 16	510	1177	2177

ADAPTOR DIMENSIONAL DATA

If what you are looking for is not shown in the table above, or if you want to check sizes, the following tables list all the adaptors with inside and outside diameter of sealing O-rings, inlet and outlet port thread sizes and other useful pieces of information to assist you in making the correct selection.

Table 1. SANDWICH ADAPTORS

Part No.	Thread	Inner O-ring ID (mm)	Inner O-ring OD (mm)	Outer O-ring ID (mm)	Outer O-ring OD (mm)	Port Thread	NOTES	Spare Centre Post No.
510	3/4" x 16	62.50	69.20	N/A	N/A	3/8 NPT	DIE CAST	510A
511	M18 X 1.5	62.50	69.20	N/A	N/A	3/8 NPT	BILLET	511A
512	13/16" X 16	62.50	69.2	76.00	85.00	3/8 NPT	DIE CAST	512A
514	M20 X 1.5	62.50	69.2	76.00	85.00	3/8 NPT	DIE CAST	514A
516	3/4" X 16	53.00	65.00	N/A	N/A	3/8 NPT	BILLET	510A
517	M20 X 1.5	53.00	65.00	N/A	N/A	3/8 NPT	BILLET	514A
518	13/16" X 16	53.00	65.00	N/A	N/A	3/8 NPT	BILLET	512A

Table 2. BYPASS ADAPTORS

Part No.	Thread	Inner O-ring ID (mm)	Inner O-ring OD (mm)	Outer O-ring ID (mm)	Outer O-ring OD (mm)	Port Thread	NOTES	Spare Centre Post No.
115	1" X 12	62.50	69.20	76.00	85.00	½ NPT	DIE CAST	N/A
1118	3/4" X 16	53.00	65.00	N/A	N/A	½ NPT	BILLET	N/A
1119	M20 X 1.5	53.00	65.00	N/A	N/A	½ NPT	BILLET	N/A
1177	3/4 X 16	62.50	69.20	N/A	N/A	½ NPT	DIE CAST	N/A
1178	3/4 X 16	62.50	69.20	N/A	N/A	½ NPT	BILLET	N/A
1277	13/16 X 16	62.50	69.20	76.00	85.00	½ NPT	DIE CAST	N/A
1577	M18 X 1.5	62.50	69.20	N/A	N/A	½ NPT	DIE CAST	N/A
1578	M18 X 1.5	62.50	69.20	N/A	N/A	½ NPT	BILLET	N/A
1877	M22 x 1.5	62.50	69.20	N/A	N/A	½ NPT	DIE CAST	N/A
1977	M20 X 1.5	62.50	69.20	76.00	85.00	½ NPT	DIE CAST	N/A

Table 3. REMOTE FILTER MOUNTING BRACKETS

Part No.	Thread	Inner O-ring ID (mm)	Inner O-ring OD (mm)	Outer O-ring ID (mm)	Outer O-ring OD (mm)	Port Thread	NOTES	Spare Centre Post No.
1701	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	SIDE ENTRY	2177A
1711	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	SIDE ENTRY	2177A
2177	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	TOP ENTRY	2177A
2178	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	TOP ENTRY	2177A
2277	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	SIDE ENTRY BOTH SIDES	2177A
2377	3/4" X 16	N/A	N/A	N/A	N/A	1/2 NPT	TWIN FILTERS, SIDE ENTRY	2177A
2477	13/16" X 16	N/A	N/A	N/A	N/A	1/2 NPT	TOP ENTRY	2477A

For further advice and assistance, please contact

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