



# 32PC COOLING SYSTEM PRESSURE TESTER & VACUUM-TYPE COOLANT REFILL KIT

OPERATIONS MANUAL



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## 1. FEATURES

- Set for testing leaks in automotive cooling systems and refilling new coolant by creating a vacuum in the cooling system
- Includes various adapters for most vehicle brands
- Adapters and pump are made from nylon reinforced injection
- Adapters (#3 black and #4 blue) are for pressure testing radiator caps
- Includes a thermometer for extra safety

## 2. SPECIFICATIONS



No	Description	Specifications	Material
1	Pressure pump	0-2.5 kg/cm <sup>2</sup> (35 psi)	Nylon 6-6
2	Pump hose	Max. pressure: 200 psi	Rubber
3	Radiator cap tester	For R123 and R124	Nylon 6-6
4	Radiator cap tester	For R123 and R125	Nylon 6-6
5	Radiator test adapters	Adapters #3 - #5	Steel
6	Radiator test adapters	Adapters #6 - #24	Nylon 6-6
7	O-ring	Various sizes	NBR
8	Conical adapter	Universally applicable	Rubber
9	90° Connector	Suitable for confined spaces	Bronze
10	Coolant hose	L: 1200mm (47.24 inches")	PVC
11	Air bleeding hose	Ø8 × 12 × 600mm (0.31 x 0.47 x 23.62")	PVC
A	Vacuum gauge -76 - 0 inHg		
B	Shop air connector		
C	Air switch		
D	Air bleeding exit		
E	Air control valve		
F	Hook and chain		
G	Coolant control valve		
H	Coolant hose connector		
I	Test cap connector		

### 3. WARNINGS!



**CAUTION**



- Always read the instructions carefully before using the tool
- This tool kit is for cooling system maintenance only
- Ensure the working area has adequate lighting
- Keep children and unauthorized persons away from the working area
- Keep working area clean and tidy, dry and free from unrelated materials
- DO NOT allow untrained persons to use this tool kit
- Always wear eye protection that meets OSHA and ANSI Z87.1 standards
- Always wear gloves when working with the tool
- Always wear ear protection
- Disposal: Customers should follow local regulations to handle used/waste parts
- Do not remove the radiator cap or coolant bottle cap when the engine is hot or at Operating temperature. Let the engine cool first! Failure to heed this warning may cause damage and/or personal injury.

### 4. INSTRUCTIONS

#### VACUUM-TYPE COOLANT REFILLING

##### I. CREATE A VACUUM IN THE COOLING SYSTEM

- 1) Drain coolant from the radiator.
- 2) Hook the gauge underneath the car's hood.
- 3) Connect shop air to shop air connector (B).
- 4) Connect the conical adapter (8) or a suitable test cap (5 or 6) onto the radiator filler neck (as in Fig. 1).
- 5) Turn on the air switch (C) and air control valve (E), while coolant control valve (G) remains off, to create a vacuum in the cooling system (as in Fig. 2).
- 6) When the pressure falls into the range between -50 and -60 cmHg (-20 and -25 inHg), turn off the air control valve (E) and then air switch (C).
- 7) Leave the gauge on the radiator for approximately 10 mins to check if there are leaks in the cooling system before refilling new coolant.



Fig. 1

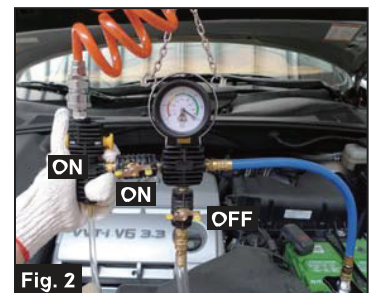


Fig. 2

##### II. REFILL NEW COOLANT

- 8) Connect the coolant hose (10) to the coolant hose connector (H).
- 9) Put the the hose into a container filled with pre-mixed new coolant.
- 10) Turn on the coolant control valve (G) (while the air control valve (E) and air switch (C) remain off), coolant will be introduced into the radiator immediately (as in Fig. 3).
- 11) The refilling process is completed when the gauge reads zero.
- 12) Remove residual coolant in the gauge before storage.

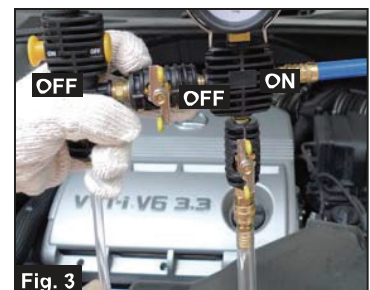


Fig. 3

## COOLING SYSTEM PRESSURE TEST

- 1) Choose a suitable adapter and screw the adapter onto the radiator filler neck.
- 2) Connect the pressure tester to adapter.
- 3) Pump pressure to the range between 10 and 15 psi (Fig. 4).
- 4) Check if the gauge reading moves.  
If it does, there could be leaks in the cooling system.  
Attention: Do not pump the pressure up to 35 psi.



Fig. 4

## RADIATOR CAP PRESSURE TEST

- 1) Connect the original radiator cap to one side of the connector, and a test cap on the other side (Fig. 5).
- 2) Pump pressure to the specified pressure on the cap.
- 3) When pumping pressure under the specified pressure, check if the gauge reading drops. If it does, there could be a fault with the cap.
- 4) When pumping pressure above the specified pressure, check if the radiator cap has the ability to release pressure. If it does not, the cap should be replaced.



Fig. 5



## 5. APPLICATIONS

The application list is for reference only. More vehicle applications are possible. Same vehicle models, due to variations in engine size, vehicle type (hatchback, sedan, or convertible...etc), engine fuel type (gasoline or diesel) and so on, may require different radiator test caps.

MAKE	MODEL	YEAR	NO.	ARES MODEL	MAKE	MODEL	YEAR	NO.	ARES MODEL
Alfa Romeo	33	1984-1989	7	15057	Audi	Q3 / SQ3 8U	2012-2015	23	15048
Alfa Romeo	90	1984-1987	7	15057	Audi	Q3 / SQ3 8U+	2015-2017	23	15048
Alfa Romeo	145	1994-2001	7	15057	Audi	Q5	2010-2017	9	15059
Alfa Romeo	147	2001-2010	7	15057	Audi	Q5 / SQ5 8R	2009-2012	23	15048
Alfa Romeo	155	1992-1997	7	15057	Audi	Q7 / SQ7 4L	2006-2015	23	15048
Alfa Romeo	156	1997-2006	7	15057	Audi	Q7 / SQ7 4M	2015-2018	23	15048
Alfa Romeo	164	1987-1998	7	15057	Audi	Quattro	1983-1984	11	15061
Alfa Romeo	166	1998-2007	22	15047	Audi	R8 42	2007-2015	23	15048
Alfa Romeo	145 Diesel	1994-1999	22	15047	Audi	S3 Sportback	2017-2018	23	15048
Alfa Romeo	145 Gasoline	1987-2001	22	15047	Audi	S4	1992-1994	11	15061
Alfa Romeo	8C	2007-2009	22	15047	Audi	S6	1995-1997	11	15061
Alfa Romeo	8C Spider	2008-2010	22	15047	Audi	S8	2001-2003	11	15061
Alfa Romeo	GT	2003-2010	7	15057	Audi	TT	1998-2006	8	15058
Alfa Romeo	GTV	1995-2005	22	15047	Audi	TT	2003-2014	9	15059
Alfa Romeo	Spider	1994-2005	22	15047	Audi	TT	2008-2018	23	15048
Audi	80	1988-1992	11	15061	Audi	TT Quattro	2003-2010	9	15059
Audi	90	1988-1995	11	15061	Audi	TT Roadster	1999-2006	8	15058
Audi	100	1989-1994	11	15061	Audi	V8 Quattro	1990-1994	11	15061
Audi	200	1989-1991	11	15061	BMW	3 Series	1990-1998	3	15053
Audi	4000	1980-1987	11	15061	BMW	3 Series	1998-2013	21	15046
Audi	5000	1978-1988	11	15061	BMW	3 Series M	2007-2013	17	15067
Audi	100 Quattro	1989-1994	11	15061	BMW	3 Series M3 Sedan	2007-2011	17	15067
Audi	200 Quattro	1989-1991	11	15061	BMW	318i	1991-1998	10	15060
Audi	4000 Quattro	1984-1987	11	15061	BMW	318is	1991-1997	10	15060
Audi	5000 Quattro	1986-1988	11	15061	BMW	318ti	1995-1999	10	15060
Audi	80 Quattro	1988-1992	11	15061	BMW	323Ci	2000-2000	10	15060
Audi	90 Quattro	1988-1995	11	15061	BMW	323i	1998-2000	10	15060
Audi	A1	2010-2017	9	15059	BMW	323is	1998-1999	10	15060
Audi	A1 Sportback	2012-2017	9	15059	BMW	325Ci	2001-2006	10	15060
Audi	A3	2006-2013	9	15059	BMW	325i	1992-2005	10	15060
Audi	A3 / S3 / RS3 8L	1996-2018	23	15048	BMW	325is	1992-1995	10	15060
Audi	A3 / S3 / RS3 8P	2003-2009	23	15048	BMW	325xi	2001-2005	10	15060
Audi	A3 / S3 / RS3 8P+	2009-2012	23	15048	BMW	328Ci	2000-2000	10	15060
Audi	A3 / S3 / RS3 8V	2012-2016	23	15048	BMW	328i	1996-2000	10	15060
Audi	A3 / S3 / RS3 8V+	2016-2017	23	15048	BMW	330Ci	2000-2006	10	15060
Audi	A3 Cabriolet	2017-2018	23	15048	BMW	330i	2001-2005	10	15060
Audi	A3 Quattro	2006-2012	9	15059	BMW	330xi	2001-2005	10	15060
Audi	A3 Sportback	2007-2013	23	15048	BMW	5 Series	2008-2018	22	15047
Audi	A3 Sportback	2017-2018	23	15048	BMW	520i	2003-2011	6	15056
Audi	A4	1996-1996	11	15061	BMW	520i	2007-2010	17	15067
Audi	A4	2002-2009	8	15058	BMW	523i	2005-2011	6	15056
Audi	A4	2005-2015	9	15059	BMW	523i	2007-2010	17	15067
Audi	A4 / S4 / RS4	1994-2001	23	15048	BMW	525 xi	2005-2011	6	15056
Audi	A4 / S4 / RS4	2001-2005	23	15048	BMW	525i	1991-2003	10	15060
Audi	A4 / S4 / RS4	2005-2008	23	15048	BMW	525i	2003-2010	17	15067
Audi	A4 / S4 / RS4	2008-2012	23	15048	BMW	525i	2003-2011	6	15056
Audi	A4 / S4 / RS4	2016-2017	23	15048	BMW	525i xDrive	2008-2011	6	15056
Audi	A4 Quattro	1996-1996	11	15061	BMW	528i	1997-2000	10	15060
Audi	A4 Quattro	2005-2014	9	15059	BMW	530 xi	2005-2011	6	15056
Audi	A5	2010-2017	9	15059	BMW	530i	1994-2003	10	15060
Audi	A5 / S5 / RS5 8T	2008-2011	23	15048	BMW	530i	2003-2010	17	15067
Audi	A5 / S5 / RS5 8T3	2012-2017	23	15048	BMW	530i	2003-2011	6	15056
Audi	A5 Quattro	2010-2014	9	15059	BMW	530i xDrive	2008-2011	6	15056
Audi	A6	1995-1997	11	15061	BMW	535i	1989-1993	10	15060
Audi	A6	2005-2011	8	15058	BMW	535i Sedan	2009-2017	17	15067
Audi	A6	2011-2017	9	15059	BMW	535i Wagon	2010-2017	17	15067
Audi	A6 / S6 / RS6	1997-2005	23	15048	BMW	540i	1994-2003	10	15060
Audi	A6 / S6 / RS6	2005-2011	23	15048	BMW	540i	2005-2010	6	15056
Audi	A6 / S6 / RS6	2011-2017	23	15048	BMW	545i	2003-2010	6	15056
Audi	A6 Avant	2011-2017	9	15059	BMW	550i	2005-2010	6	15056
Audi	A6 Quattro	1995-1998	11	15061	BMW	550i	2010-2015	10	15060
Audi	A6 Quattro	2012-2014	9	15059	BMW	550i	2010-2017	17	15067
Audi	A7 / S7 / RS7 4G	2011-2014	23	15048	BMW	550i GT	2010-2015	10	15060
Audi	A7 / S7 / RS7 4G8	2015-2017	23	15048	BMW	550i GT xDrive	2010-2015	10	15060
Audi	A7 Quattro	2012-2014	9	15059	BMW	550i xDrive	2013-2017	10	15060
Audi	A8	1998-1999	11	15061	BMW	6 Series	2010-2018	22	15047
Audi	A8	2002-2010	8	15058	BMW	630i	2004-2011	6	15056
Audi	A8 / S8 4E	2002-2010	23	15048	BMW	640i Convertible	2011-2017	17	15067
Audi	A8 / S8 4H	2010-2017	23	15048	BMW	640i Coupe	2010-2017	17	15067
Audi	A8 / S8 D2	1994-2002	23	15048	BMW	645 Ci	2004-2005	17	15067
Audi	A8 Quattro	1997-2003	11	15061	BMW	645 Ci	2004-2011	6	15056
Audi	Cabriolet	1991-2000	8	15058	BMW	650i	2005-2011	6	15056
Audi	Cabriolet	1994-1998	11	15061	BMW	650i	2011-2017	17	15067
Audi	Coupe	1981-1987	11	15061	BMW	650i	2012-2017	10	15060
Audi	Coupe Quattro	1990-1991	11	15061	BMW	650i Gran Coupe	2013-2017	10	15060
Audi	Q2	2016-2018	23	15048	BMW	650i xDrive	2012-2017	10	15060
Audi	Q3	2013-2017	9	15059	BMW	7 Series	2008-2015	22	15047

MAKE	MODEL	YEAR	NO.	ARES MODEL
BMW	735i	1987-1992	10	15060
BMW	735iL	1988-1992	10	15060
BMW	740i	1993-2001	10	15060
BMW	740i	2008-2015	17	15067
BMW	740iL	1993-2001	10	15060
BMW	745i	2002-2005	10	15060
BMW	745Li	2002-2005	10	15060
BMW	750i	2006-2016	10	15060
BMW	750i	2008-2015	17	15067
BMW	750i xDrive	2012-2016	10	15060
BMW	760i	2004-2006	10	15060
BMW	760i	2009-2015	17	15067
BMW	760Li	2003-2008	10	15060
BMW	840Ci	1993-1997	10	15060
BMW	850CSi	1994-1995	10	15060
BMW	850i	1991-1992	10	15060
BMW	ActiveHybrid	2011-2017	17	15067
BMW	Alpina B6 xDrive Gran Coupe	2015-2016	10	15060
BMW	Alpina B7	2007-2015	10	15060
BMW	Alpina B7 xDrive	2012-2015	10	15060
BMW	Alpina B7L	2012-2015	10	15060
BMW	Alpina B7L xDrive	2012-2015	10	15060
BMW	i3	2014-2015	22	15047
BMW	i8	2014-2015	22	15047
BMW	M3	1994-2006	10	15060
BMW	M3	2014-2017	17	15067
BMW	M4	2014-2017	17	15067
BMW	M5	1991-2016	10	15060
BMW	M6	2012-2017	10	15060
BMW	M6 Gran Coupe	2014-2017	10	15060
BMW	X3	2004-2010	10	15060
BMW	X5	2000-2006	10	15060
BMW	X5	2007-2013	22	15047
BMW	X5 3.0 si	2006-2008	17	15067
BMW	X5 4.8i xDrive	2007-2008	17	15067
BMW	X6	2008-2014	22	15047
BMW	X6 M	2008-2014	17	15067
BMW	X6 xDrive 35i	2008-2014	17	15067
BMW	X6 xDrive 50i	2007-2014	17	15067
BMW	Z3	1996-2002	10	15060
BMW	Z4	2003-2008	10	15060
BMW	Z8	2000-2003	10	15060
Cadillac	BLS	2006-2016	20	15045
Chevrolet	Aveo	2005-2018	6	15056
Chevrolet	Aveo5	2007-2011	6	15056
Chevrolet	Cavalier	1999-2005	6	15056
Chevrolet	Classic	2004-2005	6	15056
Chevrolet	Corvette	1972-2004	12	15062
Chevrolet	Evanda	2005-2016	6	15056
Chevrolet	Kalos	2005-2016	6	15056
Chevrolet	Lacetti	2005-2016	6	15056
Chevrolet	Malibu	1999-2003	6	15056
Chevrolet	Matiz	2005-2017	6	15056
Chevrolet	Nubira	2005-2016	6	15056
Chevrolet	Optra	2004-2010	6	15056
Chevrolet	SSR	2003-2006	6	15056
Chevrolet	Tacuma	2005-2016	6	15056
Chrysler	300 C	2005-2012	3	15053
Chrysler	300 C Touring	2005-2010	3	15053
Chrysler	Crossfire	2003-2008	3	15053
Chrysler	Grand Voyager V	2007-2017	3	15053
Chrysler	Neon II	1999-2006	3	15053
Chrysler	PT Cruiser	2004-2008	3	15053
Chrysler	Sebring	2007-2010	3	15053
Chrysler	Voyager III	1995-2001	3	15053
Citroen	Berlingo	1996-2016	3	15053
Citroen	BX	1986-1994	3	15053
Citroen	C15	1984-2005	3	15053
Citroen	Dispatch	1995-2017	3	15053
Citroen	Jumper Box	1994-2002	22	15047
Citroen	Jumper Bus	1994-2002	22	15047
Citroen	Saxo	1996-2004	3	15053
Citroen	Synergie	1994-2002	3	15053
Citroen	Xsara	1997-2005	3	15053
Dacia	Solenza	2003-2018	7	15057
Daewoo	Aranos	1995-1997	21	15046
Daewoo	Cielo	1995-1997	21	15046
Daewoo	Espero	1991-1999	21	15046
Daewoo	Kalos	2002-2018	6	15056
Daewoo	Lanos	1997-2018	6	15056
Daewoo	Leganza	1997-2002	6	15056
Daewoo	Nexia	1995-2008	21	15046
Daewoo	Nubira	1997-2016	21	15046
Daewoo	Rezzo	2000-2016	6	15056
Daihatsu	Charade Centro IV	1994-1998	5	15055
Daihatsu	Charade IV	1994-2016	5	15055
Daihatsu	Cuore V	1998-2003	5	15055

MAKE	MODEL	YEAR	NO.	ARES MODEL
Daihatsu	Feroza	1998-1999	4	15054
Daihatsu	Mira III	1995-1995	5	15055
Daihatsu	Sirion	2005-2017	5	15055
Daihatsu	Terios	1997-2005	5	15055
Daihatsu	YRV	2001-2017	5	15055
Dodge	Journey	2008-2017	3	15053
Dodge	Nitro	2007-2012	3	15053
Fiat	Brava	1995-2002	7	15057
Fiat	Bravo	1995-2001	7	15057
Fiat	Cinquecento	1991-1999	7	15057
Fiat	Croma	1985-1996	7	15057
Fiat	Croma	2005-2016	20	15045
Fiat	Ducato	1994-2002	7	15057
Fiat	Ducato	2002-2016	22	15047
Fiat	Duna	1987-1991	7	15057
Fiat	Duna Weekend	1987-1991	7	15057
Fiat	Marea	1996-2007	7	15057
Fiat	Marea Weekend	1996-2007	7	15057
Fiat	Panda	1980-2004	7	15057
Fiat	Seicento	1998-2010	7	15057
Fiat	Tempra	1990-1998	7	15057
Fiat	Tempra S.W.	1990-1996	7	15057
Fiat	Ulysse	1994-2002	7	15057
Fiat	UNO	1983-2006	7	15057
Ford	B-Max	2012-2018	15	15065
Ford	C-Max DM2	2007-2010	15	15065
Ford	C-Max MKII	2010-2018	15	15065
Ford	Contour	1998-2000	14	15064
Ford	Cougar	1998-2001	12	15062
Ford	Courier	1996-1999	5	15055
Ford	Courier	1996-2003	21	15046
Ford	Courier	2002-2004	4	15054
Ford	EconoVan	1985-1997	4	15054
Ford	Ecosport	2012-2017	15	15065
Ford	Escort	1995-2016	21	15046
Ford	Escort '95 Express	1995-2016	6	15056
Ford	Escort Express	1990-1994	21	15046
Ford	Falcon	1986-1993	3	15053
Ford	Fiesta	1989-1997	21	15046
Ford	Fiesta	2008-2018	15	15065
Ford	Fiesta MK VI	2008-2017	15	15065
Ford	Fiesta V	2001-2008	6	15056
Ford	Fiesta V	2001-2010	15	15065
Ford	Focus	1998-2004	6	15056
Ford	Focus	2004-2016	21	15046
Ford	Focus MK II	2004-2016	15	15065
Ford	Focus MK III	2010-2018	15	15065
Ford	Focus Turnier	2010-2017	15	15065
Ford	Fusion	2002-2012	21	15046
Ford	Galaxy	1995-2006	18	15068
Ford	Galaxy	2006-2015	15	15065
Ford	Granada	1985-1994	21	15046
Ford	Grand C-Max	2010-2018	15	15065
Ford	KA	1996-2009	21	15046
Ford	Kuga	2013-2018	15	15065
Ford	Kuga I	2008-2016	15	15065
Ford	Laser	1994-1999	4	15054
Ford	Laser	2001-2002	5	15055
Ford	LTD	1991-1995	3	15053
Ford	Mondeo	1996-2007	12	15062
Ford	Mondeo	2007-2015	15	15065
Ford	Mondeo Turnier	2007-2014	15	15065
Ford	Mondeo V	2014-2018	15	15065
Ford	Orion	1985-1990	21	15046
Ford	Probe	1994-1998	4	15054
Ford	Ranger	1990-2017	15	15065
Ford	Sierra	1982-1987	21	15046
Ford	S-Max	2006-2014	15	15065
Ford	Telstar	1992-1994	4	15054
Ford	Tourneo Connect	2002-2016	21	15046
Ford	Tourneo Custom	2012-2018	15	15065
Ford	Transit	2000-2006	12	15062
Ford	Transit	2006-2016	15	15065
Ford	Transit Connect	2013-2018	15	15065
Ford	Transit Custom	2012-2018	15	15065
Ford	Transit Tourneo	1994-2014	15	15065
Holden	Apollo	1991-1993	4	15054
Holden	Apollo	1995-1997	5	15055
Holden	Colorado	2008-2012	4	15054
Holden	Commodore	1999-2000	3	15053
Holden	Nova	1991-1994	4	15054
Holden	Statesman	1995-1999	3	15053
Holden	Suburban	1998-2000	3	15053
Honda	Accord Euro VIII	2008-2015	5	15055
Honda	Accord VIII	2008-2017	5	15055
Honda	City	2009-2017	5	15055
Honda	Civic VIII	2006-2017	5	15055

MAKE	MODEL	YEAR	NO.	ARES MODEL
Honda	HR-V	1999-2017	5	15055
Honda	Integra	2002-2017	5	15055
Honda	Jazz III	2008-2017	5	15055
Honda	Legend	2008-2014	5	15055
Honda	Legend II	1991-1996	5	15055
Honda	Legend III	1996-2017	5	15055
Honda	Legend IV	2006-2017	5	15055
Honda	Odyssey	2003-2017	5	15055
Honda	Prelude V	1997-2001	5	15055
Honda	S2000	1999-2017	5	15055
Hyundai	Accent II	2002-2005	4	15054
Hyundai	Coupe	1996-2002	4	15054
Hyundai	Elantra	2000-2006	4	15054
Hyundai	Elantra	2016-2019	24	15049
Hyundai	Excel	1994-2000	4	15054
Hyundai	Getz	2005-2016	4	15054
Hyundai	i30	2016-2020	24	15049
Hyundai	Ioniq	2016-2020	24	15049
Hyundai	ix35	2009-2020	24	15049
Hyundai	Kona	2017-2020	24	15049
Hyundai	Kona Electric	2019-2020	24	15049
Hyundai	Santa Fe I	2001-2006	5	15055
Hyundai	Sonata III	1993-1998	4	15054
Hyundai	Tucson	2004-2010	4	15054
Hyundai	Tucson	2015-2020	24	15049
Hyundai	Veloster	2019-2020	24	15049
Hyundai	Veloster N	2019-2019	24	15049
Isuzu	D-MAX	2007-2016	4	15054
Jaguar	XJ	1994-1997	3	15053
Jaguar	XJS	1993-1996	3	15053
Jeep	Cherokee	2001-2017	3	15053
Jeep	Commander	2006-2010	3	15053
Jeep	Compass	2006-2017	3	15053
Jeep	Grand Cherokee II	2001-2005	3	15053
Jeep	Grand Cherokee III	2005-2010	3	15053
Jeep	Patriot	2008-2017	3	15053
Jeep	Wrangler II	1996-2007	3	15053
Jeep	Wrangler III	2007-2017	3	15053
Kia	Carnival I	2000-2001	4	15054
Kia	Niro	2016-2020	24	15049
Kia	Optima	2001-2017	5	15055
Kia	Picanto	2017-2020	24	15049
Kia	RIO	2000-2005	4	15054
Kia	RIO II	2005-2017	4	15054
Kia	Sorento I	2007-2017	4	15054
Kia	Sportage	2006-2017	4	15054
Kia	Sportage	2015-2020	24	15049
Lancia	Dedra	1989-1999	7	15057
Lancia	Dedra SW	1994-1999	7	15057
Lancia	Lybra	1999-2005	7	15057
Lancia	Y	1995-2003	7	15057
Lancia	Y10	1985-1995	7	15057
Lancia	Ypsilon	2006-2011	6	15056
Lancia	Zeta	1995-2002	7	15057
Land Rover	Defender	1998-2016	7	15057
Land Rover	Defender	2007-2016	3	15053
Land Rover	Discovery	1999-2004	22	15047
Land Rover	Freelander	1998-2006	7	15057
Land Rover	Freelander 2	2006-2014	15	15065
Land Rover	Range Rover	1995-2005	22	15047
Land Rover	Range Rover	2003-2005	10	15060
Land Rover	Range Rover Evoque	2011-2017	15	15065
Land Rover	Range Rover I	1988-1994	3	15053
Lexus	CT200h	2011-2014	19	15069
Lexus	ES300h	2013-2015	19	15069
Lexus	GS	2005-2011	5	15055
Lexus	GS450h	2013-2017	19	15069
Lexus	GS460	2008-2011	19	15069
Lexus	HS250h	2010-2012	19	15069
Lexus	IS C	2009-2017	5	15055
Lexus	IS F	2008-2014	19	15069
Lexus	IS I	2001-2005	5	15055
Lexus	LS	1998-2000	4	15054
Lexus	LS460	2007-2013	19	15069
Lexus	LS600h	2008-2013	19	15069
Lexus	RX	2008-2015	5	15055
Maserati	Gransport Coupe	2004-2007	6	15056
Mazda	2	2003-2017	5	15055
Mazda	3	2009-2017	15	15065
Mazda	6	2007-2017	4	15054
Mazda	121 III	1996-2003	6	15056
Mazda	2 Series	2007-2015	15	15065
Mazda	3 Series	2003-2009	15	15065
Mazda	323 Astina VI	2001-2004	5	15055
Mazda	323 Protege VI	1998-2004	5	15055
Mazda	5 Series	2010-2017	15	15065

MAKE	MODEL	YEAR	NO.	ARES MODEL
Mazda	B-Series Bravo	1999-2006	4	15054
Mazda	CX-7	2009-2017	4	15054
Mazda	Mazda3	2004-2009	15	15065
Mazda	MPV	2006-2011	4	15054
Mazda	MX-5	2005-2011	4	15054
Mazda	MX-5 I	1990-1994	4	15054
Mazda	Tribute	2000-2008	12	15062
Mercedes	350	2006-2012	6	15056
Mercedes	500	2006-2012	6	15056
Mercedes	600	2006-2012	6	15056
Mercedes	55 AMG	2006-2012	6	15056
Mercedes	A 140	1997-2004	16	15066
Mercedes	A 150	2004-2012	16	15066
Mercedes	A 160	1997-2004	16	15066
Mercedes	A 160 CDI	2004-2012	16	15066
Mercedes	A 170	2004-2012	16	15066
Mercedes	A 170 CDI	1997-2004	16	15066
Mercedes	A 180	2004-2012	16	15066
Mercedes	A 180 CDI	2004-2012	16	15066
Mercedes	A 190	1997-2004	16	15066
Mercedes	A 200	2004-2012	16	15066
Mercedes	A 200 CDI	2004-2012	16	15066
Mercedes	A 200 Turbo	2004-2012	16	15066
Mercedes	A 210	1997-2004	16	15066
Mercedes	B 150	2005-2011	16	15066
Mercedes	B 160	2005-2011	16	15066
Mercedes	B 170	2005-2011	16	15066
Mercedes	B 170 NGT	2005-2011	16	15066
Mercedes	B 180	2005-2011	16	15066
Mercedes	B 180 CDI	2005-2011	16	15066
Mercedes	B 180 NGT	2005-2011	16	15066
Mercedes	B 200	2005-2011	16	15066
Mercedes	B 200 CDI	2005-2011	16	15066
Mercedes	B 200 Turbo	2005-2011	16	15066
Mercedes	C-Classe	2007-2014	6	15056
Mercedes	CLK Cabriolet	2006-2010	6	15056
Mercedes	CLS500	2006-2006	13	15063
Mercedes	CLS55 AMG	2006-2006	13	15063
Mercedes	CLS550	2007-2011	13	15063
Mercedes	CLS63 AMG	2007-2010	13	15063
Mercedes	E320	2004-2009	13	15063
Mercedes	E320 Sedan	2003-2003	13	15063
Mercedes	E350	2006-2009	13	15063
Mercedes	E500	2003-2006	13	15063
Mercedes	E55 AMG	2003-2006	13	15063
Mercedes	E550	2007-2009	13	15063
Mercedes	E63 AMG	2007-2009	13	15063
Mercedes	E-CELL	2004-2012	16	15066
Mercedes	E-Classe	2005-2008	6	15056
Mercedes	E-Classe T-Model	2006-2009	6	15056
Mercedes	F-CELL	2005-2011	16	15066
Mercedes	Sprinter 3-T Kasten	2006-2009	6	15056
Mercedes	Vaneo	2002-2005	16	15066
Mercedes	A-Class	1997-2004	3	15053
Mercedes	E-Class	1997-2002	3	15053
Mercedes	E-Class	2002-2008	3	15053
Mercedes	MB100	1999-2003	3	15053
Mercedes	S-Class	1989-1991	3	15053
Mercury	Cougar	1999-2002	14	15064
Mercury	Mystique	1998-2000	14	15064
Mini	Cooper - Most trims	2011-2015	22	15047
Mini	Cooper Countryman	2010-2017	22	15047
Mini	Cooper Paceman	2013-2016	22	15047
Mini	Mini	2004-2006	3	15053
Mini	Mini Clubman	2007-2014	22	15047
Mini	Mini Clubvan	2012-2017	22	15047
Mini	Mini Roadster	2012-2017	22	15047
Mitsubishi	Challenger	2008-2017	5	15055
Mitsubishi	Challenger I	1998-2017	4	15054
Mitsubishi	Colt III	1986-1990	3	15053
Mitsubishi	Galant IV	1989-1992	3	15053
Mitsubishi	Grandis	2004-2017	5	15055
Mitsubishi	L300 Express	2006-2013	4	15054
Mitsubishi	Lancer	2006-2017	4	15054
Mitsubishi	Magna	1989-1991	3	15053
Mitsubishi	Outlander II	2007-2012	4	15054
Mitsubishi	Pajero	2002-2005	3	15053
Mitsubishi	Pajero IV	2009-2017	4	15054
Mitsubishi	Triton	1996-2006	4	15054
Mitsubishi	Triton	2007-2017	5	15055
Nissan	200 SX	1993-1999	4	15054
Nissan	350 Z	2003-2017	4	15054
Nissan	Interstar	2002-2017	7	15057
Nissan	Maxima	1995-2000	4	15054
Nissan	Navara III	2003-2016	4	15054
Nissan	Pathfinder I	1986-1995	4	15054

MAKE	MODEL	YEAR	NO.	ARES MODEL
Nissan	Primastar	2001-2017	7	15057
Nissan	Pulsar	2000-2006	4	15054
Nissan	Pulsar V	1991-1995	4	15054
Nissan	Pulsar VII	2002-2017	4	15054
Nissan	Skyline	1998-2000	4	15054
Nissan	Skyline	1998-2011	4	15054
Nissan	Tiida	2007-2016	4	15054
Opel	Agila	2000-2007	21	15046
Opel	Arena	1997-2001	7	15057
Opel	Ascona C	1981-1988	21	15046
Opel	Astra	1991-2001	21	15046
Opel	Astra H	2007-2016	21	15046
Opel	Astra H Caravan	2004-2016	21	15046
Opel	Astra H GTC	2005-2016	21	15046
Opel	Astra H Sport Hatch	2005-2010	20	15045
Opel	Astra H Stufenheck	2007-2016	21	15046
Opel	Astra H Twintop	2005-2010	20	15045
Opel	Astra H Twintop	2005-2016	21	15046
Opel	Astra H Van	2004-2016	21	15046
Opel	Combo	2001-2016	21	15046
Opel	Combo Tour	2001-2011	21	15046
Opel	Corsa	2006-2017	20	15045
Opel	Corsa B	1993-2016	21	15046
Opel	Corsa C	2000-2016	21	15046
Opel	Frontera	1992-1998	21	15046
Opel	Kadett E	1984-1993	21	15046
Opel	Meriva	2003-2010	21	15046
Opel	Movano	1998-2017	7	15057
Opel	Omega A	1986-1994	21	15046
Opel	Omega B	1994-2003	21	15046
Opel	Senator	1987-1993	21	15046
Opel	Signum	2005-2018	20	15045
Opel	Vectra	1988-1995	21	15046
Opel	Vectra C	2002-2018	20	15045
Opel	Vectra C Caravan	2004-2018	20	15045
Opel	Zafira A	1999-2005	21	15046
Opel	Zafira B	2005-2016	20	15045
Opel	Zafira B Van	2009-2018	20	15045
Peugeot	106	1996-2016	3	15053
Peugeot	406	1996-2004	3	15053
Peugeot	205 II	1990-1998	3	15053
Peugeot	Expert	1996-2016	3	15053
Peugeot	Partner	1996-2017	3	15053
Peugeot	Partnerspace	1996-2016	3	15053
Pontiac	G3	2009-2010	6	15056
Pontiac	Grand Am	1999-2005	6	15056
Pontiac	Sunfire	1999-2005	6	15056
Porsche	924	1980-1982	11	15061
Porsche	968	1991-1995	3	15053
Porsche	Boxster	1997-1997	11	15061
Porsche	C4	2013-2016	23	15048
Porsche	Carrera	2012-2016	23	15048
Porsche	CS Turbo	2013-2016	23	15048
Proton	Impian - Waja	2001-2017	4	15054
Renault	19	1992-2001	7	15057
Renault	21	1986-1994	7	15057
Renault	25	1984-1993	7	15057
Renault	Clio	1998-2017	7	15057
Renault	Espace	1996-2002	7	15057
Renault	Kangoo	1997-2016	7	15057
Renault	Laguna	1993-2001	7	15057
Renault	Master	1998-2017	7	15057
Renault	Megane	1996-2003	7	15057
Renault	Super 5	1984-1996	7	15057
Renault	Thalia	1998-2016	7	15057
Renault	Trafic	1980-1989	7	15057
Renault	Twingo	1993-2016	7	15057
Saab	900	1980-1994	7	15057
Saab	9000	1988-1998	7	15057
Saab	9-3	1998-2002	6	15056
Saab	9-3	2002-2015	20	15045
Saab	9-3 Cabriolet	1998-2003	6	15056
Saab	9-3X	2010-2011	20	15045
Saab	9-5	1997-2009	6	15056
Saturn	SC1	1996-2002	6	15056
Saturn	SC2	1996-2002	6	15056
Saturn	SL	1996-2002	6	15056
Saturn	SL1	1996-2002	6	15056
Scion	tC	2011-2016	19	15069
Scion	xB	2008-2015	19	15069
Seat	Alhambra	1996-2010	18	15068
Seat	Alhambra 7M	2000-2010	23	15048
Seat	Alhambra 7N	2010-2016	23	15048
Seat	Altea	2004-2009	23	15048
Seat	Altea 5P+	2009-2015	23	15048
Seat	Arosa	1997-2004	8	15058

MAKE	MODEL	YEAR	NO.	ARES MODEL
Seat	Ateca	2016-2018	23	15048
Seat	Cordoba 6L	2002-2008	23	15048
Seat	Cordoba Vario	1996-2002	8	15058
Seat	Exeo 3R	2009-2014	23	15048
Seat	Ibiza 6J	2008-2012	23	15048
Seat	Ibiza 6L	2002-2008	23	15048
Seat	Ibiza 6P	2013-2016	23	15048
Seat	Ibiza MK III	1999-2002	8	15058
Seat	Ibiza MK IV	2002-2009	8	15058
Seat	Inca	1995-2003	8	15058
Seat	Leon	2005-2012	8	15058
Seat	Leon	2013-2018	23	15048
Seat	Leon 1P	2005-2009	23	15048
Seat	Leon 1P+	2009-2012	23	15048
Seat	Leon 5F	2013-2016	23	15048
Seat	Mii 1S	2012-2016	23	15048
Seat	Toledo	1998-2006	8	15058
Seat	Toledo 5P	2004-2009	23	15048
Seat	Toledo 6J	2013-2016	23	15048
Skoda	Citigo 1S	2012-2016	23	15048
Skoda	Fabia	1999-2008	8	15058
Skoda	Fabia 5J	2007-2011	23	15048
Skoda	Fabia 5J+	2011-2014	23	15048
Skoda	Fabia 6Y	2000-2007	23	15048
Skoda	Fabia II	2014-2018	23	15048
Skoda	Felicia I Fun	1997-2002	6	15056
Skoda	Felicia II	1998-2001	6	15056
Skoda	Karoq	2017-2018	23	15048
Skoda	Kodiaq	2016-2018	23	15048
Skoda	Octavia	1998-2010	8	15058
Skoda	Octavia	2004-2013	23	15048
Skoda	Octavia 1U	1997-2010	23	15048
Skoda	Octavia 1Z	2004-2009	23	15048
Skoda	Octavia 1Z2	2009-2013	23	15048
Skoda	Octavia 5E	2013-2016	23	15048
Skoda	Octavia III	2012-2018	23	15048
Skoda	Rapid	2012-2017	9	15059
Skoda	Rapid 5J	2013-2016	23	15048
Skoda	Roomster	2006-2010	6	15056
Skoda	Roomster 5J	2006-2011	23	15048
Skoda	Roomster 5J+	2011-2016	23	15048
Skoda	Superb	2008-2015	23	15048
Skoda	Superb 3T	2008-2013	23	15048
Skoda	Superb 3U	2001-2008	23	15048
Skoda	Superb III	2015-2018	23	15048
Skoda	Yeti	2009-2017	9	15059
Skoda	Yeti 5L	2009-2014	23	15048
Subaru	Forester	2008-2017	4	15054
Subaru	Impreza	2008-2017	4	15054
Subaru	Liberty IV	2003-2017	4	15054
Subaru	Liberty IV	2003-2017	5	15055
Subaru	Liberty Outback	2000-2003	5	15055
Subaru	Outback	2009-2017	5	15055
Suzuki	Alto	2009-2017	5	15055
Suzuki	APV	2005-2017	5	15055
Suzuki	Baleno	1995-2002	5	15055
Suzuki	Carry	2000-2017	5	15055
Suzuki	Forenza	2004-2008	6	15056
Suzuki	Grand Vitara II	2005-2015	5	15055
Suzuki	Jimny	1998-2017	5	15055
Suzuki	Kizashi	2010-2017	5	15055
Suzuki	Liana	2002-2017	5	15055
Suzuki	Reno	2005-2008	6	15056
Suzuki	Samurai	1988-2004	7	15057
Suzuki	Super Carry	1985-1999	4	15054
Suzuki	Swift II	1989-2001	4	15054
Suzuki	Swift III	2005-2017	5	15055
Suzuki	SX4	2006-2017	5	15055
Suzuki	Vitara	1994-1998	5	15055
Suzuki	Wagon R+	1998-2000	5	15055
Toyota	4 Runner	1990-1995	4	15054
Toyota	Aurion	2006-2011	5	15055
Toyota	Avalon	2013-2015	19	15069
Toyota	Avensis Verso	2001-2009	5	15055
Toyota	Camry	2002-2006	4	15054
Toyota	Camry	2006-2011	5	15055
Toyota	Camry	2013-2015	19	15069
Toyota	Celica	2000-2005	19	15069
Toyota	Coaster	1993-2003	5	15055
Toyota	Corolla	2001-2007	5	15055
Toyota	Corolla Liftback	1992-1994	4	15054
Toyota	Echo	1999-2005	5	15055
Toyota	Hiace	1995-2005	4	15054
Toyota	Hiace	2006-2014	19	15069
Toyota	HiAce III	1996-2004	4	15054
Toyota	Highlander	2011-2016	19	15069



MAKE	MODEL	YEAR	NO.	ARES MODEL
Toyota	Hilux	2005-2017	5	15055
Toyota	Hilux II	1988-1997	4	15054
Toyota	Hilux VII	2005-2017	5	15055
Toyota	Kluger	2003-2007	5	15055
Toyota	Land Cruiser	1990-2016	4	15054
Toyota	Land Cruiser 100	1998-2007	4	15054
Toyota	Land Cruiser 200	2007-2017	4	15054
Toyota	Land Cruiser Prado	2010-2017	5	15055
Toyota	MR2 Spyder	2000-2005	19	15069
Toyota	Prius	2010-2015	19	15069
Toyota	Prius C	2012-2013	19	15069
Toyota	Prius Plug-In	2012-2015	19	15069
Toyota	Prius V	2012-2015	19	15069
Toyota	RAV 4	2006-2016	19	15069
Toyota	RAV 4 I	1994-2000	5	15055
Toyota	RAV 4 II	2003-2005	5	15055
Toyota	RAV 4 III	2005-2017	5	15055
Toyota	Supra	1993-2002	5	15055
Toyota	Tarago III	2005-2017	5	15055
Toyota	Tarago III	2005-2017	5	15055
Toyota	Yaris	2005-2017	5	15055
Vauxhall	Arena	1998-2001	7	15057
Vauxhall	Astra	2004-2010	20	15045
Vauxhall	Astra Twintop	2005-2010	21	15046
Vauxhall	Astravan	1998-2006	20	15045
Vauxhall	Astravan	2005-2017	21	15046
Vauxhall	Corsa	2006-2014	20	15045
Vauxhall	Movano	1998-2010	7	15057
Vauxhall	Signum	2003-2008	20	15045
Vauxhall	Vectra	2002-2008	20	15045
Vauxhall	Zafira	2005-2014	20	15045
Volvo	850	1992-1994	7	15057
Volvo	C30	2006-2012	15	15065
Volvo	C70	2006-2013	15	15065
Volvo	S40	2004-2012	15	15065
Volvo	S60	2010-2017	15	15065
Volvo	S80	2006-2017	15	15065
Volvo	V40	2012-2017	15	15065
Volvo	V50	2004-2012	15	15065
Volvo	V60	2010-2017	15	15065
Volvo	V70	2007-2016	15	15065
Volvo	XC60	2008-2017	15	15065
Volvo	XC70	2007-2017	15	15065
VW	Amarok	2011-2017	9	15059
VW	Amarok 2H	2010-2016	23	15048
VW	Artéon	2017-2018	23	15048
VW	Beetle	2012-2018	23	15048
VW	Beetle 5C	2012-2016	23	15048
VW	Beetle 9C	1998-2011	23	15048
VW	Bora	1998-2005	8	15058
VW	Cabriolet	1985-1993	11	15061
VW	Caddy	1995-2004	8	15058
VW	Caddy	2001-2016	9	15059
VW	Caddy 2K	2004-2011	23	15048
VW	Caravelle	2003-2017	9	15059
VW	CC	2011-2016	23	15048
VW	Crafter 30-35	2006-2017	9	15059
VW	Dasher	1979-1981	11	15061
VW	EOS	2006-2016	9	15059
VW	EOS 1F	2006-2011	23	15048
VW	Fox	1987-1993	11	15061
VW	Fox	2005-2017	9	15059
VW	Golf	1985-1990	11	15061
VW	Golf 1J	1997-2004	23	15048

MAKE	MODEL	YEAR	NO.	ARES MODEL
VW	Golf 1K0	2004-2009	23	15048
VW	Golf 1K9	2009-2012	23	15048
VW	Golf 5G	2012-2017	23	15048
VW	Golf MK III	1991-2002	8	15058
VW	Golf MK V	2003-2008	23	15048
VW	Golf MK V Hatchback	2003-2008	9	15059
VW	Golf MK VI	2008-2017	23	15048
VW	Golf MK VI Estate	2008-2017	9	15059
VW	Golf MK VII	2012-2018	23	15048
VW	Golf Plus	2005-2013	23	15048
VW	Golf Sports	2014-2018	23	15048
VW	Jetta	1980-1989	11	15061
VW	Jetta	2005-2010	23	15048
VW	Jetta / Bora 1J	1998-2005	23	15048
VW	Jetta / Bora 1K	2005-2010	23	15048
VW	Jetta / Bora 5C	2011-2016	23	15048
VW	Jetta MK III	2005-2011	9	15059
VW	Jetta ML IV	2010-2017	9	15059
VW	LT	1996-2006	8	15058
VW	Lupo	1998-2005	8	15058
VW	New Beetle	1998-2010	23	15048
VW	Passat	2010-2014	9	15059
VW	Passat	2014-2018	23	15048
VW	Passat CC	2008-2012	9	15059
VW	Phaeton 3D	2002-2012	23	15048
VW	Phaeton 3D+	2012-2016	23	15048
VW	Polo	2001-2009	8	15058
VW	Polo	2002-2017	23	15048
VW	Polo 6R	2009-2014	23	15048
VW	Polo 6R_6C	2010-2017	9	15059
VW	Polo 6R_	2009-2010	9	15059
VW	Polo 6R+	2014-2017	23	15048
VW	Polo 9N	2001-2005	23	15048
VW	Polo 9N_	2001-2009	9	15059
VW	Polo 9N3	2005-2009	23	15048
VW	Quantum	1982-1988	11	15061
VW	Rabbit	1975-1984	11	15061
VW	Rabbit Convertible	1980-1984	11	15061
VW	Rabbit Pickup	1980-1983	11	15061
VW	Scirocco	1975-1988	11	15061
VW	Scirocco	2015-2018	23	15048
VW	Scirocco 1K8	2009-2016	23	15048
VW	Sharan	1995-2010	18	15068
VW	Sharan 7M6	2000-2010	23	15048
VW	Sharan 7N	2010-2015	23	15048
VW	Tiguan	2007-2016	6	15056
VW	Tiguan	2010-2018	23	15048
VW	Tiguan 5N	2008-2012	23	15048
VW	Tiguan 5N+	2012-2015	23	15048
VW	Touareg	2010-2017	23	15048
VW	Touareg 7L6	2007-2010	23	15048
VW	Touareg 7LA	2003-2007	23	15048
VW	Touareg 7P	2010-2014	23	15048
VW	Touran	2003-2010	9	15059
VW	Touran	2010-2015	23	15048
VW	Touran 1T1	2003-2006	23	15048
VW	Touran 1T2	2007-2010	23	15048
VW	Transporter	1990-2003	8	15058
VW	Transporter	2003-2016	9	15059
VW	Transporter	2003-2017	9	15059
VW	Transporter T5	2003-2010	23	15048
VW	Transporter T5+	2010-2015	23	15048
VW	UP	2011-2017	23	15048
VW	UP! / e-UP! 1S	2011-2016	23	15048

# COOLING SYSTEM PRESSURE TESTER & VACUUM-TYPE COOLANT REFILL KIT

## WARRANTY

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**ARES TOOL** warrants this product (excluding carrying cases and storage accessories and the product categories set forth below) to the original purchaser for its useful life (not to exceed one year for products with electrical or electronic components) against defects and deficiencies in material and workmanship.

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