



ATD-3300

Universal Cooling System Pressure Test Kit

Owner's Manual




FEATURES:

- Quickly reveals external cooling system leaks
- Detects internal engine leaks caused by blown head gaskets and/or cracked block or heads
- Kit includes high quality hand pump and (12) adapters to fit the most popular domestic and import cars and light trucks


SAFETY WARNING AND PRECAUTIONS

General Safety Warnings:


 **WARNING:** The instructions and warnings contained in this manual should be read and understood before using or operating this tool. Do not allow anyone to use or operate this tool until they have read this manual and have developed a thorough understanding of how this tool works. Failure to observe any of the following instructions could result in severe personal injury to tool user and bystanders, or cause damage to the tool and property. Keep this manual for future reference.





Note: The warnings and cautions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.


 **WARNING:** Use safety equipment. User and bystanders should use safety goggles or safety glasses with side shields which comply with current national standards, or when needed, a face shield. Use an ANSI approved dust mask or respirator when working around metal, wood, and chemical dusts and mists. This applies to all persons in the work area. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate.

 **WARNING:** Keep bystanders and children out of the work area while operating this tool.

 **WARNING:** Always keep your work area clean, uncluttered, and well lit. Cluttered or dark areas invite accidents and injuries. DO NOT work on floor surfaces that are slippery.

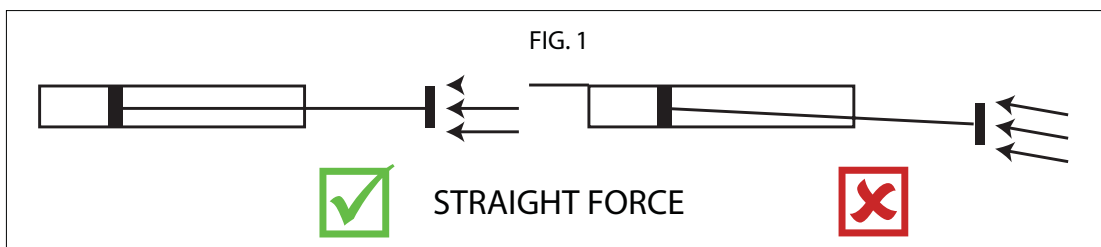
 **WARNING:** Do not operate this tool if you are tired or under the influence of alcohol, drugs, or medications that could affect your ability to use the tool properly.

 **WARNING:** Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving parts. Wear restrictive hair covering to contain long hair.

 **WARNING:** Do not reach over or across running machines. Keep proper footing and balance at all times. Non-skid footwear is recommended when working.

OPERATING INSTRUCTIONS:

- Before performing the test on your cooling system, test the pump first by pumping a few times to ensure the pump is working correctly. When testing, **DO NOT** pump over 20 psi.
- During your inspection and during the test of your cooling system, when pumping the pump handle, always make sure that the force is applied straight into the pump rather than at an angle, or else it may cause the pump to leak. (See Figure 1)



TO TEST FOR LEAKS IN COOLING SYSTEM:

1. Refer to the vehicle's service manual for any specific radiator pressure testing instructions.
2. Loosen the vehicle's radiator cap slowly to relieve any excess pressure before removing the cap completely. **NEVER OPEN THE SYSTEM WHILE HOT**, as this may cause personal injury.
3. Select the proper adapter and configuration of the stationary seat accessories. Securely attach the adapter to the filler neck of the radiator or expansion tank.
4. Attach the quick connector of the hand pump onto the adapter.
5. Rapidly pump the hand pump handle using straight force as shown in figure 1 while watching the pressure gauge. Pressurize the radiator up to the optimal pressure only - **DO NOT OVER PRESSURIZE THE RADIATOR**. Ideal readings should range between **15-20 psi (1.03-1.37 BAR)**.
 - **Needle holds steady** – If gauge hand holds at the same pressure number for 2 minutes, there are no serious leaks in the system.
 - **Needle drops slowly** – Indicates the presence of small leaks or seepage.
 - **Needle drops quickly** – Indicates serious leakage is present.
6. Once the test is complete, release the air pressure by depressing the pressure release valve on the hand pump. Then disconnect the quick coupler and adapter assembly.
7. **Maintenance** – After testing process in Radiator Test:
 - Keep the adapter connected to the pump as you had set up while performing the actual test. Operate the pump several times to dissipate moisture and/or coolant that may have remained in the adaptor and pump.
 - Oil the hand pump in order to lubricate the piston and prevent corrosion and internal damage.
8. Store the radiator pressure tester kit in its carrying case and keep the kit in a clean, dry, safe location out of reach of children and other unauthorized persons.
9. Cooling system pump:



**CAUTION: MAX PRESSURE CAN NOT EXCEED 20 psi (1.37 BAR),
OTHERWISE IT WILL DAMAGE THE RADIATOR.**



ITEM#	ORDERING PART#	PART DESCRIPTION
0	43300-0	NEEDLE THERMOMETER
1	43300-1	HANDHELD PUMP SET
2	43300-2	STEEL #2 ADAPTER
3	43300-3	STEEL #3 ADAPTER
4	43300-4	STEEL #4 ADAPTER
5	43300-5	STEEL #5 ADAPTER
6	43302-6	ALUMINUM #6 ADAPTER (BROWN)
7	43302-7	ALUMINUM #7 ADAPTER (BLUE)
8	43302-8	ALUMINUM #8 ADAPTER (CYAN)
9	43302-9	ALUMINUM #9 ADAPTER (PINK/RED)
10	43302-10	ALUMINUM #10 ADAPTER (ORANGE)
11	43302-11	ALUMINUM #11 ADAPTER (LIME)
12	43302-12	ALUMINUM #12 ADAPTER (DARK SILVER)
13	43302-13	ALUMINUM #13 ADAPTER (LIGHT GOLD)
14	43300-PB	BLOW MOLDED CASE
15	43300-G	GAUGE FOR PUMP
16	43300-H	HOSE FOR PUMP WITH COUPLER
2G	43300-2G	GASKET FOR #2 STEEL ADAPTER
3G	43300-3G	GASKET FOR #3 STEEL ADAPTER
4G	43300-4G	GASKET FOR #4 STEEL ADAPTER
5G	43300-5G	GASKET FOR #5 STEEL ADAPTER
6G	43302-6G	GASKET FOR #6 ALUMINUM ADAPTER
7G	43302-7G	GASKET FOR #7 ALUMINUM ADAPTER
8G	43302-8G	GASKET FOR #8 ALUMINUM ADAPTER
9G	43302-9G	GASKET FOR #9 ALUMINUM ADAPTER
10G	43302-10G	GASKET FOR #10 ALUMINUM ADAPTER
11G	43302-11G	GASKET FOR #11 ALUMINUM ADAPTER
12G	43302-12G	GASKET FOR #12 ALUMINUM ADAPTER
13G	43302-13G	GASKET FOR #13 ALUMINUM ADAPTER
N/S	43300-SK	SEAL KIT FOR PUMP HANDLE

ATD-3300 VEHICLE COMPATIBILITY CHART

VEHICLE	ADAPTER NUMBER
ACURA: (CL: 1997-), (Integra: 1994-1999),(Legend : 1991-1996), (MDX:2001-), (TL: 1995-)	43300-4
ACURA: (Integra: 1990-1993)	43300-3
ALFA	43302-7
AUDI	43302-7
AUDI: (1975-1993: w/ male thread on expansion tank)	43302-11
AUDI: (A4: 1996-), (A5), (A6 :1998-), (A8: 1997), (TT: 2000)	43302-9
BMW : 245	43302-6
BMW: (E46), (E36), (E34), (E39), (E38), (E32), (E90), (3 Series: 1998-), (5 Series: 1997-2003), (7 Series: 1998-)	43302-10
BMW: 345	43302-9
CHEVROLET: (Metro: 1998-1998), (Prizm: 1998), (Tracker: 1998-1998)	43300-4
CHEVROLET: (Nova: 1985-1998), (Spectrum: 1985-1988), (Sprint: 1985-1988)	43300-3
CHEVROLET: (Venture: 1997-)	43300-2
CHRYSLER: (Laser: 1991-1998)	43300-3
CHRYSLER: (Sebring: 1995-)	43300-2
CHRYSLER: Crossfire (2004-)	43302-13
CITROEN	43302-7
DODGE: (Caravan: 1989-), (Dakota: 1989-), (Stratus: 1995-)	43300-2
DODGE: (Colt: 1984-1992), (Stealth: 1991-1996)	43300-3
DODGE: (Colt: 1993-1994)	43300-4
EAGLE: (Summit: 1993-1995)	43300-4
EAGLE: (Talon: 1991-1998)	43300-3
FIAT	43302-7
FORD	43300-2
FORD	43302-12
FORD Ranger: 1987-), (Tempo: 1992-1994); (Thunderbird: 1989-1992; 1993-1997: w/VA), (WINDSTAR: 1995-)	43300-3
FORD: (Escort: 1991-), (Explorer: 1995-2001),(Festiva: 1988-1993), (Probe: 1989-1997)	43300-3
FORD: (Contour: 1995-2000), (Fiesta: 1995-), (Focus: 1998-), (Fusion: 2006-)	43302-6
GEO: (Metro: 1989-1994), (Prizm: 1998-1998), (Tracker:1989-1993)	43300-3
GEO: (Metro: 1995-1998),(Prizm: 1998-), (Prizm: 1993-1997), (Tracker: 1994-1998)	43300-4
GM	43302-12
GM (BUICK): (LeSabre: 1990-), (Park Avenue: 1991-)	43300-2
GM (CADILLAC)	43300-5
GM: (Nova), (Spectrum), (Sprint)	43300-3
HONDA: (Accord: 1990-1993), (Civic: 1988-1991),(Motorcycles: 1991-2004), (Passport:1994-), (Prelude: 1990-1998)	43300-3
HONDA: (Accord: 1994-), (Civic: 1991-), (Odyssey: 1995-), (Pilot: 2003-)	43300-4
HYUNDAI:(All:1987-)	43300-3
INFINITI: (All: 1992-)	43300-3
INTERNATIONAL	43302-12
ISUZU: (All: 1992-1997)	43300-3
ISUZU: (All: 1998-)	43300-4
JAGUAR: (All: 1990-1994), (X-Type: 2002-)	43302-6
JEEP	43300-2
JEEP	43302-7
KIA: (Sedona:2003-)	43300-3
LEXUS: (LS 400: 1990-1999), (LX 450: 1996-1999),(LX 470: 1996-1999), (RX 330: 2004-),(ES: 1994-1999),	43300-3
MAZDA: (All: 1985-1999, not 1995 Protege w/1.5L), (MPV: 1990-)	43300-3
MERCEDES	43300-3
MERCEDES: (C-class), (E-class), (S-class),(W140), (W220), (W124), (W210), (W211), (W215), (W216), (W221), (R230),	43302-13
MERCEDES: (w/ thread filler neck on expansion tank, except M-Class & E-Class:1996-)	43302-13
MERCEDES: (W123, W126, W124, W201)	43300-2
MERCURY: (Cougar: 1989-1992), (Cougar: 1993-1997 w/V6), (Topaz: 1992-1994), (Tracer: 1991-1999)	43300-3
MERCURY: (Villager: 1993-), (Villager: 1995-1999)	43300-3
MITSUBISHI: (Montero: 1989-1998), (Starion : 1989-1993)	43300-3
MITSUBISHI: (3000GT: 1991-1998),(Diamante: 1992-1995), (Galant:1985-1993),(Mirage: 1985-1992)	43300-3
MITSUBISHI: (Diamante: 1996-),(Galant: 1994-), (Mirage: 1993-), (Montero Sport: 1997-)	43300-4
NISSAN: (All: 1987-)	43300-3
OLDSMOBILE: (Silhouette: 1990-)	43300-2
OPEL	43302-6
PEUGEOT	43300-3
PEUGEOT	43302-7
PONTIAC: (Bonneville: 1990-), (Grand Prix: -2003)	43300-2
PORSCHE: (Cayenne)	43302-9
RENAULT	43302-7
ROVER	43302-12
SAAB	43302-7
SAAB: (900: 1994-1998)	43302-6
SUBARU: (All: 1984-)	43300-3
SUZUKI: (1983-1995 w/16 mm deep neck)	43300-3
SUZUKI: (1989-1999:w/9mm deep neck), (XL-7: 2001-)	43300-4
TOYOTA (Corolla 1993-), (Echo: 2000-), (Paseo: 1992-1997), (RAV4: 1996-), (Supra: 1990-1992 turbo), (Tercel: 1991-1999)	43300-4
TOYOTA: (4Runner: 1969-), (Camry: 1990-1991: V6 w/ auto. trans.), (Camry: 1992-), (Celica: 1990-1998)	43300-4
TOYOTA: (4Runner: 1986-1995), (Avalon: 1995-), (Camry: 1983-1989), (Camry: 1990-1991),	43300-3
TOYOTA: (Camry:1994-1999:4cylinder), (Celica: 1982-1989), (Corolla: 1983-1992),(Cressida: 1985-1992)	43300-3
TOYOTA: (Land Cruiser: 1987-), (Pickup: 1983-1992), (Previa: 1989-1997), (Sienna: 1998-1999), (Solara: 1998-)	43300-3
TOYOTA: (Starlet: 1983-1984), (Supra L: 1986-1992: Not turbo), (T100: 1995-1998), (Tacoma: 1995-), (Tercel:1983-1990)	43300-3
VOLVO	43302-7
VW	43302-6
VW: 1975-1993: w/male thread in the expansion tank	43302-11
VW : 1990-1998: w/ female thread on filler neck of expansion tank- (except 1998 Passt & new Beetle), (Eurovan: 1990-2003), (Golf: 1993-1998)	43302-8
VW T4: (Passat: 1997-2002), (Beetle: 1998-), (Golf: 1999-), (Jetta: 1999-), (Passat: 1998-)	43302-9
VW: (Vento), (T4), (Passa-1996), (Golf), (Beetle), (Sharan)	43302-8



ATD[®]

WARRANTY

1 YEAR LIMITED WARRANTY

THIS WARRANTY AND CONFIRMED RECEIPT(S) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

INVOICE/RECEIPT NUMBER: _____

Your ATD-3300 is warranted for a period of 12 months from the original purchase date.

For a period of one (1) year from your purchase date, ATD Tools Inc. will repair or replace (at its option) without charge, your ATD product if it was purchased new and the product has failed due to a defect in material or workmanship which you experienced during normal use of the product. This limited warranty is your exclusive remedy.

To access the benefits of this warranty, contact your supplier, or point of sale directly. You may be advised to return the product under warranty, freight prepaid, to your supplier for warranty determination.

If this ATD product is altered, abused, misused, modified, or undergoes service by an unauthorized technician, your warranty will be void. We are not responsible for damage to ornamental designs you place on this ATD product and such ornamentation should not cover any warnings or instructions or they may void the warranty. This warranty does not cover scratches, superficial dents, and other abrasions to the paint finish that occur under normal use. It also does not cover normal wear items such as but not limited to brushes, batteries, drill bits, drill chucks, pads or blades.

Subject to the law in your state:

- (1) Your sole and exclusive remedy is repair or replacement of the defective product as described above.
- (2) ATD is not liable for any incidental damages, including but not limited to, lost profits and unforeseeable consequences.
- (3) The repair and replacement of this product under the express limited warranty described above is your exclusive remedy and is provided in lieu of all other warranties, express or implied. All other warranties, including implied warranties and warranties of merchantability or fitness for a particular purpose are disclaimed and, if disclaimer is prohibited, these warranties are limited to one year from your date of purchase of this product.

Some states' laws do not allow limited durations on certain implied warranties and some states' laws do not allow limitations on incidental or consequential damages. You should consult the law in your state to determine how your rights may vary.

[Affix receipt or invoice here for safe keeping]