



**ATD-3300**

**UNIVERSAL COOLING SYSTEM PRESSURE TEST KIT  
INSTRUCTIONS**




**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.

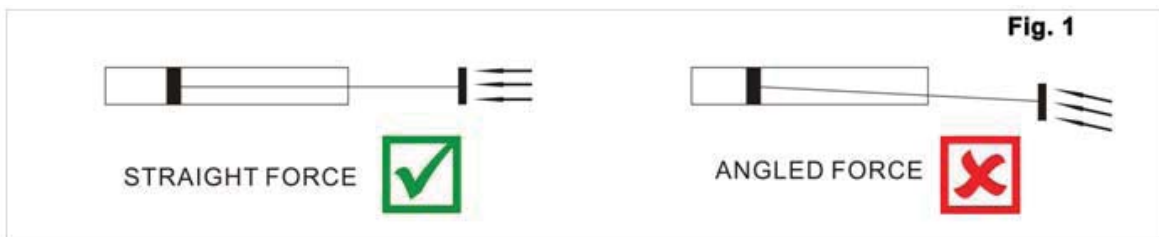
 **WARNING:** Do not operate this tool if you are tired or under the influence of alcohol, drugs, or medications that could affect your ability to use the tool properly.

 **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.

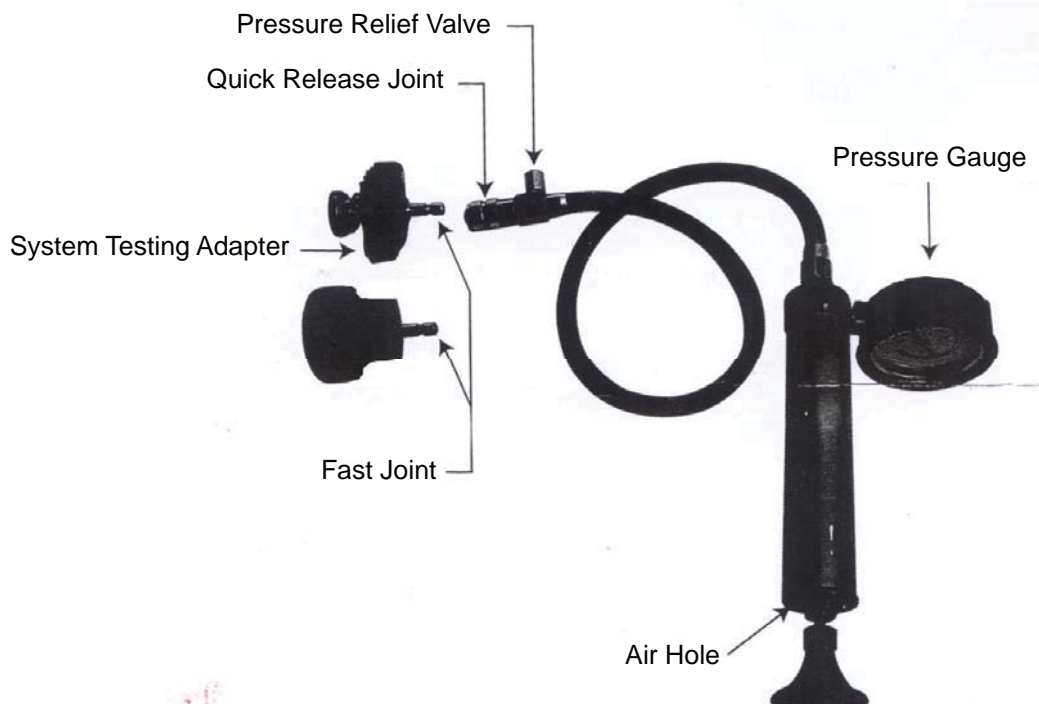
## OPERATING INSTRUCTIONS:

- 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 **15-20PSI (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 adaptor 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 (1.37BAR),  
OTHERWISE IT WILL DAMAGE THE RADIATOR.**



**ATD-3300**





ITEM#	ORDERING PART#	PART DESCRIPTION
0	PRT3300-0	NEEDLE THERMOMETER
1	PRT3300-1	HANDHOLD PUMP SET
2	PRT3300-2	BENZ, GM (BUICK), JEEP
3	PRT3300-3	PEUGEOT, SUBARU, CHRYSLER, ACURA, GM (NOVA, SPECTRUM, SPRINT), MITSUBISHI, NISSAN, MAZDA, TOYOTA, INFINITI, GEO, SUZUKI, ISUZU
4	PRT3300-4	HONDA, TOYOTA, SUZUKI, MITSUBISHI, CHEVROLET, ACURA
5	PRT3300-5	GM (CADILLAC)
6	PRT3300-6	BMW, FORD, JAGUAR, OPEL, SAAB, VW
7	PRT3300-7	VOLVO, SAAB, AUDI, CITRON, RENAULT, FIAT, PEUGEOT, ALFA, JEEP
8	PRT3300-8	VW (VENTO, T4, PASSAT-1996, GOLF)
9	PRT3300-9	VW (PASSAT-1997-2002), AUDI (A4, A5, A6), BMW 345
10	PRT3300-10	BMW
11	PRT3300-11	AUDI, VW
12	PRT3300-12	FORD, INTERNATIONAL, GM, ROVER
13	PRT3300-13	MERCEDES BENZ
14	PRT3300-14	BLOW MOLDED CASE
2G	PRT3300-2G	GASKET FOR #2 ADAPTER
3G	PRT3300-3G	GASKET FOR #3 ADAPTER
4G	PRT3300-4G	GASKET FOR #4 ADAPTER
5G	PRT3300-5G	GASKET FOR #5 ADAPTER
6G	PRT3300-6G	GASKET FOR #6 ADAPTER
7G	PRT3300-7G	GASKET FOR #7 ADAPTER
8G	PRT3300-8G	GASKET FOR #8 ADAPTER
9G	PRT3300-9G	GASKET FOR #9 ADAPTER
10G	PRT3300-10G	GASKET FOR #10 ADAPTER
11G	PRT3300-11G	GASKET FOR #11 ADAPTER
12G	PRT3300-12G	GASKET FOR #12 ADAPTER
13G	PRT3300-13G	GASKET FOR #13 ADAPTER
G	PRT3300-G	GAUGE FOR PUMP
H	PRT3300-H	HOSE FOR PUMP WITH COUPLER
N/A	PRT3300-SK	SEAL KIT FOR HANDLE PUMP



## ATD-3300 VEHICLE COMPATIBILITY CHART

VEHICLE	ADAPTER NUMBER
ACURA: (CL: 1997-), (Integra: 1994-1999), (Legend : 1991-1996), (MDX:(2001-), (TL: 1995-)	PRT3300-4
ACURA: (Integra: 1990-1993)	PRT3300-3
ALFA	PRT3300-7
AUDI	PRT3300-7
AUDI: (1975-1993: w/ male thread on expansion tank)	PRT3300-11
AUDI: (A4: 1996-), (A5), (A6 :1998-), (A8: 1997), (TT: 2000)	PRT3300-9
BMW : 245	PRT3300-6
BMW: (E46), (E36), (E34), (E39), (E38), (E32), (E90), (3 Series: 1998-), (5 Series: 1997-2003), (7 Series: 1998-)	PRT3300-10
BMW: 345	PRT3300-9
CHEVROLET: (Metro: 1998-1998), (Prizm: 1998), (Tracker: 1998-1998)	PRT3300-4
CHEVROLET: (Nova: 1985-1998), (Spectrum: 1985-1988), (Sprint: 1985-1988)	PRT3300-3
CHEVROLET: (Venture: 1997-)	PRT3300-2
CHRYSLER: (Laser: 1991-1998)	PRT3300-3
CHRYSLER: (Sebring: 1995-)	PRT3300-2
CHRYSLER: Crossfire ( 2004-)	PRT3300-13
CITROEN	PRT3300-7
DODGE: (Caravan: 1989-), (Dakota: 1989-), (Stratus: 1995-)	PRT3300-2
DODGE: (Colt: 1984-1992), (Stealth: 1991-1996)	PRT3300-3
DODGE: (Colt: 1993-1994)	PRT3300-4
EAGLE: (Summit: 1993-1995)	PRT3300-4
EAGLE: (Talon: 1991-1998)	PRT3300-3
FIAT	PRT3300-7
FORD	PRT3300-2
FORD	PRT3300-12
FORD Ranger: 1987-), (Tempo: 1992-1994); (Thunderbird: 1989-1992; 1993-1997: w/VA), (WINDSTAR: 1995-)	PRT3300-3
FORD: (Escort: 1991-), (Explorer: 1995-2001), (Festiva: 1988-1993), (Probe: 1989-1997)	PRT3300-3
FORD: (Contour: 1995-2000), (Fiesta: 1995-), (Focus: 1998-), (Fusion: 2006-)	PRT3300-6
GEO: (Metro: 1989-1994), (Prizm: 1998-1998), (Tracker:1989-1993)	PRT3300-3
GEO: (Metro: 1995-1998), (Prizm: 1998-), (Prizm: 1993-1997), (Tracker: 1994-1998)	PRT3300-4
GM	PRT3300-12
GM (BUICK): ( LeSabre: 1990-), (Park Avenue: 1991-)	PRT3300-2
GM (CADILLAC)	PRT3300-5
GM: (Nova), (Spectrum), (Sprint)	PRT3300-3
HONDA: (Accord: 1990-1993), (Civic: 1988-1991), ( Motorcycles: 1991-2004), (Passport:1994-), (Prelude: 1990-1998)	PRT3300-3
HONDA: (Accord: 1994-), (Civic: 1991-), (Odyssey: 1995-), (Pilot: 2003-)	PRT3300-4
HYUNDAI:(All:1987-)	PRT3300-3
INFINITI: (All: 1992-)	PRT3300-3
INTERNATIONAL	PRT3300-12
ISUZU: (All: 1992-1997)	PRT3300-3
ISUZU: (All: 1998-)	PRT3300-4
JAGUAR: (All: 1990-1994), (X-Type: 2002-)	PRT3300-6
JEEP	PRT3300-2
JEEP	PRT3300-7
KIA: (Sedona:2003-)	PRT3300-3
LEXUS: (LS 400: 1990-1999), (LX 450: 1996-1999), (LX 470: 1996-1999), (RX 330: 2004-), ( ES: 1994-1999),	PRT3300-3
MAZDA: (All: 1985-1999, not 1995 Protege w/1.5L), (MPV: 1990-)	PRT3300-3
MERCEDES	PRT3300-3
MERCEDES: (C-class), (E-class), (S-class), ( W140), (W220), (W124), (W210), (W211), (W215), (W216), (W221), (R230),	PRT3300-13
MERCEDES: (w/ thread filler neck on expansion tank, except M-Class & E-Class:1996-)	PRT3300-13
MERCEDES: (W123, W126, W124, W201)	PRT3300-2
MERCURY: (Cougar: 1989-1992), (Cougar: 1993-1997 w/V6), (Topaz: 1992-1994), (Tracer: 1991-1999)	PRT3300-3
MERCURY: (Villager: 1993-), (Villager: 1995-1999)	PRT3300-3
MINI: (Montero: 1989-1998), (Starion : 1989-1993)	PRT3300-3
MITSUBISHI: (3000GT: 1991-1998), ( Diamante: 1992-1995), (Galant:1985-1993), ( Mirage: 1985-1992)	PRT3300-3
MITSUBISHI: (Diamante: 1996-), (Galant: 1994-), (Mirage: 1993-), (Montero Sport: 1997-)	PRT3300-4
NISSAN: (All: 1987-)	PRT3300-3
OLDSMOBILE: (Silhouette: 1990-)	PRT3300-2
OPEL	PRT3300-6
PEUGEOT	PRT3300-3
PEUGEOT	PRT3300-7
PONTIAC: (Bonneville: 1990-), (Grand Prix: -2003)	PRT3300-2
PORSCHE: (Cayenne)	PRT3300-9
RENAULT	PRT3300-7





## ATD-3300 VEHICLE COMPATIBILITY CHART

VEHICLE	ADAPTER NUMBER
ROVER	PRT3300-12
SAAB	PRT3300-7
SAAB: (900: 1994-1998)	PRT3300-6
SUBARU: (All: 1984-)	PRT3300-3
SUZUKI: (1983-1995 w/16 mm deep neck)	PRT3300-3
SUZUKI: (1989-1999:w/9mm deep neck), (XL-7: 2001-)	PRT3300-4
TOYOTA (Corolla 1993-), (Echo: 2000-), (Paseo: 1992-1997), (RAV4: 1996-), (Supra: 1990-1992 turbo), (Tercel: 1991-1999)	PRT3300-4
TOYOTA: (4Runner: 1969-), (Camry: 1990-1991: V6 w/ auto. trans.), (Camry: 1992-), (Celica: 1990-1998)	PRT3300-4
TOYOTA: (4Runner: 1986-1995), (Avalon: 1995-), (Camry: 1983-1989), (Camry: 1990-1991),	PRT3300-3
TOYOTA: (Camry:1994-1999:4cylinder), (Celica: 1982-1989), (Corolla: 1983-1992),( Cressida: 1985-1992)	PRT3300-3
TOYOTA: (Land Cruiser: 1987-), (Pickup: 1983-1992), (Previa: 1989-1997), (Sienna: 1998-1999), (Solara: 1998-)	PRT3300-3
TOYOTA: (Starlet: 1983-1984), (Supra L: 1986-1992: Not turbo), (T100: 1995-1998), (Tacoma: 1995-), (Tercel:1983-1990)	PRT3300-3
VOLVO	PRT3300-7
VW	PRT3300-6
VW: 1975-1993: w/male thread in the expansion tank	PRT3300-11
VW : 1990-1998: w/ female thread on filler neck of expansion tank- (except 1998 Passat & new Beetle), (Eurovan: 1990-2003), (Golf: 1993-1998)	PRT3300-8
VW T4: (Passat: 1997-2002), (Beetle: 1998-), (Golf: 1999-), (Jetta: 1999-), (Passat: 1998-)	PRT3300-9
VW: (Vento), (T4), (Passa-1996), (Golf), (Beetle), (Sharan)	PRT3300-8