



ATD-3302

25 PC MASTER 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
- Easily test entire cooling system; including radiator, heater core & radiator cap

APPLICATIONS INCLUDE:

GM, Ford, Dodge/Chrysler, Jeep, Acura, Audi, BMW, GEO, Honda, Infinity, Isuzu, Kia, Land Rover, Lexus, Mazda, Mercedes, Mitsubishi, Nissan, Subaru, Suzuki, Toyota, Volvo, VW & more.





WARNING: This product contains chemicals, including lead, known to the State of California to cause cancer, birth defects or other reproductive harm. **Wash hands after handling.**


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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.

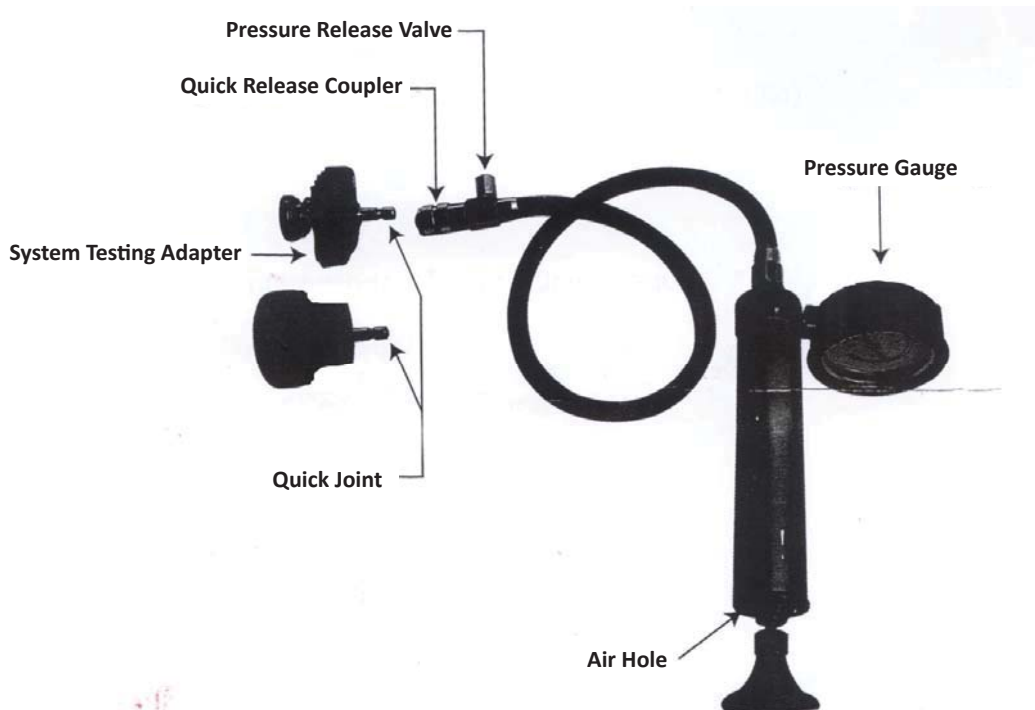
OPERATING INSTRUCTIONS:

- Before performing the test on your cooling system, test the pump first by pumping 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 securely attach the adapter to the filler neck of the radiator or expansion tank.
4. Attach the quick release coupler from the hand pump to the quick joint on the system testing 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 the 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 hose, then disconnect the quick coupler and adapter assembly.
7. **Maintenances** – 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.**

TO TEST FOR LEAKS IN ORIGINAL RADIATOR CAP:

1. Choose the correct radiator cap connector (5A or 5B) and correct steel radiator cap (#02, #03, or #04) for the correct vehicle being tested from the test kit. Fasten the original radiator cap to the radiator cap connector (5A or 5B) and then fasten the steel radiator cap (#02, #03, or #04) from the test kit to the other end of the radiator cap connector(5A or 5B).
2. Remove the hand pump assembly (#1) from the test kit and fasten the quick coupler at the end of the hose to the radiator cap (#02, #03, or #04) securely. Operate the hand pump until reaching the pressure recommended by the vehicle manufacturer. - **DO NOT OVER PRESSURIZE**. Ideal readings should range between **15-20PSI (1.03-1.37BAR)**.
3. Check the pressure reading on the gauge immediately after reaching the vehicle manufacturer's recommended pressure. If the pressure drops, there is a leak in the radiator cap. After pressure testing is completed, press the release button on the quick coupler until the reading on the gauge reads 0. Remove quick coupler from radiator cap and then remove the original radiator cap from the original radiator cap connector. Discard original radiator cap and replace with new cap if leaking or if it does not meet vehicle manufacturer's recommendations.





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ATD-3302 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
ALFA	PRT3301-20
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: (E60, E63,E64, E65)	PRT3301-17
BMW: 345	PRT3300-9
BMW: Late Model	PRT3302-22
CADILLAC: (SEVILLE: 1998-2003); (FLEETWOOD: 1994-1996); (ESCALADE: 1999&NEWER); (CTS: 2003)	PRT3301-21
CHEVEROLET: (CAPRICE 1995-1996); (CAMARO: 1999); (BERETTA: 1992-1996); (TRACKER:1999); (TRAILBLAZER: 2001-2002)	PRT3301-21
CHEVEROLET: (IMPALA SS: 1994-1996); (CORSICA: 1992-1996); (COBALT: 2005-2009); (CAVALIER: 1995-1999)	PRT3301-21
CHEVEROLET: (SILVERADO 1500: (1999-2009); (METRO: 1999); (PRIZM: 1999); (MALIBU: 1997-1999); (CORVETTE: 1999)	PRT3301-21
CHEVROLET: (Metro: 1998-1998), (Prizm: 1998), (Tracker: 1998-1998)	PRT3301-4
CHEVROLET: (Nova: 1985-1998), (Spectrum: 1985-1988), (Sprint: 1985-1988)	PRT3300-3
CHEVROLET: (TAHOE: 1999-2009); (SILVERADO2500: 1999-2009); (SUBURBAN: 2000-2009)	PRT3301-21
CHEVROLET: (Venture: 1997-)	PRT3300-2
CHRYSLER: (Laser: 1991-1998)	PRT3300-3
CHRYSLER: (Sebring: 1995-)	PRT3300-2
CHRYSLER: Crossfire (2004-)	PRT3300-13
CITROEN	PRT3300-7
CITROEN	PRT3301-20
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
FIAT	PRT3301-20
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
FORD: (FIVE HUNDRED: 2005); (F-150: 2004-2005); (EXCURSION: 2002-2004) (EXPLORER: 2002-2005); (TAURUS: 1996-2006)	PRT3301-21
FORD: (FOCUS: 2011-2012)	PRT3301-15
FORD: (MONDEO), (FOCUS), (C-MAX03)	PRT3301-14
FORD: Late Model	PRT3302-23
FREIGHTLINER: (DIESEL TRUCK: 2004)	PRT3301-21
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: (ALL MODELS WITH PLASTIC THREADED NECK: 1992-2009)	PRT3301-21
GM: (Nova), (Spectrum), (Sprint)	PRT3300-3
GM: Late Model	PRT3302-23
GMC: (ENVOY: 2002); (SIERRA 1500: 1999-2003); (SIERRA 2500: 1999-2003); (YUKON: 1999)	PRT3301-21
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
JAGUAR: (S TYPE: 2000-2003)	PRT3301-21
JEEP	PRT3300-2
JEEP	PRT3300-7
JEEP	PRT3301-20
KIA: (Sedona:2003-)	PRT3300-3
LAND ROVER: (FREELANDER: 2005);(LR3: 2005-2007)	PRT3301-21
LAND ROVER: Late Model	PRT3302-22
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
MAZDA: (M3: 2004-)	PRT3301-15
MERCEDES	PRT3300-3
MERCEDES: (A-CLASS : W168)	PRT3301-16



ATD-3302 VEHICLE COMPATIBILITY CHART

VEHICLE	ADAPTER NUMBER
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: (COOPER S: 2002-)	PRT3301-20
MINI: (COOPER S: 2002-)	PRT3301-20
MITSUBISHI: (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: (ACHIEVA: 1992-1998); (ALERO: 1999); (AURORA: 1995-1999); (CUTLASS: 1997-1998); (INTRIGUE: 1999-2000)	PRT3301-21
OLDSMOBILE: (Silhouette: 1990-)	PRT3300-2
OPEL	PRT3300-6
PEUGEOT	PRT3300-3
PEUGEOT	PRT3300-7
PEUGEOT: (206: 1999-), (307: 2004-), (406: 1999-), (407: 2004-), (807: 2004-)	PRT3301-20
PONTIAC: (Bonneville: 1990-), (Grand Prix: -2003)	PRT3300-2
PONTIAC: (GRAND AM: 1992-1999); (SUNFIRE: 1995-1999); (G6: 2005)	PRT3301-21
PORSCHE: (Cayenne)	PRT3300-9
RENAULT	PRT3300-7
RENAULT: (ALL : 1985-1987); (AVANTIME: 2002-), (ESPACE: 2002-)	PRT3301-20
ROVER	PRT3300-12
SAAB	PRT3300-7
SAAB : (900: 1978-1993), (9000: 1986-1998)	PRT3301-20
SAAB: (9,3: 2003-2004)	PRT3301-21
SAAB: (900: 1994-1998)	PRT3300-6
SATURN: (ALL MODELS:1990-1999); (VUE: 2003) ;(ION: 2005)	PRT3301-21
STERLING: (ALL: 1987-1991)	PRT3301-20
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: 1989-), (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: (RAV4), (PREVIA), (CELICA: 2000-), (MR2 SPYDER: 2000-)	PRT3301-19
TOYOTA: (Starlet: 1983-1984), (Supra L: 1986-1992: Not turbo), (T100: 1995-1998), (Tacoma: 1995-), (Tercel:1983-1990)	PRT3300-3
VOLVO	PRT3300-7
VOLVO : (PASSENGER VEHICLES W/ THREADED NECK)	PRT3301-20
VW	PRT3300-6
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 SHARAN 1.8T 2.8	PRT3301-18
VW T4: (Passat: 1997-2002), (Beetle: 1998-), (Golf: 1999-), (Jetta: 1999-), (Passat: 1998-)	PRT3300-9
VW: (1975-1993: w/ male thread on exp. tank)	PRT3300-11
VW: (Vento), (T4), (Passa-1996), (Golf), (Beetle), (Sharan)	PRT3300-8



ATD-3302 PARTS LISTING

ITEM	ORDERING PART#	DESCRIPTION
0	PRT3300-0	NEEDLE THERMOMETER
1	PRT3300-1	HANDHOLD PUMP SET
2	PRT3300-2	#2 STEEL ADAPTER
3	PRT3300-3	#3 STEEL ADAPTER
4	PRT3300-4	#4 STEEL ADAPTER
6	PRT3300-6	#6 ALUMINUM ADAPTER
7	PRT3300-7	#7 ALUMINUM ADAPTER
8	PRT3300-8	#8 ALUMINUM ADAPTER
9	PRT3300-9	#9 ALUMINUM ADAPTER
10	PRT3300-10	#10 ALUMINUM ADAPTER
11	PRT3300-11	#11 ALUMINUM ADAPTER
12	PRT3300-12	#12 ALUMINUM ADAPTER
13	PRT3300-13	#13 ALUMINUM ADAPTER
14	PRT3301-14	#14 ALUMINUM ADAPTER
15	PRT3301-15	#15 ALUMINUM ADAPTER
16	PRT3301-16	#16 ALUMINUM ADAPTER
17	PRT3301-17	#17 ALUMINUM ADAPTER
18	PRT3301-18	#18 ALUMINUM ADAPTER
19	PRT3301-19	#19 ALUMINUM ADAPTER
20	PRT3301-20	#20 ALUMINUM ADAPTER
21	PRT3301-21	#21 ALUMINUM ADAPTER
22	PRT3302-22	#22 ALUMINUM ADAPTER
23	PRT3302-23	#23 ALUMINUM ADAPTER
5A	PRT3301-5A	RADIATOR CAP TEST CONNECTOR FOR #2 & #3-BLACK
5B	PRT3301-5B	RADIATOR CAP TEST CONNECTOR FOR #2 & #4-BLUE

ITEM	ORDERING PART#	DESCRIPTION
24	PRT3302-24	BLOW MOLD CASE
H	PRT3300-H	HOSE FOR PUMP WITH COUPLER
N/A	PRT3300-2G	GASKET FOR #2 ADAPTER
N/A	PRT3300-3G	GASKET FOR #3 ADAPTER
N/A	PRT3300-4G	GASKET FOR #4 ADAPTER
N/A	PRT3300-6G	GASKET FOR #6 ADAPTER
N/A	PRT3300-7G	GASKET FOR #7 ADAPTER
N/A	PRT3300-8G	GASKET FOR #8 ADAPTER
N/A	PRT3300-9G	GASKET FOR #9 ADAPTER
N/A	PRT3300-10G	GASKET FOR #10 ADAPTER
N/A	PRT3300-11G	GASKET FOR #11 ADAPTER
N/A	PRT3300-12G	GASKET FOR #12 ADAPTER
N/A	PRT3300-13G	GASKET FOR #13 ADAPTER
N/A	PRT3301-14G	GASKET FOR #14 ADAPTER
N/A	PRT3301-15G	GASKET FOR #15 ADAPTER
N/A	PRT3301-16G	GASKET FOR #16 ADAPTER
N/A	PRT3301-17G	GASKET FOR #17 ADAPTER
N/A	PRT3301-18G	GASKET FOR #18 ADAPTER
N/A	PRT3301-19G	GASKET FOR #19 ADAPTER
N/A	PRT3301-20G	GASKET FOR #20 ADAPTER
N/A	PRT3301-21G	GASKET FOR #21 ADAPTER
N/A	PRT3302-22G	GASKET FOR #22 ADAPTER
N/A	PRT3302-23G	GASKET FOR #23 ADAPTER
N/A	PRT3300-SK	SEAL KIT FOR HANDLE PUMP