

# INSTRUCTIONS FOR: COOLING SYSTEM VACUUM PURGE AND RE-FILL KIT



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.**

## 1. SAFETY INSTRUCTIONS

- ✓ Follow workshop Health & Safety rules, regulations and conditions when using this equipment.
- ❑ **WARNING!** Disconnect from air supply before changing accessories or servicing.
- ✓ Maintain the equipment in good condition and replace any damaged or worn parts. *Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.*
- ❑ **WARNING!** Check that correct air pressure is maintained and **DOES NOT** exceed 100psi.
- ✓ Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use and ensure that all connections are secure.
- ✓ Wear approved safety gloves and eye and ear protection.
- ✓ Keep WT-914.1 clean and in good working order for best and safest performance.
- x **DO NOT** use the WT-914.1 for a task it is not designed to perform.
- ❑ **WARNING! DO NOT** use WT-914.1 if damaged or thought to be faulty.
- x **DO NOT** drop, throw or abuse the WT-914.1.
- x **DO NOT** carry the WT-914.1 by the air hose, or yank the hose from the air supply.
- x **DO NOT** operate the WT-914.1 if you are tired or under the influence of alcohol, drugs or intoxicating medication.
- x **DO NOT** direct air from the air hose at yourself or others.
- ✓ Keep children and unauthorised persons away from the work area.
- ✓ When not in use disconnect from air supply and store in a safe, dry, childproof location.
- ❑ **WARNING!** The warnings, cautions and instructions referred to in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

## 2. INTRODUCTION & SPECIFICATION

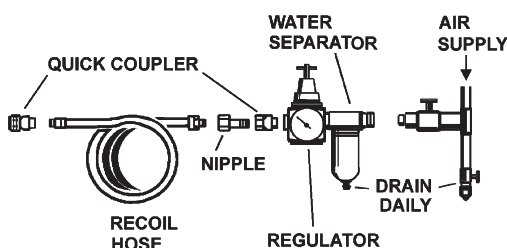
Dramatically reduces cooling system refill time, without mess and without introducing air-locks. No more time consuming cooling system bleeding and no more messy spills to clean up. Simply plug into the workshop air line, attach to the cooling system header tank and create a vacuum. Complete the process by attaching the filler hose and opening the valve allowing your pre-mixed coolant to flow into the system.

Air Pressure (max) .....100psi (6.9 bar)  
Air Pressure (min)......80psi (5.5 bar)

## 3. AIR SUPPLY

*Recommended hook-up is shown below.*

- ❑ **WARNING!** Ensure that the air supply is clean and does not exceed 100psi. Too high an air pressure or unclean air will shorten the life of the filler, due to excessive wear, and may be dangerous, causing damage and/or personal injury.
- 3.1. Drain the air tank daily.
  - 3.2. Clean compressor air inlet filter weekly.
  - 3.3. Keep hose away from heat, oil and sharp edges. Check hose for wear and make certain that all connections are secure.



## 4. OPERATING INSTRUCTIONS

- ❑ **WARNING! Ensure you read, understand and apply safety instructions before use.**

### 4.1. Preparation.

- 4.1.1. Set vehicle heater control to 'On' and/or 'Hot'.
- 4.1.2. Drain and flush coolant system.
- 4.1.3. Inspect all coolant system components and repair/replace any unserviceable items.
- 4.1.4. Prepare a suitable coolant mix (see vehicle hand book). Mix 10% more than the system volume to ensure that the filler hose will always be submerged.
- 4.1.5. Connect the WT-914.1 to the air system, as described in Section 3.

### 4.2. Suction Filling.

- 4.2.1. Raise the container of coolant level with the fill point. Using a suitable bush (fig.1) fit WT-914.1 into the filler neck of the radiator (or header tank, if fitted). Insert and support the air line so that WT-914.1 is not pulled off centre.

**NOTE: On some vehicles fitted with an overflow tank, it may be necessary to clamp the overflow hose.**

- 4.2.2. Open the valve (Fig.2) and turn on the air supply.
- 4.2.3. Allow the vacuum level to reach approximately 20-25inHg (50-60cmHg) and close the valve (Fig.3).

**NOTE: During this procedure the radiator hoses will collapse under the vacuum being generated - this is normal.**

- 4.2.4. Turn off and disconnect the air supply and remove the vacuum pump, check the gauge over the next 3 minutes. If the gauge reading drops there is a system leak which will require locating and rectifying before proceeding further.
- 4.2.5. Place the filler hose into the container of coolant and connect the other end of the hose into the WT-914.1 (Fig.4). Ensure that the end of the hose remains submerged throughout the filling process.
- 4.2.6. Open the valve fully and coolant will flow into the cooling system. For best results raise the coolant container above the level of the filler neck.
- 4.2.7. When the gauge reads '0' turn the valve to the off position and remove WT-914.1 from the filler neck. If necessary top-up the coolant to the specified level and refit the pressure cap. The system is filled and free from air locks.
- 4.2.8. Start the engine and run until normal operating temperature is reached. Allow to cool and top-up coolant if necessary.
- 4.2.9. It is advisable to now pressure test the system and to check the operation of the thermostat and cooling fan(s).
- 4.2.10. When not in use, disconnect from air supply, clean and store in a safe, dry, childproof location.

