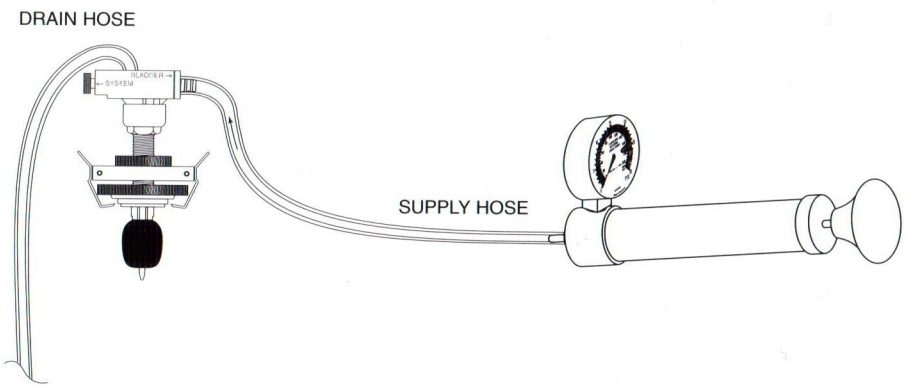
CONTENTS

FEATURES

- Universal fitment to most passenger and light commercial vehicles eliminating the need for multiple adaptors.
- Suitable for motorcycle and marine applications.
- Fluid drain hose allows coolant to be returned to the coolant reservoir or safely collected in a container for recycling.

ASSEMBLY

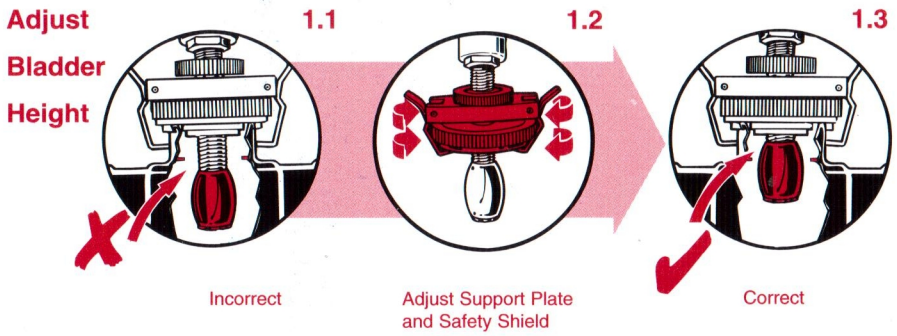
- Connect 1500mm (59") hose to drain port on analyser.



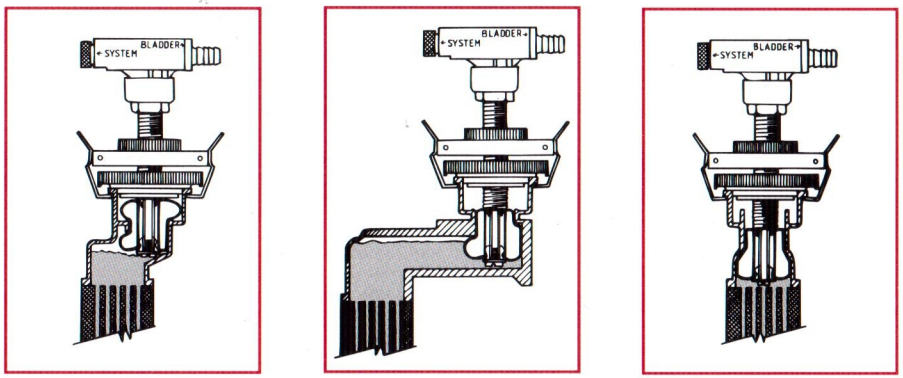
1. ATTACHING TO SYSTEM

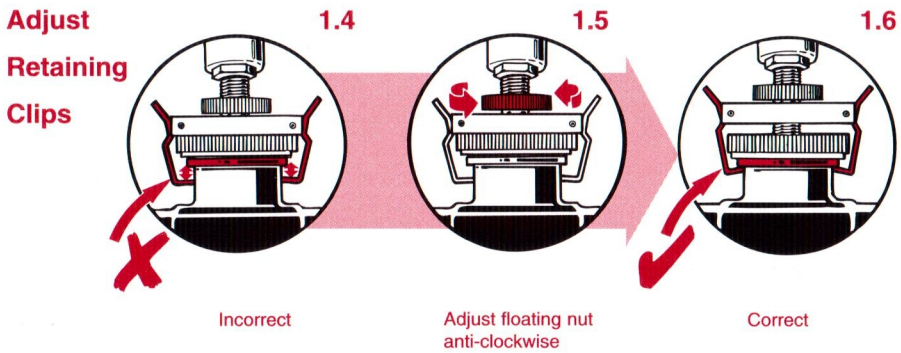
Prior to Testing

1. Remove radiator pressure cap (observing precautions inside front cover) and check condition. Adjust heater control to 'heat' position.
2. Inspect filler neck for any sharp obtrusions that may damage the bladder and remove if necessary.
3. Check coolant level and top up if required.
4. To ensure secure fitting and positive sealing it is desirable that the analyser be adjusted so that **two-thirds of the bladder (Fig. 1.3)** is below the lower flange of the radiator or header tank neck before being inflated.
5. To ensure this setting is correct, use the following steps:



NOTE: It may not always be possible to adjust the bladder to the desirable position (two-thirds of bladder below lower flange). The flexible nature of the inflatable bladder will create the required seal in these applications. See below for examples:

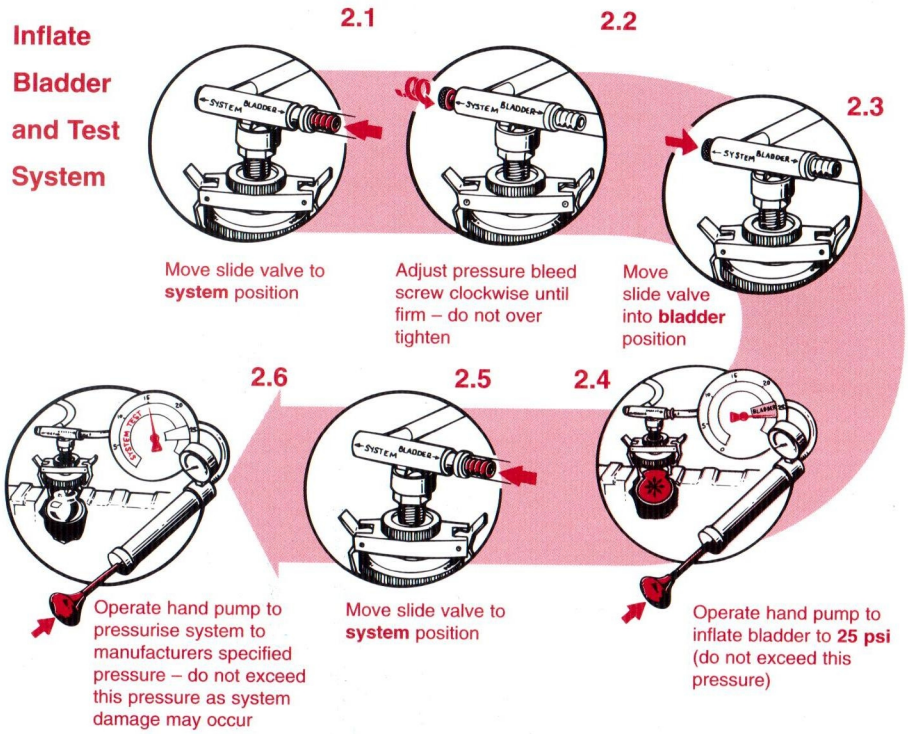




2. PRESSURE TESTING

- Do not run engine while pressure testing.
- Prior to testing place drain hose into coolant reservoir or suitable clean container.

Inflate Bladder and Test System



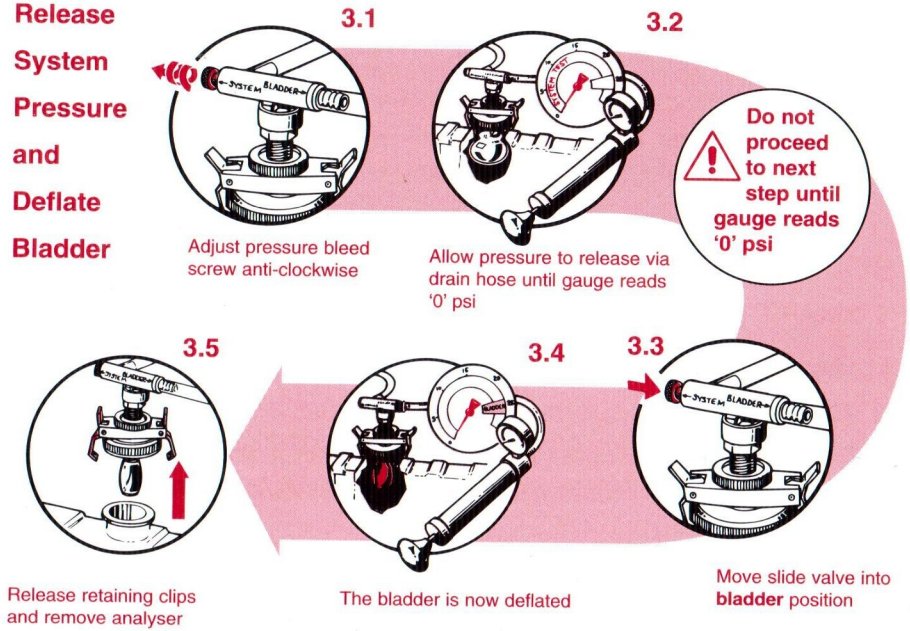
- If system pressure is maintained no serious leaks are present.
- A pressure drop indicates a system leak.

NOTE: If testing is being carried out on a warm engine a pressure drop may occur due to engine cool down, which may not be due to a leak. Pressurise and inspect again after cool down is complete.

- Continued Pressure Drop
  - Visually inspect for external leaks.

3. REMOVAL FROM SYSTEM

Release System Pressure and Deflate Bladder



CARE AND MAINTENANCE

This unit is a testing instrument and should be treated accordingly. Keep unit clean by rinsing with *water* after each use to prevent internal components sticking.

NOTE: Do not use harsh chemicals or solvents.

The rubber bladder and safety seal will wear with normal use. Replace bladder or safety seal if any deterioration is noted.

BLADDER REPLACEMENT

1. Remove centre tube mounting screw (A) from base of centre tube (5).
2. Remove centre tube flange (6).
3. Remove bladder (13) from stem (4).
4. Install new bladder onto stem using a twisting action. (Use water as a lubricant if required – Do not use grease or other lubricants).
5. Install centre tube flange.
6. Install centre tube mounting screw with 'O'-ring and tighten fully.

   Note: Do not over tension.
7. Inflate bladder to 20 psi three or four times to condition and stretch material.
8. With bladder inflated, immerse in water to test for leaks.

TROUBLE SHOOTING

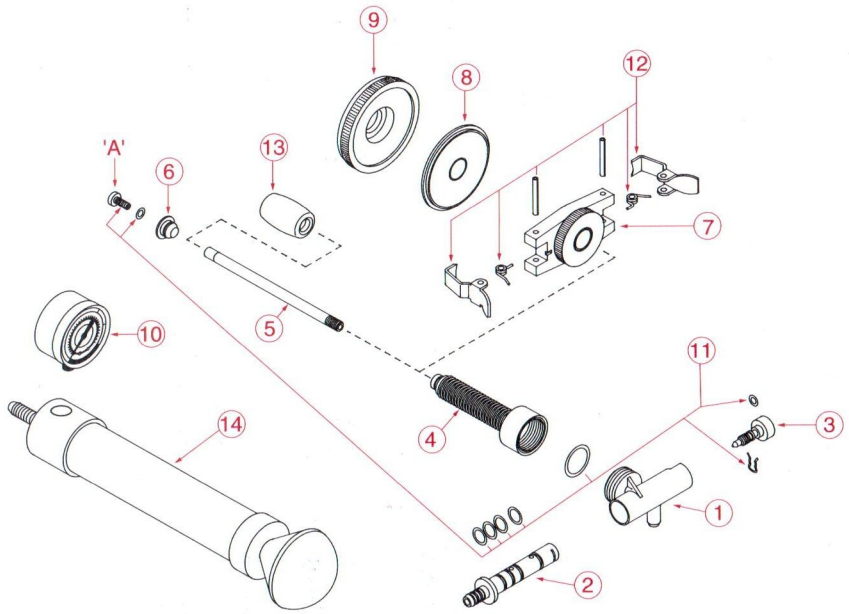
PRESSURE DROP ON BLADDER CIRCUIT

1. Check mounting of bladder to sleeve, centre tube flange and stem.
2. Check tension of centre tube mounting screw.
3. Check One-way Pressure Valve for leakage. – Mounted in hand pressure pump. *(Use specified replacement part only.)*
4. Check condition of pressure bleed screw and seat.
5. Check condition of slide valve 'O'-rings.

PRESSURE DROP ON SYSTEM CIRCUIT

1. First confirm the pressure drop is not due to a leak in the cooling system.
2. Check bladder size is adequate to seal tank neck. Condition bladder by inflating to 20 psi three or four times with analyser off vehicle if required.
3. Ensure correct adjustment of unit as per instructions – Ref. page 4.
4. Check One-way Pressure Valve for leakage. – Mounted in hand pressure pump. *(Use specified replacement part only.)*
5. Check condition of pressure bleed screw and seat.
6. Check condition of slide valve 'O'-rings.

SPARE PARTS



Item	Description	Part No.	Qty	Item	Description	Part No.	Qty
1	Main Body	70800-50	1	9	Safety Shield Seal	70600-70	1
2	Slide Valve	70800-54	1	10	Gauge	70600-72	1
3	Pressure Bleed Screw	70800-56	1	11	'O'-Ring Repair Kit	70800-91	1
4	Stem	70800-59	1	12	Retaining Clip Repair Kit	70600-93	1
5	Centre Tube	70800-60	1	13	Bladder Kit	70800-96	2
6	Centre Tube Flange	70800-61	1	14	Pressure Pump	70800-71	1
7	Support Plate	70600-118	1		Pressure Pump Repair Kit	70600-98	1
8	Safety Shield	70600-69	1		Instruction Manual	70800-84	1

***Silicone based lubricant only**

TABLE DES MATIERES