Sykes-Pickavant®
Specialist Tool Solutions

34400500 - 240v Electric Brake Bleeder - 4 bar

IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFETY OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH DUE 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.

MAX. RUNNING CYCLE: 30 MINUTES - SWITCH OFF & DISCHARGE AFTER 30 MINUTES OF OPERATION WITH A MINIMUM REST TIME OF 10 MINUTES BETWEEN CYCLES. SWITCH OFF THE PRESSURE SWITCH (PG 3, FIG 1, ITEM 3) AND TURN OFF AT GREEN POWER SWITCH (PG 3, FIG 1, ITEM 2). TO BE SAFE, DISCONNECT FROM MAINS POWER.

SAFETY INSTRUCTIONS

It is the responsibility of the owner and the operator to read, understand and comply with the following: Before use, you must check all electrical products to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your dealer.
Ensure that cables are always protected against short circuit and overload. Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none are loose.

Important: Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating.

DO NOT pull or carry the appliance by the power cable.

DO NOT pull the plug from the socket by the cable

DO NOT use worn or damaged cables, plugs or connectors. Ensure any faulty item is repaired or replaced by a qualified electrician immediately. When a pin plug is damaged, cut the cable just above the plug and dispose of the plug safely.

GENERAL SAFETY

Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using this unit. If possible, refer to the vehicle manufacturer's service instructions to establish the correct procedure. Maintain this product in good working order and condition and take immediate action to repair or replace damaged parts. Use approved parts only. Unapproved parts may be dangerous and will invalidate the warranty.

Brake fluid is hazardous - wear approved eye protection and keep skin contact to a minimum. If brake fluid enters eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical advice immediately.

Only use new brake fluid, used brake fluid or other fluids will contaminate the system and may result in brake system failure.

Brake fluid is flammable - keep away from sources of ignition, including hot surfaces e.g. exhaust manifold.

Brake fluid will damage paintwork and clothing. Any spillages should be flushed with water immediately.

DO NOT use to perform a task for which it is not designed.

DO NOT allow untrained persons to use the unit.

DO NOT use when tired or under the influence of drugs, alcohol or intoxicating medication.

DO NOT pollute the environment by allowing uncontrolled discharge of fluids.

Keep children and unauthorised persons away from the work area.

Keep work area clean and tidy and free from unrelated materials.

Ensure the work area has adequate lighting.

Ensure that a vehicle which has been jacked up and had its wheels removed, is adequately supported with axle stands.

DO NOT disconnect universal adaptor from brake fluid reservoir until the unit has been de-pressurised. Dispose of waste brake fluid in accordance with local authority regulations. Always read and comply with the warnings on the brake fluid container. Wear suitable clothing at all times.

DO NOT wear jewellery and tie back long hair. When not in use, clean unit and store in a safe, dry, childproof location.

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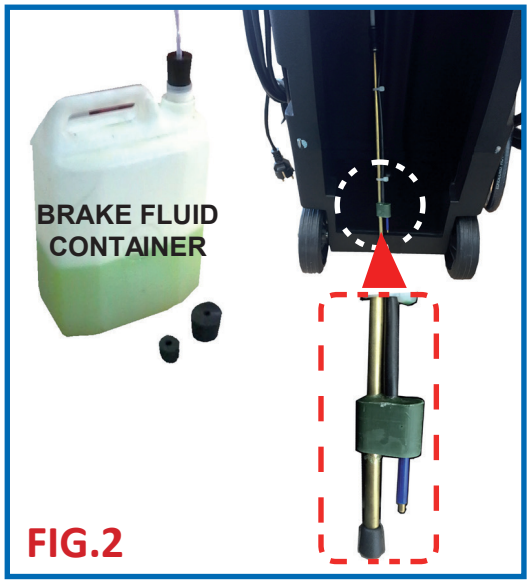
INTRODUCTION & SPECIFICATION

One-man brake bleeding made easy. Ideal for use on a vehicle lift, as unit maintains system pressure using electric pump to drive clean fluid through a long high pressure hose to the reservoir, allowing quick, 'walk-around' brake bleeding. High pressure system feeds fluid at up to 6 bar making it particularly suitable for modern brake systems found on many vehicles including Audi, BMW and Mercedes. Features thermal control of pump for long and reliable pump life. Includes aluminium SP Euro cap - angled screw type for popular vehicle connection.

Maximum Pressure: 6 bar Weight: 10kg

Type	Boiling Temp	Viscosity at -40°C / +100°C
DOT 3	205-230 ° C	0,1450 / 2
DOT 4	50-268 ° C	1480/2.3
DOT 5.1	260-275 ° C	800/1.8
DOT 6.1	300-315 ° C	N / A



WARNING - Familiarise yourself with the hazards of brake fluid - read the manufacturer's instructions on the container

PREPARING UNIT FOR USE

Before using on a vehicle for the first time, it is necessary to bleed all air out of the unit's system. Ensure that the pressure relief valve (fig.1.3) is closed and that the pressure knob (fig.1.5) is fully off (anti-clockwise).

Insert the suction pipe into a suitable container of clean brake fluid (fig.2) (which should be mounted in the recess in the back of the unit) using one of the rubber conical adaptors. Make sure the pipe reaches the bottom of the container.

Attach the universal adaptor (fig.3) to the pressure delivery hose's quick-fitcoupling, and place over a suitable container for recovering brake fluid.

Plug the machine into a suitable mains electrical supply and turn on the unit at the switch (fig.1.2), as brake fluidis drawn through the unit, air will be expelled from the system. The pressure may need to be increased slightly by turning the pressure knob clockwise. When fluid without any air bubbles present, flows from the delivery hose (fig.3), turn the unit off (fig.1.2). Open the pressure release valve (fig.1.3) to depressurise the unit, ensure the pressure gauge (fig.1.1) returns to zero, before closing the valve. Disconnect the pressure delivery hose from the adaptor by releasing the quick-fit coupling. Turn the pressure knob fully off (anti-clockwise) if it was adjusted during the operation.

Leave the suction pipe connected to the container of clean brake fluid. The unit is now ready to use.

RUNNING CYCLE: 30 MINUTES - Switch off & discharge after 30 minutes of operation with a minimum rest time of 10 minutes between cycles.

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BRAKE BLEEDING PROCEDURE

DO NOT touch the vehicle's brake pedal whilst bleeding the brakes. Refer to the vehicle manufacturer's instructions for brake bleeding and wheel sequence before proceeding. If no specific instructions from the vehicle manufacturer exist, follow the instructions detailed below. If the manufacturer has not supplied a specific figure for the maximum pressure for this operation, it is advised to keep the pressure within the 1.5 to 2 Bar range, to avoid damaging the brake fluid reservoir etc. Fully prepare the vehicle by jacking it up or by using a ramp, remove the wheels from the vehicle as required to gain access, so that work can commence as soon as the unit is turned on.

Remove the cap on the vehicle's brake fluid reservoir. If the brake fluid level is not at its maximum level, top it up. Fit the universal adaptor to the brake fluid reservoir, tighten it and ensure that there is a good seal. (Fig. 4).

Connect the pressure delivery hose's quick connector to the universal adaptor. (Fig. 5).

Ensure that the pressure knob (Fig. 1.5) on the unit is fully off (anticlockwise) and switch on the unit (Fig. 1.2). Close the pressure release valve (fig.1.3).Adjust the pressure to the required setting by turning the pressure knob clockwise.

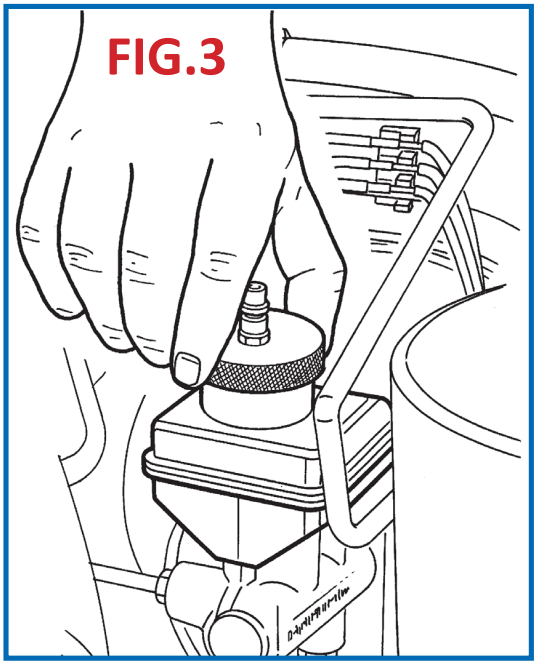
Note: to reduce the pressure, switch off the unit, open the pressure release valve and turning the pressure knob anti-clockwise, then re-peat operation.

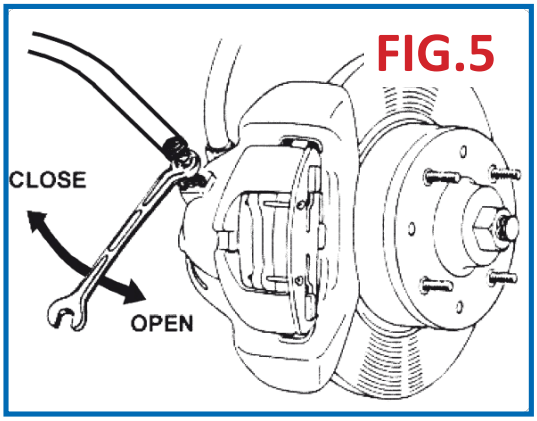
Starting with the wheel furthest away from the brake fluid reservoir, connect one end of the tube from the bleed bottle to the brake nipple and, using a brake spanner, open the nipple approximately ¼ turn (fig.6 - 7), brake fluid will flow through the clear pipe into the bottle, when there are no visible bubbles in the fluid, tighten the bleed nipple and remove the pipe, taking care not to spill any brake fluid.

Repeat the procedure at each location in turn, as required. When finished,turn the unit off. Open the pressure release valve to de-pressurise the unit, allow the pressure gauge to return to zero.

DO NOT attempt to remove the adaptor from the vehicle's brake fluid reservoir, until the unit is de-pressurised. Close the pressure release valve and turn the pressure knob fully off (anti-clockwise). Disconnect the pressure delivery hose from the adaptor by releasing the quick-fit coupling. Take care not to spill any brake fluid and then remove the adaptor from the brake fluid reservoir. Check the level of the brake fluid in the reservoir, any excess fluid should be removed, or top it up if necessary.

CAUTION: If the fluid in the container is finished, the device will emit a long sound - **SWITCH OFF THE PRESSURE SWITCH (FIG 1, ITEM 3) AND TURN OFF AT GREEN POWER SWITCH (FIG 1, ITEM 2). TO BE SAFE, DISCONNECT FROM MAINS POWER.** Discharge the pressure (Fig. 1, item 2, Open), close the brake bleeding fitting on the vehicle, switch off the unit (fig.1 item 2, OFF), replace the brake fluid container and then repeat the procedure in the reverse order.





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CHANGING THE BRAKE FLUID

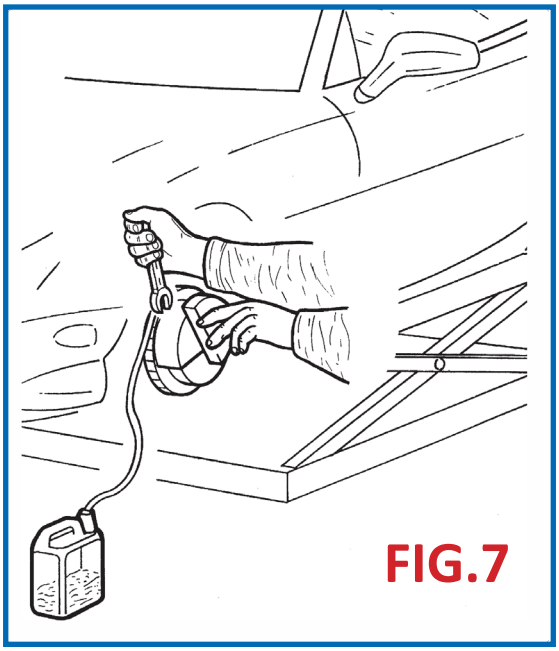
Carry out the brake bleeding procedure as described on page 3.

Allow a longer period of time when bleeding, to allow the new fluid to flush out the old fluid. When new fluid can be seen in the clear tube, tighten the brake nipple.

Repeat this procedure at each wheel in turn.

Disconnect as above

NOTE: When brake bleeding and/or brake fluid changing is complete, test the action of the brake pedal to ensure that the brakes are working correctly and are not spongy, before taking the vehicle onto the road (fig. 8).

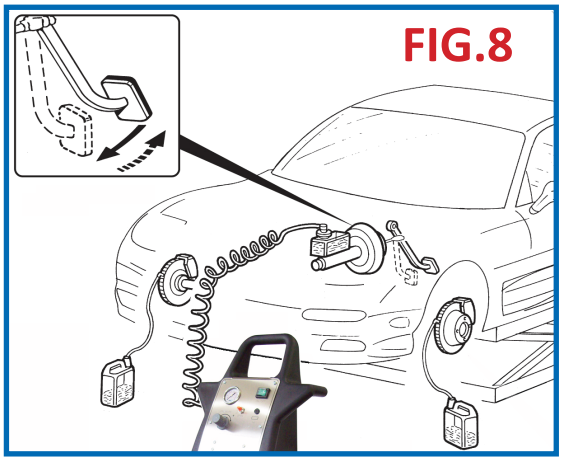


CLUTCH BLEEDING PROCEDURE

Refer to the relevant vehicle manufacturer's instructions for clutch bleeding procedure. If no specific instructions from the vehicle manufacturer exist, the same basic procedures as for brake bleeding can be followed.

Note: Some vehicles may also require a diagnostic tool to be connected for complete fluid exchange. If in any doubt, please refer to the vehicle manufacturer's specifications.

Dispose of all waste brake fluid responsibly. Contact your local authority for details.



MAINTENANCE

If the unit is not to be used for a long period, carefully remove suction pipe from the brake fluid container, wipe the pipe clean. Wipe unit clean with a dampened cloth, before storing it away in a safe, dry, childproof location.

Should the unit stop working, first check the internal 1A fuse (fig.1.4) to see if it has blown.

There are no regularly serviceable parts to the unit, it should be returned to an authorised agent for repair if needed.

ENVIRONMENTAL PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycle centre and disposed of in a manner which is compatible with the environment.

WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment. When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.

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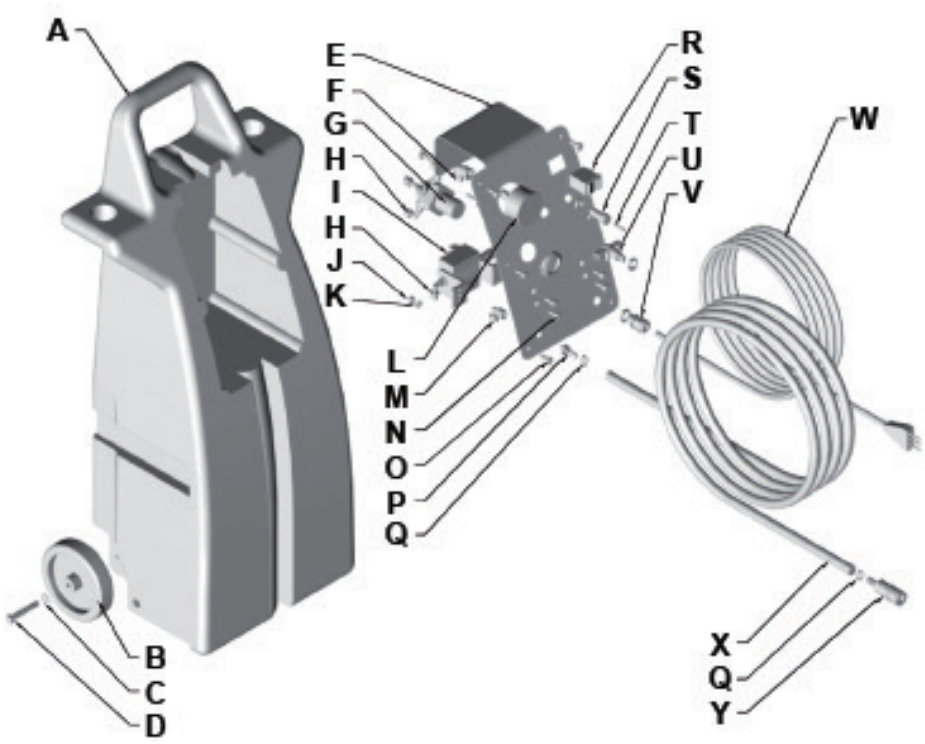
PARTS LIST AND EXPLODED VIEW



REF.	Part No.	Description	QTY.
A	344005-01	24 LITRE TANK	1
B	344005-03	WHEEL	2
C	344005-04	COTTER PIN	2
D	344005-05	WHEEL AXLE	2
E	344005-06	PANEL	1
F	344005-07	FITTING	1
G	344005-32	PRESSURE REGULATOR	1
H	344005-08	FITTING	6
I	344005-09	PUMP	1
J	344005-10	NUT	5
K	344005-11	WASHER	5
L	344005-12	GAUGE	1
M	344005-08	FITTING	1
N	344005-13	SCREW	4

REF.	Part No.	Description	QTY.
O	344005-14	SCREW	8
P	344005-15	FITTING	1
Q	344005-16	CLAMP	2
R	344005-02	SWITCH	1
S	344005-22	FUSE HOLDER	1
T	344005-29	FUSE	1
U	344005-21	VALVE	1
V	344005-17	FAIR LEAD	1
W	344005-18	CABLE	1
X	344005-20	PIPE	1
Y	344005-76	CONNECTOR	1
-	344005-99	PUMP	1
-	344005-96	FAN KIT	1

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Optional Brake Bleeder Cap Adaptors

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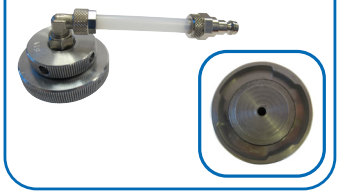
'343' Range - Suitable for Electric Brake Bleeders

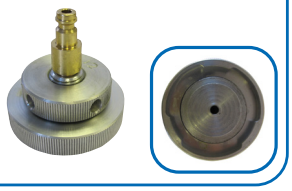
Cap Adaptor
34301000

- New Ford Fiesta (Bayonet Type)



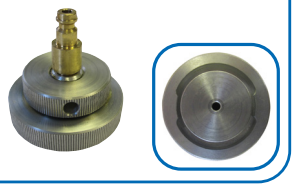
Cap Adaptor
34301100

- Nissan / Asian (Bayonet Type)



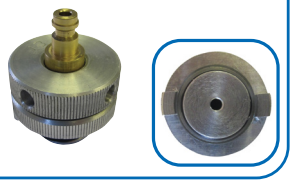
Cap Adaptor
34301200

- Pixo / Matiz (Bayonet Type)



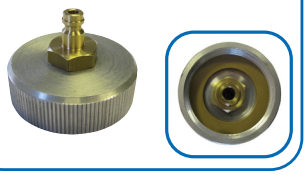
Cap Adaptor
34301300

- Micra (Bayonet Type)



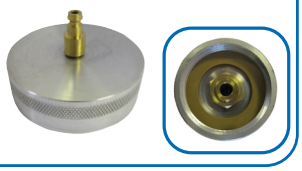
Cap Adaptor
34301500

- Euro Cap - Standard (Screw Type)



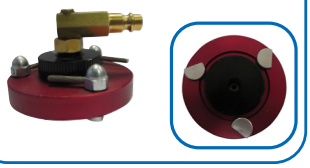
Cap Adaptor
34301600

- Mitsubishi (75mm) (Screw Type)



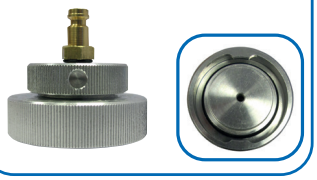
Cap Adaptor
34301700

- Lexus / Toyota (Bayonet Type)



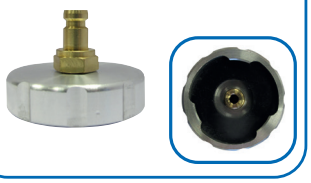
Cap Adaptor
34301900

- Land Rover Discovery 2 ('98-'04)
- Land Rover Freelander ('98-'01)



Cap Adaptor
34302100

- Chrysler / Jeep



Cap Adaptor
34302300

- Honda

Please visit our website: www.sykes-pickavant.com for full application details

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