CMC-ROBOT LLC CMC01 INSTALLATION GUIDE

(check for actual guide at https://cmc-robot.ru/worldwide)

- 1. There is no need for modifications or adjusting works just change old cylinder with replacement kit. The installation principle is the same for original clutch master cylinder, so you just put an air pressure to pressure pipeline to a click sound (usually about 2 bars into copper pipe with small bicycle pump, for example).
- 2. The kit tested well at the stand. Be careful not to shoot DOT4 liquid to your eyes (some liquid remains inside after testing). The design has some features to make hydraulic system more stable (valve has been tuned up for higher depressure) that is why you shouldn't use automatic bleeding procedure (command in software) for very first time (use manual method instead). This restriction is to avoid making foam during first filling the system (just to save the time during bleeding procedure). After filling the system automatic bleeding command from software is not restricted.
- 3. Ensure cleanliness of liquid and friction surfaces of the kit during installation and operation process. This is the basic condition for reliability and durability inherent the kit.
- 4. Before installation you should lubricate the outer part of piston by brake fluid and move piston up-down once or twice. After lubricating the piston is easier in moving than before.
- 5. The kit shipped tested and preassembled with pressure pipeline. We do not recommend to detach copper pipe with nipples or adapter from cylinder body. You are free to bend copper pipe within reasonable limits during install procedure. You should not overtight clamps to avoid cutting feed pipeline (transparent silicone pipe). We do not recommend use pressure to put in that feed pipeline.
- 6. To mount cylinder to an actuator (one of the variants): lower the rod into the lowest position (rotate actuator shaft clockwise is lowering rod till it easy stops) then raise rod by 10-12 rotates (rotate actuator shaft counterclock-wise for that); set the piston's top at 10-15 mm (0.5 in.) away from upper cover. Insert cylinder to an actuator, check rod is in the piston's chamber (to avoid scratching piston by rod) and put an air pressure to pressure pipeline (copper pipe). Push the cylinder body into actuator to a click sound (so, piston is connected with rod now). Then bolt on the flange of cylinder to an actuator.
- 7. Make a manual bleeding procedure, check for leaks.
- 8. Some bubbles appear in feed pipeline (transparent silicone pipe) and it is normal during or after bleeding procedure. It doesn't affect the system and it is not a criterion of bleeding procedure quality at this stage. These bubbles will go away in short time during usual system operation.
- 9. Now you should definitely adapt "touch point" with special hardware and software tool (usually Tech2, MDI, OP-COM). If it is not possible absolutely to use the special tool you are able to endure knocks till first gearshift cycle 1-2-3 in "A"-mode happens. Easytronic will try to adapt quickly and gear shifting will be smoother and smoother.
- 10. It is not necessary to unscrew the adapter joint bolt. But never try to tighten that bolt when the cylinder is mounted on actuator to avoid actuator's plastic body damage.
- 11. Brake liquid should be replaced in first 500 km (300 miles) and then every half a year recommended. You are able just replace liquid in expansion tank only without bleeding procedure periodically to take care about its cleanliness.

