

Lubecore Communication

Subject: Potted Timer Retrofit for MKI & MKI REVA Spyder MLP Models

This repair should be able to be carried out while the MLP/Spyder pump is still mounted on the equipment in question.

(NOTE: When you are looking directly at the pump, verify whether there is a serial number plate mounted on the left hand side of the green pump bracket. If there is **no serial tag** please contact the Lubecore International Warranty Administrator for directions on how to proceed)

You will need a cam clamp similar to this,



Open Barrel (OEM) Terminal Hand Crimping Tool



You will also require:

1. Brake cleaner
2. Shop rags
3. Terminal crimper
4. Side Cutters
5. Wire Stripper

***Core return for
undamaged lid.***



1. Clean reservoir and lid before removing – prevents debris from entering the grease.
2. Firmly grasp the lid of the pump and turn either clockwise or counter clockwise depended on pump mounting location and/or space afforded to move freely.
3. Loosen the screw and remove the DIN Connector power cable from the left side of the lid.



4. Position the cam clamp directly under the corner of the lid and activate the lever so that the cam bar causes pressure between the lid and the green bracket. Consistent pressure will cause the lid to pop off the pump.

Note: Do not use anything other than a cam clamp to perform this function, otherwise you will crack the reservoir or lid

No core value for damaged lid.



**Cut cable
leading to
motor at
the base of
the strain
relief gland**

5. Carefully remove the lid, cut the motor cable as shown. Carefully strip back the cable jacket to expose the two conductors by a length of 2". Take care not to damage the insulation on the conductors. Strip back the insulation to expose 1/8" of bare copper. Use the wire crimpers to crimp the Deutsch socket terminals onto the brown and blue wires. Insert the crimped wires into the 4 position Deutsch plug accordingly: Blue to Position #4, Brown to Position #3. (See wire schematic below)
Deutsch Part # 1062-16-0122 (open type) or 0462-201-16141 (solid type)



6. Position the retrofit lid onto the reservoir – do not allow any debris to fall into the grease reservoir. Align the new lid with the bead on the reservoir lid. With a quick open palm, gently hit the slanted section of the timer lid to set and secure the front of the timer lid. Holding the front section of timer lid, gently hit the rear section of the timer lid to secure it.

7. Cut the DIN connector off of the power cable, and determine which wires are power and ground according to the supplied drawing. Strip back the cable jacket by two inches, and expose 1/8" of copper conductor on the power and ground leads. Use the wire crimpers to crimp the Deutsch socket terminals onto the power and ground wires. Insert the crimped wires into the 4 position Deutsch plug accordingly: Power to Position #1, Ground to Position #2. (See wire schematic below)

8. Insert the wedge-lock to lock the pins in place and mate the 4 Pin Deutsch Plug to the 4 Pin Deutsch Receptacle.



9. Power up the trailer ABS. A green LED should show up at the bottom right of the window in the front of the lid signifying power to the timer. Refer to programming guide below for instruction on how to adjust timing via magnet, and what time settings are recommended.