

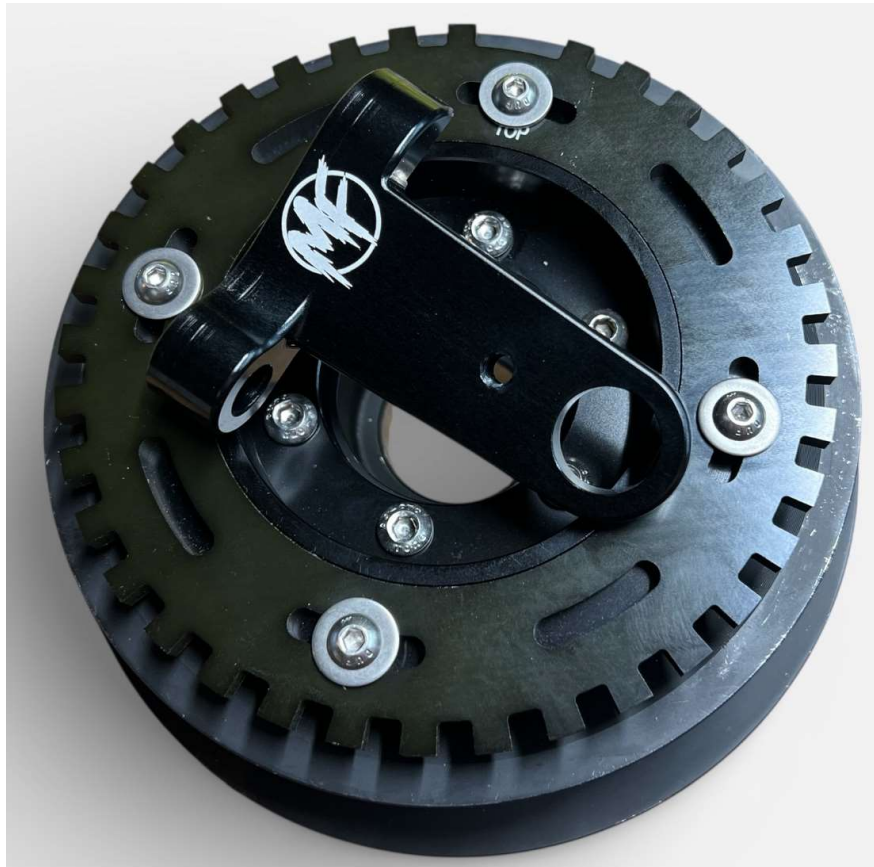


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L-Series 280ZX 2 Row Damper Crank Trigger Kit Installation Manual



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Disclaimer

A vehicle modified with MilkFab Engineering products is intended for off road use only. It is the purchaser's responsibility to check and comply with all local, state, and federal laws prior to operating vehicle. Installation and use of performance products may also affect and void warranty. MilkFab Engineering shall not be liable for direct, indirect, incidental, or consequential damage to persons or property that might be claimed as a result from installation, improper installation, and failure of part including claims for delay, loss of profit, or labor.

Parts List

Parts Included

Quantity	Description
1	Damper "Top Hat"
1	Trigger Wheel
1	Crank Sensor Mount
1	Adjustable Timing Pointer
1	Distributor Block Off Plate
1	M6x1x18mm SS Hex Head Cap Screw
1	M8x1.25x85mm SS Hex Head Cap Screw
4	M5x0.8x12 SS Button Head Hex Screw
4	M5 SS Washer
6	M6 x 1.0 x 20mm Button Head Bolts
3	M6x1x12mm SS Hex Head Cap Screw

Additional Parts Needed

Quantity	Description
1	Honeywell GT1 Hall Effect Sensor
1	280Z Factory A/C Crank Damper

Installation Guide

WARNING! Extreme caution should be taken when performing ANY maintenance or performance upgrades to your vehicle. Please observe and abide by any Warning or Caution labels placed on the various components and tools used when servicing your vehicle. If you have any questions regarding the installation or the various components included, consult with a Professional Mechanic or contact MilkFab Engineering for more information.

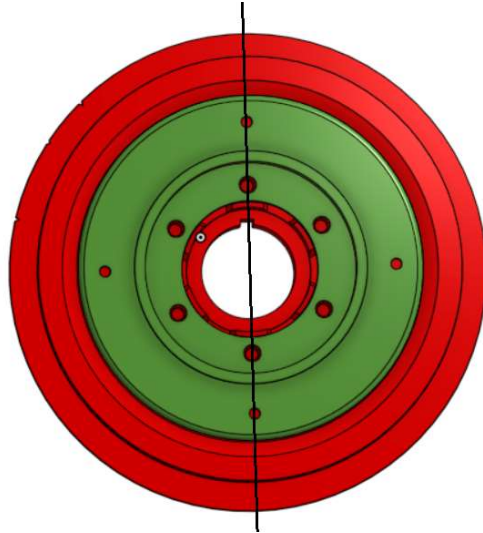
Disassembly:

BEFORE YOU BEGIN!*

Remove all contents from the MilkFab L-series 280ZX 2 Row Damper Crank Trigger Kit and verify that ALL necessary hardware is present.

1. Raise the vehicle's hood.
2. Place engine at TDC by both referring to the crank pulley timing marks as well as the camshaft timing marks. Please refer to the FSM for more details about how to confirm the engine is at TDC.
3. Remove the optional 3rd row pulley if present.

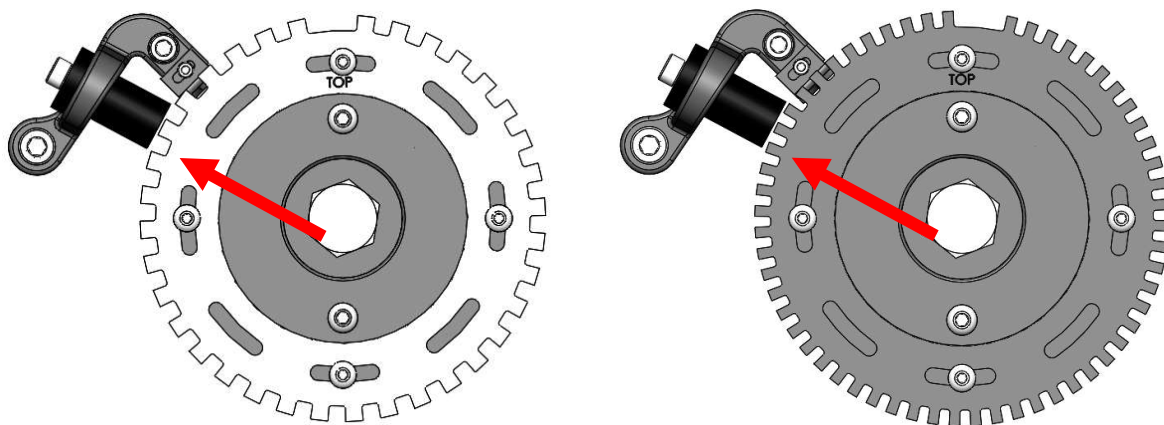
4. Once the engine is at TDC, locate the Top Hat and the 6 - M6x1x20 SS Button head Screws. Apply medium strength thread locker to the ends of the screws and loosely thread into the six threaded holes in the front of the damper. Take care to orient the M5 Trigger wheel mounting hole, M6 Top hat mounting hole and crankshaft key-way all in line (here are two orientations that this is possible and should be vertical with the engine at TDC).



5. Attach the Crank Sensor Mount and Timing Pointer Assembly to the front cover by removing the M6 and M8 Bolts that hold on the original stamped timing indicator to the left (LHD: passenger side / RHD: drivers side) of the front cover. Locate the 1 - M8x1.25x85mm SS Hex Head Cap Screw and the 1 - M6x1x18mm SS Hex Head Cap Screw and loosely mount the Crank Sensor Mount and Timing Pointer Assembly to the front cover. Leave the two screws loose as the sensor gap will need to be adjusted before tightening.



6. Insert Hall Effect Sensor into the Sensor bracket, locate 1 - M6x1x12mm SS Hex Head Cap Screw, apply medium strength thread locker, and torque to 40 in-lbs.
7. Install Trigger Wheel (36-1 or 60-2) onto the hub on the Top Hat with the engraved "TOP" on the Trigger Wheel pointing towards the front of the car and up towards the water pump.
8. Locate the 4 - M5x0.8x10 SS Button Head Hex Screws and 4 - M5 SS Washers and place them through the slots in the Trigger Wheel and into the Top Hat. Adjust the trigger wheel while the mounting screws are loose to align the center of the sensor to the center of the 6th tooth if using the 36-1 wheel and the center of the sensor to the center of the 11th tooth on 60-2 wheels. Snug the mounting screws after alignment to keep trigger wheel from moving while adjusting sensor gap.



9. Adjust the Hall Effect Sensor gap to 1.0mm – 2.0mm using a feeler gage between the Hall Sensor and Trigger Wheel and by pivoting the Crank Sensor Mount about the M6x1x18mm SS Hex Head Cap Screw. Once Gap has been set torque the M8 Hex Head Cap Screw to 10 ft-lbs.
10. Align the Timing Pointer to line up with the TDC marking on the Damper, and torque the M6 Hex Head Cap Screw to 5 ft-lb.

11. Remove the 4 - M5x0.8x10 SS Button Head Hex Screws that hold the Trigger Wheel to the Top Hat one by one, apply medium strength thread locker, and torque to 40 in-lbs.
12. Remove the distributor, apply new gasket, and attach the distributor block off plate using the 2 - M6x1x12mm SS Hex Head Cap Screws torqued to 6 ft-lbs.
13. Wire in the Hall Effect Sensor using the supplied pin out and the wiring specifications for your specific ignition system or EMS.
14. *Enjoy stable Ignition Timing!*