



Mazda MX-5 Cup Car Technical Service Bulletin #2021-07-09

Optional: Differential and or Gearbox Hose Kits for Mazda MX-5 Cup Series.

This TSB describes: The Differential and Gearbox Hose Kit. This update is being performed to Increase the Fluid Flow for the Differential and Gearbox. We have identified some cars having higher temperatures with insufficient fluid flow. These kits use larger diameter hoses, fittings, and filter to help with the restriction of flow. This update is recommended but optional.

Please Check and Understand the following:

The -6 AN hoses installed on the Mazda MX-5 Cup Cars being built are still suitable for cooling when ambient temperatures are lower and sessions lengths are shorter. Flis has also discovered that the direction of flow with the -6AN hoses influences cooling.

Differential Hose Kit includes:

- (x1) DIFFERENTIAL OUT TO DIFFERENTIAL PUMP IN HOSE (0000-08-D812)
- (x1) DIFFERENTIAL PUMP OUT TO DIFFERENTIAL COOLER IN (0000-08-D812)
- (x1) DIFFERENTIAL COOLER OUT TO DIFFERENTIAL IN (0000-08-D813)
- (x1) -8 MALE TO M18 MALE - DIFF OUT (0000-08-D806)
- (x1) 3/8" MALE TO DASH -8 MALE W/ 1/8" NPT SENSOR HOLE - DIFF PUMP (0000-08-D807)
- (x2) 3/8" NPT MALE TO - 8 MALE - DIFF PUMP / DIFF HOUSING OUT (0000-08-D808)
- (x2) -8 MALE TO M22 MALE - DIFF COOLER (0000-08-5014)
- (x1) -8 SOCK FILTER - INTO DIFF HOUSING (0000-08-D804)

Installation: This update will require the competitor to remove the -6 AN differential hoses and replace them with the -8 AN hoses. In addition, you will need to replace the fittings in the cooler, the pump, and the diff cover.



Gearbox Hose Kit includes:

- (x1) GEARBOX OUT TO GEARBOX PUMP IN HOSE (0000-08-D809)
- (x1) GEARBOX PUMP OUT TO GEARBOX COOLER IN (0000-08-D810)
- (x1) GEARBOX COOLER OUT TO GEARBOX IN (0000-08-D811)
- (x2) -6 FEMALE TO -8 - ON GEARBOX (0000-08-D801)
- (x2) 3/8" TO -8 W/ 90 DEGREE - GEARBOX PUMP (0000-08-D802)
- (x2) -8 TO M22 MALE - GEARBOX COOLER (0000-08-5014)
- (x1) -8 SOCK FILTER - GEARBOX PUMP (0000-08-D804)
- (x1) -8 FEMALE TO DASH 8 MALE W/ 1/8" NPT SENSOR HOLE - INTO GEARBOX COOLER (0000-08-D805)

Installation: This update will require the competitor to remove the -6 AN gearbox hoses and replace them with the -8 AN hoses. In addition, you will need to replace the fittings in the cooler and the pump. You will also need to rotate the pump head 180° so the Pump Inlet is on the bottom side.

Pricing:

Differential Hose Kit Cost: \$496.40

Gearbox Hose Kit Cost: \$609.67

Total Cost: \$1,106.07

For any questions, concerns or to place any orders, please contact Ashli Richardson:

Flis Performance

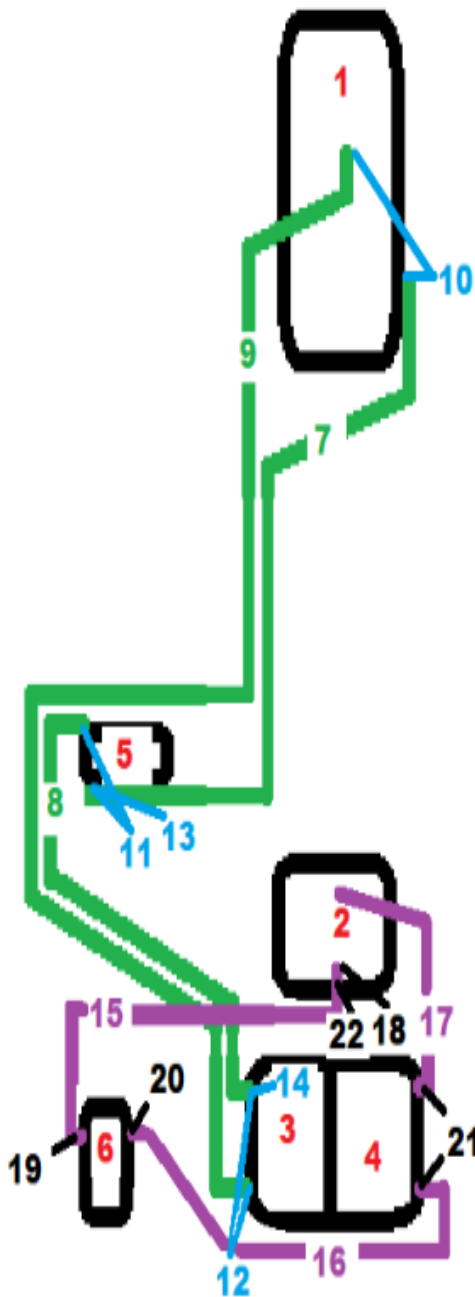
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Gearbox and Diff



#	Description	Part #			
1	Gearbox (GB)				
2	Differential (Diff)				
3	GB Cooler				
4	Diff Cooler				
5	GB Pump				
6	Diff Pump				
	GearBox Hoses	Part #	Length	Fitting	Fitting
7	GB Out to GB Pump In		48"	ST	ST
8	GB Pump Out to GB Cooler In		37"	ST	90
9	GB Cooler Out to GB In		100"	90	90SW
	GearBox Fittings	Part #	Qty	Size	Size
10	-6 AN Female to -8 Male AN (GB)		2	-6	-8
11	3/8" 90 Deg. NPT to -8 AN (GB PUMP)		2	3/8" NPT	-8
12	-8 AN Male to 22mm Male (GB COOLER)		2	-8	22mm
13	-8 AN Filter		1	-8	
14	-8 AN Female to -8 AN Male with 1/4" Sensor Hole		1	-8	-8
	Differential Hoses				
15	Diff Out To Diff Pump In		24"	45	90SW
16	Diff Pump Out to Diff Cooler In		24"	45	90SW
17	Diff Cooler Out to Diff In		9"	45	90SW
	Differential Fittings	Part #	Qty	Size	Size
18	-8 AN Male to 18mm Male (DIFF OUT)		1	-8	18mm
19	3/8" NPT Male to -8 AN Male with 1/4" Sensor Hole (DIFF PUMP)		1	3/8" NPT	-8
20	3/8" NPT Male to -8 AN Male (DIFF PUMP)		1	3/8" NPT	-8
21	-8 AN Male to 22mm Male (DIFF COOLER)		2	-8	22 mm
22	-8 AN Filter		1	-8	