



NUMBER: 19-002-10
GROUP: Front Suspension
DATE: January 23, 2010

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SUBJECT:
Steering Wander

OVERVIEW:
This bulletin involves selecting the proper repair procedure based upon vehicle build dates and then aligning the vehicle with revised specs.

MODELS:
2008-2009 (DM) 4500/5500 Dodge Ram Cab Chassis

NOTE: This Bulletin applies to 4x2 vehicles built before August 8, 2009 (MDH 080809).

SYMPTOM/CONDITION:
While traveling on a straight stretch of highway, a customer may feel the need to provide steering input to correct a vehicle wander condition.

DIAGNOSIS:
This bulletin involves inspection or replacement of suspension components and revised caster specifications to improve road feel and correct a vehicle wander condition. If the vehicle operator describes the symptom/condition, perform the repair procedure.

SPECIAL TOOLS/EQUIPMENT REQUIRED:

C-4212F	Press, Leaf Spring Eyelet Bushing
6877	Adapter
9653-1	Adapter
8975-3	Adapter



PARTS REQUIRED:

NOTE: The most accurate way to determine the correct U-bolt required is to measure the thickness of the spring pack from the top leaf to the bottom leaf.

Qty.	Part No.	Description
2 (AR)	68069650AB	Lower Control Arm (LCA)
4 (AR)	06104305AA	Bolt, LCA
4 (AR)	06509020AA	Nut, LCA
2 (AR)	52855648AD	Shackle, Rear Leaf
2 (AR)	52013952AB	Bushing, Leaf Spring Front
1 (AR)	68080751AA	Kit, Intermediate Steering Shaft
4 (AR)	52855652AA	U-bolt, Rear leaf spring, for 157 mm Thick Spring Pack
4 (AR)	68050414AA	U-bolt, Rear leaf spring, for 182 mm Thick Spring Pack
8 (AR)	06507460AA	Nut, U-bolt

REPAIR PROCEDURE:

Follow the summary table below based on the build date of the vehicle and following the repair procedure steps outlined, determine the components and repair process required.

Build Date	I-Shaft kit	Lower Control Arms	Front Eyelet Bushing	Rear spring shackle	Alignment
4x2 vehicles built up to 5-30-08 (Repair "A")	XXX	XXX	XXX	XXX	XXX
4x2 vehicles built between 5-30-08 and 8-04-09 (Repair "B")		XXX	XXX	XXX	XXX
4x2 vehicles built between 8-04-09 and 8-08-09 (Repair "C")		XXX			XXX

1. Determine vehicle build date. This date will be referenced several times during this Service Bulletin to determine component eligibility.
2. Raise the vehicle on a suitable hoist. Visually inspect the steering and suspension components for damage or excessive wear and repair accordingly prior to continuing with the Service Bulletin.
3. Is this vehicle build before 5/30/08?
 - a. No>> Proceed to Step #4 .
 - b. Yes>> Install the Intermediate Steering Shaft kit. Refer to the detailed removal procedures available in DealerCONNECT > TechCONNECT under: Service Info > 19 - Steering > Coupling, Steering Column, Upper > Removal / Installation. Proceed to Step #4.
4. Is this a 4x2 vehicle build before 8/08/09?
 - a. No>> This bulletin does not apply, no further action is required.

- b. Yes>> Proceed to Step #5.
5. Replace both right and left Lower Control Arms. Refer to the detailed removal procedures available in DealerCONNECT > TechCONNECT under: Service Info > 2-Front Suspension > Front, Link and Coil > Arm, Lower Control > Removal / Installation. Do not fully tighten and torque retaining bolts at this time
 6. Loosen all (4) upper control arms and (2) track bar attachment bolts to allow bushings to relax at the bushing, but do not remove bolts or nuts completely.
 7. Using a pry bar or a ratchet strap, rotate the bottom of the axle housing forward to the end of the adjustment slot to increase the caster.
 8. While holding the axle in this position, tighten the upper control arm, the lower control arm bolts and the track bar bolts. Continue to next step.

NOTE: All suspension bolts should be torqued while the vehicle is at curb height. Torquing of the suspension bolts with the axles hanging (unloaded) will cause a preloading the bushings.

9. Is this vehicle build before 8/04/09?
 - a. No>> Proceed to Step #17.
 - b. Yes>> Replace the rear spring front eyelet bushing and rear shackle.
10. Raise and support the vehicle. Support the rear axle with a suitable holding fixture. Remove both front eyelet bolts and lower the axle to provide access to the front eyelet bushing.
11. Using Miller Special Tool C-4212F and adapter 6877, remove the front eyelet bushing.
12. Using Miller Special Tool C-4212F and adapter 9653-1 and 8975-3, install the front eyelet bushing. Verify the bushing is centered in the spring and the spacer to spring hoop measurement is equal at 6.0 mm +/- 1.0 mm on both sides.
13. Repeat steps 11 and 12 on the other side of the vehicle.
14. While the axle is still properly supported, remove the leaf spring U-bolts on one spring pack and the shackle to frame bolt. Rotate the spring assembly to provide clearance to remove the shackle to rear eyelet bolt. Remove original shackle and install the new shackle. Reinstall the shackle to eyelet bolt. Install new U-bolts.
15. Repeat step 14 for the other side of the vehicle.
16. With the vehicle sitting at curb height (suspension normally loaded), torque the spring front eyelet bolts to 360 ft lb (488 Nm), the spring to shackle bolts to 160 ft lb (217 Nm), the shackle to frame bolts to 317 ft lb (430 Nm) and the U-bolt nuts to 360 ft lb (488 Nm).
17. With the vehicle sitting at curb height (suspension normally loaded), torque the upper control arm bolts to 184 ft lb (249 Nm). Torque the lower control arm bolts to 306 ft lb (415 Nm).
18. Align the vehicle to the specs provided in the chart below.

W/B	Left Caster	Right Caster	Cross Caster	Left Camber	Right Camber	Cross Camber	Individual Toe	Total Toe
144.5" 164.4" 168.5"	5.5 +/- 1	6.0 +/- 1	0.5 (+0.7/-0.3)	0.10 +/- 0.5	0.10 +/- 0.5	0 +/- 0.5	-0.10 +/- 0.5	0.20 +/- 0.10
188.4" 192.5"	6.0 +/- 1	6.5 +/- 1	0.5 (+0.7/-0.3)	0.10 +/- 0.5	0.10 +/- 0.5	0 +/- 0.5	-0.10 +/- 0.5	0.20 +/- 0.10
204.5"	6.3 +/- 1	6.8 +/- 1	0.5 (+0.7/-0.3)	0.10 +/- 0.5	0.10 +/- 0.5	0 +/- 0.5	-0.10 +/- 0.5	0.20 +/- 0.10

19. Road test vehicle to confirm repair.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:		Description	Amount
02-10-76-90	Repair "A"	Remove/Replace LCA, I-shaft, front eyelet bushing, shackle and align. (B)	4.3 Hrs.
02-10-76-91	Repair "B"	Remove/Replace LCA, front eyelet bushing, shackle and align. (B)	4.0 Hrs.
02-10-76-92	Repair "C"	Remove/Replace LCA and align. (B)	2.2 Hrs.

FAILURE CODE:

ZZ	Service Action
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