

DIVERSIFIED METAL FABRICATORS, INC.



509009 00-08 GM C/K25HD WHEEL ADAPTER KIT



August 2008

SERIAL NUMBER (FRONT) _____

SERIAL NUMBER (REAR) _____

NOTE:

Please refer to the serial numbers when ordering parts or
inquiring about warranty items.

DMF ♦ 665 Pylant Street ♦ Atlanta, Georgia 30306
Parts (404) 607-1684
Phone (404) 875-1512 ♦ Fax (404) 875-4835
<http://www.dmfatlanta.com>

GM Wheel Adapter Kit

Description

Diversified Metal Fabricator's 509009 Wheel Adapter Kit allows for the use of factory Accuride rims on '00-'08 GM 25HD, 3500 SRW, and 2500 Suburban vehicles for use on rail.

Kit Contents

Spacer Kit w/ wheel (509009)

(5)	28680	Accuride Rim 19.5x6-3/4
(4)	10822	Wheel Adapter
(2)	551002	3/16 Spacer (REAR ONLY)
(32)	10826	M20 Split Flange Lug Nut

Spacer Kit w/o wheels (509014)

(4)	10822	Wheel Adapter
(2)	551002	3/16 Spacer (REAR ONLY)
(32)	10826	M20 Split Flange Lug Nut

Tires

DMF has tested and recommends the following tires for this application:

Mud/Snow/All position

Goodyear G124	245/70R19.5
Michelin XDE M/S	245/70R19.5

Steer/Highway

Goodyear G647	245/70R19.5
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Other tires may be suitable but the customer must verify that the tread width is sufficient to ensure rail coverage.

Lug-Nut Torque

Vehicle Hub to Adapter (14mm)	140 ft-lbs
Adapter to Accuride Rim (20mm)	250+ ft-lbs

Tire Pressure

Tires should be set according to the tire manufacturer's load charts based on axle loads. Typically this runs from 75-100 PSI. Ride and tire wear may be improved by avoiding excessive pressures but low pressures are not safe.

Installation

ITEM	PART NO.	QTY	DESCRIPTION
1	10824	4	WHEEL ADAPTER 05 GM C/K25HD
2	551002	2	WHEEL SPACER FOR ADAPTER 05 GM C/K25HD (REAR ONLY)
3	28680	4	ACCURIDE RIM 28680 19.5x6.75
4	10826	32	M20X1.5 SPLIT-FLANGE LUG NUT
5			
6			

Wheel Modification Kit - Inspection & Maintenance

- Visually inspect wheels & tires weekly (look for damage, loose hardware etc.)
- After service ensure that wheels were not damaged.
- Check the torque 50 miles after wheel/tire change and every 2000 miles or 6 months.

Warnings!

- Never use anti-seize on studs or lug nuts!
- Never use pneumatic (air) wrenches on lug nuts! Hand torque to specifications.
- Do not trust tire installers to properly torque lug nuts, tell them that you are going to check with your own wrench!
- Get or have access to a torque wrench!
- Always inspect the condition of the wheel before and after service!
- Loose lug nuts can lead to metal fatigue and ultimately to wheel failure or broken studs.

Dry Lug Torques

Adapter to Wheel 250+ FT-LBS
 Adapter to Hub 140 FT

Balance & Rotation

Unless otherwise specified both these wheels kits use factory studs & nuts.
 Balance and Rotate as necessary/recommended by tire manufacturer.
 Verify that balance weights placed on inside bead of rim are clear of obstructions.
 Rims provided by DMF may be "low point marked" which can be useful for customers who can get run-out marked tires. (National Accounts/OEM)

Tires

Required Tire Size: 245/70R19.5
 Recommended Tires: Goodyear GT24 (mud&snow), Michelin XDE M/S (mud&snow), Good Year G647 (highway)
 Tire Inflation: per tire manufacturer's load charts or recommendations.

NOTE:
3/16" SPACER FOR REAR AXLE ONLY

GM HUB (REAR SHOWN)

REMOVE RETAINING CLIP

STOCK M14 60deg BALL SEAT NUTS TORQUE TO 140 FT-LBS

M20 SPLIT FLANGE NUTS TORQUE TO 250+ FT-LBS

TIRE NOT SHOWN FOR CLARITY

REV	DATE	DESCRIPTION	BY	APP

TITLE: WHEEL MOD KIT - WHEEL ADAPTER		DRAWN BY: WAK		REV: #	
DWG NO: RW-1013		DATE: 4/18/05		DRAWING NUMBER: 509009	
DIVERSIFIED METAL FABRICATORS, INC. (404) 855-1812					

Figure 1: Wheel Adapter Assembly

Remove Stock Wheels & Tires

1. The tires must be mounted and balanced on the Accuride rims.
2. The vehicle should be lifted and properly supported.
3. The stock wheels and tires are removed and the stock lug nuts are retained

Install Steering Stops

4. Remove "Lower Kingpin Nut" from each side
5. Install Steering Stop as shown on each side using provided HNM16 Type C nut.
6. Move Steering from Lock to Lock and verify that Steering Stop is contacting stop surfaces.

Install Adapters, Wheels & Tires

7. (2) Retaining clips per hub (shown in fig 2) are removed and discarded
8. (4) Wheel Adapters are mounted using stock lug nuts. 3/16" spacers are used on rear axle only. Torque as specified above.
9. (4) Accuride Rims with tires are mounted to the Wheel Adapter using the provided M20 Split Flange Nuts. Torque as specified above.

Test and Verify Steering Stops

10. Verify that the rims do not contact the Upper A-Arms in any steering position, in normal suspension position and full suspension droop.
11. If clearance is excessive (+1/2"), the Steering Stops can be carefully ground to provide maximum steering angle.
12. Verify that all brake, ABS sensor and other wires or hoses are clear in all steering and suspension positions. Restrain if necessary.



Figure 2: Wheel Adapter Details

Inspection & Maintenance

- Visually inspect wheels & tires weekly (look for damage, loose hardware etc.)
- After service ensure that wheels were not damaged.
- Check the torque 50 miles after wheel/tire change and every 2000 miles or 6 months. See Lug-Nut Torque on page 2.

Warnings!

- Never use anti-seize on studs or lug nuts!
- Never use pneumatic (air) wrenches on lug nuts! Hand torque to specifications. Do not trust tire installers to properly torque lug nuts, tell them that you are going to check with your own wrench!
- Get or have access to a torque wrench!
- Always inspect the condition of the wheel before and after service!
- Loose lug nuts can lead to metal fatigue and ultimately to wheel failure or broken studs.

Balance & Rotation

Balance and Rotate as necessary/recommended by tire manufacturer. Verify that balance weights placed on inside bead of rim are clear of obstructions.