



FACT SHEET

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IMMEDIATE RELEASE

Background

At a collision repair industry event in the fall of 2009, a respected industry expert used a series of simple demonstrations to show fundamental differences between genuine vehicle manufacturer structural replacement parts and aftermarket copies.

The differences alarmed Ford Motor Company representatives in attendance. They instituted a more comprehensive analysis and testing program to determine differences, if any, between genuine Ford original equipment replacement structural parts and aftermarket copies.

Preliminary results from the testing program are now available.

Part Selection

Attention was focused on front and rear structural components. The following part types were selected:

- Bumper Beams
- Bumper Isolators
- Bumper Brackets
- Radiator Supports

Samples of genuine Ford original equipment replacement structural parts were obtained from Ford dealers in the Detroit metropolitan market. Samples of aftermarket copies were obtained from distributors in the Great Lakes region.

Part Documentation

After receipt and photography, the following data was gathered at Ford Paint & Body Technology Center:

- Invoice Price
- Visual Observations Recorded
- Part Weight
- Part Thickness (where applicable)
- Production Process (where identifiable)

Part Testing

Selected parts were then sent to Ford's Central Lab for more comprehensive analysis, including:

- Material composition identification
- Dimensional scanning
- Computer Aided Engineering (CAE) crush characteristics simulation
- CAE airbag sensor timing simulation

Part Documentation / Testing Results

		Ford	Non-OEM #1	Non-OEM #2
2005-09 Mustang	List Price (3-26-2010)	\$52.63	\$39.00	
Bumper Isolator Assy.	Material	Polypropylene #4	Polystyrene	
4R3Z-17C882-AA	Material Cost/Pound	\$2.50	\$0.70	
No CAE Test Performed	Weight	0.55 lbs.	0.30 lbs.	
	Thickness	n/a	n/a	
	Production Process	Molded	Molded	
2006-08 F-150	List Price (3-26-2010)	\$41.32	\$35.28 (3 Samples)	
Right Bumper Bracket	Material	High-Strength, Low-Alloy Steel	Not Tested	
4L3Z-17B984-AA	Material Cost/Pound	\$44.60	n/a	
No CAE Test Performed	Weight	6.15 lbs.	4.65 lbs. to 6.15 lbs.	
	Thickness	4.65 mm	3.62 mm to 4.67 mm	
	Production Process	Stamped	Stamped	
2006-08 F-150	List Price (3-26-2010)	\$41.32	\$27.00	
Left Bumper Bracket	Material	High-Strength, Low-Alloy Steel	Not Tested	
4L3Z-17B985-AA	Material Cost/Pound	\$44.60	n/a	
No CAE Test Performed	Weight	6.20 lbs.	2.85 lbs.	
	Thickness	4.68 mm	2.21 mm	
	Production Process	Stamped	Stamped	
2008-09 Focus	List Price (4-1-2010)	\$183.73	\$77.79 (purchase)	
Front Bumper Beam	Material	Martensite Steel	Not Tested	
8S4Z-17757-A	Material Cost/Pound	\$60.00	n/a	
No CAE Test Performed	Weight	13.25 lbs.	9.90 lbs.	
	Thickness	1.29 mm	0.78 mm	
	Production Process	Cold Rolled / High Frequency Induction Welding	Stamped	

		Ford	Non-OEM #1	Non-OEM #2
2008-09 Focus	List Price (3-26-2010)	\$176.15	\$139.99	\$144.00
Rear Bumper Beam	Material	Martensite Steel	Not Tested	Not Tested
8S4Z-17906-C	Material Cost/Pound	\$60.00	n/a	n/a
No CAE Test Performed	Weight	13.50 lbs.	12.80 lbs.	n/a
	Thickness	1.35 mm	1.15 mm	n/a
	Production Process	Cold Rolled / Laser Welded	Stamped	Stamped
2005-09 Mustang	List Price (3-26-2010)	\$176.08	\$98.99	
Front Bumper Beam	Material	Boron Steel	Mild Steel	
5R3Z-17757-AA	Material Cost/Pound	\$57.00	\$40.35	
CAE Test Performed	Weight	11.90 lbs.	11.15 lbs.	
	Thickness	1.36 mm	1.20 mm	
	Production Process	Cold Rolled / Heat Quenched / TIG Welded/Martenized in production	Stamped / Spot Welded	
2005-09 Mustang	List Price (3-26-2010)	\$182.95	\$120.99	\$149.00
Rear Bumper Beam	Material	Boron Steel	Mild Steel	Mild Steel
5R3Z-17906-AA	Material Cost/Pound	\$57.00	\$40.35	\$40.35
CAE Test Performed	Weight	12.35 lbs.	n/a	11.65 lbs.
	Thickness	1.40 mm	n/a	1.15 mm
	Production Process	Cold Rolled / Heat Quenched / TIG Welded/ Martenized in production	Stamped / Spot Welded	Stamped / Spot Welded
2004-07 F-Series	List Price (3-26-2010)	\$470.32	\$242.99	
Radiator Support	Material	Magnesium	Plastic / Metal Support / Pop Rivets	
5L3Z-16138-BA	Material Cost/Pound	\$4.00	n/a	
CAE Test Performed	Weight	16.30 lbs.	13.60 lbs.	
	Thickness	n/a	n/a	
	Production Process	Casting / Stamped / Bolted	Molded / Stamped / Pop Riveted	

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