Data Transparency and On-Line Auctions

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Data Transparency

- Old View on Transparency
 - Information as a source of control
 - Sellers had information monopolies
 - Auto retailing
 - Travel
 - Real Estate
- New View on Transparency
 - Free flowing information as a source for improved systemic economics
 - Power more balanced
 - Amazon, Expedia, Edmunds



Used Vehicle Values

- Used vehicle values are driven by three major forces:
 - Condition
 - Market Values
 - Equipment



Auction Specific Conditions

- Condition can be verified with Vehicle History Reports and photography (On-Line), or inspection (Wholesale).
- Market Values are verifiable through 3rd Parties.
- Some Equipment may be verifiable through photography or inspection, but much is unverifiable.
- Lack of physical access to the vehicle (On-line) or the speed of the auction process (Wholesale) causes additional hedging on equipment.



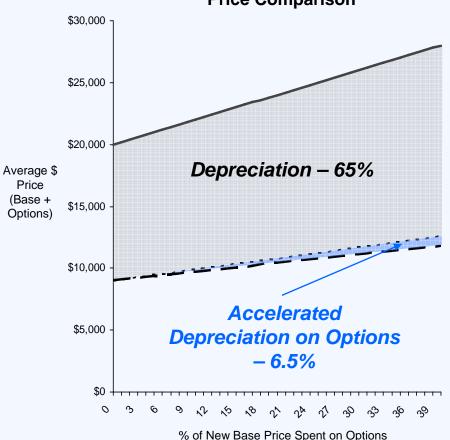
Premise

- Previous research on this topic has illustrated that Data Opacity causes equipment to depreciate faster than vehicles.
 - Most visible at auction.
 - Vehicles with more equipment should be more undervalued at auction.
 - This should affect both on-line and wholesale similarly.



Cost of Data Opacity on Wholesale Prices





- Average MSRP of Vehicle: \$27,400
- Average transaction Price of Vehicle: \$25,500
- Options as a % of MSRP: 8%
- Average 4.5 year Depreciation of MSRP (Auction Observations):
 - Base Vehicle: 65% of MSRPOptions: 71.5% of MSRP
- Additional Value lost on options At wholesale auctions: \$27,400*8%*6.5%=\$142

Potential Improvement of \$142 per vehicle (1.5% of the Auction Price)

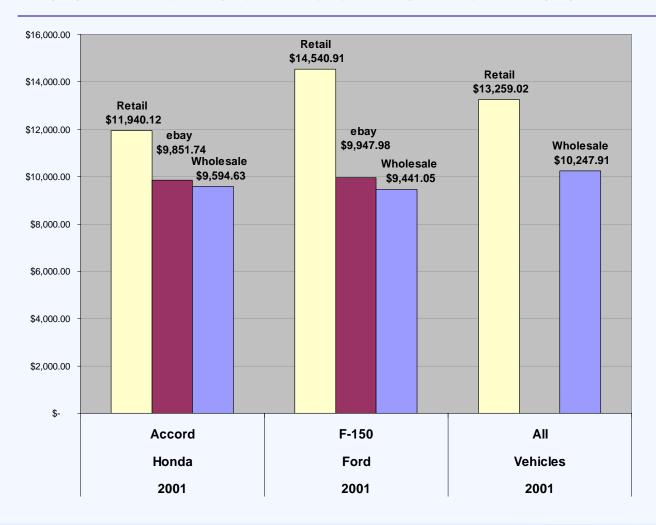


Method

- Two vehicles tested
 - 2001 Ford F-150
 - Numerous High Dollar Options
 - Many must be taken on faith
 - 2001 Honda Accord
 - Minimal Options
 - All Visible
- All Transactions over the course of 1 week were analyzed
 - Retail Sales
 - ebay Sales
 - Wholesale Auction Sales



2001 Honda Accord vs. 2001 Ford F-150

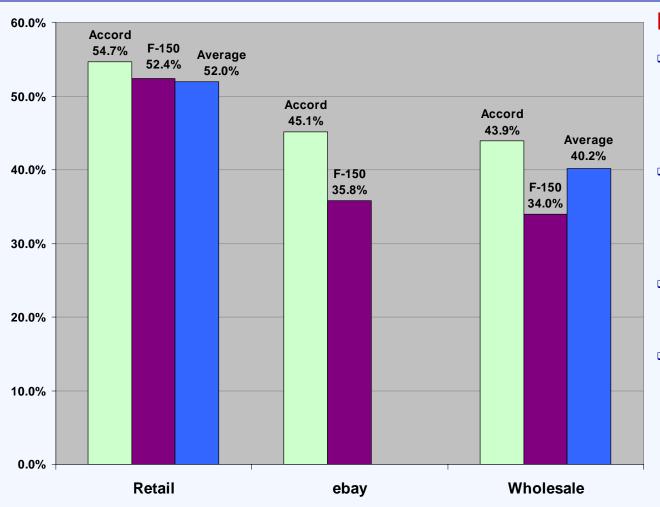


Average Purchase Price

- ebay and Wholesale nearly identical
- Large disparity
 between Retail &
 Wholesale on F-150
- Accord is in line with average



2001 Honda Accord vs. 2001 Ford F-150



Retained Value

- F-150 and Accord are 0.4% and 2.7% above average at retail (respectively).
- F-150 retained value 6% below average at wholesale
- Accord is 4% above at wholesale.
- ebay is within 2% of wholesale.



Conclusion

- Information imbalance (or the perception thereof) exists in the identification of optional equipment.
- The effect seen on ebay is a symptom of the larger problem
- No authoritative source of this data

