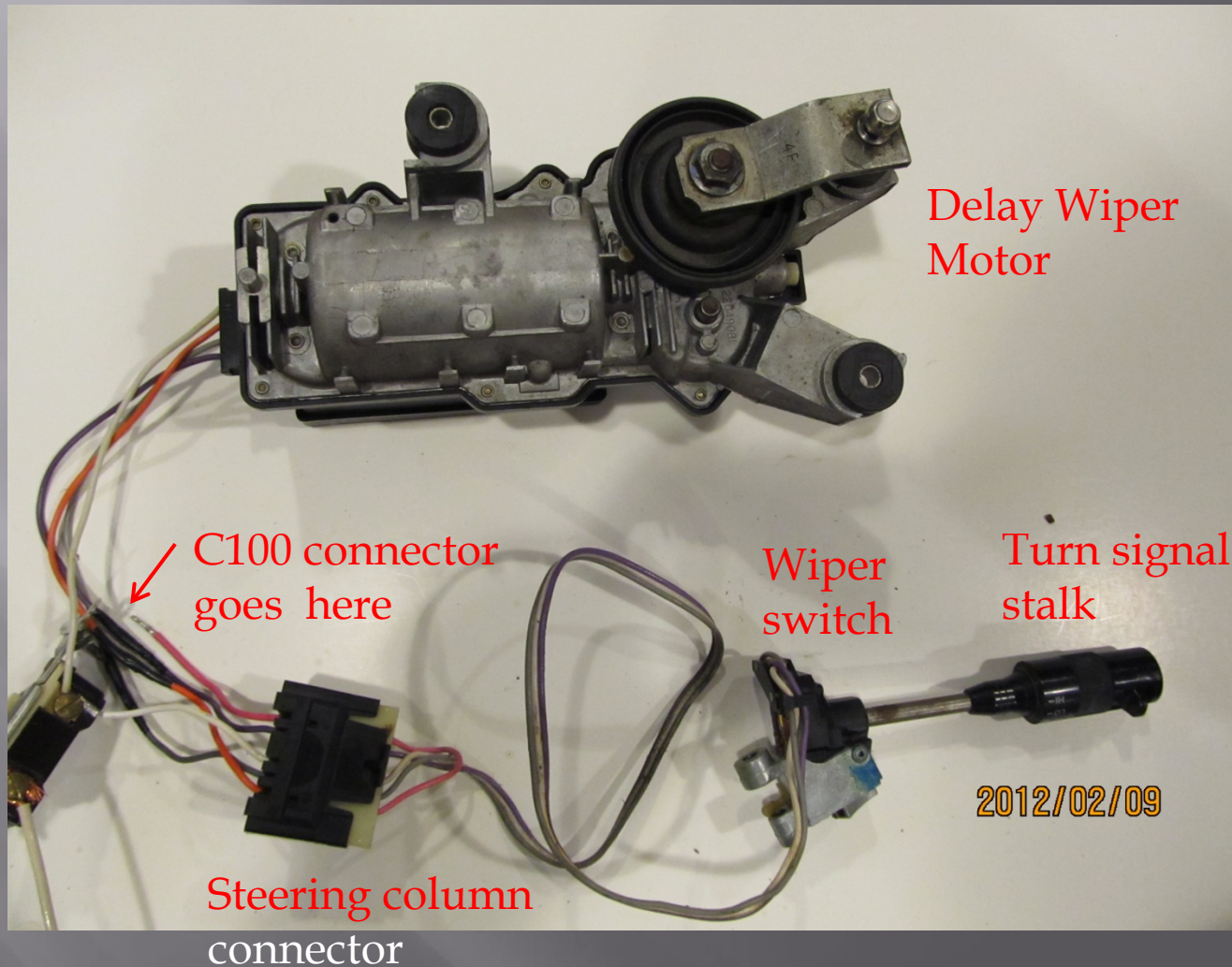


# THE MYSTERY OF THE FIERO PHANTOM WIPE

N.I.F.E Feb. 18<sup>th</sup> 2012

By Nick DiMonte

# Wiper system componets



# Phantom symptoms

- ▣ One or two wipes when you turn on car
- ▣ Intermittent wipes
- ▣ Wipers turning themselves on
  
- ▣ Severe case:
  - can't turn wipers off!

# Possible cause

- ▣ Two possibilities
  - electrical
  - mechanical



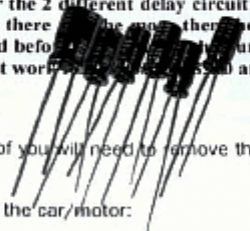
# Electrical solutions?

## Rodney Dickman's Fiero Accessories



### Delay Wiper Board Rebuild

**Please note:** This kit will repair the 2 different delay circuit boards commonly used in the 85-88 Pontiac Fiero. I have heard there are more than these 2 boards used also. Check the number(s) on your circuit board before you order. The numbers on the boards do not match these 2 numbers this kit may not work. Part numbers: 22062692 / 22062693.



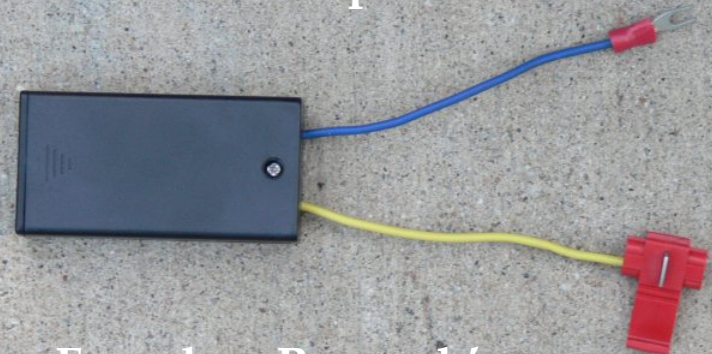
If you have a Fiero with a sunroof you will need to remove the plastic cover over the rear of the compartment first (7mm).

Removing the circuit board from the car/motor:

- (1) Disconnect the wiring harness from the headlight motor.
- (2) Remove the black plastic cover on the front of the motor assembly (1/2").
- (3) Carefully pull the delay board out of the housing. It is held in place via several clips on the driver's side. You can pry VERY gently on the driver's side. Do not break the board.

Once the circuit board is removed take it to a work space and proceed with the repair.

## "Phantom Wipe" Eliminator



Found on Pennock's

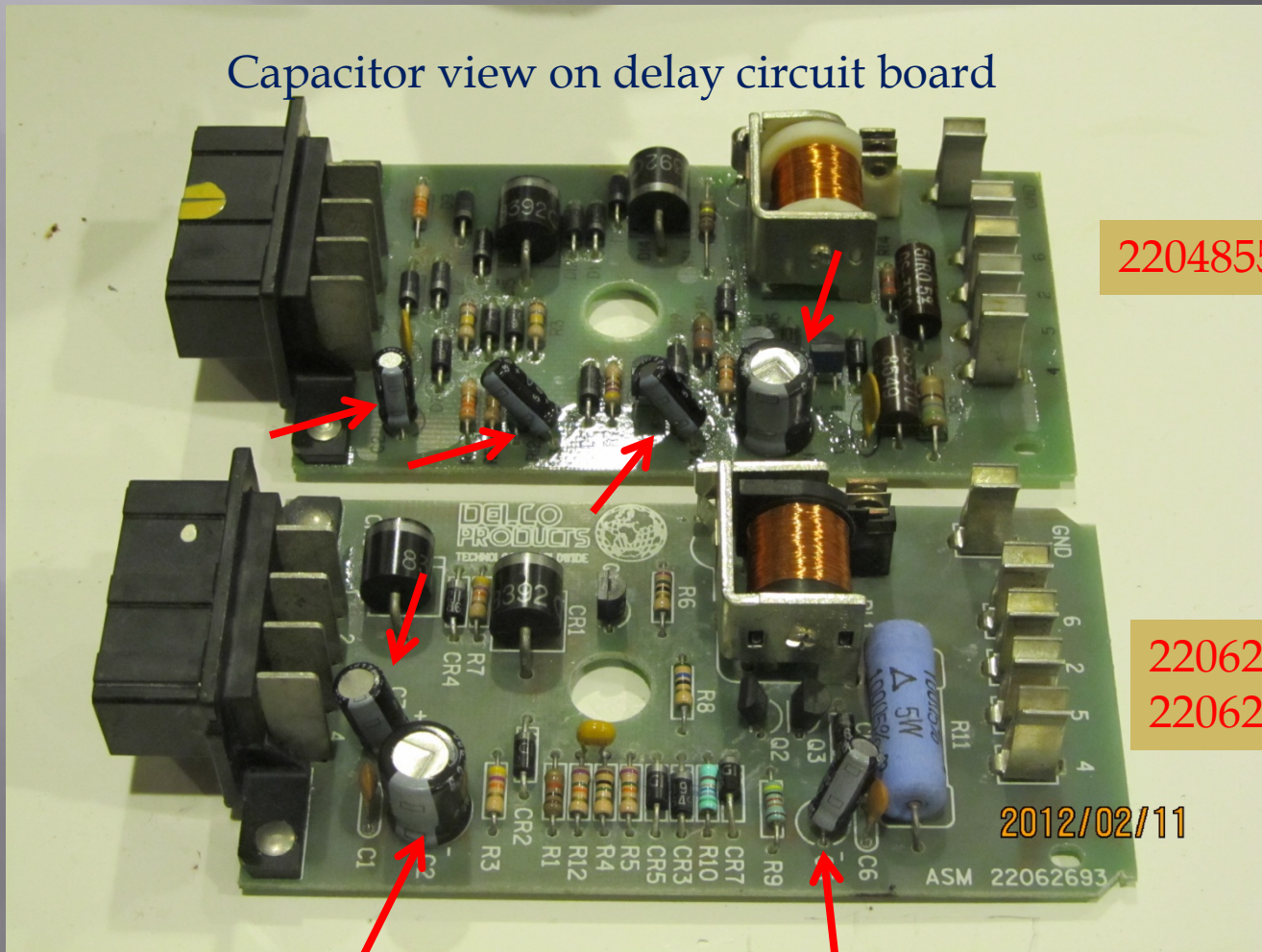


New version

New wiper switch from O'Reilly's  
auto parts store, part # S3474  
Price is \$80.99

# Electrical solutions?

Capacitor view on delay circuit board





# Mechanical ??

What's different between these two motors?

- One arm is 28 degrees from home position!

Trouble  
motor

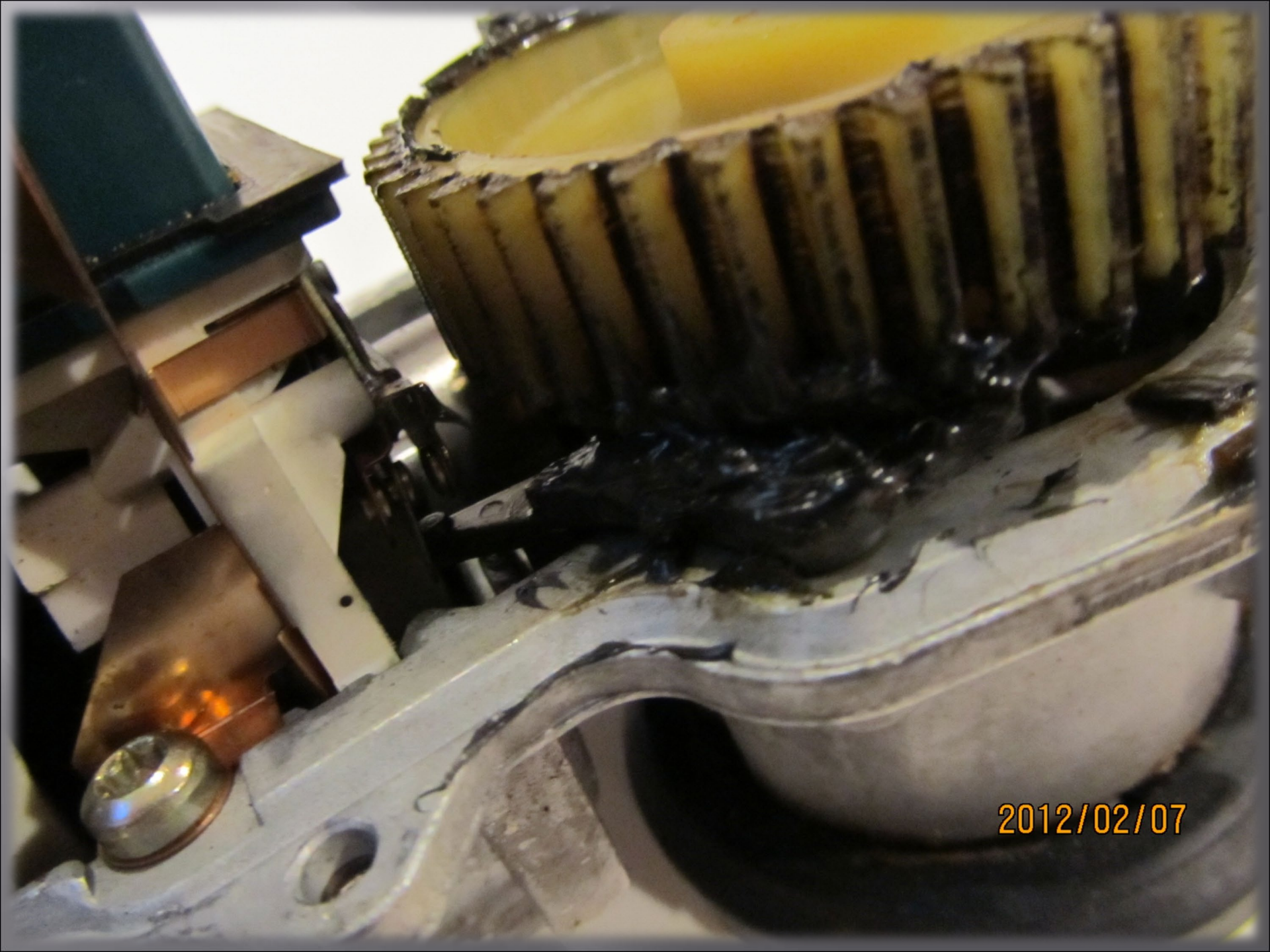


2012/02/09

# Mechanical cause

- ▣ Simple, common issue
  - OLD GREASE
  - switch can't move fast enough
  - motor coast to a stop
  - may overshoot if switch doesn't close in time.





2012/02/07





2012/02/07

# Phantom demo

Compare  
a refurbished motor  
to a  
23 degree off home position motor.