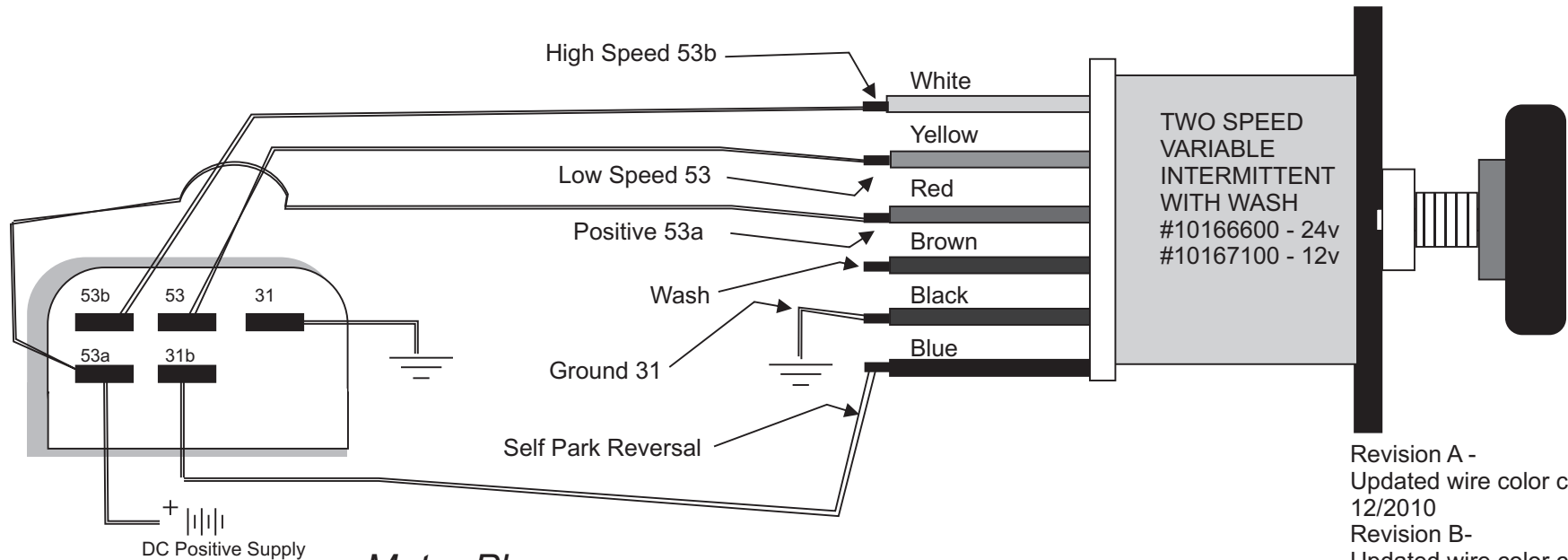


# 20, 30, 50, 80 and 110nm 12 and 24 Volt DC SERIES MOTORS WIRING INSTRUCTIONS

## Switch # 10166600 (24V) and # 10167100 (12V) 2 SPEED VARIABLE INTERMITTENT WITH WASH



Revision A - Updated wire color chart 12/2010  
Revision B - Updated wire color chart 04/2014

Note : View is terminal side of white plug on motor

Note these switches replace old part numbers 100947-1 (24V) and 100946-1 (12V) which both had 7 wires , total, with 2 red wires connected together

| Terminal Number : | Motor Colors : |           |           | Motor Colors Beginning 04/01/14: |                       | Motor Colors to be phased in for all motors 05/01/14: |
|-------------------|----------------|-----------|-----------|----------------------------------|-----------------------|---|
|                   | 30NM 12 V      | 30NM 24 V | 50NM 12 V | 50NM 24 V                        | 80NM, 50NM & 30NM 24V |   |
| 53b               | White          | Red       | White     | Red                              | Grey                  | Red   |
| 53                | Yellow         | Green     | Yellow    | Green                            | Blue                  | Green   |
| 31                | Black          | Blue      | Black     | Brown                            | Black                 | Brown   |
| 53a               | Red            | Black     | Red       | Blue                             | Blue / Black Tracer   | Yellow  |
| 31b               | Blue           | Brown     | Blue      | Black                            | Blue / White Tracer   | Blue  |

Window Wiper Technologies, Inc  
800 Flanders Road  
Mystic, CT 06355  
860-536-6274  
Fax 860-536-9218

**Hepworth Marine Wipers**  
*Building Quality for 125 Years*

This drawing is the property of WWT Inc. and may not be reproduced without their expressed written consent

Drawn DW  
File Wiring 20 110NM  
Date 02/08  
**NOT TO SCALE**

Wiring Instructions  
for the Series 20,30,50,80,110NM  
With Switch 10166600 & 10167100