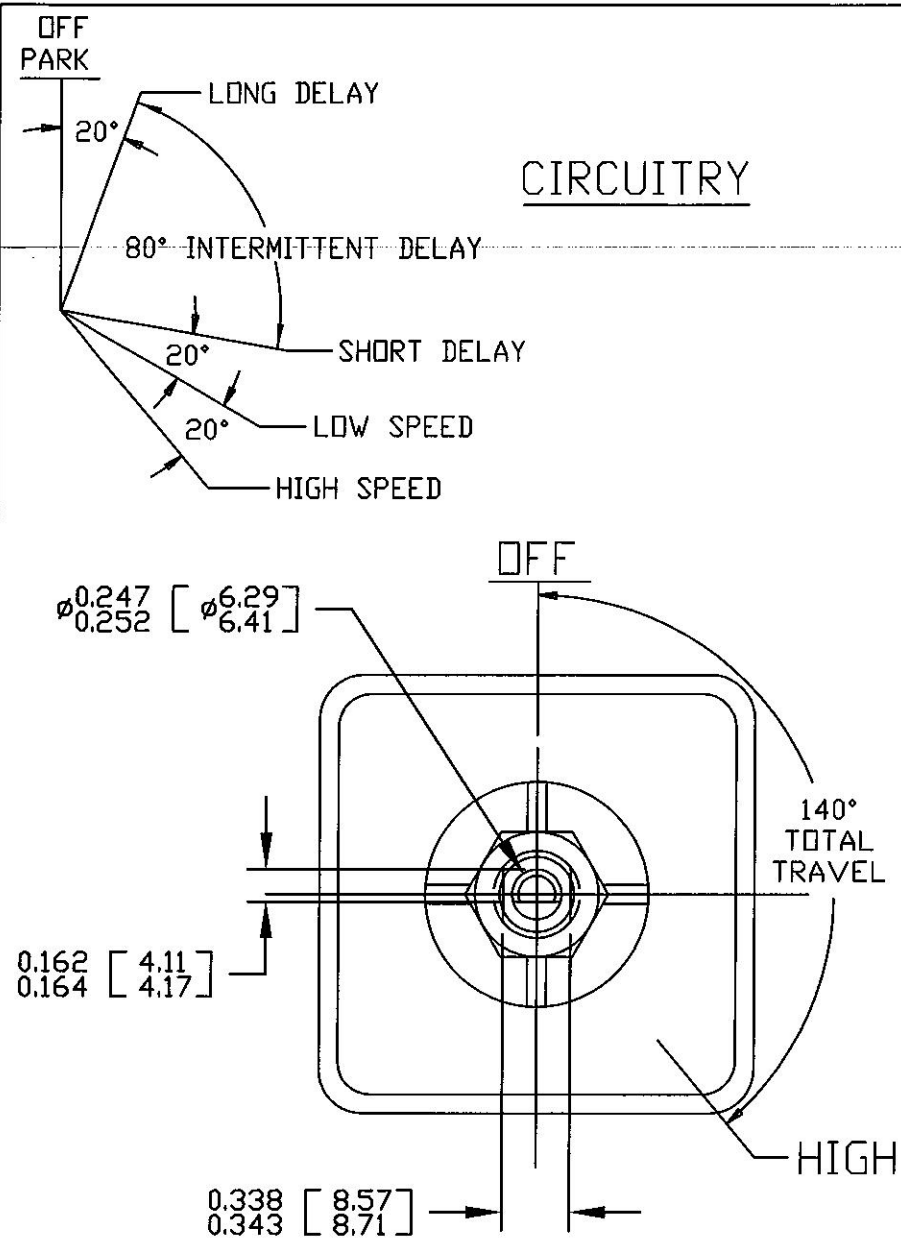
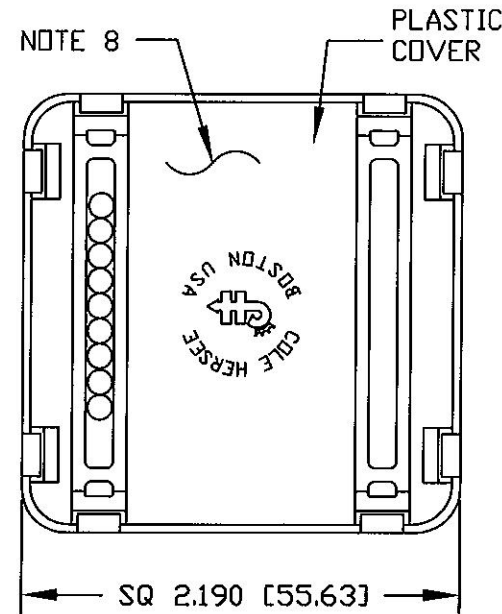
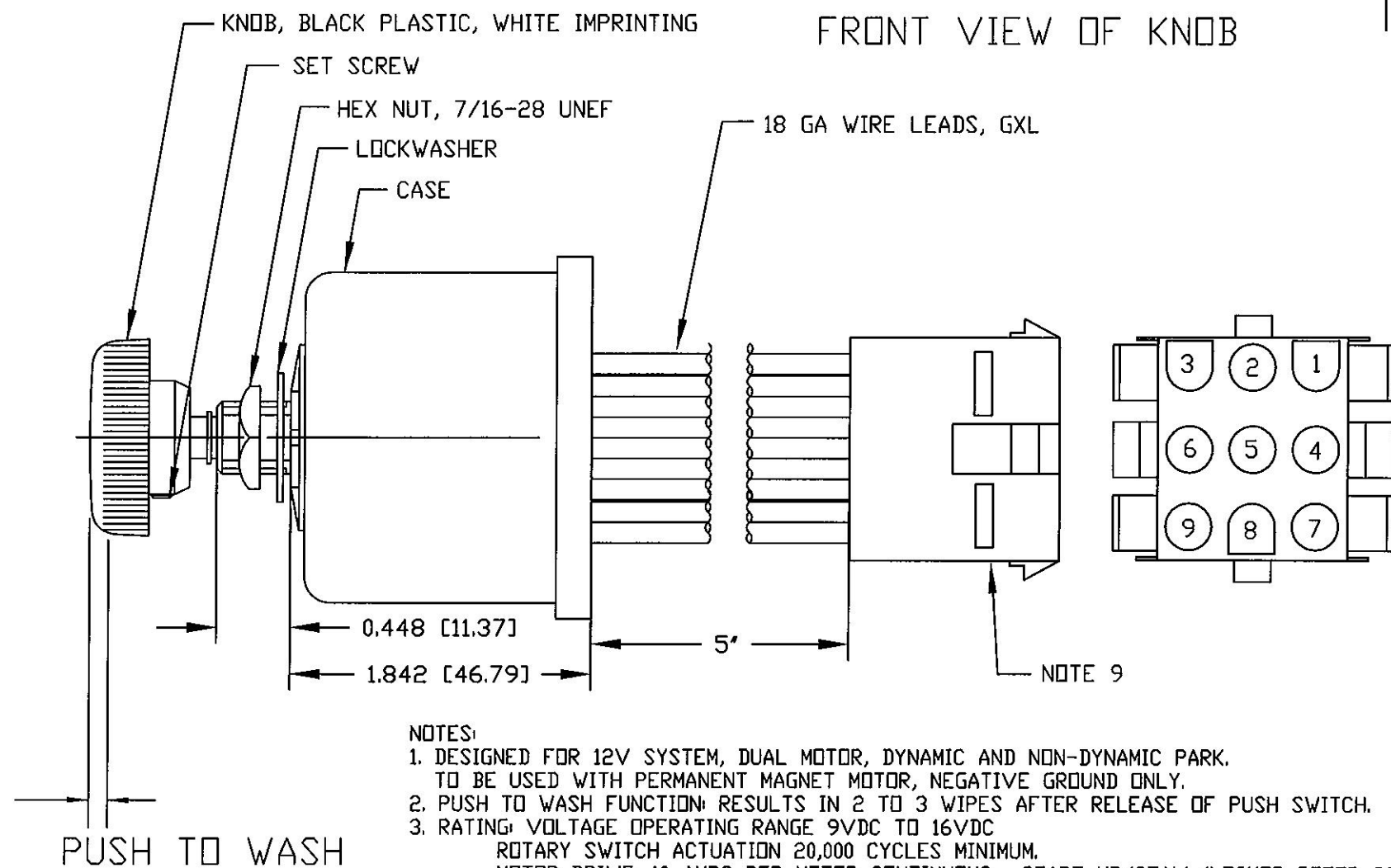




CIRCUITRY



FRONT VIEW OF KNOB



- NOTES:
- DESIGNED FOR 12V SYSTEM, DUAL MOTOR, DYNAMIC AND NON-DYNAMIC PARK. TO BE USED WITH PERMANENT MAGNET MOTOR, NEGATIVE GROUND ONLY.
 - PUSH TO WASH FUNCTION: RESULTS IN 2 TO 3 WIPES AFTER RELEASE OF PUSH SWITCH.
 - RATING: VOLTAGE OPERATING RANGE 9VDC TO 16VDC
ROTARY SWITCH ACTUATION 20,000 CYCLES MINIMUM.
MOTOR DRIVE: 10 AMPS PER MOTOR CONTINUOUS. START-UP/STALL/LOCKED-ROTOR 30 AMPS. SHORT-CIRCUIT PROOF.
WASHER CIRCUIT 3 AMPS, PUSH SWITCH 20,000 CYCLES MINIMUM.
 - MICROPROCESSOR CONTROLLED, SOLID-STATE RELAY, CURRENT LIMIT SENSE CIRCUIT, REVERSE POLARITY PROTECTED
 - CONFORMS TO SAE J1455:
4.11 GENERAL HEAVY DUTY TRUCK ELECTRICAL ENVIRONMENT.
4.11.1 STEADY-STATE ELECTRICAL CHARACTERISTICS.
4.11.2 TRANSIENT, NOISE AND ELECTROSTATIC CHARACTERISTICS.
 - ENVIRONMENTAL EXTREMES BY LOCATION.
5.2 INTERIOR-FORWARD.
 - INTERMITTENT DELAYS: 1, 2, 4, 7, 11. AND 16 SECONDS
 - ALL DIMENSIONS ARE REFERENCE ONLY UNLESS NOTED OTHERWISE.
 - COLE HERSEE PART NUMBER, REVISION, & DATE CODE STAMPED IN WHITE.
 - CONNECTOR: AMP 1-480707-0; TERMINALS, FEMALE: AMP 350536-1 (QTY 9)

COLOR	CONNECT WIRE TO:	TERMINAL
RED	VBB (12V POWER)	1
BLACK	GROUND (0V)	2
BLUE	PARK MOTOR #1	3
WHITE	HIGH-SPEED MOTOR#1	4
BROWN	WASHER	5
GREY	HIGH-SPEED MOTOR #2	6
PURPLE	PARK MOTOR #2	7
YELLOW	LOW-SPEED MOTOR #1	8
ORANGE	LOW-SPEED MOTOR #2	9

Tolerances Unless otherwise specifically noted, the following are default tolerances: • 2-place Decimal Dimensions $\pm .02"$ • 3-place Decimal Dimensions $\pm .005"$ • Angular Dimensions ± 1.0 Deg. • Metric: Refer to equivalent English Dimension Tolerance >>> NOTE: All tolerances are Non-Cumulative. <<< Dimensional Units All dimensions are expressed in inches except those shown in brackets (xxx) are expressed in millimeters "REF." or an Asterisk (*) = Non-Toleranced Reference Dimension, shown for clarification purposes only. Used On or Ref.: EX28331 / CI Scale: 1:1	PROPRIETARY INFORMATION This Engineering Drawing, and the information contained herein, is proprietary to Cole Hersee Company and may not be disclosed, re-produced, or in any other way transferred or communicated to any other party without the express written consent of an authorized representative of Cole Hersee Company. DESIGN CONTROL It is the responsibility of the individual using / referencing this drawing to assure that the noted design revision level agrees with the revision level of the Controlled Document (Master Drawing). This is a NON-CONTROLLED DOCUMENT unless otherwise specifically noted. DO NOT SCALE - Dimensional variation may occur during printing / reproduction. Drawn By: JCS Date: 12/18/06	Special Characteristics: CC Critical Characteristic, relating to Safety and/or Regulatory Compliance X Significant Characteristic relating to Process Control (SPC) KC Control Dimension relating to Form - Fit - Function as defined by Cole Hersee Company and/or the Customer (Note that the Identification of any Characteristics as being "Special" does not alter the requirement that ALL specified dimensions & tolerances must be met.) Responsible Engineer: JCS Pg. 1	Cole Hersee Co. 20 Old Colony Ave., South Boston, MA, 02127 Phn: 617-268-2100 Web: www.colehersee.com Description: WINDSHIELD WIPER CONTROLLER, DUAL-MOTOR, 12V, SYNCHRONIZED, SSR Drawing / Part No.: 75603-09 Current Rev.: B
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