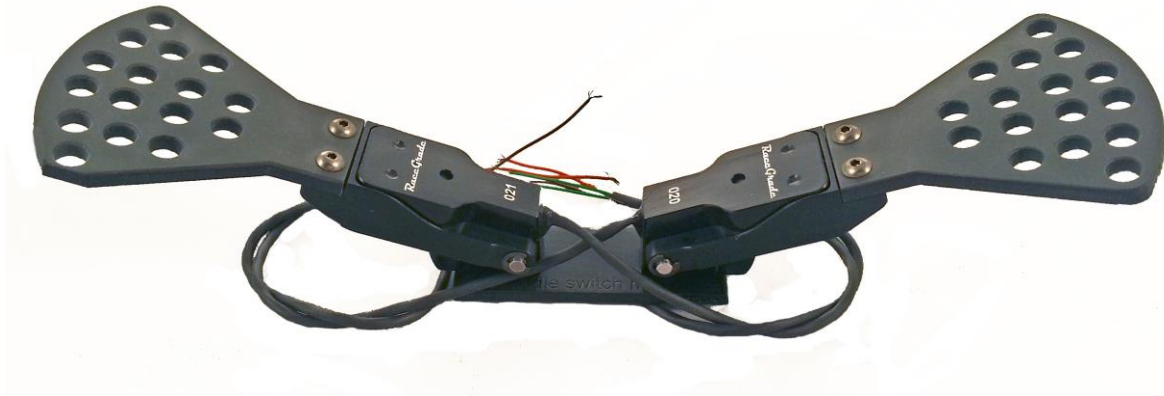


Document Number		RG SPEC 0058	
Title		Paddle switch non-contact Hall effect	
Revision	Date	Prepared By	Change History
1.2	09/01/2017	SW	Pull-up No Longer Necessary / Mounting Screw Correction
1.3	10/16/2017	SW	Added Torque Specification

Introduction

RaceGrade Paddle switches are a compact solution for back-of-steering wheel placement.

Suggested uses include up-shift, down-shift or other driver activated functions.



Switches feature:

Non-contact Hall-effect switching for consistent long term reliability and repeatability.

Crisp, distinct operating feel by the use of strong magnets in the mating parts.

Adjustable stop to limit switch travel. It is recommend to set the stop at 1.5 times the electrical switch point. Allowing more travel is no concern but setting a tighter limit may result in a latched condition of the switch upon return to rest. Simply re-adjust to correct the latched condition. Eg: if electrical switch point is 0.67mm from rest, set physical stop equal to or greater than 1.0mm

Provision for mounting a wide variety of paddle shapes to suit individual needs.

Precision aluminium mating parts with black anodize.

Titanium pivot pin with krytox lubrication.

Paddles shown for example only, not included in kit.

Electrical Connection:

Supplied: un-terminated flying lead.

Optional: terminated to suit customer.

Conductors: 3x 28AWG Tefzel wire.

Orange: Vcc

Green: Switched Output:

Signal is low when actuated

pulled up to supply at rest position

Brown: 0v

Specifications:

- Supply Voltage: 5-18VDC
- Current Consumption: <10ma
- Temperature Range: -20 +100C
- Weight: 33 grams w/o paddle
- Dimensions: L 1.9" W .75" H 1" approx
- Provided Switch mount screws: 2x M4x0.7 flathead socket head
- Provided Paddle Mounting screws: 2 x 4-40 x 5/16 button head
- Provided hex keys for switch travel and paddle securing
- Operating force w/ 2" paddle
- Approx 1100-1300 grams

How to Order:

Part number: **RG Paddle**

Priced and sold individually. May be ordered as matched set.

Switches are designed to be mounted on structurally rigid part of steering wheel.

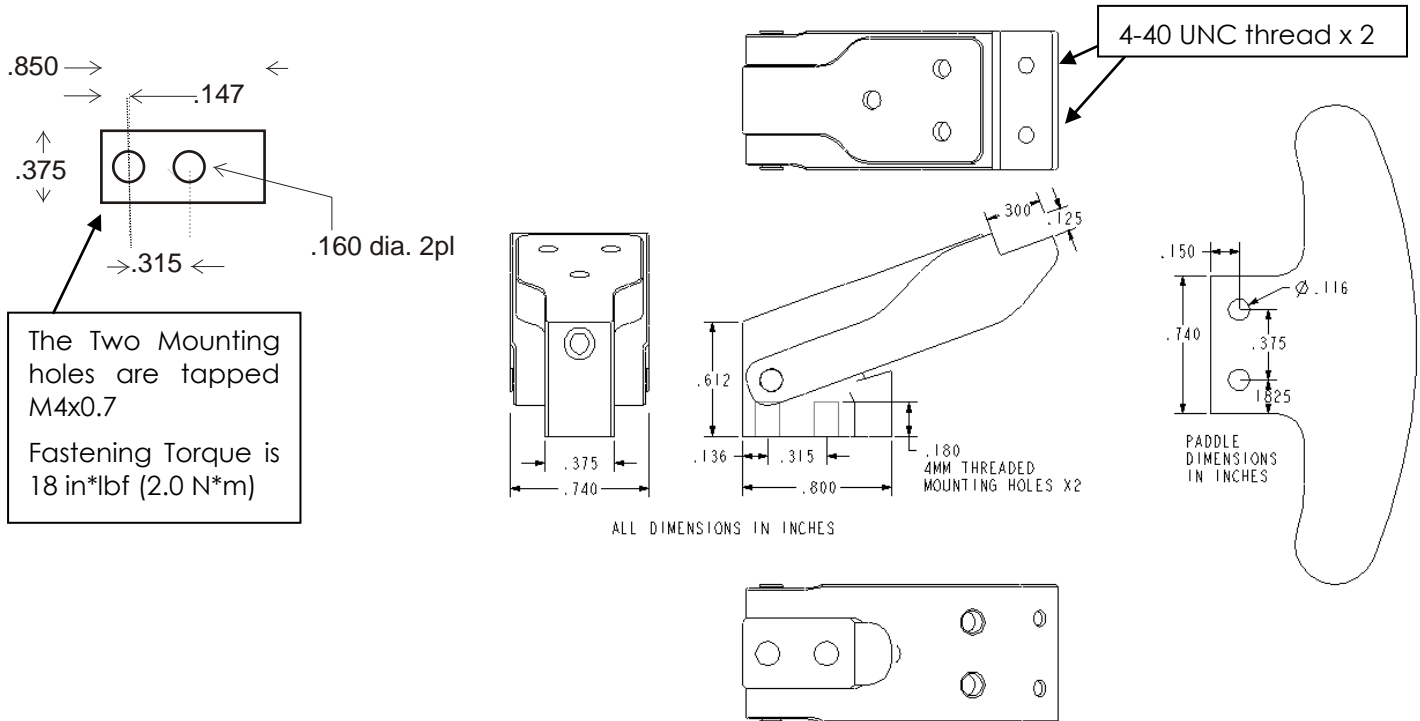
Plastic plate provided for shipping purposes only.

Switch travel to be adjusted, if necessary, before mounting on steering wheel.

Adjustment screw: 4-40 with viscous locking action, hex key: .050"

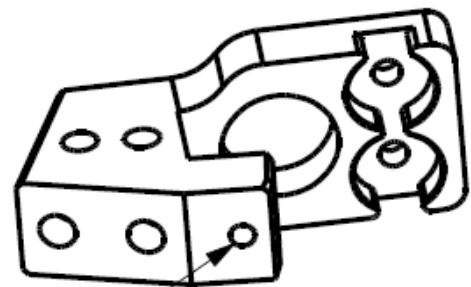
NOTE: Paddle top/bottom are a matching pair. Do not separate and mix with other assemblies

Mounting template; for switch with paddle extending to the right.



The Two Mounting holes are tapped M4x0.7
Fastening Torque is 18 in*lb (2.0 N*m)

Switch Point & Stop Data				
Serial #	Switch point		Stop Set Point	
	in	mm	in	mm



#4-40 Stop Adjustment Screw