542543

# R35i Mounting Instructions - Dynamic Alignment Montageanleitung

#### Verify that you received the following items:

Encoder

Cover

Setscrew wrench

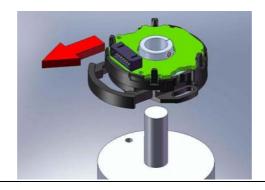
M2.5 or #2-56 UNC Torx Head Mounting Screws with Captive Washer

## CAUTION ---- ESD Precautions Apply ---- CAUTION

# **Motor Preparation:**

Dynamic alignment requires a second motor to backdrive the target motor. Connect motor winding U to channel 2 of an oscilloscope.

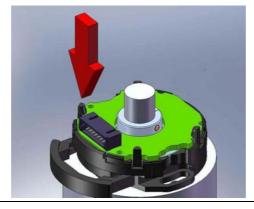
### **Encoder Preparation**



IMPORTANT! Do not apply power to the encoder at this time.

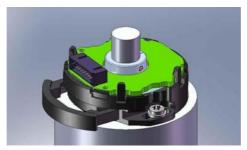
Verify that the slide lock mechanism is fully extended and the setscrew is in the 3 o'clock position. This will put the index and U commutation underneath the sensors within ±10 mechanical degrees. If needed, apply thread locker to the mounting holes





Slide encoder onto the motor shaft.

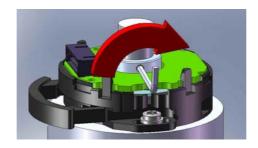
Step 2



Install mounting screws finger tight, allowing encoder housing to rotate.

ľ		Release-no.		Created	Responsible	Released		Version	Rev.	Sheet	Page
١		C00125	Name	Obermayer	Obermayer	Tresenreiter	D548177	- 02 -	- A -	- 01	1/
	RENCO		Date	10.04.2014	01.10.2010	15.04.2014	Docu	ment no.			3

Step 3



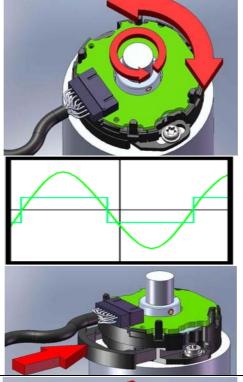
Secure the hub setscrew with  $0.16 \pm 0.03$  Nm (20 oz-in) torque.

Step 4



Install test cable and apply power to the encoder. Connect encoder U to channel 1 and trigger on this channel. While holding encoder body firmly, back drive motor counter clockwise (500 RPM MAX for 1 minute MAX).





Rotate housing until rising transition of commutation U occurs at the zero crossing of the motor back-emf signal of winding U. Torque the mounting screws to 0,21 ± 0,03 Nm (35-40 oz-in). Push in slide lock mechanism. Bond hub to shaft for high acceleration or deceleration applications.

Step 6



Remove test cable and install cover. Install cable assembly.

	Release-no.		Created	Responsible	Released		Version	Rev.	Sheet	Page
	C001256-	Name	Obermayer	Obermayer	Tresenreiter	D548177	- 02 -	- A -	- 01	2/
RENCO		Date	10.04.2014	01.10.2010	15.04.2014	2014 Document no.				3

#### Mounting accessories for Renco R35i:

# 350379-10 Torque driver with 1/4" bit holder

with adjustable torque range 0,02 Nm to 0,3 Nm



## 825869-01 Special screwdriver bit set Bristol 4-Spline

for hub setscrew for following shaft diameters: 3/8 inch or 3/8+ inch

The screwdriver bit set includes following parts:

- 1/4" adapter with 0.048-4-Spline Bristol bit
- wrench for replacing the bit
- 10 units 0.048-4-Spline Bristol bits as spare parts



#### 756768-43 Special screwdriver bit 0.89 mm Hexagon

to tighten the hub setscrew for following shaft diameters: 1/8, 1/8+, 3/16, 3/16+, 1/4, 1/4+, 5/16, 5/16+ inch, 4mm, 5mm, 6mm, 8mm



## Support

For Support in the U.S., Canada and Mexico, Please Contact

HEIDENHAIN Corporation Phone: 847-490-1191 Fax: 847-490-3931

Mail:renco@heidenhain.com

333 State Parkway

Schaumburg, IL 60173-5337

	Release-no.		Created	Responsible	Released		Version	Rev.	Sheet	Page
	C001256-	Name	Obermayer	Obermayer	Tresenreiter	D548177	- 02 -	- A -	- 01	3/
RENCO		Date	10.04.2014	01.10.2010	15.04.2014	Document no.			3	