

	Doc or ECO #:	EC)-GTO-015-001	Date:	2/5/2019	Author:	AEG
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	Aeg	Date:	2/5/2019	Quality Approval	DO

P/N #:	GTO-015	Effective Date:	February 5, 2019
Title:	Replacement for EOL thruster bearing		

1.0 Purpose / Summary

The PRO4 thruster bearing is EOL, this ECO is for a drop-in replacement.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
GTO-015	New part is SSBR4ZZ-GREASE from APT Bearing	☐	☐	☒	B

3.0 Detail

GTO-015 the bearing used on the pro4 horizontal thrusters, is p/n **1ZEH1** supplied by Grainger. This part is EOL.

SSBR4ZZ-GREASE supplied by APT Bearing has been chosen as a cross.
<https://aptbearing.com/product/ssbr4zz/>

All specs are identical except lower static load (77lbs vs 128lbs), ABEC rating (1 vs 3), and lubrication (grease vs oil). Given our operational envelop the new specifications are acceptable.

PPI has procured a first article and tested with positive results.

4.0 Disposition of Material

Use old stock to depletion.

5.0 Action Items

Action	Department	Acknowledgement Initials
Inform PPI of replacement part	ENG	AEG
Review PPI test data	ENG	AEG

	Doc or ECO #:	EC)-GTO-015-001	Date:	2/5/2019	Author:	AEG
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	Aeg	Date:	2/5/2019	Quality Approval	DO

6.0 Modified / Referenced Documents:

Document	Current Revision
Click here to enter text.	Click here to enter text.

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
2/5/2019		Init	aeg