

	Doc or ECO #:	MNP-P4-BD-001	Date:	6/3/18	Author:	aeg
	Rev. #:	B				
Engineering Change Order (ECO) Manip Motor Driver Chip Replacement	Engineering Approval:	AEG	Date:	6/3/18	Quality Approval	DO

P/N #:	MNP-P4-BD	Effective Date:	June 3, 2018
Title:	Manipulator Motor Driver Chip Replacement		

1.0 Purpose / Summary

The motor driver chip went EOL. PCB was revved to support new chip.

2.0 Parts Affected

Part Number	Notes	Removed	Added	New	Modified
MNP-P4-BD	PRO4 Manip PCB	☐	☐	☐	☒

3.0 Detail

The motor controller driver on the PRO4 manip PCB went EOL. The new version of the chip (A3950) had a different footprint but was functionally identical.

The board was re-laid out to accommodate the new foot print.

4.0 Disposition of Material

No disposition needed

5.0 Action Items

Action	Department	Acknowledgement Initials
Release delivery of new board for use in manip production	purchasing	NS

6.0 Modified / Referenced Documents:

Document	Current Revision

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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
6/3/2018	-	Initial release	aeg