



TECHNICAL BULLETIN

➤ *Recommend Earliest Possible Action* ◀

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Reference #	146
Route to	Modernization Manager/Service Manager
From	MCE Technical Support Department (916-463-9200 then press "3")
Date	January 31, 2014
Pages	1
Subject	R6-S Line Regenerative Units
Equipment	All controllers with a KEB R6 Regenerative drives shipped prior to October 1, 2013.
Description	MCE has been notified by KEB that depending on the line phase wiring to the R6-S commutation choke, it has been discovered that the R6 sensing circuit can measure a negative line frequency. This measured negative line frequency can affect the R6's ability to match its output to the line—resulting in over current errors during commutation. If unaddressed, this situation could lead to eventual component failure in the R6 unit.
Action	<ul style="list-style-type: none">• With the car idle verify the measured line frequency on the R6 unit in parameter CP.02, it should be a positive value. If CP.02 is positive value (e.g. +50.0/+60.0), the R6 connection is correct. If CP.02 is a negative value (e.g. -50.0/-60.0), then remove power and swap two incoming line phases (e.g. L1.1 and L2.1) to the R6 commutation choke. With the car idle recheck CP.02, it should be a positive value.• Change the commutation angle in CP.34 to a value of 22.0.• If using a <i>harmonic filter</i>, change the commutation angle in CP.34 to a value of 29.0.
MCE Help	As always, should you require any additional technical assistance on this or any other issue: <ul style="list-style-type: none">• Email: techsupport@nidec-mce.com• Refer to the reference number above