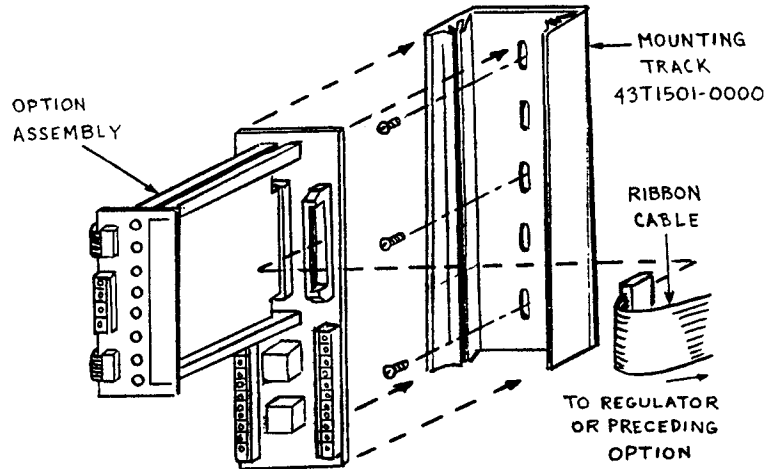


STANDARD OPTION  
FOR SABER 3306  
DUAL ADJUSTABLE TRIP

EFFECTIVE  
10-12-84



OPTION P/N  
46S02638-0010  
SCHEMATIC  
45S02638-0010  
OPTION PCB'S  
46S02639-0010  
46S02373-0060  
46S02423-0020

DESCRIPTION

This option is one of a series available for the Louis Allis Saber 3306 DC drives. It consists of components necessary for modifying the basic Controller for the adjustable trip function.

This option consists of two separate, but identical, electronically operated relay circuits. Either may be used alone, or the two may be used together. This circuit monitors uncalibrated tach voltage.

Dropout can be set for 50% to 100% of the pickup voltage level.

1. Install PVC mounting track (L.A. part no 43T1501-0000) to panel where option is to be mounted, using appropriate hardware
2. Install option assembly by pressing firmly into mounting track.
3. Using 40 conductor ribbon, fabricate and install a double-ended ribbon cable of sufficient length to fit from 12CONN on the right side of the option to 12CONN on the Volt/Speed Main PCB in the regulator power dube, or to 12CONN on the left side of a previously installed option.

Cable 12CONN provides the power and signal interface between this option and the Controller 40 pin data bus.

INSTALLATION

WARNING

REMOVE ALL INPUT POWER TO THE DRIVE BEFORE INSTALLING OPTION COMPONENTS.

Referring to the illustration on this page, install the option in the following manner:

INTERCONNECTION

The relay contacts are rated to break 3A RMS at 115VAC (resistive load).

RECORD OF CHANGES		

INSTRUCTION SHEET FOR  
SABER 3306 STANDARD OPTION  
  
DUAL ADJUSTABLE TRIP  
  
SHEET 1 OF 2  
02Y00025-0162

Relay contacts are connected to the following terminals on the Option I/O PCB.

RELAY	N.O. CONTACTS	N.C. CONTACTS
1CR	1TB 10 and 11	1TB 9 and 10
	1TB 14 and 15	1TB 13 and 14
2CR	2TB 10 and 11	2TB 9 and 10
	2TB 14 and 15	2TB 13 and 14

#### ADJUSTMENTS

1. Turn PICKUP potentiometer (2RH for 1CR, 6RH for 2CR) fully clockwise. Turn DROPOUT potentiometer (1RH for 1CR, 5RH for 2CR) fully counterclockwise.
2. Start the drive. Rotate the SPEED control until the selected voltage signal is at the desired trip level.
3. Slowly rotate the PICKUP potentiometer counterclockwise until the relay energizes and its TRIP LED comes on.
4. The dropout relay is now set for 50% of the voltage level set in Step 4. Verify this by slowly rotating the SPEED control counterclockwise until the relay de-energizes (TRIP LED goes out), and note the level of the voltage signal.
5. If a higher dropout point is desired, first increase the SPEED setting until the relay again energizes. Then rotate the SPEED control slowly counterclockwise until the voltage signal is at the desired dropout level. Slowly rotate the DROPOUT potentiometer clockwise until the relay de-energizes and the LED goes out.
6. If the option cannot be adjusted as indicated above, perform option troubleshooting procedures.

#### TROUBLESHOOTING

If other options have been installed, be sure to troubleshoot them thoroughly before discarding this assembly as faulty.

Troubleshooting consists of checking the operation of the electronically operated relay while the drive is running.

1. If either of the relays fails to energize during the adjustment procedure, run the drive at rated speed. Rotate both 2RH and 6RH fully counterclockwise. If the relay still fails to energize, replace the Option Function PCB (46S02423-0020).

If either of the relays fails to de-energize during the adjustment procedure, replace both the Option Function PCB (46S02423-0020) and the Option Adjust PCB (46S02639-0010).

#### OPTION RECORDS

After completing option installation, insert this instruction sheet inside the back cover of the Controller instruction manual.