

**REVISIONS**

REV	DESCRIPTION	DATE	DR	CHK	APPR
A	ERN 3-AT PRODUCTION RELEASE	10/22/75	RAS		
B	ECN 8330	3/3/76	LB	ZK	

MAR 27 1976

		<b>SIGNATURES</b>	<b>DATE</b>	<b>PERTEC PERIPHERAL EQUIPMENT</b>		
		DR <i>[Signature]</i>	10/22/75	<b>TITLE</b> +5V TIMER RETROFIT KIT AND INSTALLATION INSTRUCTIONS		
		CHK <i>[Signature]</i>	3/3/76			
		ENGR				
		APPR <i>[Signature]</i>	3/3/76			
_____	D3000			<b>SIZE</b>	<b>CODE IDENT</b>	<b>SHT</b> 1
<b>NEXT ASSY</b>	<b>USED ON</b>	<b>SIZE</b>	<b>CODE IDENT</b>	<b>SHT</b> 7	<b>DWG NO</b>	<b>REV</b>
<b>APPLICATION</b>		A		OF	103763	

## 1.0 Scope

This document specifies the modifications that have to be made on a D3000 Disk Drive so that it can interface properly with the +5Volt Timer PCBA and the 5Volt Timer PCBA installation instruction.

## 2.0 Operational Description of the +5Volt Timer PCBA

2.1 The +5V Timer PCBA is designed to turn off the +5V Logic Supply 5.5 minutes after the unit comes to the "SAFE" condition as indicated by the "SAFE" light at the front of the Disk Drive. At this time, the "SAFE" lamp will extinguish, but the AC Pilot Lamp will remain on to indicate that AC is still applied to the Disk Drive.

It is necessary to push the RUN/STOP switch twice to bring the Disk Drive to the RUN mode. Depressing the RUN/STOP switch the first time will reactivate the +5V Logic Supply and the "SAFE" lamp should come on after a few seconds. Depressing the RUN/STOP switch the second time before the Timer times out will bring the Disk Drive to the RUN mode.

Also contained on the +5V Timer PCBA is a +5V regulator that supplies +5V to the AC Pilot Lamp and +5V to the Interface connector or the termination voltage.

## 3.0 Materials and Parts Required

- 3.1 103757-01 - PCBA, +5V Timer (includes 103761, bracket heatsink) and drawing also. (Ref.)
- 3.2 103756 - Schematic, +5V Timer (Ref.)
- 3.3 103762-01 - Cable Assembly
- 3.4 503-6256 - 6 Pin molex connector

## 4.0 Modifications to be Made on the Servo PCBA

- 4.1 Jumper Wire List (Use 26 AWG or heavier)  
All jumpers to be added on the circuit side of the PCBA.
- a) From J202-19 to J214-6
  - b) From J214-4 to J212-9
  - c) From J214-2 to J212-2
  - d) From J203-10 to J203-11
  - e) From J204-8 to U15-2
  - f) From J207-1 to J207-2

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A	2	3

4.2 Re-identify the part number of the Servo PCBA from 102811-0X to 102811-3X for purposes of reordering the proper version of the Servo PCBA.

4.3 Schematic changes are to be made per Figure 1.

#### 5.0 Modifications To Be Made On The Logic PCBA

##### 5.1 Trace Cuts List

- a) Cut trace at CR1 anode that is going to U51-14 (+5V).
- b) Cut trace at J111-6 that is going to U448-14 (+5V).

##### 5.2 Jumper Wire List (Use 26 AWG or heavier)

- a) From J105-19 to U447-8
- b) From J110-4 to CR1 anode
- c) From J110-4 to J111-6

5.3 Re-identify the version number of the Logic PCBA from its present version number to a new version. The new version number is determined by adding 30 to the old version number. This must be done for purposes of reordering the proper version of the Logic PCBA.

5.4 Schematic changes are to be made per Figure 2.

#### 6.0 Installation Instructions For The +5V Timer PCBA (103757)

6.1 Mount the 103757 PCBA on the Positioner Assembly as shown in Figure 3.

#### 7.0 103762 Cable Installation Instructions

There are spare pins on existing molex connectors that will have to be removed before the cable can be connected.

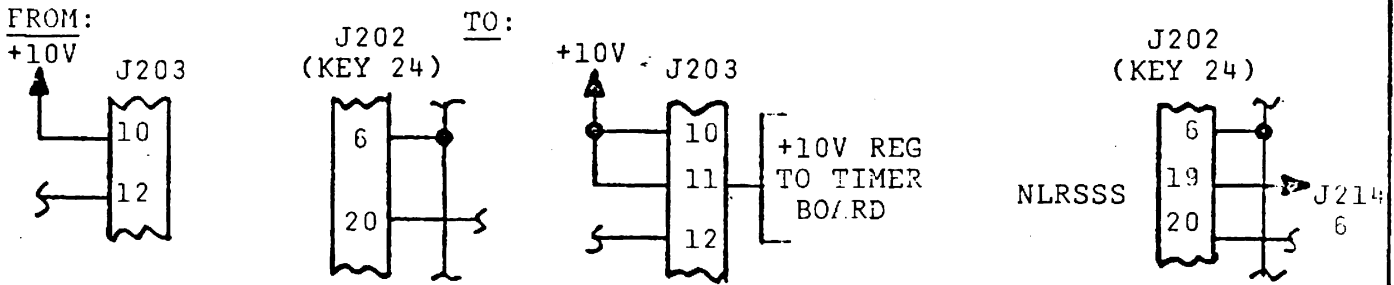
7.1 Spare pins to be removed on the Servo PCBA Connectors:

- a) P207-1
- b) P204-8
- c) P203-11
- d) P214-2, 4 and 6 (for Top Load Models Only).

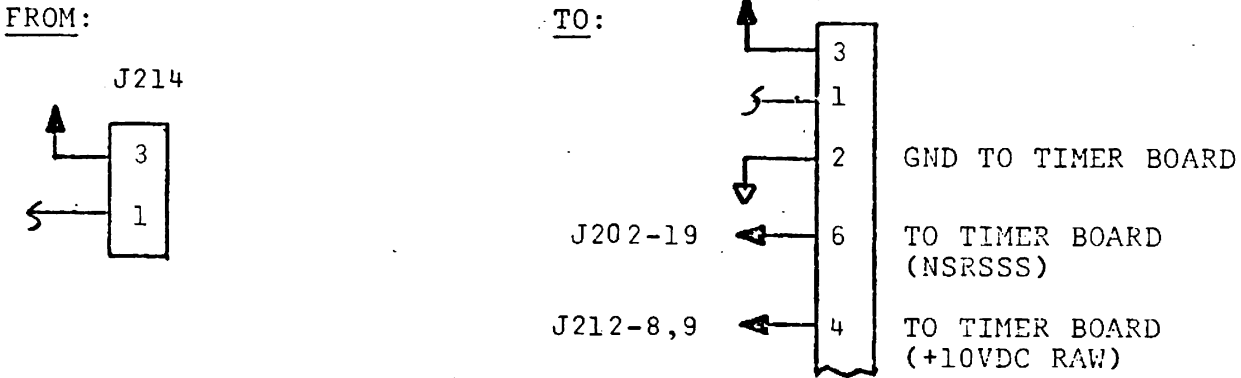
7.2 Spare pins to be removed on the Logic PCBA Connectors:

- a) P110-4

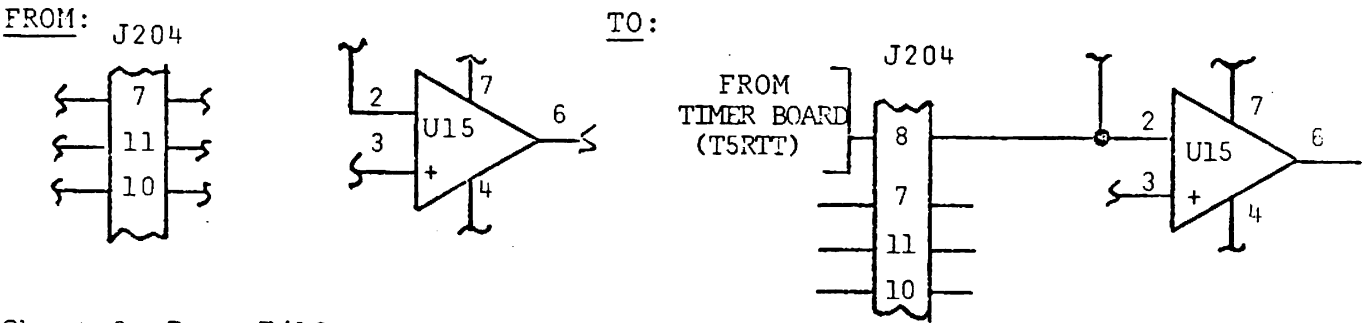
<b>PERTEC</b> PERIPHERAL EQUIPMENT		
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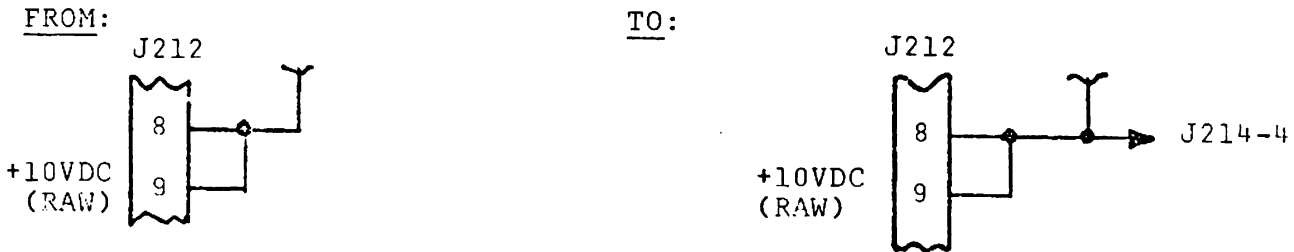
Sheet 1, Zone G/2 & G/3



Sheet 2, Zone G/16 & G/13



Sheet 2, Zone F/16



Sheet 2, Zone B/3

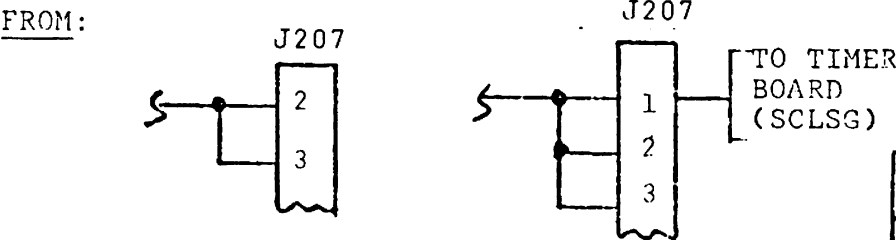


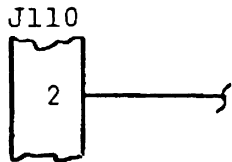
FIGURE 1

<b>PERTEC</b> PERIPHERAL EQUIPMENT	
DWC. NO.	103763
ISSUE	B
SIZE A	SHEET OF

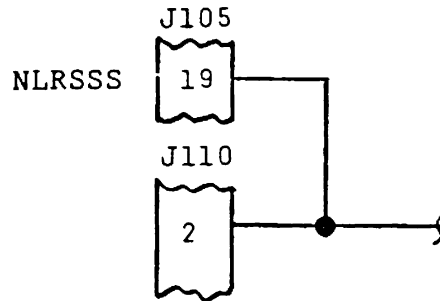
LOGIC SCHEMATIC

Sheet 2, Zone H/18

FROM:

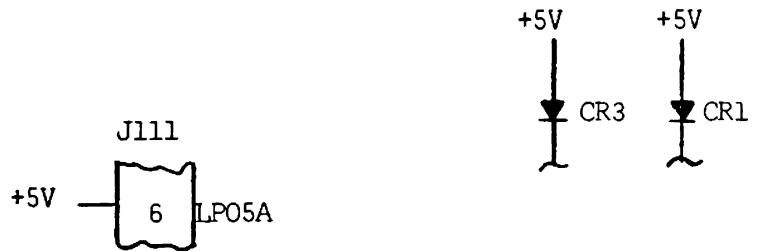
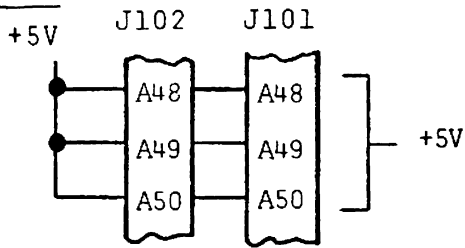


TO:

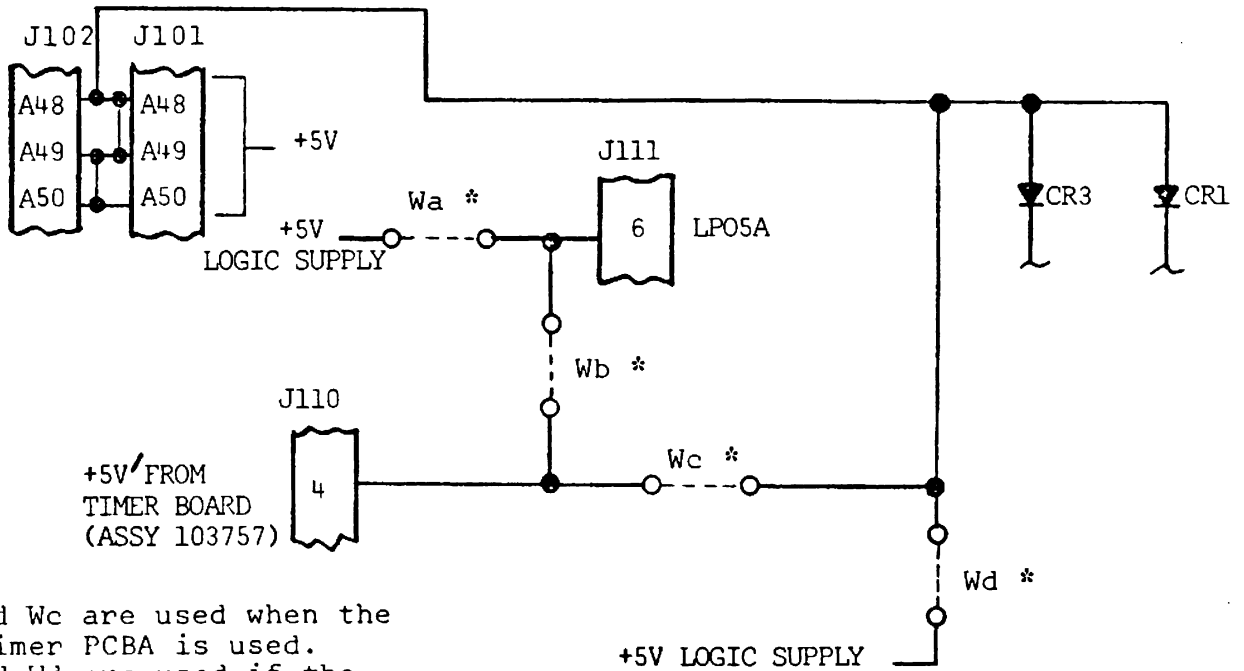


Sheet 3, Zone B & C / 11 thru 15

FROM:



TO:



\*Wb and Wc are used when the +5V Timer PCBA is used.  
 Wa and Wd are used if the +5V Timer PCBA is not used.

FIGURE 2

PERTEC PERIPHERAL EQUIPMENT		
DWG. NO. 103763		ISSUE
SIZE A	SHEET 5 OF	B

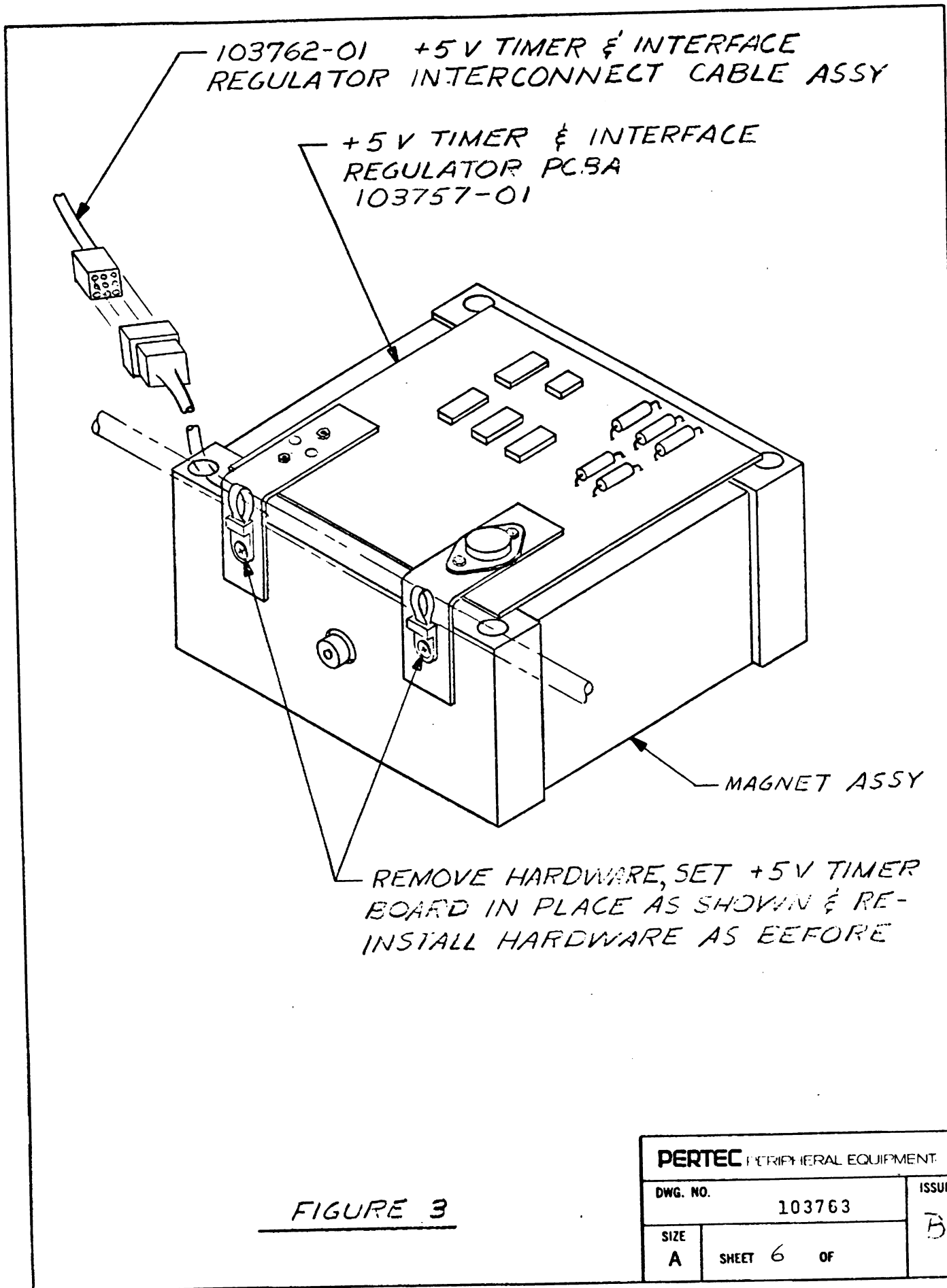


FIGURE 3

<b>PERTEC</b> PERIPHERAL EQUIPMENT		
DWG. NO.		ISSUE
103763		B
SIZE	SHEET 6 OF	
A		

7.3 Insert the molex connector (9 pin) of the 103762 cable into the molex connector from the 103757 PCBA. Insert the other wires of the 103762 cable into the following locations:

- a) Servo PCBA Connectors
  - 1. Brown wire into P207-1
  - 2. Red wire into P204-8
  - 3. Orange wire into P203-11
- b) The following apply to Top Load Models Only:
  - 1. Yellow wire into P214-6
  - 2. Green wire into P214-4
  - 3. Violet wire into P214-2
- c) For Front Load Models insert the yellow, green and violet wires into the appropriate locations of the 6 pin molex connector and then install it into the P214 location on the Servo PCBA.
- d) Logic PCBA Connector
  - 1. Blue wire into P110-4
- e) After the cable assembly is installed at both ends, dress the cable in with the existing harness.

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SIZE A	SHEET 7	OF