

PERIPHERAL EQUIPMENT DIVISION

TITLE			TENSION IDLER ASSEMBLY		PIB NO. DK3057	
PRODUCT LINE	TAPE DISK FORMATTER	1 X 1	EQUIPMENT CHANGED 100637	MODEL SERIES AFFECTED D3000	EFFECTIVE DATE April 30, 1976	

CLASS OF BULLETIN:	ORDER PART KIT NO.	EFFECTIVITY
<input type="checkbox"/> IMPROVEMENT <input checked="" type="checkbox"/> RETROFIT ON FAILURE <input type="checkbox"/> RETROFIT RECOMMENDED <input type="checkbox"/> SERVICE INFORMATION ONLY	N/A	All D3000 Disk Drives with S/N 25XXXXXXX through S/N 45XXXXXXX

PURPOSE

To replace noisy tension idler roller.

SYMPTOMS

Noise coming from the underside of the drive; in the area of the belt drive system. This is caused by the tension idler roller, coming loose from its bearing and dropping until it rubs against the tension arm. This has been cured by using a retaining ring to hold the bearing in place.

PARTS REQUIRED

<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	102637-01	Tension idler assembly

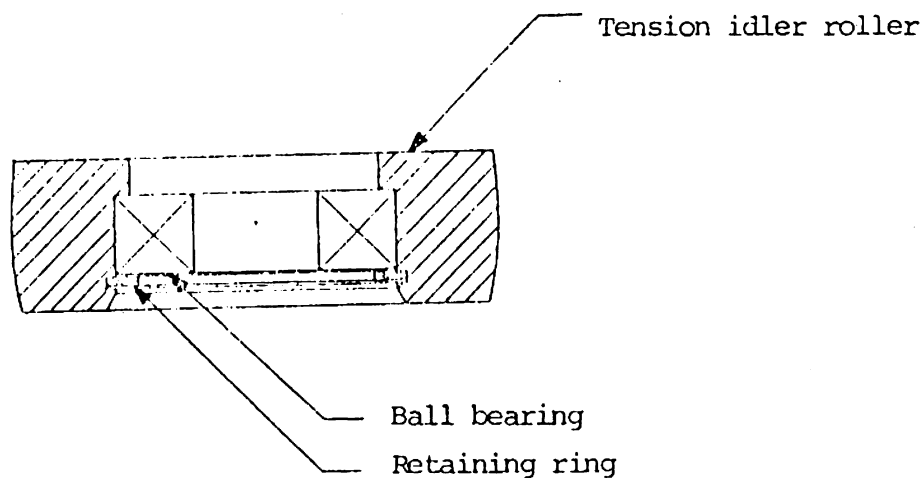


FIGURE 1

Should Additional Information Be Required — Contact

PERTEC

PERIPHERAL EQUIPMENT DIVISION
 9600 Irondale Avenue, Chatsworth, California 91311
 Phone (213) 882-0030 / TWX (910) 494-2093
 ATTENTION: PRODUCT SUPPORT MANAGER

PERTEC 20-K012C(1)

DISTRIBUTION CODE - 6318

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SPECIAL TOOLS

None

REWORK INSTRUCTIONS

1. Remove three No. 10 machine screws securing the belt guard in place.
2. Slide the belt guard forward until it drops away from the base.

WARNING

THE BELT MUST BE REMOVED BEFORE ATTEMPTING TO REMOVE THE SCREWS HOLDING THE TENSION ARM.

3. Insert a large shanked screwdriver between the tension idler plate and the base. Compress the tension idler spring until the belt is released from the motor pulley.

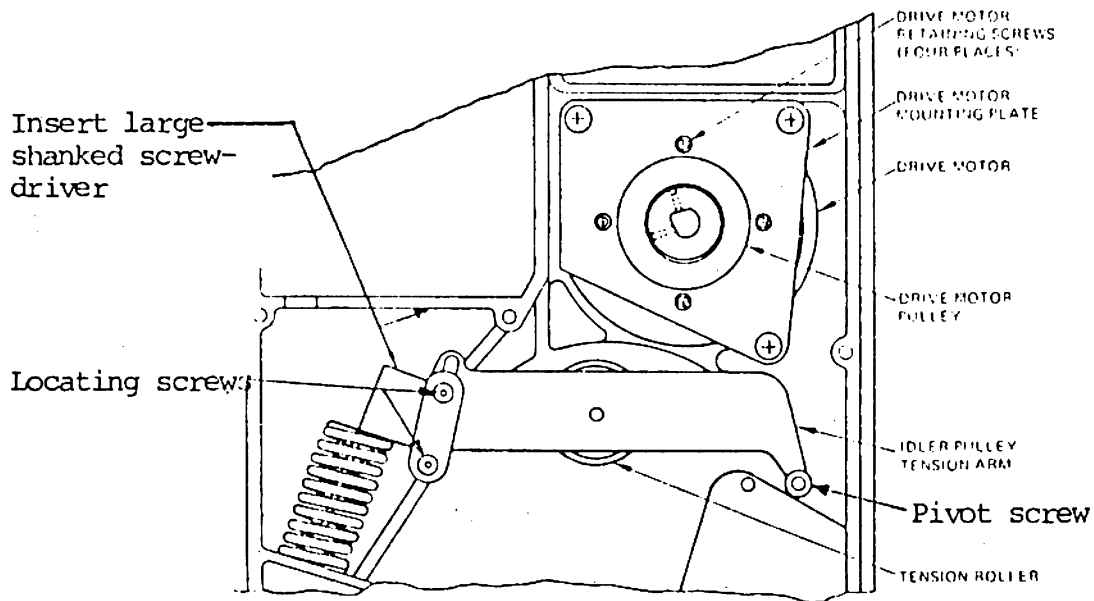


FIGURE 2

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4. Remove the belt from area.

WARNING

THE TENSION ARM SPRING IS UNDER PRESSURE

5. Remove the idler pulley tension arm, by removing the three screws securing the tension arm.
6. Remove the tension roller from the idler pulley tension arm by removing the single securing screw.
7. Install new tension roller (P/N 102637)

NOTE

THE FOUR DIE CAST WEBS WILL BE TOWARD THE HEAD OF THE SINGLE SECURING SCREW WHEN INSTALLED.

8. Position the spring on the idler pulley tension arm as shown in Figure 2.
9. Place the idler pulley tension arm in position and install the pivot screw first.
10. It may be necessary to insert a large shanked screwdriver to compress the spring in order to facilitate installing the two locating screws.

NOTE

ROTATE THE TENSION ROLLER, AND ENSURE THAT THE DIE CAST WEBBING CANNOT BE SEEN FROM THE BOTTOM OF THE UNIT, AFTER THE IDLER PULLEY TENSION ARM IS INSTALLED.

11. Loop one end of the drive belt around spindle pulley. Center the belt on crown of pulley and, by hand, hold the remainder of belt taught until step(12) is completed. See Figure 3.
12. Feed the remainder of the belt loop under the idler tension roller arm.

NOTE

AT THIS POINT THE OUTSIDE FACE OF THE BELT CONTACTS THE CROWN OF THE TENSION ROLLER.

13. Feed the remainder of the belt loop again under the tension roller arm and up toward the blower pulley.
14. Loop the belt around the blower pulley. Release the loop and extend the remainder of the belt loop to the drive motor pulley.

NOTE

AT THIS POINT THE INSIDE FACE OF THE BELT CONTACTS THE TRACTION AREA OF THE BLOWER PULLEY.

15. Continue the remainder of the belt loop up to the drive motor pulley. Spread the belt apart to form a loop which can be slid down and around the traction area of the drive motor pulley.

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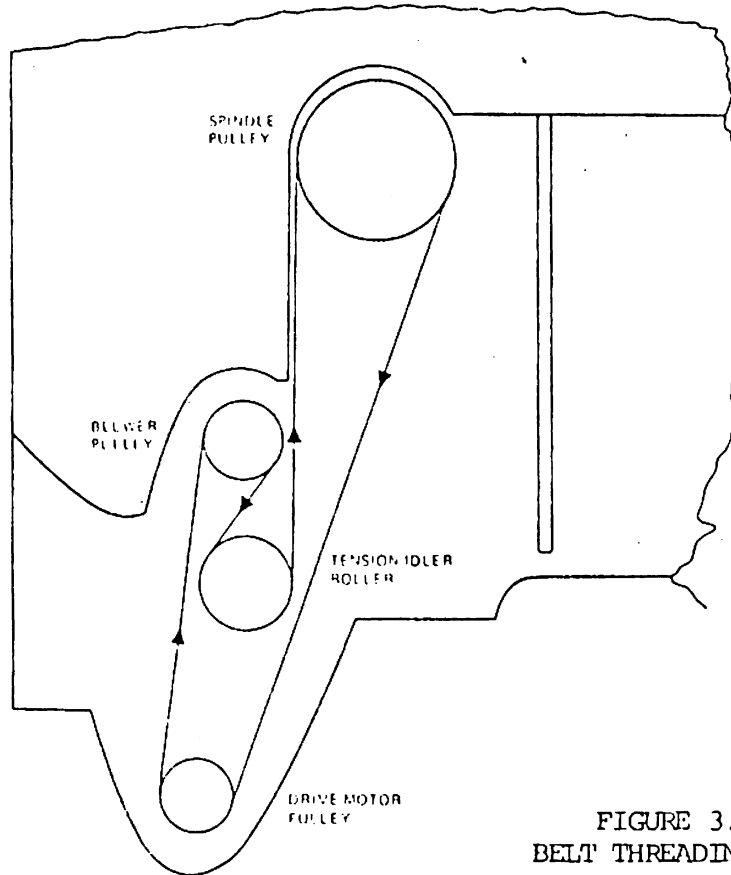


FIGURE 3.
BELT THREADING PATTERN

16. With a large shank screwdriver (used as a crowbar) pry the tension arm forward by compressing the tension arm spring toward the front of the base. This action will establish enough slack in the belt to allow the belt loop mentioned in Step (15) to be slipped down and around the drive motor pulley. Release pressure on the tension arm.
17. Inspect the belt for location on all driven surfaces and also determine that the belt does not contact any surface that will cause belt abrasion.
18. By hand, pull the belt through several revolutions of the drive system in order to allow the belt to seek its normal operating path. This action will also establish the correct tension of the belt between pulley spans.

NOTE:

IF THE BELT COMES IN CONTACT WITH ANY STRUCTURAL MEMBER,
EITHER RAISE OR LOWER THE DRIVE MOTOR PULLEY ON THE
MOTOR SHAFT UNTIL THE BELT CLEARS THE OBSTRUCTION.

19. Check the static discharge contact located on the end of the spindle shaft for wear. (If replacement is required, consult PIB DK3024A).
20. Reinstall the belt guard.
21. Return the disk drive into the enclosure.