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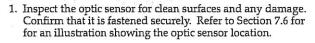
MAINTENANCE PROCEDURES: VISION SLOT UPRIGHT

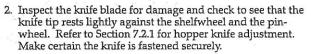
Pinwheel Hopper

# 7.2 Pinwheel Hopper Routine Maintenance

These steps identify the areas that require inspection and adjustment. Refer to Section 7.4 and the applicable parts manual to identify hopper bowl components. Refer to Table 7-1 for preventive maintenance information.

Inspection





- Check the metal coin wiper at the top of the main housing for correct height and confirm that the wiper is fastened securely. Refer to Section 7.2.1 for correct clearance.
- Confirm that the coin level probe is straight and fastened securely.
- Inspect the bowl for damage. Verify that the metal baffle is tight and that the four compression springs that secure the bowl are tight. Refer to Section 7.4 as needed.

Maintenance Item	Service	Service Interval (Months)		
	1	3	6	
Bowl			С	
Metal Coin Wiper			Α	
Polyurethane Coin Wiper	С			
Optic Sensor	С			
Coin Level Probe			С	
Knife	C&A			

X

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#### Cleaning

The following information describes hopper cleaning procedures. Refer to Table 7-1 for cleaning recommendations. Refer to the applicable mechanical parts manual for exploded view illustrations to identify hopper components.

1. Turn the power off before starting any cleaning procedure.

**Note:** The optic sensor assembly may vary in some hoppers. The following instructions are intended as a general procedure when cleaning the optic sensor.

- Clean the inner surfaces of the optic coin sensor using a cotton swab soaked in isopropyl alcohol.
- 3. Wipe the sensor dry with a lint-free cloth.
- Clean the probe (brass screw) using a stiff short-haired brush and isopropyl alcohol.
- 5. Clean the inside of the bowl with compressed air (not to exceed 60 psi) and remove any foreign objects.

Caution: Always wear eye protection when working with pressurized air or cleaning solvents.

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MAINTENANCE PROCEDURES: VISION SLOT UPRIGHT

Pinwheel Hopper

# 7.2.1 Pinwheel Hopper Adjustments

The following information describes hopper adjustment procedures.

### Knife Adjustment

See Figure 7-2 and proceed as follows.

- 1. Loosen the screws that secure the knife in place.
- 2. Position the tip of the knife against the pinwheel face and the top of the shelfwheel.
- 3. Lightly hold the knife in place and tighten the screws.

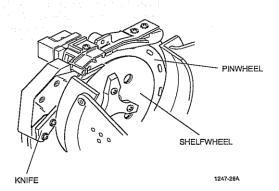


Figure 7-2. Hopper Knife Adjustment.

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~ Pinwheel Hopper

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Pinwheel Hopper

MAINTENANCE PROCEDURES: VISION SLOT UPRIGHT

#### Metal Coin Wiper (Large Coin)

The metal coin wiper on pinwheel hoppers may require occasional adjustment. Hoppers that accept large coins use a metal coin wiper and a polyurethane coin wiper.

To adjust the metal coin wiper on dollar and other large-coin hoppers, see Figure 7-3 and proceed as follows.

- 1. Slightly loosen the screws that secure the metal coin wiper.
- Place a coin of the correct denomination on the edge of the shelfwheel under the tip of the metal coin wiper.
- Insert a small flat-blade screwdriver into the adjustment slot at the top of the metal coin wiper and housing.
- 4. Twist the screwdriver until the tip of the metal coin wiper almost touches the edge/surface of the coin. Leave a very small gap between the wiper and the coin to accommodate coins of the same denomination that may be slightly thicker.
- Lightly hold the coin wiper in place and tighten the screws, taking care not to change the coin wiper position.

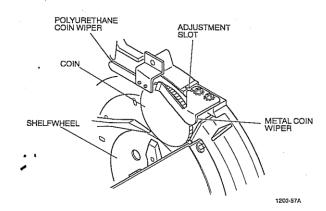


Figure 7-3. Hopper Metal Coin Wiper Adjustment - Large Coin.

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MAINTENANCE PROCEDURES: VISION SLOT UPRIGHT

Pinwheel Hopper

## Metal Coin Wiper (Small Coin)

The metal coin wiper on pinwheel hoppers may require occasional adjustment. Hoppers that accept small coins use a metal coin wiper and a small coin deflector.

To adjust the metal coin wiper on small coin hoppers, see Figure 7-4 and proceed as follows.

- 1. Slightly loosen the screws that secure the metal coin wiper.
- Place a coin of the correct denomination on the edge of the shelfwheel under the tip of the metal coin wiper.
- 3. Lightly hold the coin wiper in place and tighten the screws until the metal coin wiper is touching the coin.

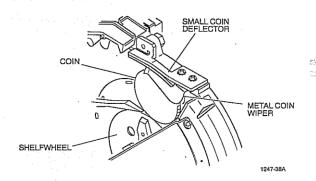


Figure 7-4. Hopper Metal Coin Wiper Adjustment - Small Coin.

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Pinwheel Hopper

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## 7.3 Pinwheel Hopper Coin Level Adjustments

The coin level probe on the hopper bowl informs the microprocessor of the approximate coin levels of the hopper bowl.

When the coins come in contact with the probe, the processor instructs the coin diverter assembly to divert all incoming coins away from the hopper bowl and channels them to the coin drop chute to prevent an overfill.

See Figure 7-5 and use the procedure that follows to set the appropriate hopper probe level.

- 1. Hold the probe (brass screw) with the screwdriver.
- 2. Remove the hex standoff from the inside of the bowl.
- Remove the probe (brass screw) from the bowl and re-insert it into the appropriate hole location.
- Fasten the probe (brass screw) to the bowl with the hex standoff. Do not overtighten.
- 5. Fill the hopper with a desired number of coins.

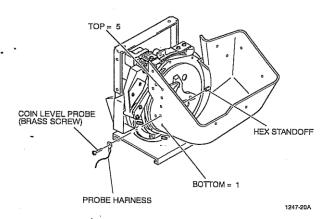


Figure 7-5. Hopper Probe Levels.

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