SERVICE MANUAL

34661

B SERIES SLICERS

B9	**ML-136357**
B10	**ML-136355**
B12	**ML-136352**
B14	**ML-136356**

- NOTICE -

This Manual is prepared for the use of trained Hobart Service Technicians and should not be used by those not properly qualified.

This manual is not intended to be all encompassing. If you have not attended a Hobart Service School for this product, you should read, in its entirety, the repair procedure you wish to perform to determine if you have the necessary tools, instruments and skills required to perform the procedure. Procedures for which you do not have the necessary tools, instruments and skills should be performed by a trained Hobart Service Technician.

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TABLE OF CONTENTS

SERVICE UPDATES

SERVICE UPDATES - B SERIES

June 2021
- Released Service Manual

TIS DOCUMENT LIST - B SERIES

SERVICE TAB	
Document Title	**Document Type**
B SERIES SLICERS	Service Manual
TOUCH UP PAINTING	Service Manual
Z_ITW Food Equipment Group Lubrication Manual	Service Manual

PARTS TAB	
Document Title	**Document Type**
B SERIES SLICERS	Parts Catalog

GENERAL

INTRODUCTION

This manual is for the Berkel B Series slicer. Procedures in this manual will apply to all B Series models unless otherwise specified.

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of publication.

No-Volt Release

B12 and B14 slicers are equipped with a "no-volt release" electronic interlock. If power to the machine is interrupted while the machine is running, it will shut down and remain shut down until power is restored and the on button is pressed again.

Service Position

Many procedures throughout this manual require the slicer to be placed in the service position. The service position is the slicer lying on its long side, and propped up with thin wood blocks (or other bolster) to protect the strain relief and ring guard from damage/ deformation.

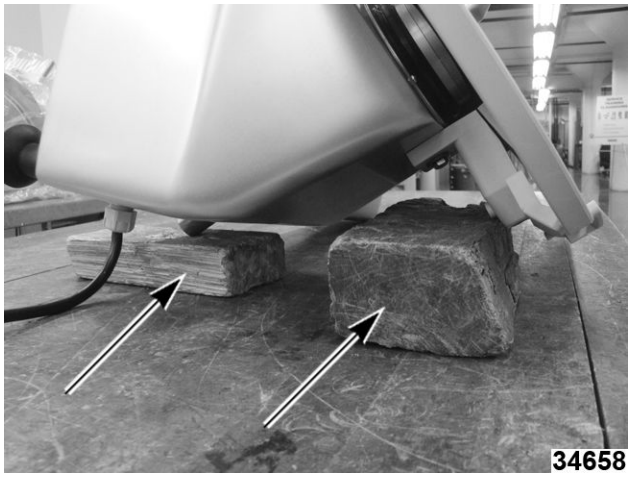

Fig. 1

SPECIFICATIONS

- Belt-driven slicer knife.
- Electrical: 120/60/1.
- Permanent Knife Ring Guard.
- Ceramic stone sharpener.

For more detailed information, refer to the Specification Sheet.

TOOLS

Standard

- Standard set of hand tools.
- Metric set of hand tools.
- VOM with measuring micro amp current tester. Any VOM with minimum of CAT III 600V, CE certified. Sensitivity of at least 20,000 ohms per volt can be used. In addition, meter leads must also be a minimum of CAT III 600V.
- Clamp on type amp meter with minimum of NFPA-70E CAT III 600V, UL/CSA/TUV listed.
- Field service grounding kit.

LUBRICATION

- Lubriplate FMO-200-AW (Part No. 00-915207), used on round rail, wick, o-rings in knife hub assembly.

NOTE: Product table must be in home position before adding lubricant.

- Lubriplate 630AA (Part No. 00-103881-00011), used on index mechanism plate, cam, gauge plate shaft, and square rail.

REMOVAL & REPLACEMENT OF PARTS

SHARPENING STONES

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Loosen the thumb screw.
2. Pull the sharpener up and off of the sharpener mount.
3. Remove the nuts, washers, and cap securing the sharpening stones.

NOTICE

The sharpener stone shafts must be held in place. Be careful not to mar the surface of these steel shafts.

Fig. 2

PRODUCT TABLE

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Loosen the carriage knob (1, Fig. 3).

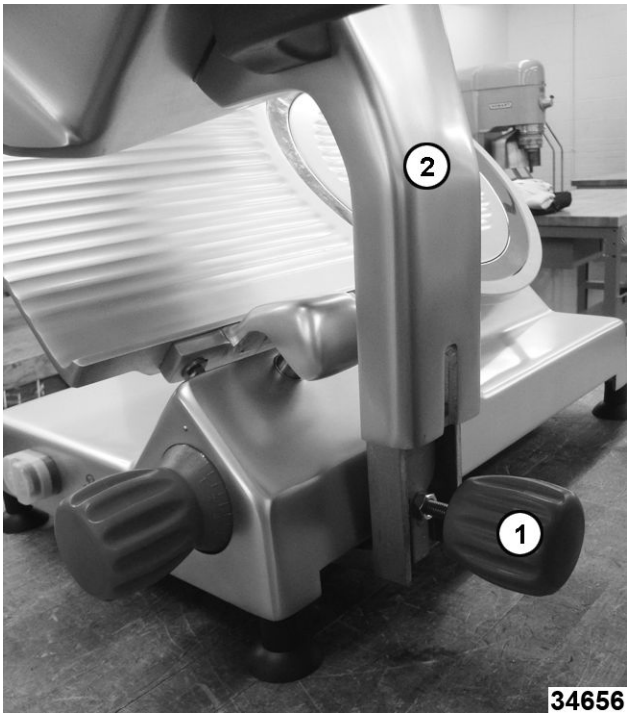

Fig. 3

2. Lift the product table (2, Fig. 3) up off of the carriage.
3. Reassemble in reverse order.

PUSHER ASSEMBLY

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove PRODUCT TABLE.
2. Unscrew slide rod (1, Fig. 4) from bushing (2, Fig. 4).

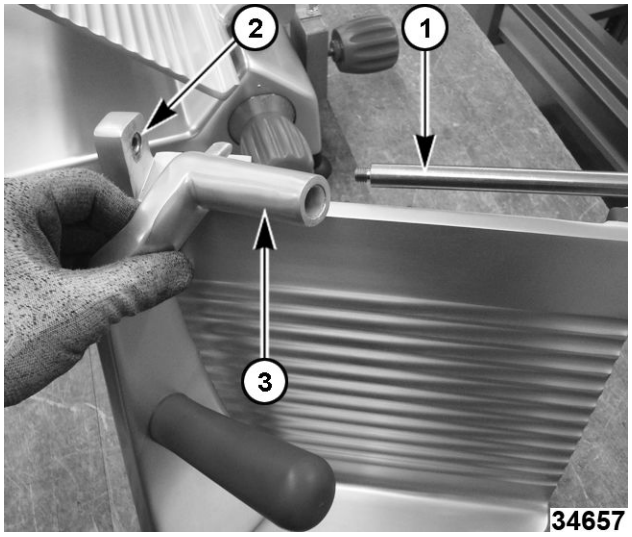

Fig. 4

3. Remove slide rod and pusher (3, Fig. 4).
4. Reverse procedure to install.

NOTE: Lightly coat slide rod with Lubriplate FMO-200-AW.

KNIFE COVER

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

NOTE: The knife cover may be warped from the factory and require bending/forming in order to create a tight fit over the knife.

1. Unscrew the knife cover knob (1, Fig. 5).

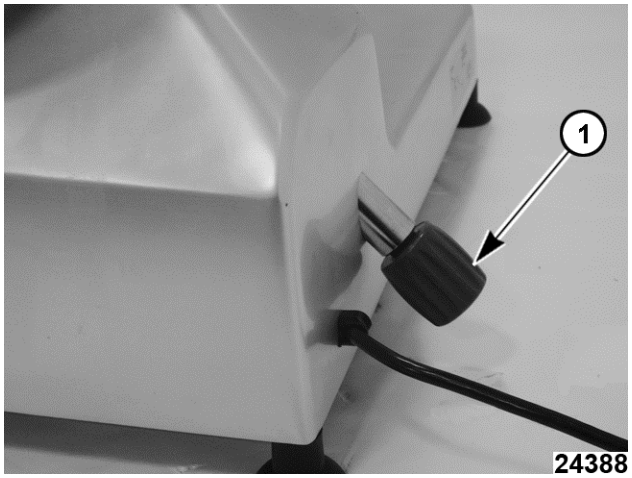

Fig. 5

2. Lift the knife cover (1, Fig. 6) off.

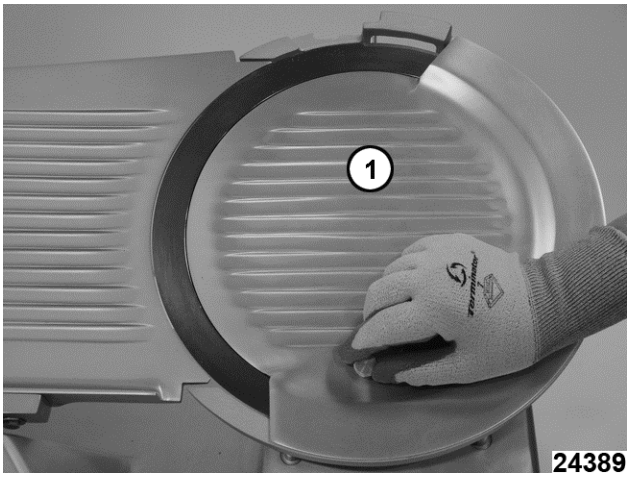

Fig. 6

3. Reverse procedure to install.

KNIFE

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the KNIFE COVER.

⚠ WARNING

The slicer knife is very sharp. Exercise extreme caution when working near the knife.

2. Tape knife edge (1, Fig. 7).
3. Remove the knife screws (2, Fig. 7).

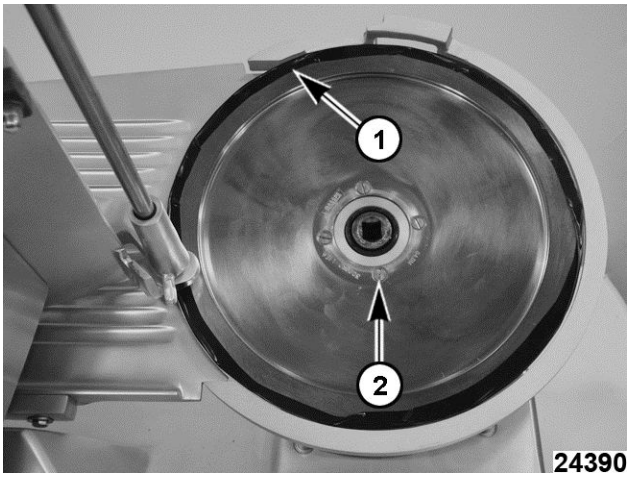

Fig. 7

4. Remove the knife.
5. Reverse procedure to install.
6. Verify proper KNIFE ADJUSTMENT.

GAUGE PLATE

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Remove the gauge plate bolts (1, Fig. 8).

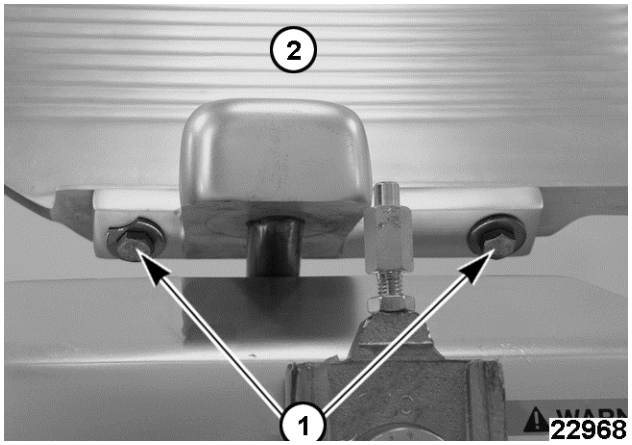

Fig. 8

6. Remove the gauge plate (2, Fig. 8).
7. Reverse the procedure to replace.
8. Perform GAUGE PLATE ADJUSTMENT.
9. Check for proper operation.

CARRIAGE ASSEMBLY

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the square bar (1, Fig. 9) by removing the three screws.

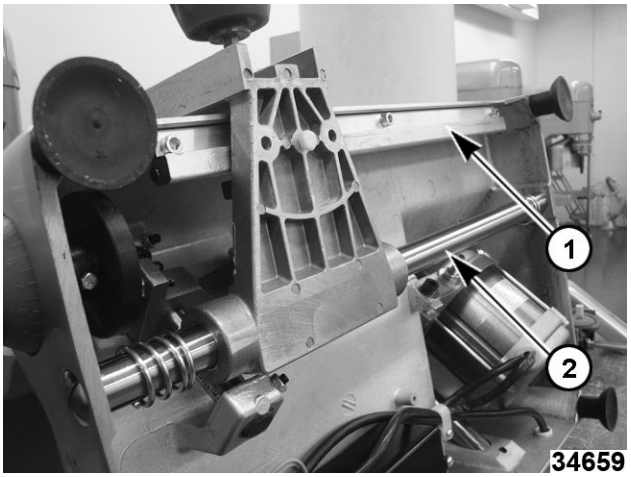

Fig. 9

6. Remove the round bar (2, Fig. 9) and springs by removing the two screws on either side.

NOTE: Some models have springs of differing sizes. The larger spring is located to the left of the carriage assembly; the smaller spring is located to the right of carriage assembly.

7. Remove the carriage assembly.
8. Reverse procedure to install.
9. Verify proper CARRIAGE ADJUSTMENT.

RING GUARD

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Place the slicer in the service position.
6. Remove ring guard nuts and washers.

Fig. 10

7. Place the slicer back in the normal operational position.
8. Remove bolt (1, Fig. 11) to remove the ring guard.

Fig. 11

9. Replace in reverse order.
10. Check for proper operation.

CAPACITOR

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove that capacitor box cover (1, Fig. 12).

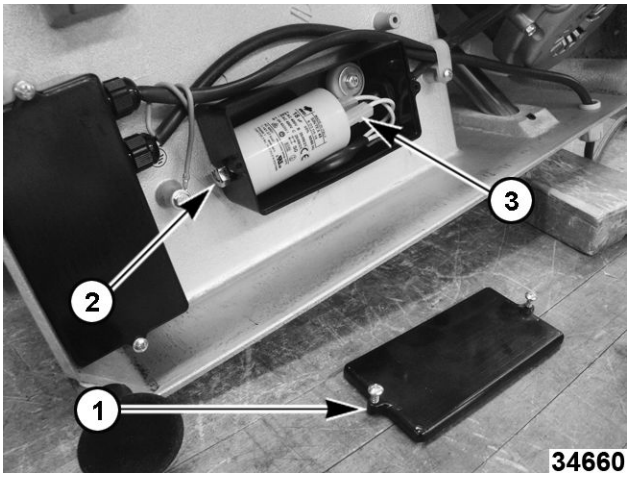

Fig. 12

6. Remove the nut and lockwasher (2, Fig. 12) securing the capacitor to the capacitor box.
7. Discharge the capacitor.
8. Disconnect capacitor lead wires (3, Fig. 12).
9. Reverse the procedure to replace.
10. Check for proper operation.

ON / OFF SWITCH ASSEMBLY (B9 & B10)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the switch cover.

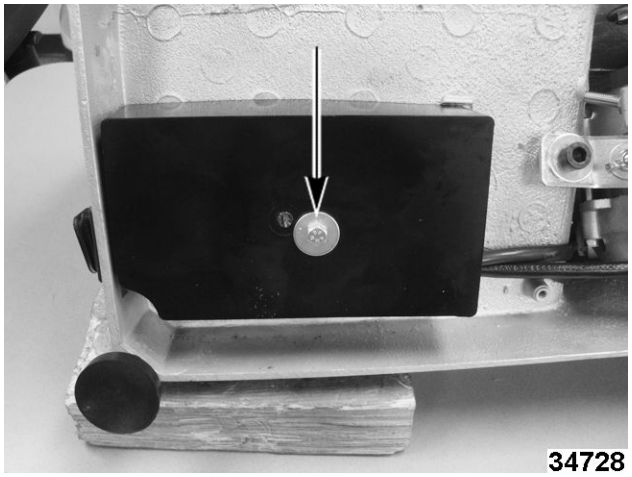

Fig. 13

6. Note the location of the electrical leads, and remove the leads from the switch.
7. With a small flat-blade screwdriver (or similar) press down on the switch tabs to release the switch from the slicer base.

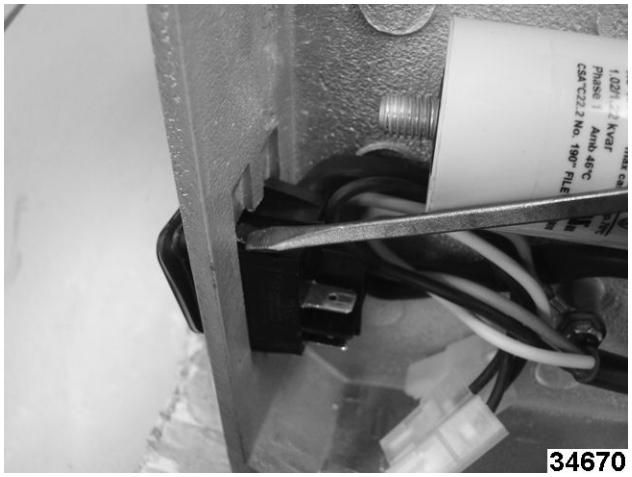

Fig. 14

8. Reverse the procedure to replace.
9. Check for proper operation.

ON / OFF SWITCH ASSEMBLY (B12 & B14)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the switch cover.

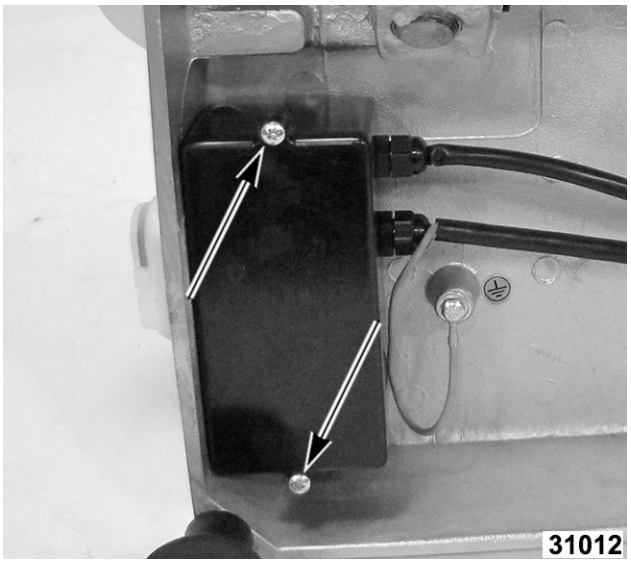

Fig. 15

6. Press the release tab (1, Fig. 16) away from you.

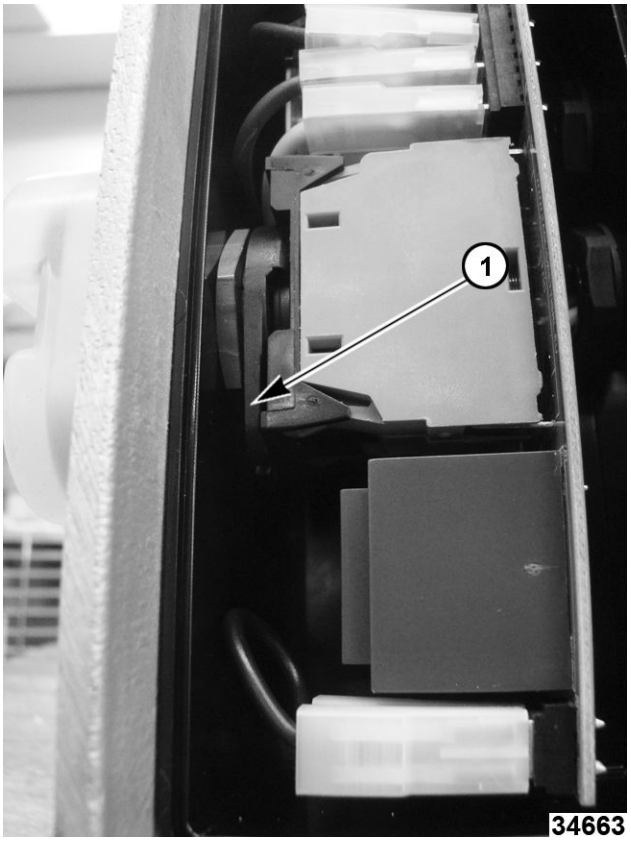

Fig. 16

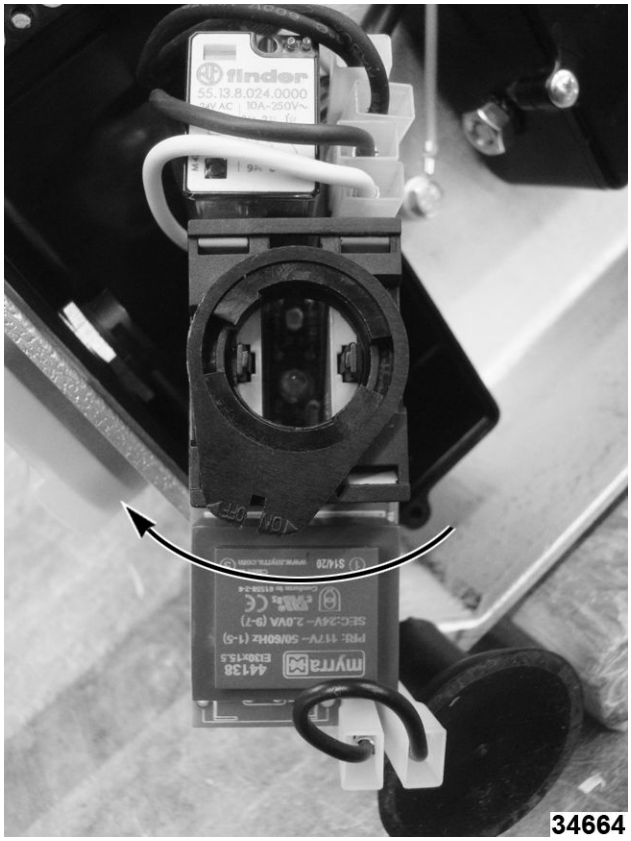

Fig. 17

7. Pull the control board assembly away from the housing and remove the assembly.
8. Remove the switch by unscrewing the housing nut.

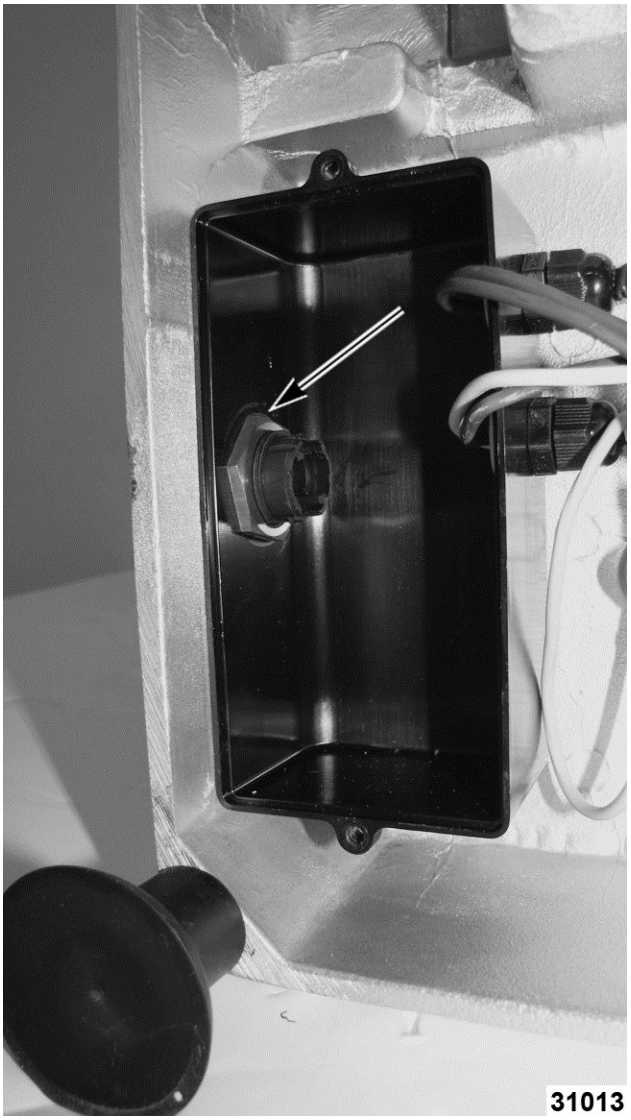

Fig. 18

9. Reverse procedure to replace.
10. Check for proper operation.

KNIFE MOTOR (B9 & B10)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Knife Motor Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.

5. Remove the CARRIAGE ASSEMBLY bar.

NOTE: Place a shop rag between the carriage assembly and slicer base to protect the finish.

6. Disconnect the capacitor and motor leads.
7. Loosen the stop screw (1, Fig. 19) and jam nut.

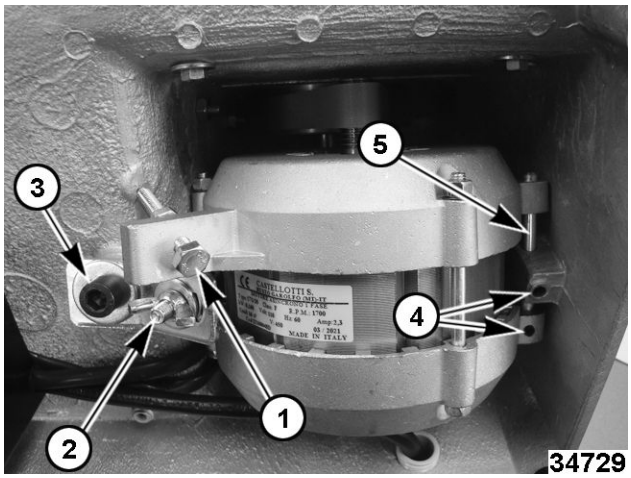

Fig. 19

8. Remove the tensioning wing nut and washers (2, Fig. 19) and loosen the tensioning jam nut (not visible in photo).
9. Remove the tensioning bracket screw and washer (3, Fig. 19) and remove the tensioning bracket.
10. Loosen both pivot pin set screws (4, Fig. 19).
11. Remove the pivot pin (5, Fig. 19).
12. Remove the knife motor.

Knife Motor Installation

1. Properly position the motor with the drive belt around the motor shaft.

NOTE: The knife motor shaft should show one thread above the v-belt.

2. Install the pivot pin (5, Fig. 19).
3. Rotate the knife to properly align the belt on the motor shaft and knife bearing.
4. Install the tensioning bracket with its screw and washer (3, Fig. 19).
5. Install the tensioning wing nut and washers (2, Fig. 19).
6. Reconnect the motor lead wires to the capacitor and switch.
7. Perform KNIFE MOTOR BELT TENSIONING (B9 & B10).
8. Check for proper operation.

KNIFE MOTOR (B12 & B14)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Knife Motor Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the CARRIAGE ASSEMBLY bar.

NOTE: Place a shop rag between the carriage assembly and slicer base to protect the finish.

6. Disconnect the CAPACITOR leads.
7. Disconnect the motor leads (1, Fig. 20) from the ON / OFF SWITCH ASSEMBLY (B12 & B14).

Fig. 20

8. Remove the plastic terminal caps from these leads by inserting a thin, flat blade screwdriver (or similar) into the cap and lifting up on the tab.

Fig. 21

9. Loosen the motor lead strain relief.
10. Loosen the jam nut (1, Fig. 22) and thread the stop screw (2) into the motor housing.

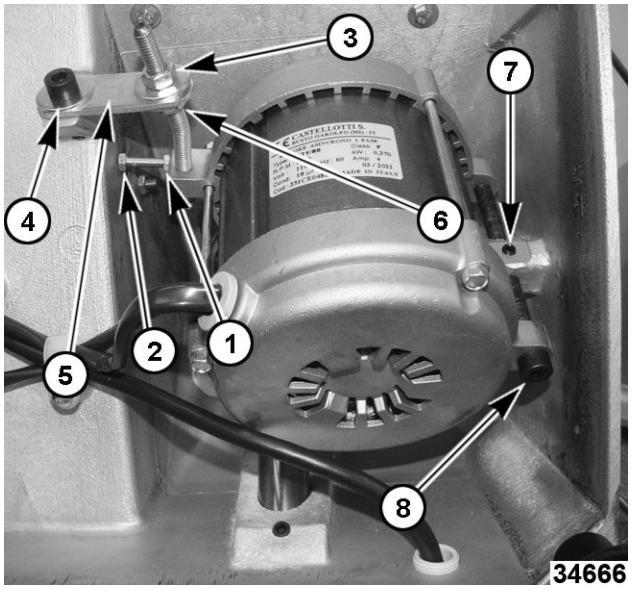

Fig. 22

11. Remove the nut (3, Fig. 22), screw and washers (4) and tensioner bracket (5).

NOTE: Threaded rod is bent by design.

12. Loosen the jam nut (6, Fig. 22).
13. Loosen the set screw (7, Fig. 22).
14. Remove the pivot pin (8, Fig. 22).
15. Remove the knife motor.

NOTE: When installing the new knife motor, remove components from the old motor and install them on the replacement motor. Mark the threads for properly installing components on new motor.

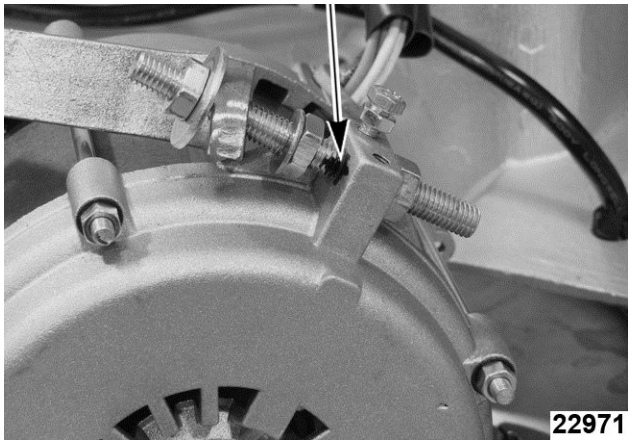

Fig. 23

Knife Motor Installation

1. Properly position the motor with the drive belt around the motor shaft.

NOTE: The knife motor shaft should show one thread above the v-belt.

2. Install the pivot pin (8, Fig. 22).
3. Rotate the knife to properly align the belt on the motor shaft and knife bearing.

NOTE: Verify approximately 1/8" gap between the knife motor and knife bearing assembly.

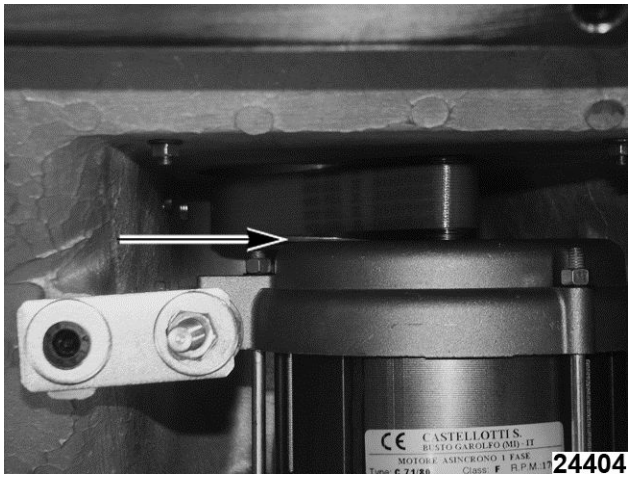

Fig. 24

4. Install the tensioning bracket (5, Fig. 22) and screw and washers (4).
5. Thread the motor lead wires through the strain relief and replace the plastic terminal caps.
6. Reconnect the motor lead wires to the capacitor and switch.
7. Perform KNIFE MOTOR BELT TENSIONING (B12 & B14).
8. Check for proper operation.

KNIFE MOTOR BELT

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Knife Motor Belt Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Place the slicer in the service position.
6. Remove the CARRIAGE ASSEMBLY.
7. Remove the KNIFE MOTOR (B12 & B14).
8. Mark the shaft and housing for height and rotational alignment (1, Fig. 25).

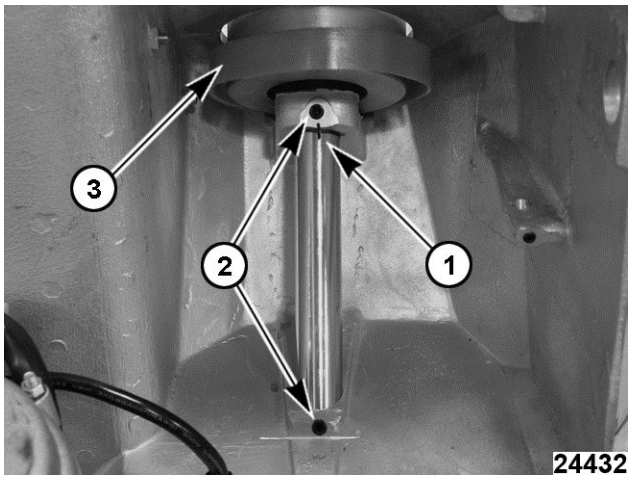

Fig. 25

9. Loosen the set screws (2, Fig. 25).
10. Lift the knife bearing assembly with rubber ring and remove the drive belt (3, Fig. 25).

Knife Motor Belt Installation

1. Install the belt around the knife shaft.
2. Insert the shaft through the housing.
3. Set the knife shaft to the proper height and alignment using the mark (1, Fig. 25) on the shaft and housing.
4. Tighten the set screws (2, Fig. 25).
5. Replace the KNIFE MOTOR (B12 & B14).
6. Perform KNIFE MOTOR BELT TENSIONING (B12 & B14).
7. Replace the CARRIAGE ASSEMBLY.
8. Perform KNIFE ADJUSTMENT.
9. Reassemble in reverse order.
10. Check for proper operation.

KNIFE PULLEY ASSEMBLY

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Knife Pulley Assembly Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Mark the knife height on the inside of the ring guard.

NOTE: Knife should be approximately 1/8" (.125) below the ring guard.

Fig. 26

5. Remove the KNIFE.
6. Place the slicer in the service position.

7. Remove the KNIFE MOTOR (B12 & B14).
8. If reusing the shaft, mark the housing and shaft (1, Fig. 27).
9. Loosen set screws (2, Fig. 27) securing the knife pulley assembly.

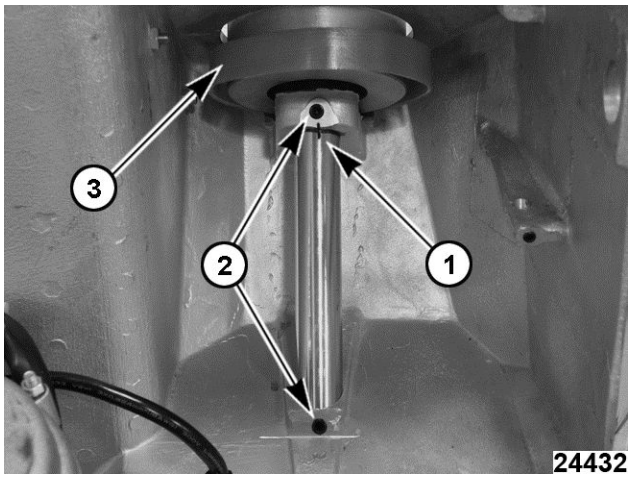

Fig. 27

10. Remove the knife pulley assembly (2, Fig. 28) and rubber seal.

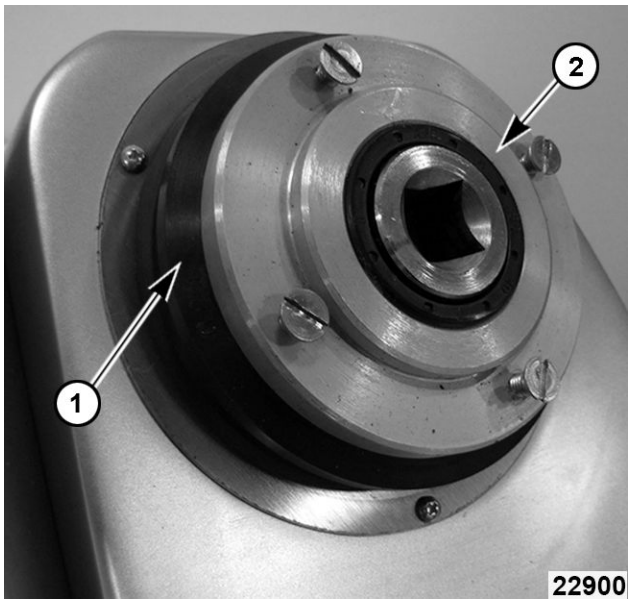

Fig. 28

Knife Pulley Assembly Replacement

1. Install the knife pulley assembly into slicer with drive belt around knife shaft.
2. Snug the set screws (2, Fig. 27).
3. Reinstall the knife.
4. Preform KNIFE ADJUSTMENT.
5. Reinstall the KNIFE MOTOR (B12 & B14) and KNIFE MOTOR BELT.
6. Reassemble in reverse order.
7. Check for proper operation.

INDEX MECHANISM (B9 & B10)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Index Mechanism Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Remove the GAUGE PLATE.

NOTE: Technician may choose to remove carriage transport bar.

6. Loosen the two gauge plate support pin set screws (1, Fig. 29).

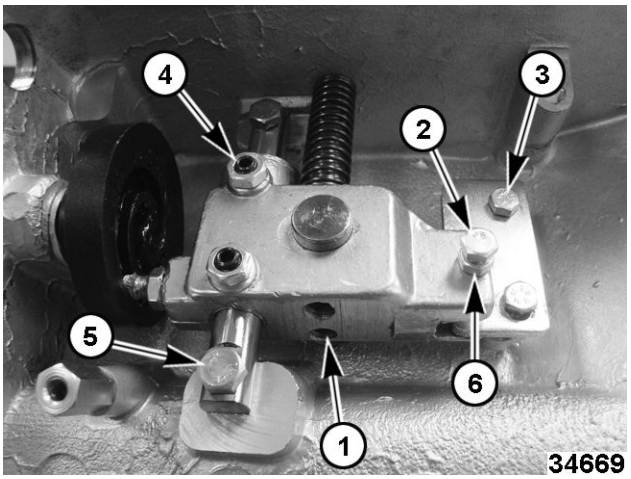

Fig. 29

7. Remove the gauge plate support pin.
8. Loosen the anti-rotation locknut and screw (2, Fig. 29).
9. Remove the anti-rotation plate screws (3, Fig. 29) and the anti-rotation plate.
10. Loosen the index support lock nuts and set screws (4, Fig. 29).

NOTICE

The index support pin is under spring tension.

11. Remove the index support pin by removing the two screws (5, Fig. 29).

12. Remove index support and spring.
13. Reverse the procedure to replace.
14. Perform INDEX MECHANISM ADJUSTMENT (B9 & B10).
15. Perform GAUGE PLATE ADJUSTMENT.
16. Check for proper operation.

INDEX MECHANISM (B12 & B14)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

Index Mechanism Removal

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Remove the GAUGE PLATE.
6. Loosen 4 gauge plate support pin set screws (1, 2 Fig. 30).

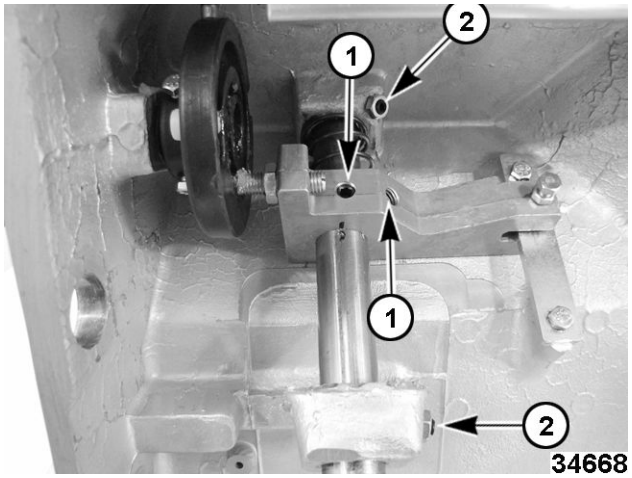

Fig. 30

7. Remove the gauge plate support pin.
8. Remove screws (1, Fig. 31).
9. Remove the plate (2, Fig. 31).

NOTE: Technician may choose to remove carriage transport bar.

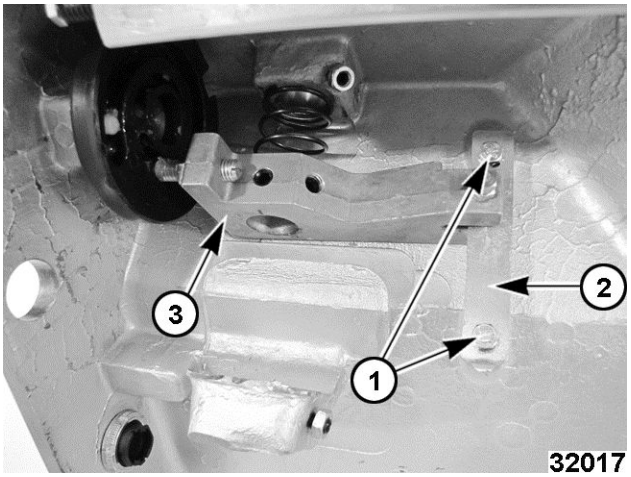

Fig. 31

10. Remove index support (3, Fig. 31).
11. Reverse the procedure to replace.
12. Perform INDEX MECHANISM ADJUSTMENT (B12 & B14).
13. Perform GAUGE PLATE ADJUSTMENT.
14. Check for proper operation.

INDEX CAM AND KNOB

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Remove the KNIFE.
5. Place the slicer in the Service Position.
6. Loosen the jam nut (4, Fig. 32).

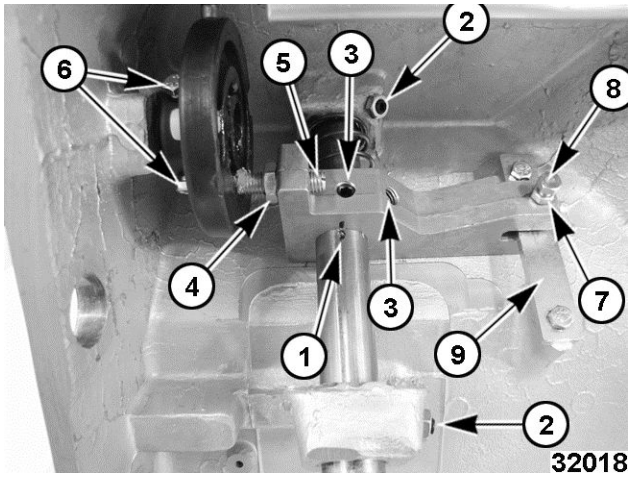

Fig. 32

7. Back out the cam pin (5, Fig. 32).
8. Loosen the cam assembly set screws (6, Fig. 32).
9. Remove the graduated index knob.
10. Remove the cam assembly.
11. Reverse the procedure to replace.
12. Perform INDEX KNOB ADJUSTMENT.
13. Check for proper operation.

SERVICE PROCEDURES & ADJUSTMENTS

SHARPENING

⚠ WARNING

The slicer knife is very sharp. Exercise extreme caution when working near the knife.

NOTE: Sharpen only when necessary; prolonged or too frequent sharpening results in unnecessary knife wear.

NOTE: Slicer knife must be sharp to produce thin cuts of product without shredding, tearing or creating undesirable chunks. A used knife may require 15 seconds of sharpening before a sharp edge is achieved.

Knife Sharpening

1. Turn the index knob fully counterclockwise (CCW) to close the gauge plate.
2. Thoroughly wash the area around knife, exposed knife surfaces, and knife edge.

NOTICE

Grease should not be allowed to transfer from the knife to the sharpener.

3. Draw 4 marks on the back the sharpened edge of the knife 90 degrees apart.

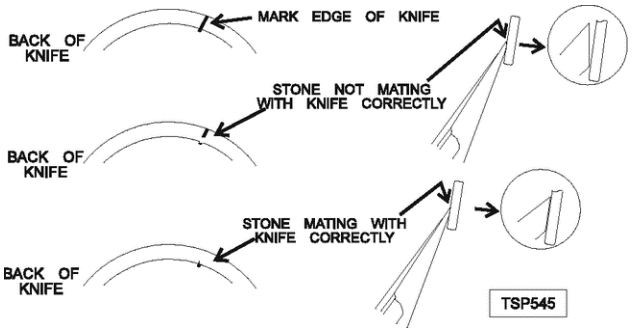

Fig. 33

4. Loosen the sharpener locking knob, raise and rotate the sharpener so that the stones straddle the knife.
5. Tighten the sharpener locking knob to hold the sharpener in place.
6. Plug in the power cord and start the slicer.
7. Press the sharpening stone push-button to bring the stone against the knife and hold it for 5-10 seconds and release.
8. Press the deburring stone push-button to bring the stone against the knife and hold it for 2-3 seconds and release.
9. Turn the slicer off.
10. If the marks are visible on the back of the knife, re-sharpen and check again.

NOTICE

If the marks are still only partially being removed, the sharpener may be faulty.

11. Unplug the power cord.
12. Wipe the slicer with a clean damp cloth to remove any grinding particles.
13. Install the top knife cover.

GAUGE PLATE ADJUSTMENT

⚠ WARNING

The slicer knife is very sharp. Exercise extreme caution when working near the knife.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Adjust gauge plate-to-knife gap:
   A. Loosen the gauge plate bolts (1, Fig. 34) and slide gauge plate (2, Fig. 34) into position.

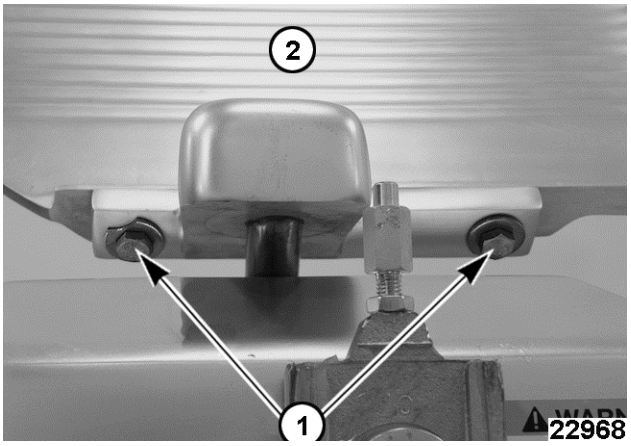

Fig. 34

NOTE: The gauge plate-to-knife gap should be no more than 1/16" (1, Fig. 35) at the center of the gauge plate. As the knife wears, the gap at the top and bottom of the gauge plate will increase. At most,

maintain a 1/16" gap at the center and an even gap at the top and bottom. Once a 1/16" gap can no longer be maintained at the center of the gauge plate, replace the knife.

Fig. 35

B. Tighten the gauge plate bolts.

5. Adjust gauge plate-to-knife angle:

   A. Turn the index knob until the gauge plate is level with the knife.

   B. Verify the three contact points (1, Fig. 36) are equally level at the gauge plate.

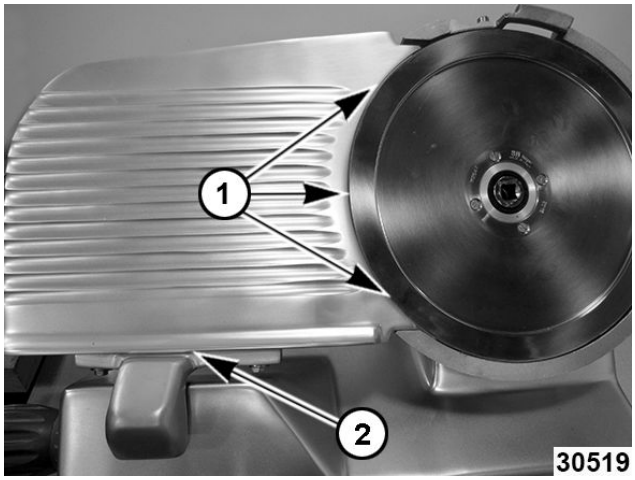

Fig. 36

C. Shim the gauge plate support (2, Fig. 36) as necessary to achieve this angle.

CARRIAGE ADJUSTMENT

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Tighten or loosen the carriage adjustment screw (1, Fig. 37) in or out to achieve smooth travel.

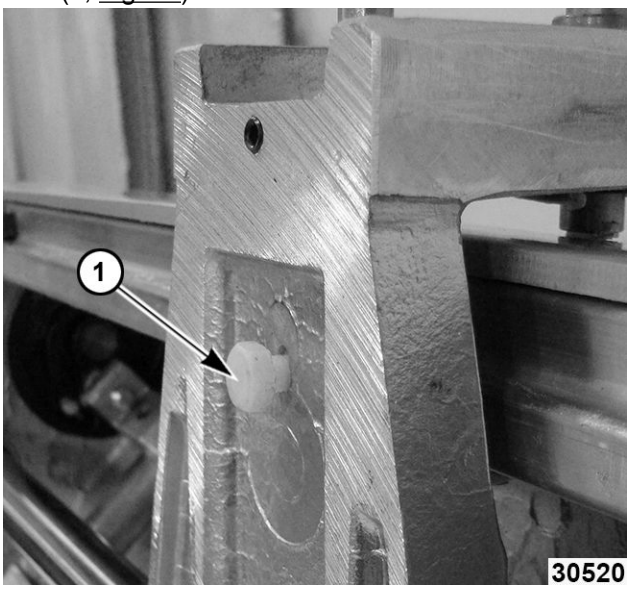

Fig. 37

NOTICE

Allow minimal clearance between the carriage adjustment screw and the square bar (1, Fig. 38).

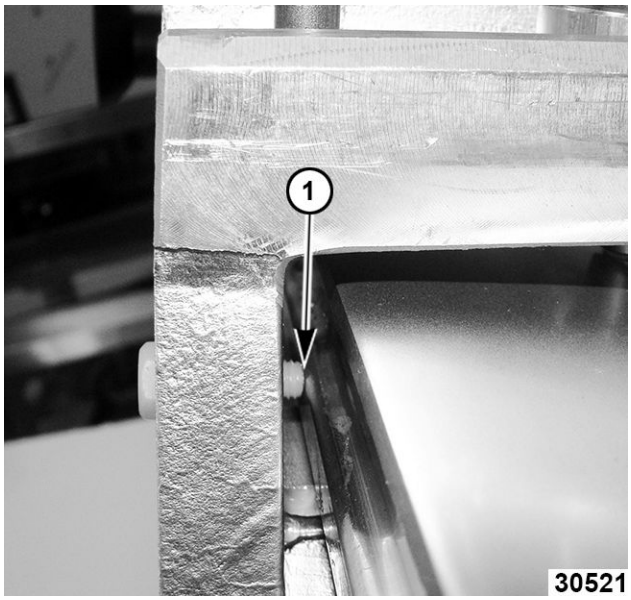

Fig. 38

6. Reassemble in reverse order.
7. Check for proper operation.

INDEX KNOB ADJUSTMENT

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Set the gauge plate level with the knife.
5. Place the slicer in the service position.
6. Loosen the cam assembly set screws (6, Fig. 39).

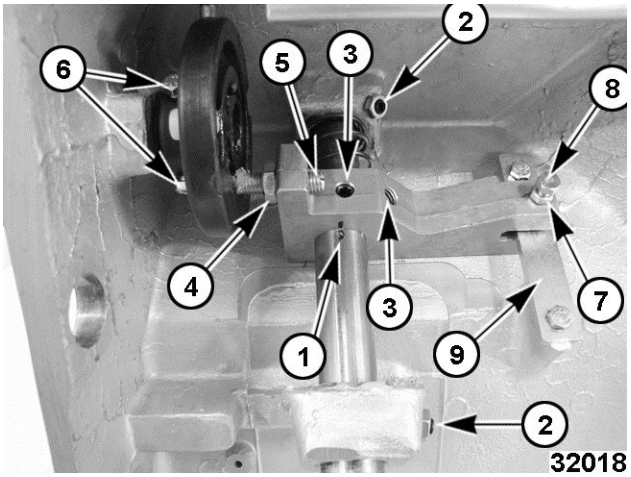

Fig. 39

7. Rotate the index knob to the "zero" position.

NOTE: Gauge plate should not move.

8. Tighten the cam assembly set screws (6, Fig. 39).

INDEX MECHANISM ADJUSTMENT (B9 & B10)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

NOTE: The anti-rotation plug bearing and set screw should both contact anti-rotation plate without binding during travel of the index slide mechanism.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the CARRIAGE ASSEMBLY bar.
6. Loosen the index adjustment jam nut (6, Fig. 40).

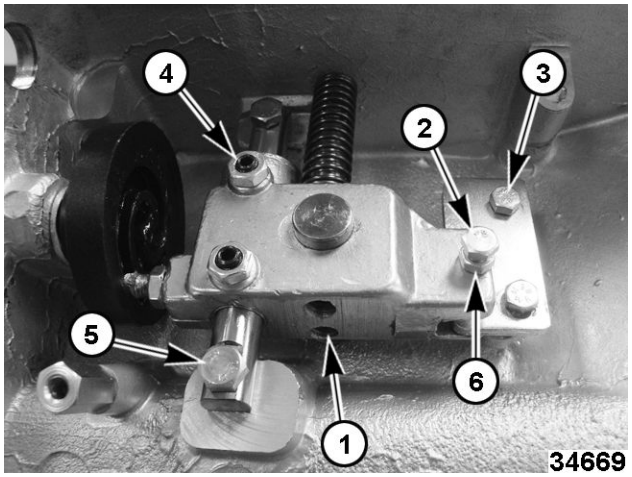

Fig. 40

7. Adjust screw (2, Fig. 40).

   For a Loose Index
   - Turn the screw CW to remove slop in the gauge plate.

   For a Tight Index
   - Turn the screw CCW to loosen a binding gauge plate.

8. Lubricate the plate if needed.
9. Tighten the jam nut.
10. Verify support pin bushings are adjusted properly.

    A. Adjust the set screw (4, Fig. 40) tight enough that the index mechanism does not float inside the index cam, but loose enough that it does not bind in the slicer housing.

11. Reassemble in reverse order.
12. Verify proper operation.

INDEX MECHANISM ADJUSTMENT (B12 & B14)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

NOTE: The anti-rotation plug bearing and set screw should both contact anti-rotation plate without binding during travel of the index slide mechanism.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the CARRIAGE ASSEMBLY bar.
6. Loosen the jam nut (7, Fig. 41).

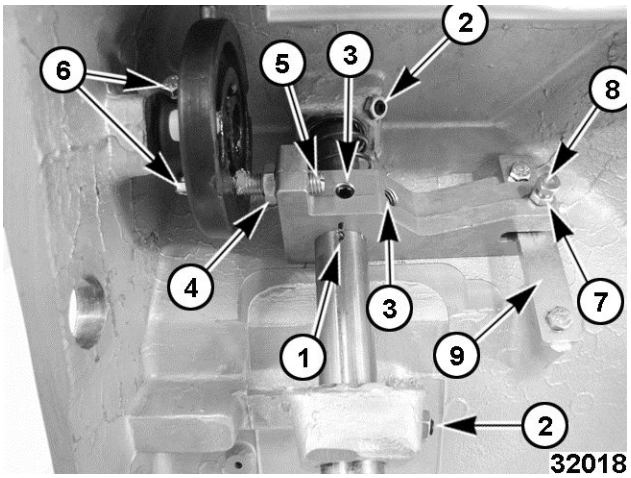

Fig. 41

7. Adjust screw (8, Fig. 41).

   For a Loose Index
   - Turn the screw CW to remove slop in the gauge plate.

   For a Tight Index
   - Turn the screw CCW to loosen a binding gauge plate.

8. Lubricate plate (9, Fig. 41) if needed.
9. Tighten the jam nut (7, Fig. 41).
10. Verify support pin bushings are adjusted properly.

    A. Adjust the set screw (2, Fig. 41) tight enough that the index mechanism does not float inside the index cam, but loose enough that it does not bind in the slicer housing.

11. Reassemble in reverse order.
12. Verify proper operation.

KNIFE MOTOR BELT TENSIONING (B9 & B10)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.

4. Place the slicer in the service position.
5. Loosen the jam nut and thread out the stop screw (1, Fig. 42) away from the slicer housing.

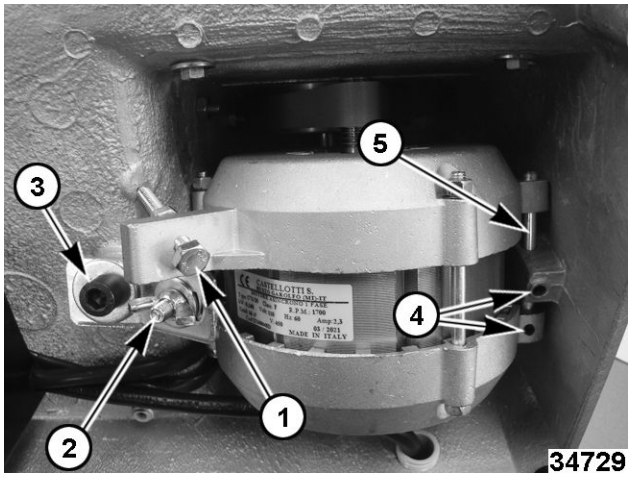

Fig. 42

6. Loosen the pivot pin set screws (4, Fig. 42).
7. Loosen the tensioner jam nut (not visible in photo).
8. Turn the tensioning wing nut (2, Fig. 42) to adjust belt tension.
   A. Turn the nut clockwise to increase belt tension.
   B. Turn the nut counterclockwise to decrease belt tension.
9. Once proper tension is achieved, lock the tensioning jam nut against the tensioning bracket.
10. Turn the stop screw (1, Fig. 42) clockwise until it makes solid contact with the slicer base.
11. Tighten the stop screw lock nut.
12. Tighten the pivot pin set screws (4, Fig. 42).
13. Reassemble in reverse order.
14. Check for proper operation.

KNIFE MOTOR BELT TENSIONING (B12 & B14)

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Back off the stop screw jam nut (1, Fig. 43) and thread the stop screw (2) into the motor housing.

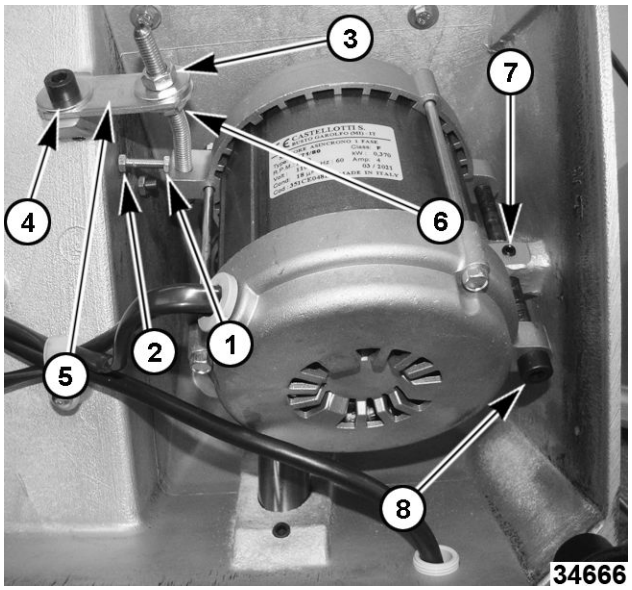

Fig. 43

6. Loosen the pivot pin set screw (7, Fig. 43).
7. Loosen the tensioner jam nut (6, Fig. 43).
8. Turn the top nut (3, Fig. 43) to adjust belt tension.
   A. Turn the nut clockwise to increase belt tension.
   B. Turn the nut counterclockwise to decrease belt tension.
9. Reassemble in reverse order.
10. Check for proper operation.

KNIFE ADJUSTMENT

⚠ WARNING

Disconnect the electrical power to the machine and follow lockout / tagout procedures.

1. Remove the sharpener.
2. Remove the PRODUCT TABLE.
3. Remove the KNIFE COVER.
4. Place the slicer in the service position.
5. Remove the KNIFE MOTOR (B12 & B14).
6. Loosen the knife pulley assembly set screws (2, Fig. 44).

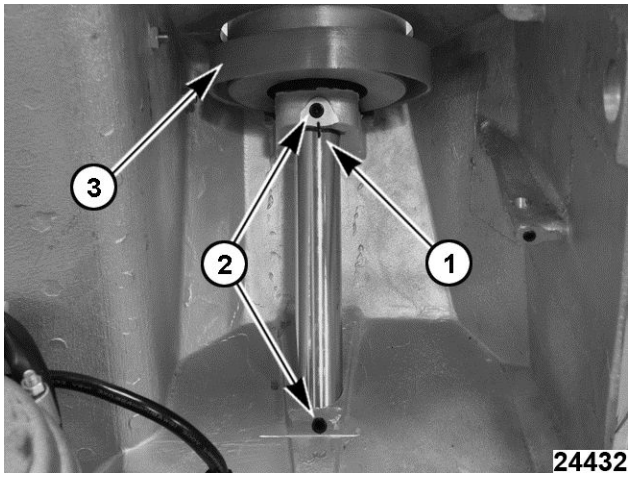

Fig. 44

7. Raise, lower, or turn the knife shaft to set the knife height to approximately 0.125" below the ring guard.

NOTE: Verify the knife is not exposed when the gauge plate is fully closed. Adjust the knife pulley assembly as necessary.

NOTE: Verify the knife cover mounting is aligned. Adjust the knife pulley assembly as necessary.

8. Tighten the knife pulley assembly set screws. (If present, use the marks on the ring guard from the knife pulley assembly removal.)
9. Reassemble in reverse order.
10. Verify the gauge plate is adjusted correctly; adjust as necessary per GAUGE PLATE ADJUSTMENT.
11. Perform KNIFE MOTOR BELT TENSIONING (B12 & B14).
12. Check for proper operation.

ELECTRICAL OPERATION

COMPONENT FUNCTION

Switch . . . . . Controls electrical power to the knife motor.

Knife Motor . . . . . Drives the slicer knife.

Capacitor . . . . . Starts the knife motor.

WIRING DIAGRAMS (B12 & B14)

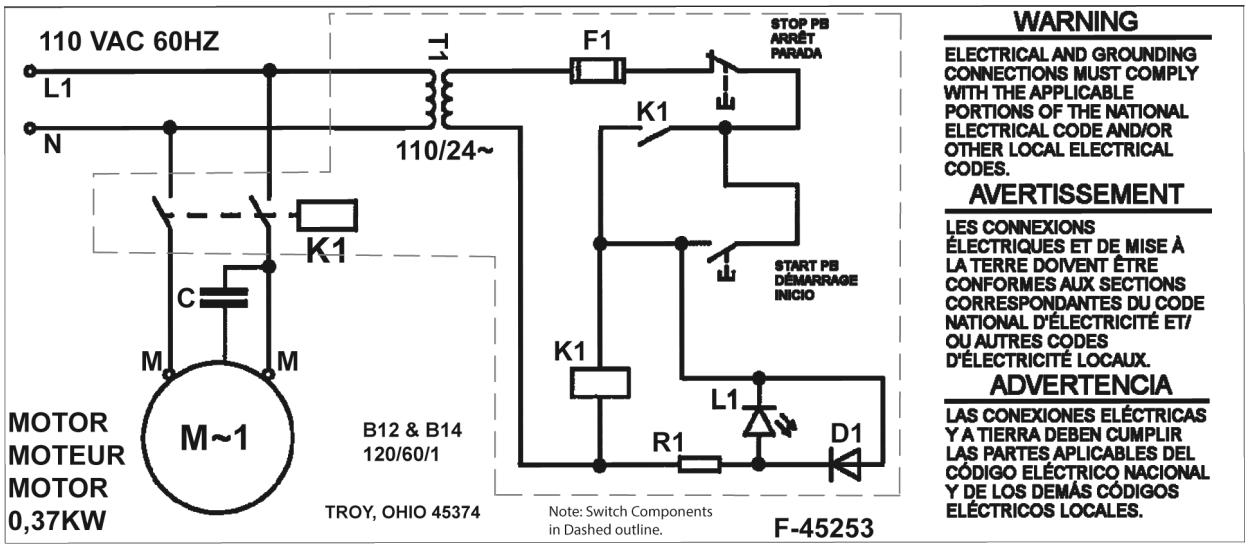

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Fig. 45

TROUBLESHOOTING

TABLE

SYMPTOM	POSSIBLE CAUSE
Knife motor will not start.	1. No power to slicer. 2. Start/stop switch malfunction. 3. Belt tension too tight. 4. Knife shaft boot needs lubricated or installed improperly. 5. Capacitor malfunction. 6. Motor malfunction.
Slicer will not shut off.	1. Start/stop switch malfunction.
Hard to slice.	1. Dull knife. 2. Worn bushing. 3. Adjustment screw binding on square rail. 4. Round rail not properly lubricated.
Wedge shaped slice.	1. Gauge plate not properly adjusted. 2. Product not stable in product table.
Noisy	1. Bearing malfunction. 2. Round rail not properly lubricated. 3. Motor malfunction. 4. Belt misaligned.
Knife motor is running, but knife not turning.	1. Knife belt malfunction. 2. Knife bearing assembly malfunction.
Knife is running or starting at less than rated RPM (slow).	1. Drive belt tension. 2. Motor malfunction. 3. Knife bearing assembly malfunction. 4. Knife shaft boot needs lubricated.
Carriage slide is not moving smoothly.	1. Perform CARRIAGE ADJUSTMENT.
Gauge plate knob is hard to turn.	1. Index mechanism bushings are adjusted too tight.
Knife cover is out of tolerance or ill-fitting.	1. Verify KNIFE ADJUSTMENT.