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## **Assembly Instruction, 442 to 442-2 safety guard, Burr King Model 482**

Follow these instructions to remove a 442-safety guard from a Burr King model 482-belt grinder\* and then to install a 442-2 safety guard. Please refer to the model 482 illustrated parts list schematic.

### Remove the 442 guard

1. Disconnect the machine from its electric power source.
2. Remove accumulated dust and debris.
3. Loosen and remove the abrasive belt.
4. Locate the upper and rear idler wheel (407). Locate the set screws (25) that secure these wheels in their supports. Note and record the distance from the inside face of the idler wheels to their respective supports (within 1/16 inch). Loosen the set screws, withdraw the idler wheels and retain for latter installation.
5. Locate and remove the four screws and nuts (7, 14) that secure the rear wheel tensioning assembly (445) to the machine frame (400). Retain this hardware.
6. Remove the 445 assembly. The 445 assembly includes 437, 434, and other items.
7. Locate and remove the four screws and nuts (9, 14) that secure the abrasive belt guard (442) to the machine frame (400). Retain this hardware.
8. Locate and remove the two nuts (3) that secure the v-belt guard (428). Remove and retain the nuts and guard.
9. Locate and remove the male door latch (942C-4). This part is secured by nut (3) on the opposite side of frame (400).
10. Locate and remove the screws (9) and nuts (14) that secure the 442 guard. Retain the hardware. Discard the 442 guard assembly.

### Install the 442-2 guard assembly.

11. Position the 442-2 guard assembly in the approximate position that was occupied by the 442 guard. Using screws and nuts removed in step 10, and the screw, spacer and nut provided with the 442 install the 442-2. Tighten the screws and nuts securely. Note that the screw and spacer install in the hole position for the old male latch.
12. One hole will need to be drilled to secure the guard to the frame (400). Using a 6" long 0.201 drill bit locate the hole on the guard (442-2). This hole will be located near to the bottom of the internal guard and door latch. If you do not have access to a long drill bit, using the hole mark the position of the hole and remove the guard (442-2) and drill the hole using a standard-length drill bit. Then reinstall the guard (442-2) as instructed in step 11 above.
13. Pass the aluminum knob (737A) of the 445 assembly through the slot in the 442-2 guard. Position the 445 assembly and reinstall using the screws removed in step 5. Securely tighten the hardware.
14. Reinstall the idler wheels (407) per the dimensions recorded in step 4. Securely tighten set screws (25). Note the access hole located on the guard under-face. Use this hole to access the upper idler wheel set screw.
15. Install door latch removed in step 9. If your machine uses the old style latch system and not the rubber grommet please contact Burr King and request part numbers - 942C-4, 4-0013, 742L1, 209, 5-0032.
16. Although the v-belt tension was not previously affected, take this opportunity to tension the v-belt properly. Loosen the four screws (2) so that the motor is free to slide. Tension the v-belt and secure the screws.
17. Reinstall the v-belt guard (428) and secure with the nuts and washers removed in step 8.
18. Install an abrasive belt and assure that the belt can be tensioned using the tensioning assembly (445) and that the belt tracks well. Do this by turning the wheels manually. If difficulty is encountered an error was made in a previous step. Locate and correct the error.
19. Reinstall the existing 405-1 workrest arm and 706-1 workrest on to the 701 bearing housing.
20. Install the new 403-1 contact wheel and 404-1 platen assembly on to the 701 bearing housing.
21. Reconnect the machine electrical source and test the machine. Nothing properly done in the previous sequence should adversely affect the performance of the machine. Should problems arise revisit previous steps.

**DO NOT OPERATE THE MACHINE IF IT DOES NOT PERFORM PROPERLY OR IF ANY PERCEIVED OPERATOR SAFETY CONDITION EXISTS**

# 498 GUARD UPGRADE KIT



403-1



404-1



442-1

**WARNING**  
Eye injury hazard.  
Wear eye protection.  
Keep hands and feet clear of moving parts.

**SAFETY**  
READ AND FOLLOW INSTRUCTIONS FOR USE.  
USE APPROPRIATE PPE (EYE, HAND,  
AND FOOT PROTECTION).  
DO NOT EXCEED DESIGN SPEED.  
DO NOT OPERATE WITH GUARD REMOVED.  
DO NOT OPERATE WITH GUARD PARTS  
LOOSELY ATTACHED TO THE MACHINE.  
FOLLOW ALL SAFETY INSTRUCTIONS  
POSTED IN THE WORK AREA.  
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EQUIP 498

**WARNING**  
Eye injury hazard.  
Stay clear.  
Flying objects and gas  
can cause injury.  
Wear appropriate  
PPE.  
Read and follow  
instructions before  
using machine.