

### General Information

Based on field experience with oversized fuels, a new feed shaft and motor bracket update has been developed. This update can be applied to 2004 and newer EasyFire pellet stoves with 2" feed disk systems.

### Feed shaft and motor support bushing change

This kit will allow for replacement of the feed shaft and disk as a welded assembly. Additionally, a new motor mount bracket with bushing is provided. Replacement of these items can be accomplished in approx. 45 minutes.

Arrange for access to the back of the stove and remove the upper access panel. Remove all pellets from hopper and vacuum saw dust prior to removing feed motor.

Kit includes:

Qty	P/N	Description
1	300505	Adjustable Disk - 3801
1	300506	Adjustable Disk - 5001
1	300536	2007 Feed Shaft Assy.V-2
3	130138	Thrust Washer
1	110524	Feed Shaft Bushing V-2
4	110518	Grommet
1	202291	2007 Motor bracket V-2

### Replacing feed motor shaft and disk assembly

- 1) Disconnect feed motor wires noting terminal for Red (+) and Black (-). Remove wing nuts holding feed motor bracket and slide out motor assembly.
- 2) Inspect shaft support bushing inside of hopper shoot for advance wear or damage. Check bushing size with 5/16 drill bit end (the end that is put into chuck). If this fits loose, replace bushing.
- 3) Using 1/8" allen wrench, loosen drive coupler and remove shaft and coupler. Remove (4) phillips screws attaching motor to base. Discard old parts and retain motor and screws.
- 4) Re-assembled motor to new bracket. Do not over tighten phillips screws which will cause the rubber grommets push out.
- 5) Install the new shaft and thrust washer. Do not tighten shaft. This will be accomplished after fitting.

### Installation of Feed Assembly

- 1) Install feed assembly into stove. Make certain no pellet fuel is obstructing the disk or motor.
- 2) Install and tighten wing nuts.
- 3) Check clearance between feed disk face and disk bushing. Clearance should be no more than .010. This can be check by doubling a paper twice (4 thickness). If clearance is greater add thrust washer to between motor bracket bushing and shaft.

*Note: If more than three washer are required, the bushing support is pushed out of place. Carefully bend support back into place with pry bar*

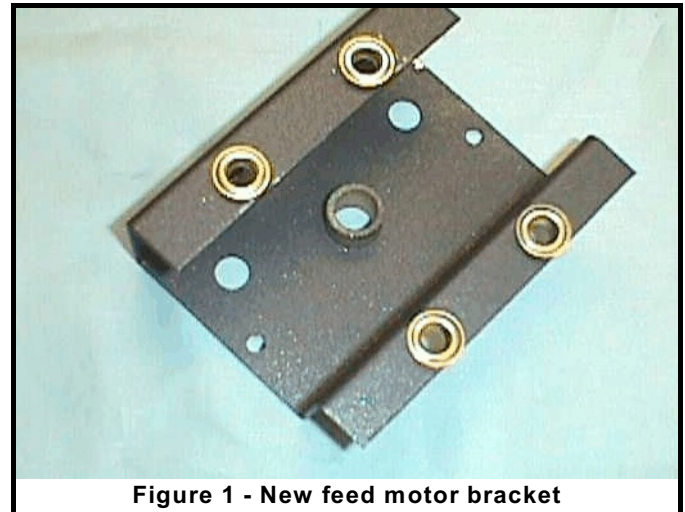


Figure 1 - New feed motor bracket

- 4) Re-install feed system into stove hopper and tighten and confirm proper clearance. Remove motor and tighten shaft to motor with 1/8 allen wrench.



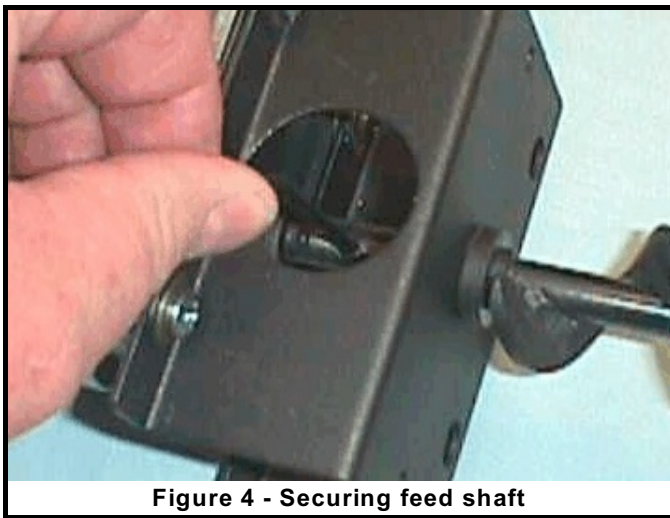
Figure 2 - Attaching motor

- 5) Check clearance of disk to bottom of feed shoot-min. .050". *If clearance is less, grind outside of disk.*

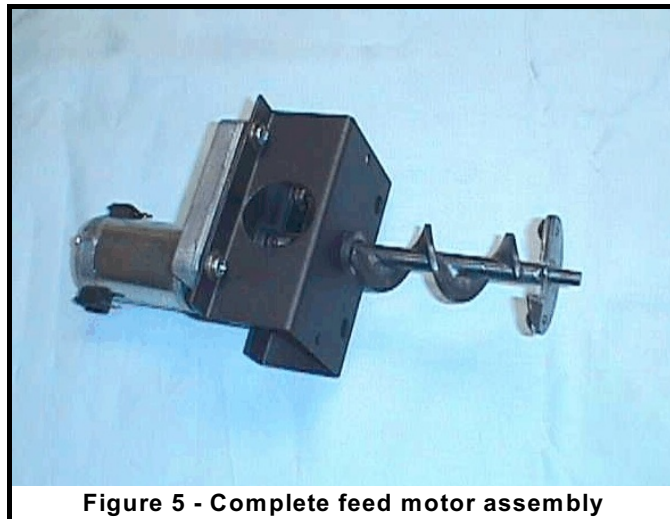


Figure 3 - Thrust washer placement

- 6) Install feed motor assembly with gasket. Tighten wing nuts.



**Figure 4 - Securing feed shaft**



**Figure 5 - Complete feed motor assembly**

#### Adjustable Feed Disk System

Your EasyFire Stove has a innovative adjustable feed disk system to allow for a wide range of pellet size and hardness. The feed disk has three positions small, standard, and large. If for proper operation the stove requires the trim to be fully clockwise (full feed) or fully counter-clockwise (slow feed) a disk adjustment may be needed to bring the trim into operating range.

#### Which way to adjust the feed disk

The feed disk may be adjust without removing the disk drive from the stove. However, the space is restricted and some may find it easier to remove the drive from the stove to make the adjustment.

As noted above, if the trim is operating on low side, the disk would be adjusted to the smaller opening. If the trim is adjusted to high side, the disk is opened to the large setting. If you find your stove has a disk setting other than the middle or standard, the adjustments process still applies (Dealers may know the pellet fuel in the area and may have adjusted the disk on delivery).

#### Adjusting the Disk in the Stove

- 1) Remove all pellets from hopper.
- 2) Turn stove to low and allow feed disk to turn until the allen screws are horizontal and accessible.
- 3) Remove one of the allen screws using a 3/32 allen wrench. Note the setting hole the screw is removed from (center hole is standard).
- 4) Remove other screw and re-position rear disk half either open or closed based on required trim setting.

- 5) Re-install allen screws with care taken to confirm washer has knurl out towards screw and threads are not crossed. Tighten screws carefully compressing the washer flat.



**Figure 6 - Adjustable disk**

#### Service Feed System or Replacing Feed Disk

If replacement of disk or components is required or removing feed system simplifies feed disk adjustment, complete the following:

- 1) Remove all fuel from hopper.
- 2) Remove upper rear stove access panel.
- 3) Unplug harness from feed motor (note the red wire to positive mark on motor).
- 4) Remove wing nuts from motor bracket. Pull motor and drive from hopper.
- 5) Remove feed disk from shaft using a 1/8" allen wrench. Loosen allen screw and slid disk off shaft.
- 6) Removing feed disk shaft from motor by loosening the 1/8" allen screws on shaft coupler.



**Figure 7 - Disk Adjusted to Large Opening**

#### Customer Service & Replacement Parts

Replacement parts are available from your local dealer or on-line @ [www.sierraproductsinc.net](http://www.sierraproductsinc.net) . Our call or write:

Customer Service  
 Sierra Products, Inc.  
 5061 Brooks St. Montclair, CA 91763  
 Phone 1-909-399-3355  
 Fax 1-909-399-3357  
[www.sierraproductsinc.net](http://www.sierraproductsinc.net)

