STOVE TEAR DOWN 264 CCL

Griddle and Probe Thermometer Removal

Using a thin bladed screwdriver, lift up the cook-top (700-0711) with the probe thermometer (700-0TH3) in place and set aside. Use some caution to protect the probe stem.

Combustor, Chamber, Baffle and Air Tubes

If necessary, remove the catalytic combustor (700-B566) with Interam gasketing (120-3539). Remove the four ¼ - 20 x 1" bolts (120-1326) – one in each corner of the chamber (700-0274). Hold the baffle (700-0276) from underneath while removing the 4th bolt. Remove the baffle and air tubes (700-G200), and lift out the combustor chamber.

By-pass Gate and Components

All parts pertaining to the by-pass gate (700-0512) can be removed through the flue collar or cook-top openings. However, if a total tear down is necessary, removal of the top will make the job easier. The flue collar (700-0281) should be removed first. This is done by removing the two bolts (120-2089) in the flue collar. There is no gasketing in the flue collar, but it is cemented. It might be necessary to gently tap the base of the collar with a rubber dead blow hammer, or a block of wood and a hammer.

1. Remove the ¼ - 20 x ½" bolt (120-1345) holding the by-pass clip (160-1036) to the by-pass gate (700-0877).

2. Remove two ¼ - 20 x ¾" bolts (120-1374) on each by-pass gate side support (700-0514). The by-pass gate can now be lifted up, turned 90 degrees and removed.

**NOTE: Use a 7/16" wrench or socket on the ¼" bolts.*

3. To remove the by-pass gate connector (700-0523) from the by-pass clip, you will need at least one and possibly two 9/16" wrenches. Place the 1st 9/16" wrench on the first nut and remove. If the bolt also turns, place the 2nd wrench on the bolt head to prevent its movement. Continue to remove the 1st nut and repeat the procedure with the second nut. With both nuts removed, the bolt can be pushed out and the connector removed.

4. To remove the gate crank, try working the pin (120-1836) between the crank and the rod out with vise-grips. Additional leverage can be gained by wedging a screwdriver between the vise-grips and the crank. If the pin cannot be removed this way, disconnect the by-pass clip. Rotate the operating rod until the bottom of the pin can be pushed out with a punch and hammer through the pin collar opening. Once the pin is removed, the gate rod (700-G101) can be threaded out of the side of the stove. The crank can be then removed for replacement or modification.

Internal Parts (Grates)

With all of the coal burning parts removed, take out the grate back (700-0362) and the side half walls (700-0029)that are each held in place by two ¼ - 20 x ¾" bolts (120-1374) and washers (120-2470). Lift the grate frame (700-0352) and remove through the side load door. The fixed centre grate (700-0356) will lift out. To remove the shaker grates (700-0357) back off the set screw on the shaker grate caps (700-00G2) using the 3 mm Allen wrench. Thread the caps off the shaker grate shafts. The grates can now be pulled through the side and lifted out of the stove.

Breaking down the Case

The stove is broken down in the following order: top, front, left side, inner top, inner back, inner bottom, right side, back, side and rear partitions and bottom. Remove all doors before proceeding.

Top

To take off the top (700-0706), remove the four ¼ - 20 x 7/8" bolts (120-1374) and washers (120-2469). They are located on the underside of the top of at the corners. Going through the griddle opening, there is a stud (120-4214) holding the top to the front. It has a ¼" nut (120-3210) on it which must be loosened to the end of the threads before attempting to lift off the top. Again, the top is cemented in place and will probably need a rubber dead blow hammer or a block of wood and hammer to break the seal. With the cement seal broken, the top can now be removed by grabbing the top on both sides towards the back, lifting it up slightly and sliding it backwards to clear the stud. Put aside the top.

Front

To detach the front (700-0703), remove the nuts (120-3210) and washers (120-2470) from the two ¼ - 20 x 1½" studs (120-4214) located on the inside corners of the stove about 2" below the inner top. Remove the air inlet plates and remove the two ¼ - 20 x 1½" Phillips head bolts (120-0815) that pass through the bottom of the stove. With your hammer or wood block, break the cement seal of the front from the sides and the bottom. Then remove the front.

Left Side

Remove the ¼ - 2 x 1½" bolt (120-4214) located at the bottom connecting the left side to the back. This bolt can be loosened through the top of the stove by using a long extension and a 7/16" socket. As an alternative, you might be able to reach through the convection passages on either side of the ash pan cavity with a short wrench. Also, you must remove the ¼ - 20 x 1½" stud (120-4214) at the corner above the inner top. Loosen the cement seals and remove the side.

Inner Top, Inner Back and Inner Bottom

The inner top, inner back and inner bottom can be removed by breaking the cement seal with your hammer or wood block.

Right Side

Remove the bolts in the upper and lower corners as described in the left side section and remove the right side.

Back

With the right side removed, the back (700-0701) must be supported. Remove the two ¼ - 20 x 1¼" bolts (120-1378) and washers (120-2470) which hold the back to the bottom. The bottom is drilled and tapped for these. Now the back can be removed.

Side and Rear Partitions

The side partitions and rear partitions are bolted with ¼ - 20 x ¾" bolts (120-1374) and washers (120-2469) to the bottom (700-0708).

ASSEMBLY INSTRUCTIONS 264 CCL

1. Set the bottom on your workbench. Cement the area for partitions and set in place. Secure it with ¼" bolts (¾" 1g) and washers (¾ OD). Also, cement the rest of the bottom for the back and the ends.

2. Place the back on your workbench, apply two ¼ - 20 studs (1½" 1g) and cement. Now set the back into place on the bottom and secure it with ¼" bolts (1½" 1g) and washers (¾ OD). Tighten only until the back is perpendicular to the bottom.

3. Cement the inner bottom and set into place.

4. Set the inner back in place on the inner bottom.

5. Cement the right end and put in place, loosely attach it to the stud on the back with ¼: nuts and washers (7/8 OD).

6. Place the inner top into the stove.

7. Cement the left end. Now apply the left end to the stove and secure it with ¼" nuts and washers (7/8 OD). Now tighten the nuts for the left and right ends.

8. Cement the gasket groove on the load door and apply 7/16" gasket.

9. Cement the inner top channel and set it over the air tube and secure it with ¼" bolt (2" 1g).

10. Cement both sides of the air tube and place it into the inner top.

11. Cement the area for the combustion chamber and set it in place.

12. hold the baffle in place (the small holes towards the inner top channel) and apply four ¼" bolt (1" 1g) with ¾ OD washer through the combustion chamber, the inner top, the air tube and thread into the baffle plate. Tighten all bolts once they are started.

13. Put the rocker grates through the left end from the inside. Apply the rocker grate caps and secure with an Allen wrench. Now seat them into place.

    **NOTE: Make sure the grates move freely and that the caps seal to the end.*

14. Set the fixed grate into plate.

15. Set the grate frame over the grates and seat it in place.

16. Place the grate back in position and secure it with ¼" bolts (¾" 1g) with ¾ OD washers.

17. Place the half wall in position and secure it with ¼" bolts (5/8" 1g).

18. Place the rocker cover over the rocker grate. Put the screw down through the cover and grate. Apply a fender washer over the screw and secure all with a wing nut.

19. Place the door panels on the door and secure with ¼" bolts (½" 1g).

20. Put two ¼" studs into the front and cement.

21. Install the front to the stove and secure it to the ends with ¼" nuts and 7/8 OD washers on the studs.

22. Attach the front to the bottom with 1¾" 1g ¼" screws with 7/8 OD washers and ¼" nuts.

23. Tighten nuts to the ends, and then tighten screws to the bottom.

24. Cement the gasket grooves on the front door and ash door. Then apply the gasket to each.

25. Apply the inlet plates to the bottom openings on the front and secure with ¼" bolts (5/8" 1g).

26. Apply one fan plate to the right and secure it with 10-24 bolts ½" 1g.

27. Apply one fan plate to the rear using 10-24 bolts ½" 1g.

28. Apply four ¼" bolts (5/8" 1g) to the four blank holes on the back plate.

29. Cement and apply the gasket to the by-pass opening.

30. Apply the clip to the by-pass gate with a ¼" bolt (½" 1g). Set the by-pass gate into position.

31. Apply the by-pass supports over the gate and start the ¼" bolts (¾"1g).

32. Fit the by-pass crank into the stove over the by-pass gate.

33. Insert the by-pass rod through the load end and through the inner top to enter the hollow end of the by-pass crank. Thread it in so that the pin hole aligns in the rod and crank, and then drive the hinge pin in all the way.

34. Align the connector on the crank to position it on the by-pass gate. Swing the clip over the connector and tighten the bolt.

35. Tighten the support bolts (¾" 1g).

36. Check the operation of the gate for ease of lock over and non-binding.

37. Place the top on your workbench. Thread one ¼" stud (1½" 1g) in the hole located in the middle of the front edge of the top plate and next cement the grooves in the top plate. Put 7/8" OD washer over the stud and start a ¼" nut.

38. Place the top on the stove aligning the stud, with nut and washer, to clevis on the front and start four ¼" – 20 x 7/8" bolts (these bolts have a 10 mm head) with 7/8" OD washer for top to the side connectors. Start two ¼" – 20 x 7/8" bolts (these bolts have a 10 mm head) into the blank holes on the top plate.

39. Apply one ¼ - 20 x 7/8" (10 mm) to each end in the blank hole.

40. Adjust the top for an even fit and tighten all bolts then tighten the nut on the stud, through the cook-top opening.

41. Scrape away excess cement in the top openings on the front and apply the outlet screens.

42. Cement the gasket groove for the cook-top and apply the gasket. The cook-top can now be pt on the stove.