

Owner's Manual

Installation and Appliance Setup - Care and Operation

INSTALLER: Leave this manual with party responsible for use and operation.

OWNER: Retain this manual for future reference.

Call your dealer for questions on Installation, Operation, or Service.

NOTICE: SAVE THESE INSTRUCTIONS

HARMAN®

BUILT TO A STANDARD, NOT A PRICE

Model(s):

Oakleaf Wood Stove



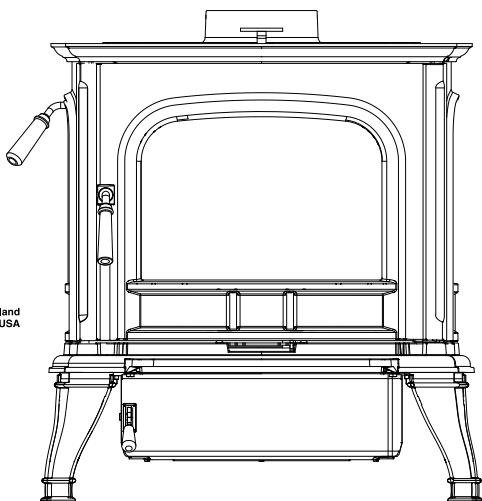
Wood Stove
Use & Care Video

Tested &
Listed By
COTL
US
OMNI-Test Laboratories, Inc.

Portland
Oregon USA



We suggest that our
hearth products be
installed and serviced by
professionals who are
certified in the U.S. by
the National Fireplace
Institute (NFI) as NFI
Specialists.



CAUTION

Tested and approved for use with dry, seasoned cordwood only. Do Not Burn Wet or Green Wood. Burning any other type of fuel will void your warranty.



CAUTION

Check building codes prior to installation.

- Installation **MUST** comply with local, regional, state and national codes and regulations.
- Contact local building or fire officials about restrictions and installation inspection requirements in your area.



WARNING



Please read this entire manual before installation and use of this wood-burning room heater.

Failure to follow these instructions could result in property damage, bodily injury or even death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Do not overfire - If any external part starts to glow, you are overfiring. Close air controls. Overfiring will void your warranty.
- Comply with all minimum clearances to combustibles as specified. Failure to comply may cause a house fire.



WARNING



HOT SURFACES!

Glass and other surfaces are hot during operation and cool down.

Hot glass will cause burns.

- Do not touch glass until it is cooled
 - **NEVER** allow children to touch glass
 - Keep children away
 - **CAREFULLY SUPERVISE** children in same room as stove.
 - Alert children and adults to hazards of high temperatures.
- High temperatures may ignite clothing or other flammable materials.**
- Keep clothing, furniture, draperies and other flammable materials away.

NOTICE

To obtain a French translation of this manual, please contact your dealer or visit www.harmanstoves.com.

Pour obtenir une traduction française de ce manuel, s'il vous plaît contacter votre revendeur ou visitez www.harmanstoves.com.

Hearth & Home Technologies welcomes you to our tradition of excellence! By choosing a Harman appliance, you have become part of our commitment to meeting the heating needs of consumers with the most distinctive, powerful and responsible home heating products available.

The Oakleaf has huge features in an elegantly small package, The Oakleaf takes advantage of Harman's 30+ years of stove design, technology and manufacturing. The Firedome secondary combustion system provides for super-clean burning and minimal maintenance. The top-loading feature makes for more convenient loading, with enough fuel for an all day burn.


We wish you and your family many years of enjoyment in the warmth and comfort of your hearth appliance.

Thank you for choosing Harman.

This Label is located on the rear of the appliance. It contains important safety test information as well as the clearances to combustible materials. The label also contains the appliance serial number. For your records, copy your serial number and purchase date here.

Serial #: _____

Date of Purchase: _____




MODEL / MODÈLE: "OAKLEAF" Woodburning Stove
Room Heater / Poêle à bois Fuel Burning Type
SUITABLE FOR MOBILE HOME INSTALLATION (USA ONLY)

Serial No.
N° de série: **008**


BARCODE LABEL

Report # / Rapport #135-S-26-6.2
Tested to / Testé à: UL1482-10, and ULC-S627-00, EPA Method 28 & 5G
Approved For Use in Mobile/Manufactured Homes (UM) 54-HUD - USA ONLY
"PREVENT HOUSE FIRES" Install and use only in accordance with manufacturer's installation and operation instructions and local codes. In absence of local codes, installation must meet minimum requirements of NFPA 211 in USA. Refer to manufacturer's instructions and local codes for precautions required for passing chimney through a combustible wall or ceiling.
This wood heater needs periodic inspection and repair for proper operation. Consult the owner's manual for further information. It is against federal regulations to operate this wood heater in a manner inconsistent with the operating instructions in the owner's manual.
WARNING: FOR MANUFACTURED HOMES: (US Only) Do not install appliance in a sleeping room. An outside air inlet must be provided. The structural integrity of the manufactured home's floor, walls, and ceiling must be maintained.
Flue connector pipe must be 6" diameter, minimum 24 MSG blue steel. Chimney must be factory built 103HT or masonry construction. Contact Local Building or Fire Officials about restrictions and installation inspection in your area.
DO NOT CONNECT THIS APPLIANCE TO A CHIMNEY SERVING ANOTHER APPLIANCE.
FOR USE WITH SOLID WOOD FUEL ONLY. DO NOT BURN COAL.
EPA Certified Emissions: 2.2 g/hr
Fuel Type: Cord Wood
DO NOT Overfire - If heater or chimney connector glows, you are overfiring.
Optional BLOWER Harman #1-00-797032: Electrical Rating 115 VAC, 60Hz, 1AMP Maximum
Route power cord away from unit.
OPERATE ONLY WITH DOORS CLOSED
Replace glass only with 5mm ceramic, available from your dealer.
Combustible flooring must be protected with an approved 0.45R hearth board.
Appliance must be installed with the legs attached. Do not obstruct airflow under the appliance.
DANGER: Risk of Fire
Do not burn garbage, gasoline, flammable liquids.
Fire. Do not operate with fuel loading or ash removal doors open.
Do not store fuel or combustibles within marked clearances. Inspect and clean chimney and connector regularly - Under certain conditions of use, creosote buildup may occur rapidly.
The Bypass Damper must be opened prior to opening any load or ash door.
Do not install a grate or otherwise elevate the fire.
DO NOT REMOVE THIS LABEL / Ne pas enlever cette étiquette

PN: 3-90-797



Approuvé pour l'utilisation dans les maisons mobiles / Fabricant - USA SEULEMENT
"EMPECHER MAISON INCENDIES" Installer et utiliser uniquement en conformité avec installation et d'utilisation les instructions du fabricant et les codes locaux. En l'absence de codes locaux, l'installation doit satisfaire aux exigences minimales de la norme NFPA 211 aux États-Unis. Reportez-vous aux instructions du fabricant et les codes locaux pour les précautions nécessaires pour faire passer la cheminée à travers un mur ou un plafond combustible.
Ce poêle à bois doit inspection périodique et la réparation pour un fonctionnement correct. Consultez le manuel du propriétaire pour plus d'informations. Ce est contre les règlements fédéraux pour faire fonctionner ce poêle à bois d'une manière incompatible avec les instructions d'utilisation dans le manuel du propriétaire.
AVERTISSEMENT: POUR maisons préfabriquées: (États-Unis uniquement) Ne pas installer l'appareil dans une chambre à coucher. Une entrée d'air extérieur doit être fournie. L'intégrité structurelle du sol, les murs et le plafond de la maison préfabriquée doit être maintenue.
Tuyau de raccordement de fumée doit être de 6" de diamètre, en acier au minimum 24 MSG bleu. Cheminée doit être construite l'usine 103HT ou la construction de maçonnerie. Contactez Immeuble Local ou fonctionnaires incendie au sujet des restrictions et l'inspection d'installation dans votre région.
NE PAS brancher l'appareil à une cheminée desservant un autre APPAREIL.
Pour une utilisation avec Solid combustible bois Seulement. Ne pas brûler de charbon.
Emissions certifiées EPA: 2.2 g/h
Type de carburant: Cordons bois
NE SURCHAUFFEZ. Si le connecteur chauffe ou de la cheminée rouge, vous surchauffez.
Facultatif BLOWER Harman # 1-00-797032: Note électrique 115 VAC, 60Hz, 1AMP maximum
Route cordon électrique de l'appareil.
FONCTIONNER UNIQUEMENT AVEC LES PORTES FERMÉES
Remplacer le verre seulement avec de la céramique 5mm, disponible chez votre revendeur.
Plancher combustible doit être protégé par un conseil 0.45R foyer approuvé.
L'appareil doit être installé avec les jambes attachées. Ne pas obstruer le flux d'air sous l'appareil.
DANGER: Risque d'incendie ou d'explosion - Ne pas brûler de déchets, de l'essence, vidanger l'huile ou d'autres liquides inflammables.
AVERTISSEMENT: Risque d'incendie, ne pas fonctionner avec chargement de combustible ou d'enlèvement de cendres portes ouvertes.
Ne pas stocker carburants ou de combustibles dans les dégagements marqués. Inspectez et cheminée propre et le connecteur régulièrement - Dans certaines conditions d'utilisation, l'accumulation de créosote peut se produire rapidement.
Le Bypass amortisseur doit être ouvert avant d'ouvrir ne importe quelle porte de charge ou de la cendre.
Ne pas installer une grille ou autrement surélever le feu.



CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN AND CLOTHING AWAY. CONTACT MAY CAUSE SKIN BURNS. SEE NAMEPLATE AND INSTRUCTIONS. KEEP FURNISHINGS AND OTHER COMBUSTIBLE MATERIALS A CONSIDERABLE DISTANCE AWAY FROM THIS APPLIANCE.

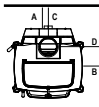
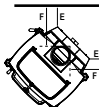
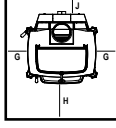
ATTENTION: CHAUD LORS DU FONCTIONNEMENT. NE TOUCHEZ PAS L'APPAREIL. GARDEZ LES ENFANTS ET LES VÊTEMENTS ÉLOIGNÉS. TOUT CONTACT PEUT ENTRAÎNER DES BRÛLURES DE LA PEAU. RÉFÉREZ-VOUS À LA PLAQUE SIGNALÉTIQUE ET AU MODE D'EMPLOI. GARDEZ LE MOBILIER ET LES AUTRES MATÉRIEAUX COMBUSTIBLES BIEN À L'ÉCART DE L'APPAREIL.

CLEARANCE TO COMBUSTIBLES
DISTANCES MINIMALES DE SÉCURITÉ:

Parallel Installation	Inches	Millimeters
A Back Wall / Entre mur arrière et l'appareil	14	330
B Side Wall To Unit / Entre mur latéral et l'appareil	17	430
C Back Wall To Flue Pipe / Entre tuyau et le mur arrière	17-1/2	444
D Side Wall To Flue Pipe / Entre tuyau et le mur latéral	26-3/4	679

Floor Protection Requirements

	Inches	Millimeters
G Sides / Côtés	8	203
H Front: from glass/Devant, par rapport au verre	18	457
J Rear / Arrière	8	203

Floor protection must be a minimum 3/8" (9.5mm) of 0.84R material, or 0.45R. Must also be placed under any horizontal sections of flue connector, extending 2" (51mm) beyond the measurement of the pipe. Use of bottom heat shield required on protected floor.

Pour protéger le plancher, il faut sous le poêle un matériau (9.5mm / 0.84R), o 0.45R. Qui doit aussi être placé sous les parties horizontales du tuyau de raccord à la cheminée et s'étendre à 51 mm (2 po) au-delà de la mesure du tuyau.

Corner Installation	Inches	Millimeters
E Walls to Unit Body / Entre mur adjacent et l'appareil	14	330
F Walls to Flue Pipe / Entre tuyau et le mur adjacent	21-3/4	552

REFER TO MANUFACTURER'S INSTRUCTIONS FOR CLEARANCES WITH ADDITIONAL VENT CONFIGURATIONS.

2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 1999 1998 1997 1996 1995 1994 1993 1992 1991 1990 1989 1988 1987 1986 1985 1984 1983 1982 1981 1980 1979 1978 1977 1976 1975 1974 1973 1972 1971 1970 1969 1968 1967 1966 1965 1964 1963 1962 1961 1960 1959 1958 1957 1956 1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 1945 1944 1943 1942 1941 1940 1939 1938 1937 1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 1923 1922 1921 1920 1919 1918 1917 1916 1915 1914 1913 1912 1911 1910 1909 1908 1907 1906 1905 1904 1903 1902 1901 1900 1899 1898 1897 1896 1895 1894 1893 1892 1891 1890 1889 1888 1887 1886 1885 1884 1883 1882 1881 1880 1879 1878 1877 1876 1875 1874 1873 1872 1871 1870 1869 1868 1867 1866 1865 1864 1863 1862 1861 1860 1859 1858 1857 1856 1855 1854 1853 1852 1851 1850 1849 1848 1847 1846 1845 1844 1843 1842 1841 1840 1839 1838 1837 1836 1835 1834 1833 1832 1831 1830 1829 1828 1827 1826 1825 1824 1823 1822 1821 1820 1819 1818 1817 1816 1815 1814 1813 1812 1811 1810 1809 1808 1807 1806 1805 1804 1803 1802 1801 1800 1799 1798 1797 1796 1795 1794 1793 1792 1791 1790 1789 1788 1787 1786 1785 1784 1783 1782 1781 1780 1779 1778 1777 1776 1775 1774 1773 1772 1771 1770 1769 1768 1767 1766 1765 1764 1763 1762 1761 1760 1759 1758 1757 1756 1755 1754 1753 1752 1751 1750 1749 1748 1747 1746 1745 1744 1743 1742 1741 1740 1739 1738 1737 1736 1735 1734 1733 1732 1731 1730 1729 1728 1727 1726 1725 1724 1723 1722 1721 1720 1719 1718 1717 1716 1715 1714 1713 1712 1711 1710 1709 1708 1707 1706 1705 1704 1703 1702 1701 1700 1699 1698 1697 1696 1695 1694 1693 1692 1691 1690 1689 1688 1687 1686 1685 1684 1683 1682 1681 1680 1679 1678 1677 1676 1675 1674 1673 1672 1671 1670 1669 1668 1667 1666 1665 1664 1663 1662 1661 1660 1659 1658 1657 1656 1655 1654 1653 1652 1651 1650 1649 1648 1647 1646 1645 1644 1643 1642 1641 1640 1639 1638 1637 1636 1635 1634 1633 1632 1631 1630 1629 1628 1627 1626 1625 1624 1623 1622 1621 1620 1619 1618 1617 1616 1615 1614 1613 1612 1611 1610 1609 1608 1607 1606 1605 1604 1603 1602 1601 1600 1599 1598 1597 1596 1595 1594 1593 1592 1591 1590 1589 1588 1587 1586 1585 1584 1583 1582 1581 1580 1579 1578 1577 1576 1575 1574 1573 1572 1571 1570 1569 1568 1567 1566 1565 1564 1563 1562 1561 1560 1559 1558 1557 1556 1555 1554 1553 1552 1551 1550 1549 1548 1547 1546 1545 1544 1543 1542 1541 1540 1539 1538 1537 1536 1535 1534 1533 1532 1531 1530 1529 1528 1527 1526 1525 1524 1523 1522 1521 1520 1519 1518 1517 1516 1515 1514 1513 1512 1511 1510 1509 1508 1507 1506 1505 1504 1503 1502 1501 1500 1499 1498 1497 1496 1495 1494 1493 1492 1491 1490 1489 1488 1487 1486 1485 1484 1483 1482 1481 1480 1479 1478 1477 1476 1475 1474 1473 1472 1471 1470 1469 1468 1467 1466 1465 1464 1463 1462 1461 1460 1459 1458 1457 1456 1455 1454 1453 1452 1451 1450 1449 1448 1447 1446 1445 1444 1443 1442 1441 1440 1439 1438 1437 1436 1435 1434 1433 1432 1431 1430 1429 1428 1427 1426 1425 1424 1423 1422 1421 1420 1419 1418 1417 1416 1415 1414 1413 1412 1411 1410 1409 1408 1407 1406 1405 1404 1403 1402 1401 1400 1399 1398 1397 1396 1395 1394 1393 1392 1391 1390 1389 1388 1387 1386 1385 1384 1383 1382 1381 1380 1379 1378 1377 1376 1375 1374 1373 1372 1371 1370 1369 1368 1367 1366 1365 1364 1363 1362 1361 1360 1359 1358 1357 1356 1355 1354 1353 1352 1351 1350 1349 1348 1347 1346 1345 1344 1343 1342 1341 1340 1339 1338 1337 1336 1335 1334 1333 1332 1331 1330 1329 1328 1327 1326 1325 1324 1323 1322 1321 1320 1319 1318 1317 1316 1315 1314 1313 1312 1311 1310 1309 1308 1307 1306 1305 1304 1303 1302 1301 1300 1299 1298 1297 1296 1295 1294 1293 1292 1291 1290 1289 1288 1287 1286 1285 1284 1283 1282 1281 1280 1279 1278 1277 1276 1275 1274 1273 1272 1271 1270 1269 1268 1267 1266 1265 1264 1263 1262 1261 1260 1259 1258 1257 1256 1255 1254 1253 1252 1251 1250 1249 1248 1247 1246 1245 1244 1243 1242 1241 1240 1239 1238 1237 1236 1235 1234 1233 1232 1231 1230 1229 1228 1227 1226 1225 1224 1223 1222 1221 1220 1219 1218 1217 1216 1215 1214 1213 1212 1211 1210 1209 1208 1207 1206 1205 1204 1203 1202 1201 1200 1199 1198 1197 1196 1195 1194 1193 1192 1191 1190 1189 1188 1187 1186 1185 1184 1183 1182 1181 1180 1179 1178 1177 1176 1175 1174 1173 1172 1171 1170 1169 1168 1167 1166 1165 1164 1163 1162 1161 1160 1159 1158 1157 1156 1155 1154 1153 1152 1151 1150 1149 1148 1147 1146 1145 1144 1143 1142 1141 1140 1139 1138 1137 1136 1135 1134 1133 1132 1131 1130 1129 1128 1127 1126 1125 1124 1123 1122 1121 1120 1119 1118 1117 1116 1115 1114 1113 1112 1111 1110 1109 1108 1107 1106 1105 1104 1103 1102 1101 1100 1099 1098 1097 1096 1095 1094 1093 1092 1091 1090 1089 1088 1087 1086 1085 1084 1083 1082 1081 1080 1079 1078 1077 1076 1075 1074 1073 1072 1071 1070 1069 1068 1067 1066 1065 1064 1063 1062 1061 1060 1059 1058 1057 1056 1055 1054 1053 1052 1051 1050 1049 1048 1047 1046 1045 1044 1043 1042 1041 1040 1039 1038 1037 1036 1035 1034 1033 1032 1031 1030 1029 1028 1027 1026 1025 1024 1023 1022 1021 1020 1019 1018 1017 1016 1015 1014 1013 1012 1011 1010 1009 1008 1007 1006 1005 1004 1003 1002 1001 1000 999 998 997 996 995 994 993 992 991 990 989 988 987 986 985 984 983 982 981 980 979 978 977 976 975 974 973 972 971 970 969 968 967 966 965 964 963 962 961 960 959 958 957 956 955 954 953 952 951 950 949 948 947 946 945 944 943 942 941 940 939 938 937 936 935 934 933 932 931 930 929 928 927 926 925 924 923 922 921 920 919 918 917 916 915 914 913 912 911 910 909 908 907 906 905 904 903 902 901 900 899 898 897 896 895 894 893 892 891 890 889 888 887 886 885 884 883 882 881 880 879 878 877 876 875 874 873 872 871 870 869 868 867 866 865 864 863 862 861 860 859 858 857 856 855 854 853 852 851 850 849 848 847 846 845 844 843 842 841 840 839 838 837 836 835 834 833 832 831 830 829 828 827 826 825 824 823 822 821 820 819 818 817 816 815 814 813 812 811 810 809 808 807 806 805 804 803 802 801 800 799 798 797 796 795 794 793 792 791 790 789 788 787 786 785 784 783 782 781 780 779 778 777 776 775 774 773 772 771 770 769 768 767 766 765 764 763 762 761 760 759 758 757 756 755 754 753 752 751 750 749 748 747 746 745 744 743 742 741 740 739 738 737 736 735 734 733 732 731 730 729 728 727 726 725 724 723 722 721 720 719 718 717 716 715 714 713 712 711 710 709 708 707 706 705 704 703 702 701 700 699 698 697 696 695 694 693 692 691 690 689 688 687 686 685 684 683 682 681 680 679 678 677 676 675 674 673 672 671 670 669 668 667 666 665 664 663 662 661 660 659 658 657 656 655 654 653 652 651 650 649 648 647 646 645 644 643 642 641 640 639 638 637 636 635 634 633 632 631 630 629 628 627 626 625 624 623 622 621 620 619 618 617 616 615 614 613 612 611 610 609 608 607 606 605 604 603 602 601 600 599 598 597 596 595 594 593 592 591 590 589 588 587 586 585 584 583 582 581 580 579 578 577 576 575 574 573 572 571 570 569 568 567 566 565 564 563 562 561 560 559 558 557 556 555 554 553 552 551 550 549 548 547 546 545 544 543 542 541 540 539 538 537 536 535 534 533 532 531 530 529 528 527 526 525 524 523 522 521 520 519 518 517 516 515 514 513 512 511 510 509 508 507 506 505 504 503 502 501 500 499 498 497 496 495 494 493 492 491 490 489 488 487 486 485 484 483 482 481 480 479 478 477 476 475 474 473 472 471 470 469 468 467 466 465 464 463 462 461 460 459 458 457 456 455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440 439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392 391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376 375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360 359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344 343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328 327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312 311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296 295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 257 256 255 254 253 252 251 250 249 248 247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200 199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

2016 2015 2014 2013 2012 2011 2010 2009 2008 2007 2006 2005 2004 2003 2002 2001 2000 19

TABLE OF CONTENTS

1 Listing and Code Approvals

A. Appliance Certification	4
B. Mobile Home Approval	4
C. Glass Specifications	4
D. Electrical Rating	4
E. BTU & Efficiency Specifications	4

2 Special Warnings and Notes

A. Carbon Monoxide Warnings & Considerations	5
--	---

3 Getting Started

A. Design, Installation and Location	6
B. Fire Safety	6
C. Component Locator	7
D. Flue Direction Conversion	7
E. Pre-Use Checklist	8

4 Dimensions & Clearances

A. Appliance Dimensions	9
→ B. Clearances to Combustibles	10
C. Floor Protection	12

5 Chimneys and Venting

A. Draft	13
B. Chimney Connectors	13
C. Wall Pass-throughs	13
D. The Chimney	14

6 Mobile Home (US Only)

A. Mobile Home Installation	21
-----------------------------------	----

7 Appliance Set-Up

A. Outside Air Attachment	22
B. Leveling the Appliance	22
C. Optional Cooking Grill	22
D. Optional Blower Kit	23
E. Optional Rear Vent Shield	23
F. Bottom Heat Shield	23

8 Operating Instructions

A. Fuel Specifications	24
B. General Operating Information	24
C. Combustion Process	25
D. User Controls	26
E. Before Your First Fire	26
F. Building and Maintaining a Fire	26

9 Service & Maintenance

A. Soot Formation (Removal)	28
B. General Maintenance Procedures	29

10 Reference Materials

A. Wiring Diagram (Optional Blower)	31
→ B. Service Parts List	32
C. Warranty Policy	35

This room heater must be connected to:

1. A chimney complying with the requirements for Type HT chimneys in the standard for Chimneys, Factory-Built, Residential Type and Building Heating Appliance, UL 103

OR

2. A Code Approved Masonry Chimney with a Flue Liner.

1 Listing and Code Approvals

A. Appliance Certification

MODEL:	Oakleaf Woodburning Stove
LABORATORY:	OMNI Test Laboratories, Inc
REPORT NO.	135-S2-26-6.2
TYPE:	Solid Fuel Room Heater / Wood Burning Type
STANDARD(s):	UL1482-10, & ULC S627-00, EPA Method 28 & 5G
ELECTRICAL RATING:	115 VAC, 60 Hz

The Oakleaf Woodburning Stove is Certified to comply with 2015 particulate emission standards. Not approved for sale after May 15, 2020.



B. Mobile Home Approved

This appliance is approved for Installation in mobile/ manufactured homes in the **US only**. The structural integrity of the mobile home floor, ceiling and walls must be maintained. The appliance must be properly grounded to the frame of the mobile home, and must never be installed in a room designated for sleeping. The unit must have provisions for an outside air source when installed in a mobile home.

C. Glass Specifications

This appliance is equipped with 5mm ceramic glass. Replace glass only with 5mm ceramic glass. Please contact your dealer for replacement glass if needed.

D. Electrical Rating

Optional Blower: 115 VAC, 60 Hz. <1 Amps

E. BTU & Efficiency Specifications

EPA Certification Number:	898
EPA Certified Emissions:	2.2 g/hr
*LHV Tested Efficiency:	63%
**HHV Tested Efficiency:	70.9%
***EPA BTU Output:	9,700 - 24,600
****BTU Input	45,100
Vent Size:	6 Inch
Recommend Log Length:	18" Maximum
Fuel	Seasoned Cord Wood

** Weighted average LHV efficiency using data collected during EPA emissions test.*

***Weighted average HHV efficiency using data collected during EPA emissions test.*

****A range of BTU outputs based on EPA Default Efficiency and the burn rates from the low and high EPA tests.*

*****Based on the maximum burn rate multiplied by approximately 8600 BTU's which is the average BTU's per pound of wood with an average moisture content of 20%.*

This wood heater needs periodic inspection and repair for proper operation. It is against federal regulations to operate this wood heater in a manner inconsistent with operating instructions in this manual.

2 Special Warnings and Notes

Carbon monoxide, referred to as CO, is a colorless, odorless gas that is produced during combustion of wood and other fuels. **CO fumes are toxic and can be fatal.**

The Oakleaf is a natural draft system which relies on a properly designed chimney to remove CO and other combustion by-products from the stove.

Even though this stove is designed to be as safe as possible, it is important that you **install a CO detector**. This is true for oil, gas, or coal burning products as well.

CO is not specifically heavier or lighter than air. Therefore, it is best to install the detector at table top level rather than on the ceiling like a smoke detector.

CO detectors are very sensitive and may sound an alarm for fumes other than CO or CO from sources other than the stove such as car or lawn mower exhaust.

If the alarm sounds

1. Increase ventilation by opening windows or doors.
2. Make sure the stove doors and lid are closed and latched.
3. Check stove for smoking or puffing condition. Open by-pass and increase air-flow to firebox, if needed.
4. Check chimney for possible blockage or down-draft.
5. Check for false alarm.

SAFETY NOTICE: IF THIS APPLIANCE IS NOT PROPERLY INSTALLED, OPERATED AND MAINTAINED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW INSTALLATION DIRECTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.



CAUTION

WHEN THIS ROOM HEATER IS NOT PROPERLY INSTALLED, A HOUSE FIRE MAY RESULT. TO REDUCE THE RISK OF FIRE, FOLLOW THE INSTALLATION INSTRUCTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.



WARNING

NEVER USE GASOLINE, LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP" A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IT IS IN USE.



WARNING

NEVER CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.



WARNING

DO NOT CONNECT TO ANY AIR DISTRIBUTION DUCT OR SYSTEM.



WARNING

THIS WOOD HEATER HAS A MANUFACTURER-SET MINIMUM LOW BURN RATE THAT MUST NOT BE ALTERED. IT IS AGAINST FEDERAL REGULATIONS TO ALTER THIS SETTING OR OTHERWISE OPERATE THIS WOOD HEATER IN A MANNER INCONSISTENT WITH OPERATING INSTRUCTIONS IN THIS MANUAL.



WARNING

BURNING COLORED PAPER, CARDBOARD, SOLVENTS, TRASH AND GARBAGE OR ALTERING THE STOVE FOR HIGHER HEAT OUTPUT MAY CAUSE DAMAGE TO THE STOVE AND COULD RESULT IN A HOUSE FIRE. USE ONLY APPROVED FUELS AND FOLLOW ONLY THESE OPERATION GUIDELINES.

NOTICE

Due to ash buildup, it is strongly recommended to have your stove professionally cleaned and serviced annually. This includes all parts of the stove, and the venting system.

Installation and repair of this stove should be done by a qualified service person. We recommend that the stove be inspected before use and at least annually by a qualified service person. Periodic cleaning is required throughout the heating season and at the end of each winter for the stove to work efficiently.

3 Getting Started

A. Design, Installation & Location Considerations

1. Appliance Location

Consideration must be given to safety, convenience, traffic flow, and the fact that the appliance will need a chimney and chimney connector. It is a good idea to plan your installation on paper, using exact measurements for clearances and floor protection, before actually beginning the installation. When installing on a combustible floor, the bottom heat shield must be installed along with using proper floor protection material. See Section 4C for details.

Maintain specified vent clearance to combustible requirements listed by the vent manufacturers instructions and all clearance to combustibles listed in this manual.

Check with your local building code agency before you begin your installation. Be sure local codes do not supersede UL specifications and always obtain the required permit so that insurance protection benefits cannot be unexpectedly cancelled. If any assistance is required during installation, please contact your dealer.

We recommend that a qualified building inspector and your insurance company representative review your plans before and after the installation.

Be sure to provide a source of fresh air to the room or directly to the appliance. Make-up air is needed to replace what the chimney draws away through the appliance.



CAUTION

Do NOT connect this unit to a chimney flue servicing another appliance.

Do NOT connect to any forced air distribution duct or system.

B. Fire Safety

Maintain the designated clearances to combustibles. Insulation must not touch the chimney. You must maintain the designated air space around the chimney. This space around a chimney is necessary to allow natural heat removal from the area. Insulation in this space will cause a heat buildup, which may ignite wood framing.

NOTE: Clearances may only be reduced by means approved by the regulatory authority having jurisdiction.

To provide reasonable fire safety, the following should be given serious consideration:

1. Install at least one smoke detector on each floor of your home. Detectors should be located away from the heating appliance and close to sleeping areas. Follow the smoke detector manufacturer's placement and installation instructions, and be sure to maintain regularly.
2. A conveniently located Class A fire extinguisher to contend with small fires resulting from burning embers.
3. A practiced evacuation plan, consisting of at least two escape routes.
4. A plan to deal with a chimney fire as follows:

In the event of a chimney fire:

- a. Evacuate the house immediately.
- b. Notify Fire Department.
- c. Never apply water to a suspected chimney fire. Serious damage could occur.



WARNING



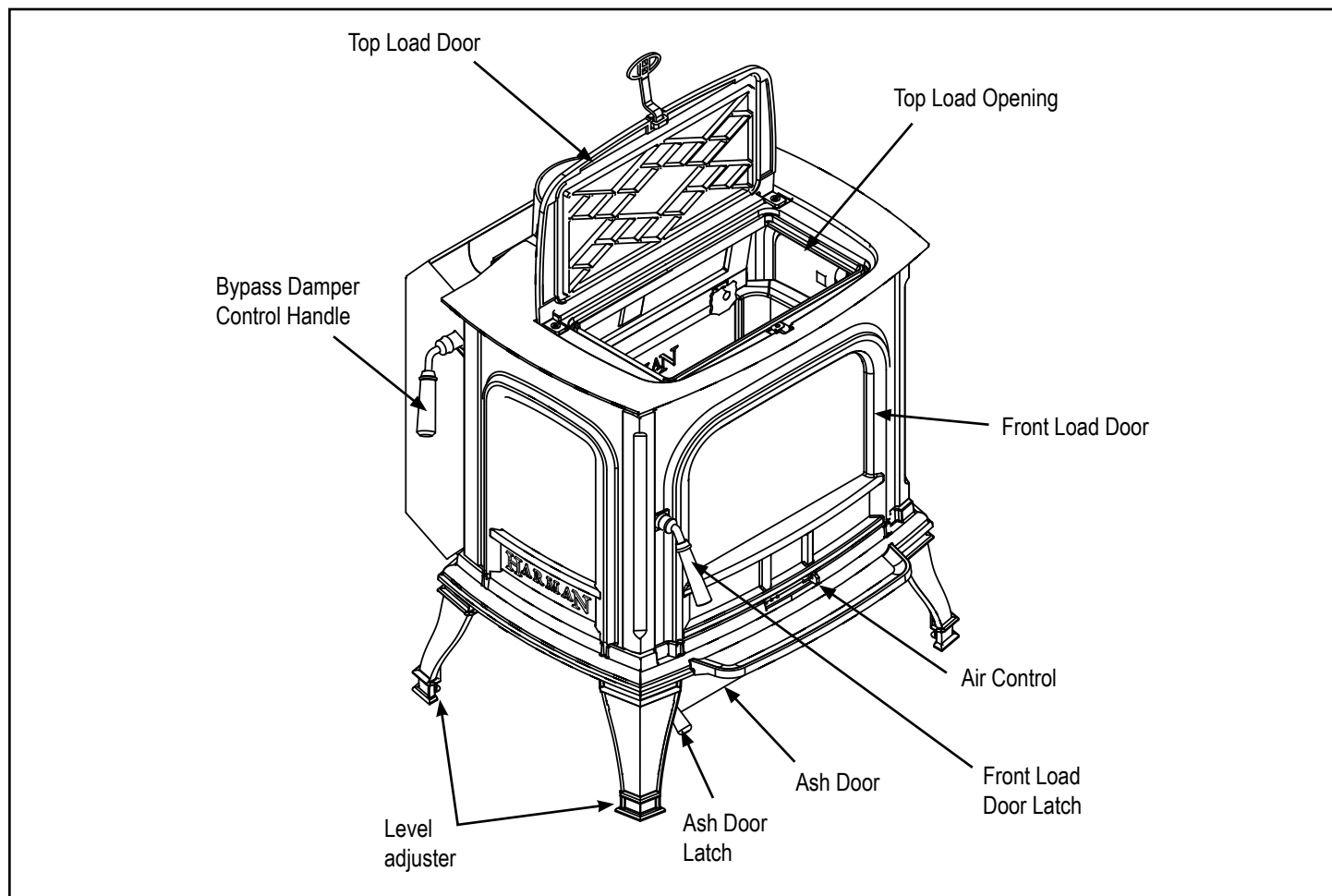
FIRE HAZARD

DO NOT OPERATE APPLIANCE BEFORE READING AND UNDERSTANDING THE OPERATING INSTRUCTIONS.



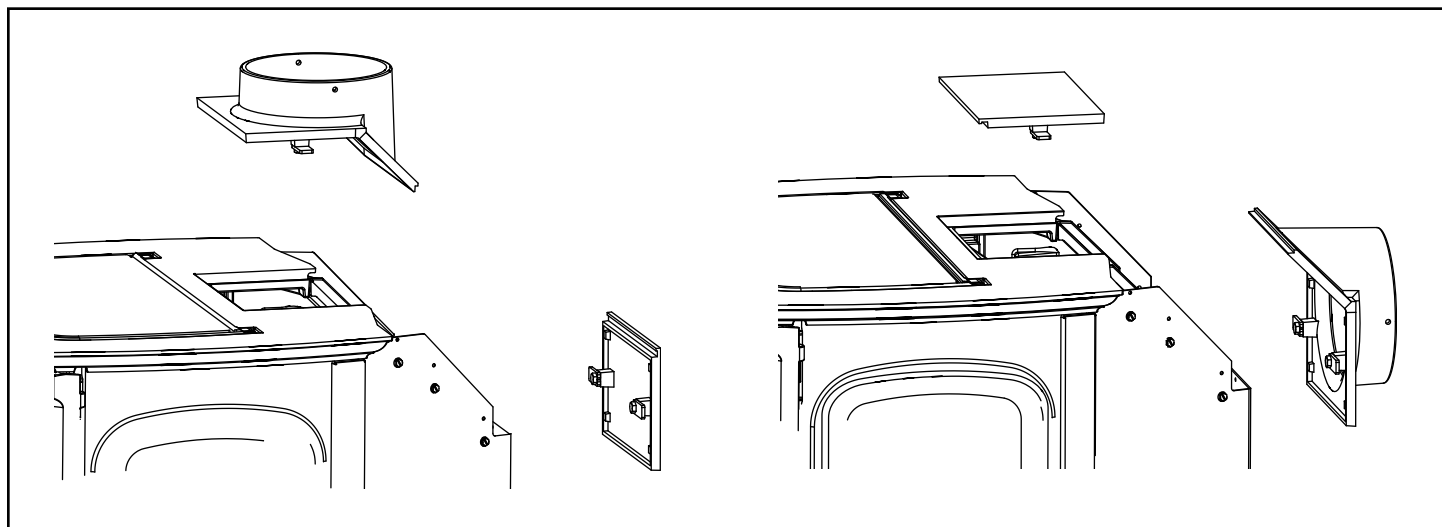
FAILURE TO OPERATE PROPERLY MAY CAUSE A HOUSE FIRE.

C. Component Locations



D. Flue Direction Conversion

The Oakleaf features an adjustable flue collar for rear or top exit. Follow these instructions for changing the direction. First, remove the upper rear heat shield by removing 8 Tek screws that secure it. Reaching upward through the firebox and the open bypass damper, loosen the retainer bolts on each of the flue collar and the cast iron plate. With the bolts loosened, turn the retainer to allow the piece to come free of the stove body. Reposition the flue collar and the cast iron plate and secure them with the retainers by tightening the bolts. You will now need to install a different upper rear heat shield. (See Section 7E).



E. Pre- Use Check List

1.	Place the appliance in a location near the final installation and follow the procedures below:
2.	Open the appliance and remove all articles packed inside. Inspect all items for shipping damage. Notify dealer of any missing or damaged goods.
3.	All safety warnings have been read and followed precisely.
4.	This Owner's Manual has been read in it's entirety.
5.	Floor protection requirements have been read and followed.
6.	The flue connector has been installed in accordance with the instructions herein.
7.	The proper clearances from the appliance and chimney connector to combustibles have been met.
8.	The masonry chimney has been cleaned and inspected by a professional, or the factory built metal chimney is installed according to the manufacturers instructions.
9.	The chimney meets the minimum height requirements.
10.	All labels and hang tags have been removed from the glass.
11.	All plated surfaces have been wiped clean, if applicable.
12.	The optional air distribution blower has been installed properly.
13.	A properly grounded electrical receptacle is available within reach of the blower's power cord (if installed).

WARNING



INSPECT APPLIANCE AND COMPONENTS FOR DAMAGE. DAMAGED PARTS MAY IMPAIR SAFE OPERATION.

- DO NOT INSTALL DAMAGED COMPONENTS.
- DO NOT INSTALL INCOMPLETE COMPONENTS.
- DO NOT INSTALL SUBSTITUTE COMPONENTS.

REPORT DAMAGED PARTS TO DEALER.

WARNING



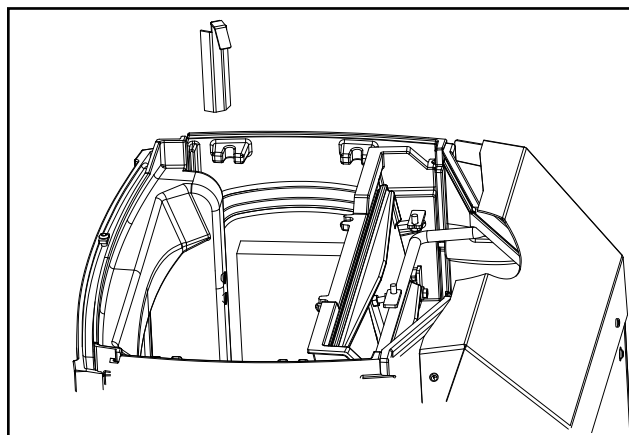
FIRE RISK.

HEARTH & HOME TECHNOLOGIES DISCLAIMS ANY RESPONSIBILITY FOR, AND THE WARRANTY WILL BE VOIDED BY, THE FOLLOWING ACTIONS:

- INSTALLATION AND USE OF ANY DAMAGED APPLIANCE.
- MODIFICATION OF THE APPLIANCE.
- INSTALLATION OTHER THAN AS INSTRUCTED BY HEARTH & HOME TECHNOLOGIES.
- INSTALLATION OF PARTS OR COMPONENTS NOT SUPPLIED OR APPROVED BY HEARTH & HOME TECHNOLOGIES.
- OPERATING APPLIANCE WITHOUT THE LEGS ATTACHED.
- OPERATING APPLIANCE WITHOUT FULLY ASSEMBLING ALL COMPONENTS.
- DO NOT OVERFIRE.

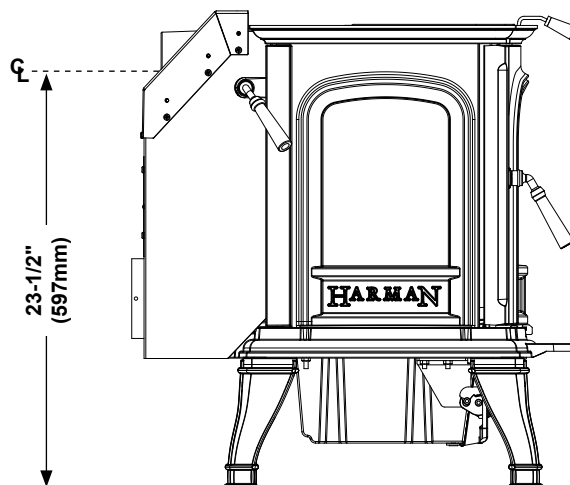
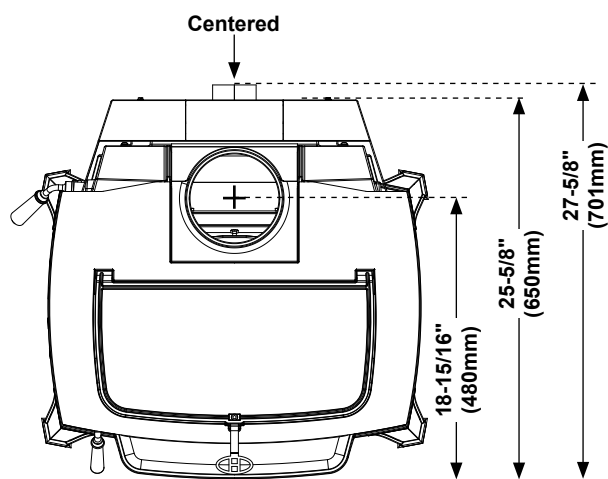
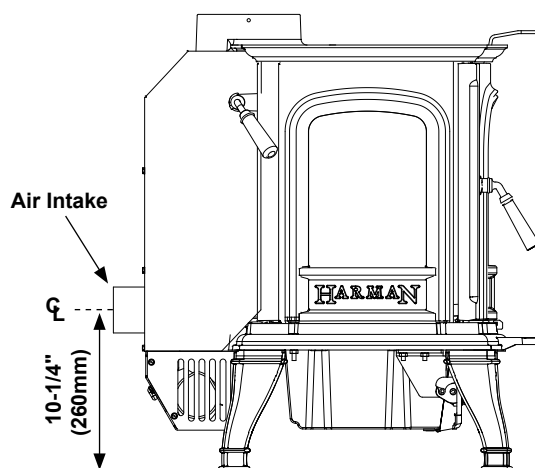
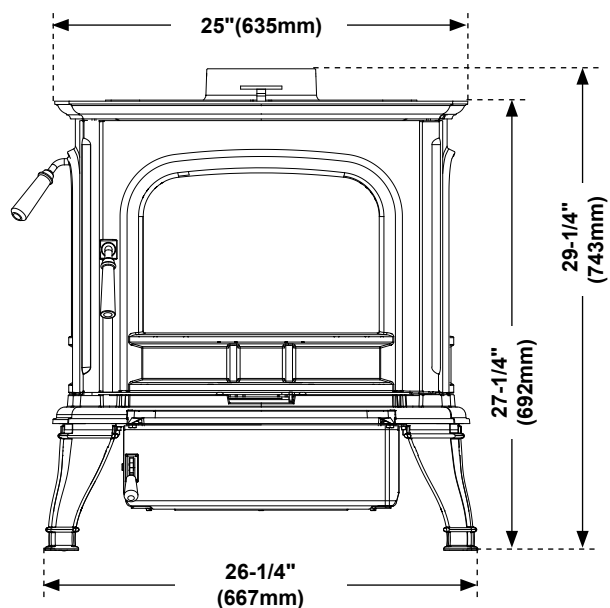
OR ANY SUCH ACTION THAT MAY CAUSE A FIRE HAZARD.

There are two brick clips located in the Owner's manual bag. With the bricks in place, install the clips in the front corners as shown. The long portion of the clip will fit between the brick and the wall of the stove, with the short hook over-hanging to the inside of the firebox.



4 Dimensions & Clearances

A. Appliance Dimensions



When configured for rear flue; Floor to center of flue measures 23-1/2" (597mm)

NOTICE: When using rear flue configuration, a new upper rear heat shield, #1-00-797066 must be installed in place of the existing shield.

B. Clearances To Combustibles

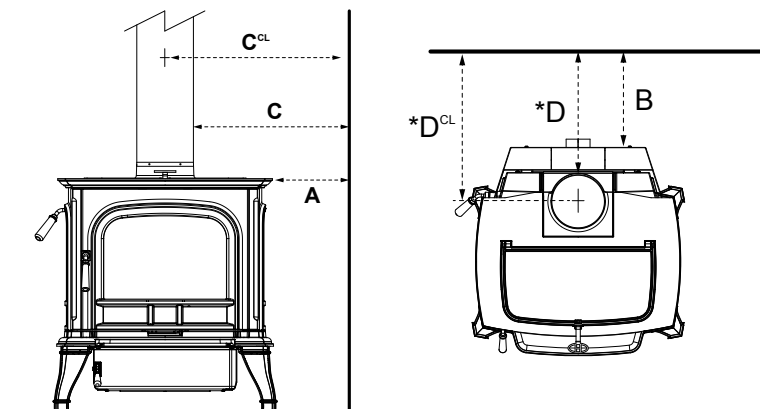
Note: It is recommended that you have the unit in place for proper measurements and installation.

Vertical Venting Configuration

	Location	Single-Wall Pipe
A	Unit to Side Wall	17" / 432mm
B	Unit to Back Wall	14" / 356mm
C	Vent Pipe to Side Wall	26-3/4" / 679mm
C^{CL}	Centerline to Side Wall	29-1/2" / 749mm
*D	Vent Pipe to Back Wall	17-1/2" / 444mm
D^{CL}	Centerline to Back Wall	20-3/4" / 527mm

Pipe clearance may be reduced using double wall or insulated connector pipe, provided that you adhere to the specified clearances from the stove itself. Follow pipe manufacturer's guidelines.

*NFPA 211 specifies 18" clearance to single wall connector pipe. This lower clearance is based on actual safety test conditions.



Vertical Vent, Horizontal Exit

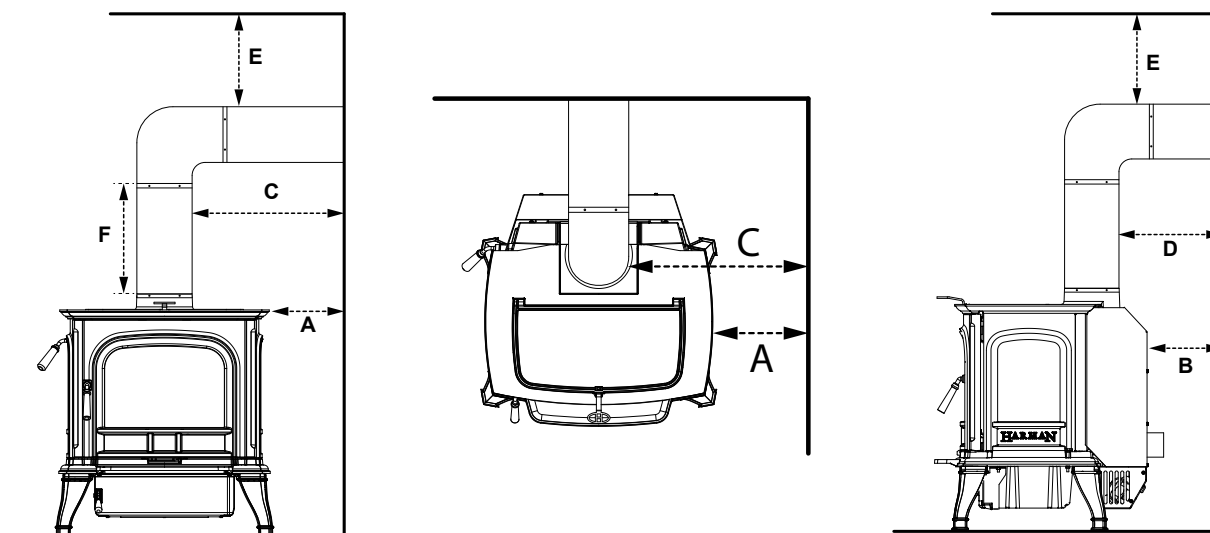
	Location	Single-Wall Pipe
A	Unit to Side Wall	16" / 407mm
B	Unit to Back Wall	13" / 330mm
C	Vent Pipe to Side Wall	25-1/4" / 641mm
*D	Vent Pipe to Back Wall	17" / 432mm
*E	Vent Pipe to Ceiling	16" / 407mm
F	Minimum Vertical	0" / 0mm

Pipe clearance may be reduced using double wall or insulated connector pipe, provided that you adhere to the specified clearances from the stove itself. Follow pipe manufacturer's guidelines.

*NFPA 211 specifies 18" clearance to single wall connector pipe. This lower clearance is based on actual safety test conditions.

The pipe center line clearance will vary depending on the brand vent pipe being used.

Note: It is recommended that the unit be in place for proper measurements and installation.



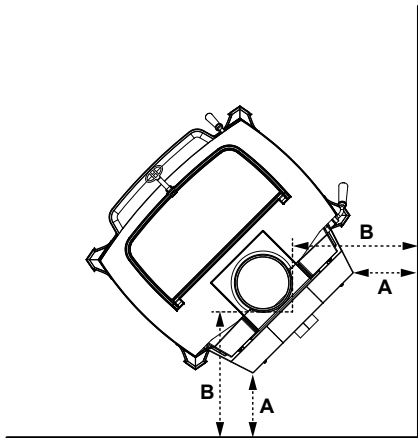
For clearance reduction methods, refer to NFPA 211 or Local Codes

Follow NFPA 211 Table 13.6.1 "Clearances for Solid Fuel-Burning Appliances" for clearance from the top of the unit to ceiling.

This unit was not tested for installation into an Alcove. Follow NFPA 211 Table 13.6.1 "Clearances for Solid Fuel-Burning Appliances".

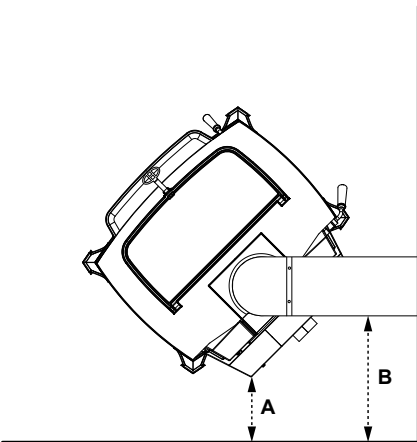
CLEARANCE TO COMBUSTIBLES: Corner Installation, Vertical Vent

	Location	Single-Wall Pipe
A	Shield Corner to Wall	14" / 356mm
B	Vent Pipe to Wall	21-3/4" / 552mm



CLEARANCE TO COMBUSTIBLES: Corner Installation, Vertical Vent, Horizontal Exit.

	Location	Single-Wall Pipe
A	Shield Corner to Wall	14" / 356mm
B	Vent Pipe to Wall	21-3/4" / 552mm



Pipe clearance may be reduced using double wall or insulated connector pipe, provided that you adhere to the specified clearances from the stove itself. Follow pipe manufacturer's guidelines.

CLEARANCE TO COMBUSTIBLES: Horizontal Venting Configuration

	Location	Single-Wall Pipe
A	Unit to Side Wall	17" / 432mm
B	Unit to Back Wall	13" / 330mm
B ^{CL}	Flue Centerline from Floor	23-3/8" / 594mm
C	Vent Pipe to Side Wall	26-1/2" / 673
Corner Installation		
D	Shield Corner to Wall	14" / 356mm
E	NFPA 211 Secifies clearance of	18" / 457mm

(Although vent clearance may be reduced using double-wall pipe, D must be followed)

The pipe center line clearance will vary depending on the brand vent pipe being used.

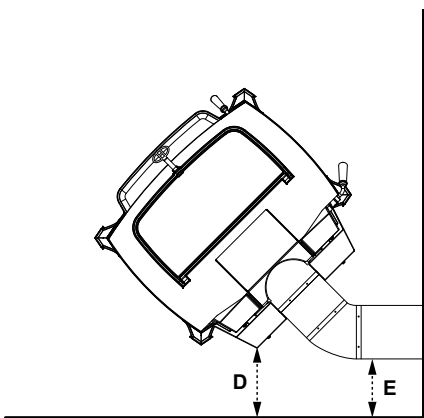
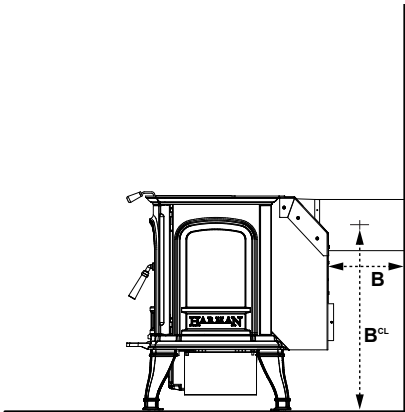
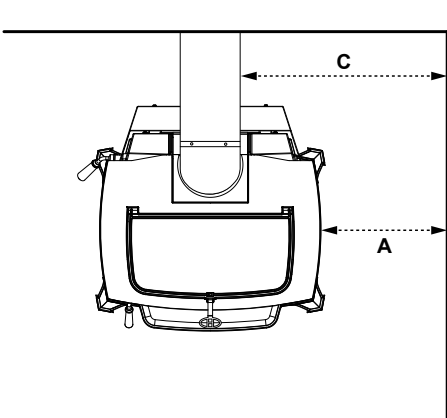
Note: It is recommended that the unit be in place for proper measurements and installation.

For clearance reduction methods, refer to NFPA 211 or Local Codes

NOTICE: When using rear flue configuration, a new upper rear heat shield, #1-00-797066 must be installed in place of the existing shield.

Follow NFPA 211 Table 13.6.1 "Clearances for Solid Fuel-Burning Appliances" for clearance from the top of the unit to ceiling.

This unit was not tested for installation into an Alcove. Follow NFPA 211 Table 13.6.1 "Clearances for Solid Fuel-Burning Appliances".



C. Floor Protection Requirements

Floor Protection Requirements

If the Oakleaf is being installed on a combustible floor, the bottom heat shield (part # 1-00-797058) must be installed with a suitable material for floor protection. (See Section 7F). This heat shield is supplied with the unit and must be installed. Floor protection must be at least 3/8" (9.5 mm) thick insulating material having a value equal to or greater than 0.84k/in. (The higher the value of k, the better the protection.)

Another method for calculating floor protection is in R value. This requirement would be for an R value of 0.89 or higher. (The higher the R value, the better the protection.)

In all installations, the area under and around the stove must be protected from falling ash and live coals. *The area under a horizontal run of chimney connector must also be protected, extending two (2) inches beyond the measurement of the horizontal connector.*

Further guidelines for floor protection are as follows:

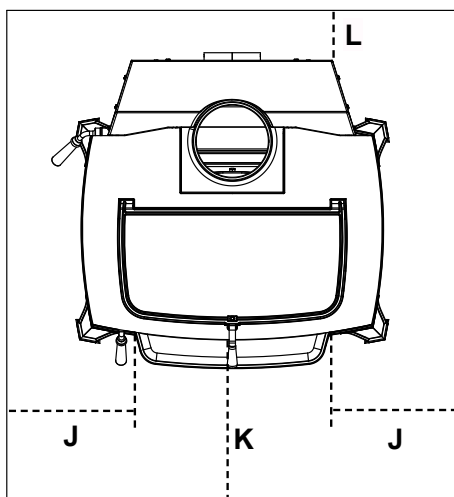
In the U.S. the floor protector must be completely under the stove, and extending 18" in front of the door opening, 8" to each side and 8" to the back.

In Canada, the floor protection must extend 18" (457mm) in front of the door opening, 8" (203mm) to each side and extend to the wall behind the stove.

Minimum Size floor protection (USA) is 42-3/4" Deep by 32-5/8" Wide.

Floor protection touching the wall: 53-3/8" Deep x 32-5/8" Wide.

Floor Protection Requirements		US	Canada
J	Sides	8"	203mm
K	Front	18"	457mm
L	Rear	8"	Wall



Type II floor protection must be used.

*Floor protection for the front and sides as measured from the appliance door opening.

DANGER: The appliance legs may not be removed for installation.

Minimum Size floor protection (USA) is 32-5/16" Wide By 43-3/8" Deep.

Parallel versus Corner Installations

A parallel installation is one in which the back and sides of the stove are parallel to the walls behind and to the side of the stove. A corner installation is one in which the back of the stove is positioned diagonally across a corner of the room. Each installation requires its own set of clearances.

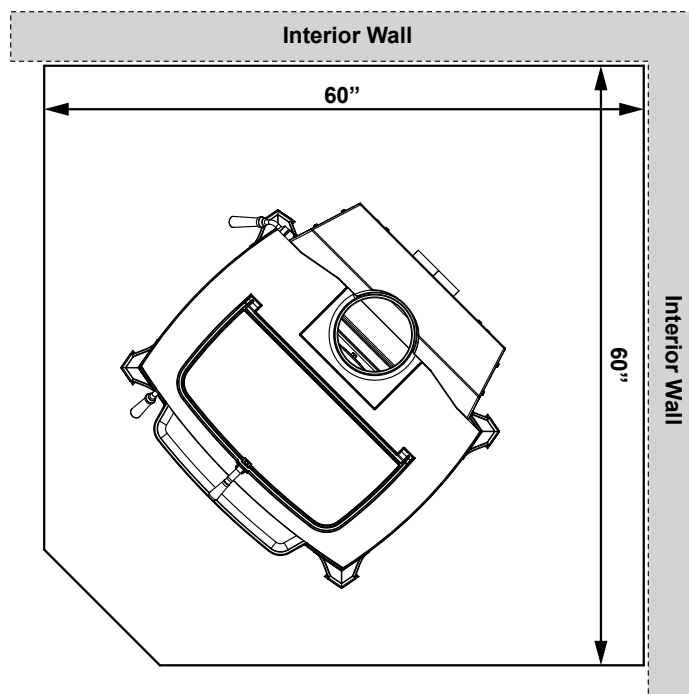
For corner installations, the required clearance distances from the stove are:

1. to the side wall, 14" (356mm).
2. From the flue connector to the wall, 21-3/4" (552mm)
3. Horizontal pipe to the ceiling, 16" (406mm).

For a vertical chimney connector in a parallel installation the distance of the connector to the side wall must be 26-3/4" (679mm), due to the required side clearance of the stove itself. Fireplace installations must meet these same clearance requirements; specifically follow these guidelines for mantel and trim clearances.

For corner installations, the clearance distances are 14" (356mm) from each corner of the stove measured straight back to the nearest combustible material, and 21-3/4" (552mm) from the chimney connector to the walls. To stay within these clearances and have the floor protector touch the interior wall it must be a hearth pad size of 53" x 53" (USA ONLY).

Alternate floor protector dimension may be used as long as they satisfy the measurement requirements shown above.



Minimum size floor protection for a corner installation hearth pad is 43-3/8" x 32-5/16" (USA ONLY). NOTE: Floor protector WILL NOT touch the wall.

5 Chimneys and Venting

The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

A. Draft

Draft is widely misunderstood. It is important that you, the stove operator, realize that draft is a variable *effect*, not a given quantity. Stoves and chimneys do not *have* draft, yet draft is the key to your stove's performance.

Draft is a *force*, produced by an operating stove and the chimney to which it is attached. It is created by hot gases rising up the chimney, creating a pressure difference between the inside of your home and the outside air. It continually moves fresh combustion air into the stove, and hot exhaust gases out of the stove; without this constant flow, the fire will go out.

Other factors, such as barometric pressure, winds, the airtightness of the home, the total inside chimney volume, chimney height and the presence of venting devices such as exhaust fans also play a role in maintaining an adequate draft. Low barometric pressures, super insulated homes and exhaust fans can reduce draft; winds can play havoc with draft; and too large or too small a chimney volume can cause reduced draft due to the excessive cooling or not enough room to vent exhaust gases. Introducing outside air directly to the stove may help remedy a low draft problem. Some signs of inadequate draft are smoking, odor, difficulty in maintaining the fire, and low heat output. Overdraft can be caused by a very tall chimney even if it is the recommended size, and can cause overfiring of your stove. Signs of an overdraft include rapid fuel consumption, inability to slow the fire, and parts of the stove or chimney connector glowing red. It is important that you follow the chimney guidelines in this manual, including size, type, and height to avoid draft problems.

When installed and operated according to this manual, the Oakleaf will produce enough hot gases to keep the chimney warm so that adequate draft is maintained throughout the burn cycle.

B. Chimney Connectors

In general, following these guidelines will ensure compliance with all national and provincial codes; prior to beginning your installation, check with your local building code official to check on additional local regulations which may influence the design and placement of your venting system.

The Harman Oakleaf may be installed with a minimum (.6mm) 24 gauge chimney connector pipe. The size of the connector should correspond to the size of the flue collar opening. Do not use makeshift compromises. No part of the chimney connector may pass through an attic or roof space, closet or other concealed space, or through a floor or ceiling. Whenever possible, avoid passing the connector through a combustible wall; if you must, use an approved wall pass-through, described later in this section.

Assemble the connector beginning at the flue collar, with the crimped ends pointing towards the stove (to keep debris or residue inside the system). Each joint, including the one to the stove's flue collar and the one to the chimney itself should be secured with at least three sheet metal screws. Screws may be a maximum of 3 inches apart. A 1-1/4" (30mm) overlap is required at each joint, including the flue collar attachment. No more than two 90° elbows should be used, and the total length of connector should not exceed 10 feet (3m). All horizontal runs of connector must have a minimum upward slope of 1/4" (6mm) per foot (20mm per meter).

The chimney connector diameter should correspond to the size of the flue collar opening. Do not use makeshift compromises. No part of the chimney connector may pass through an attic or roof cemented in place with refractory cement.

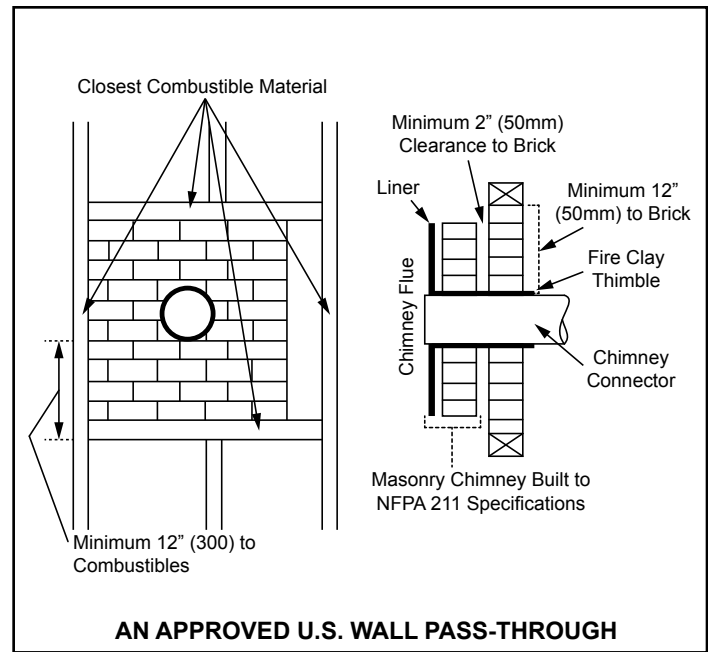
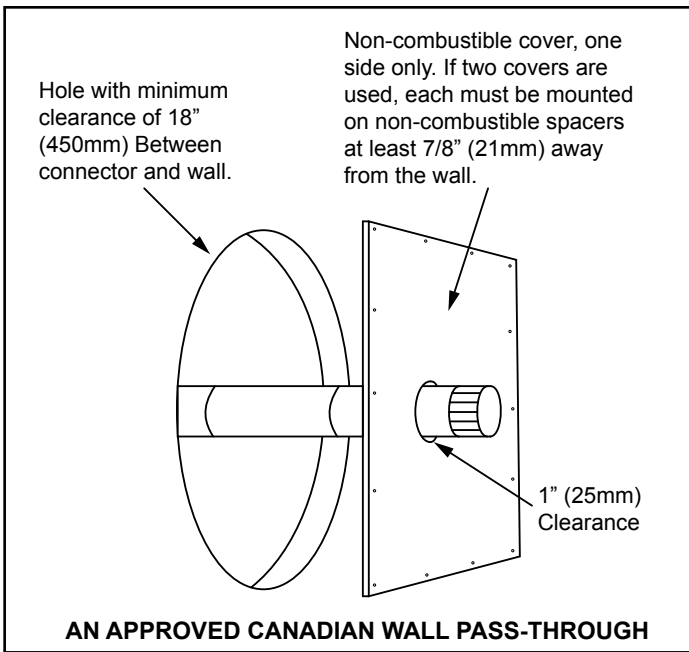
C. Wall Pass-throughs

Depending on your local building codes, and the pertinent provincial or national codes, there are several choices for passing the chimney connector safely through a wall. Before beginning your installation, contact local officials, and also the chimney connector and chimney manufacturer for specific requirements.

Canada. Three methods are approved by the Canadian Standards Association. The diagram on the next page shows one method requiring an 18" (450mm) air space between the connector and the wall. It allows use of one or two covers as described in the diagram. The two other methods are described in detail in the current issue of CAN/CSA B365, the national standard.

United States In the U.S., the national code is NFPA 211. While many localities adopt this standard, be sure to check with local authorities before beginning your installation.

The NFPA (National Fire Protection Agency) permits four methods for passing through a combustible wall. A commonly used method to pass through a wall directly to a masonry chimney is to clear a minimum 12" (300mm) around the entire chimney connector, and fill it with brick masonry which is at least 3.5" (90mm) thick. A fireclay liner, minimum 3/8" (9mm) wall thickness must run through the brick wall to the chimney liner (but not beyond the inner surface of the liner). It must be cemented in place with refractory cement. This method is illustrated on the next page. For details on the other three options, refer to the most recent edition of the NFPA 211 code.



D. The Chimney

This unit must be installed into a chimney approved for use with solid-fuel appliances. In the U.S., it must be connected to (1) a prefabricated chimney complying with the requirements for Type HT chimneys in the Standard for Chimneys, Factory-Built, Residential Type and Building Heating Appliances, UL 103, or (2) a code-approved masonry chimney with a flue liner.

In Canada, this unit is listed for use with prefabricated chimneys tested and listed to the high temperature (650°C) chimney standard, ULC S-629, or with a code approved masonry chimney.

For mobile homes, (US only) it must only be installed with a factory built stainless steel chimney. The chimney system should include all required installation components, such as vapor barriers and roof flashing, as tested for use in mobile homes.

The minimum recommended height for any chimney is 16 ft. (4.8m) above flue collar height. For non-mobile home installations, a round flue (either masonry or approved prefabricated), of either 6" (150mm), 7" (180mm) or 8" (200 mm) may be used. For square or rectangular masonry chimneys, nominal sizes of 8" x 8" or 7" x 12" (200mm x 200mm, 180mm x 300mm) may be used.

Codes require that solid-fuel chimneys extend 3 ft. (0.9m) above the highest point at which they exit from the roof. Then, the chimney must extend 2 ft. (0.6m) above the highest point within a 10 ft (3m) radius. Thus, the 3 foot, 2 foot, 10 foot rule:

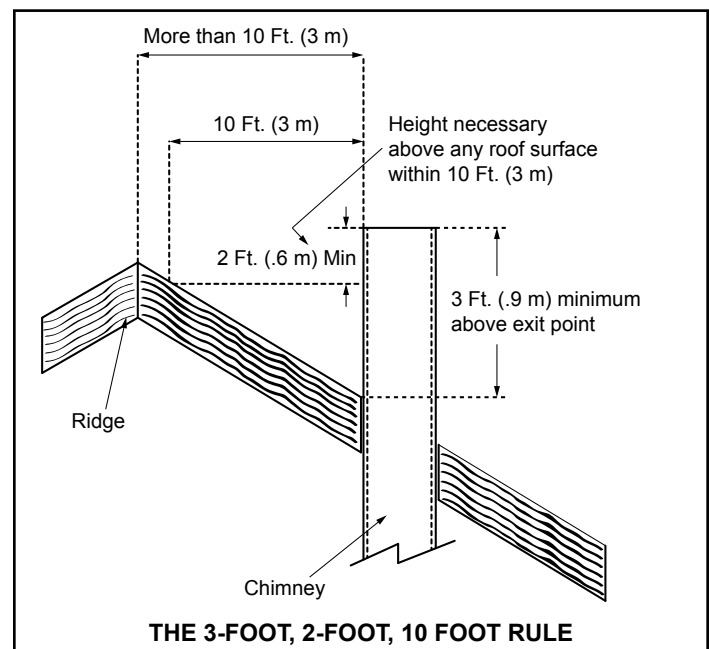
3ft. - Above roof exit point

2ft. - Higher than anything within-

10ft. of the chimney.

Do not connect this unit to a chimney flue servicing another appliance.

NOTE: The restriction of not venting more than one appliance to the same flue applies to the U.S. specifically. While it is not recommended that you use the same chimney for more than one appliance, in *Canada* certain exceptions may be made. Be sure to contact your building code inspection official to see if this option is allowed in your area, and to find out the specific requirements for such an installation.



Existing Masonry Chimneys

If you plan on using a pre-existing masonry chimney, have it thoroughly inspected and cleaned. Any faults which make the chimney unsafe and unusable must be repaired prior to use. These can include improper height, structural defects, blockages, inadequate clearance to combustibles, unsealed openings into other rooms of the house, signs of creosote or smoke leakage, a loose or absent clean-out door, or absence of a liner.

Venting to a Masonry Chimney

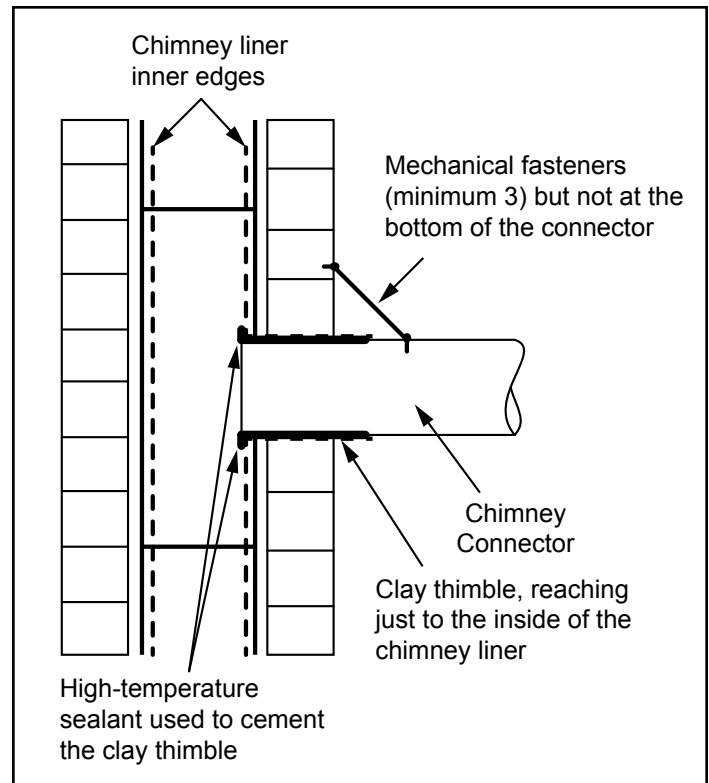
When connecting to a masonry chimney, several provisions are standard. First, whether the chimney connector is vented to the chimney through a thimble or a breech pipe, neither must pass beyond the inner surface of the chimney liner, and both must be firmly cemented in place with refractory cement. (A thimble is a masonry pipe which is inserted through the chimney wall, and is frequently the preferred method; a breech pipe is a piece of steel pipe used the same way.) In Canada, a breech pipe has ridges or protrusions to lock it firmly into the refractory cement. In either case, the chimney connector vents to the chimney through the thimble or breech pipe.

Using a thimble, the connector slides completely inside the masonry to the inner edge of the flue liner, and may be easily removed for chimney and connector inspection. A breech pipe must extend at least 2" (50mm) into the room, so the connector can be attached with sheet metal screws.

Venting to a Masonry Fireplace Chimney

In some situations, a code compliant chimney originally used for a masonry fireplace may be used. In addition to the requirements found in the previous paragraphs, it is important to be aware that all clearances must be met, including those from the chimney connector to combustibles. Do not forget to include floor protection in your plans. (See Clearances and Floor Protection in this section.) Since many fireplaces have exposed wooden mantels and trim, pay special attention to the clearances necessary to these materials.

If your fireplace chimney is behind a combustible wall, you must use an approved wall pass-through system to gain access to the masonry chimney. The chimney connector must enter the chimney at a place where it is lined, and the fireplace must be made inoperable. For example, you might remove the damper, replacing it with a secure, airtight, noncombustible seal (removable for inspection); this also satisfies the requirement that no room air must be allowed to enter the chimney.



Installing to a Prefabricated Chimney

When venting using a prefabricated chimney, be sure to contact local building code authorities, and to follow the manufacturer's instructions *exactly*. Use only the manufacturer's parts; do not use makeshift installation techniques. All prefabricated chimneys must be tested to either the U.S. or Canadian high-temperature standards, UL 103 or ULC S629.

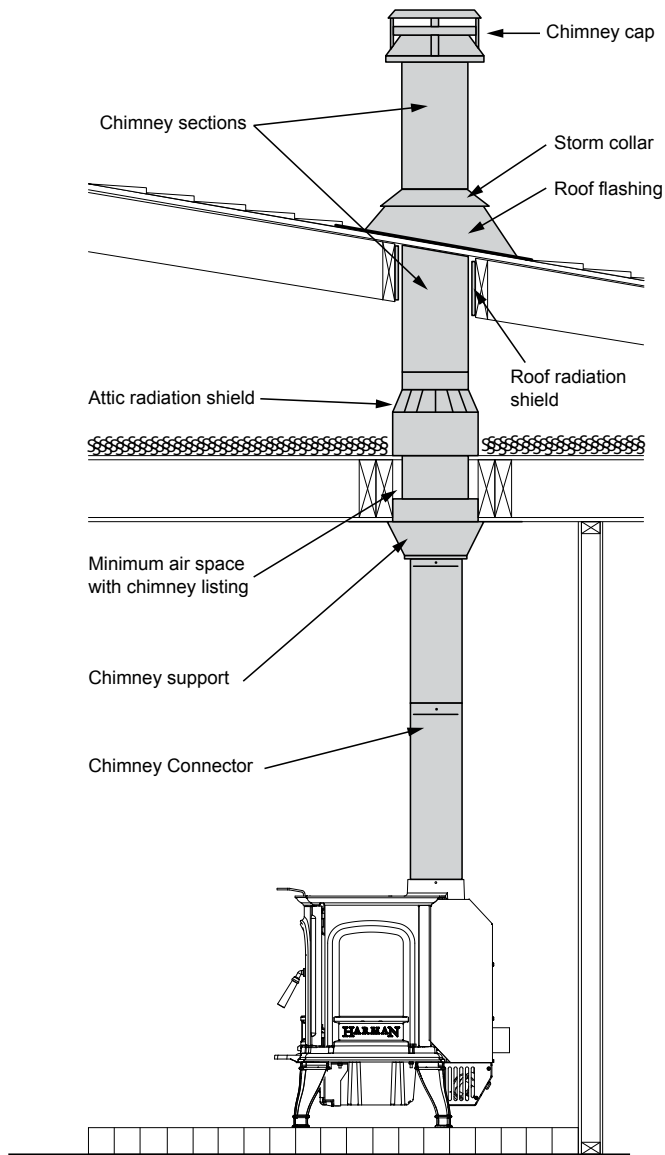
Other Considerations

Do not burn any fuel other than dry cordwood. Never use highly volatile substances in your stove, such as gasoline, which could cause an explosion.

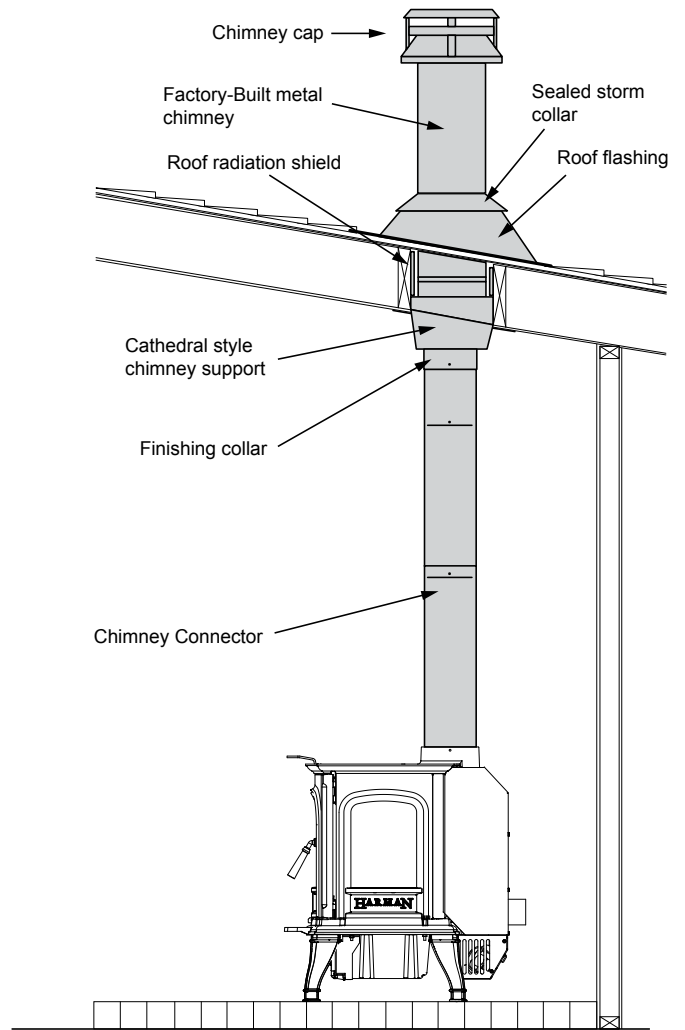
When solid fuels are burned completely, they produce water and carbon dioxide. However, in long slow burns, a substantial amount of carbon monoxide may be produced. If allowed to build up, carbon monoxide (which is odorless) can prove fatally poisonous. Proper ventilation and draft will prevent this from happening. If you smell smoke, thoroughly ventilate your dwelling, and contact your dealer for service.

Other causes of poor ventilation or draft are icing, exhaust fans, a blocked outside air inlet, and room air starvation. If your stove is sluggish and you get occasional odor, check these possibilities and increase the air flow in your home.

Standard Ceiling Installation with Factory Built Chimney

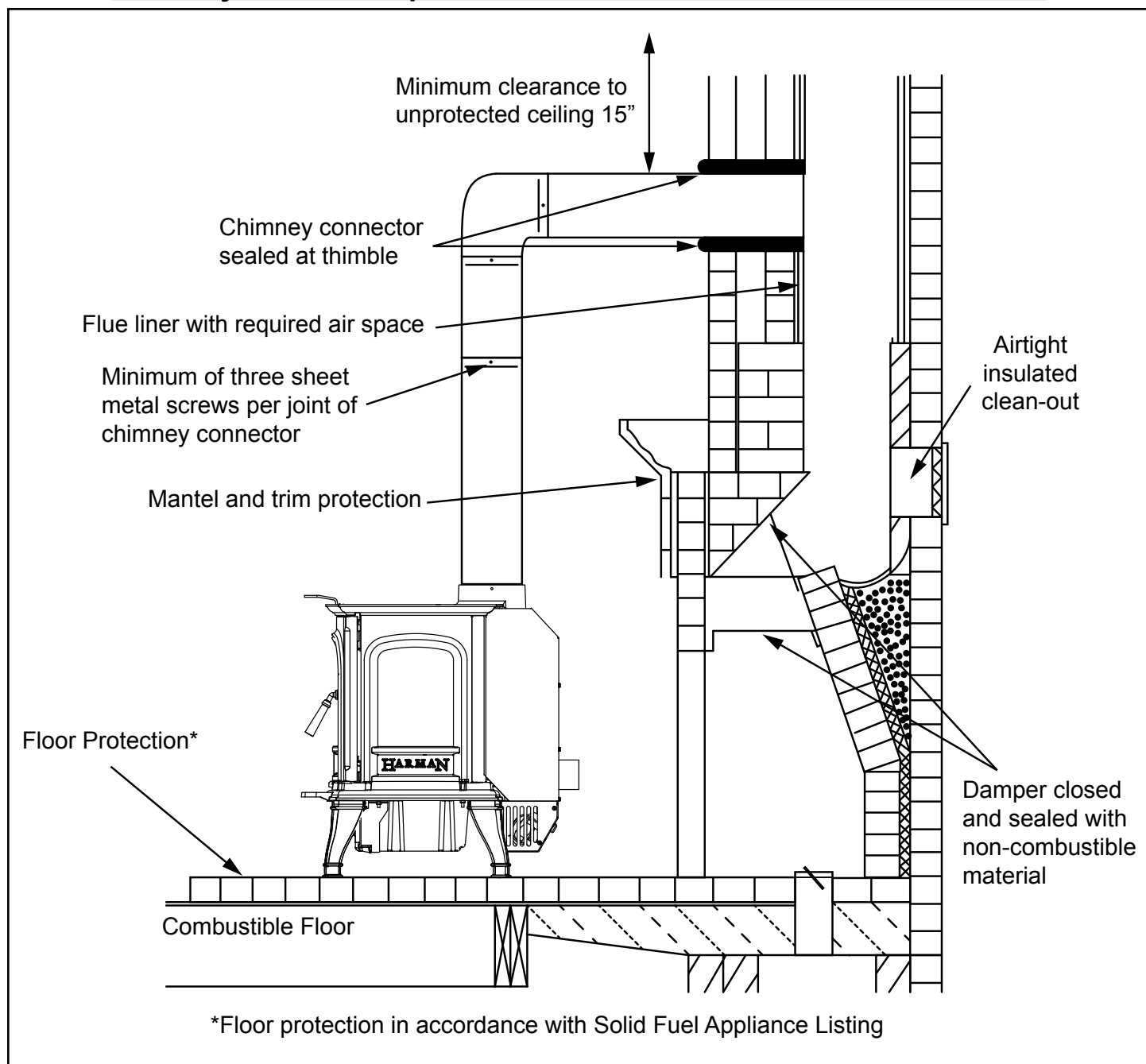


Cathedral Ceiling Installation with Factory Built Chimney



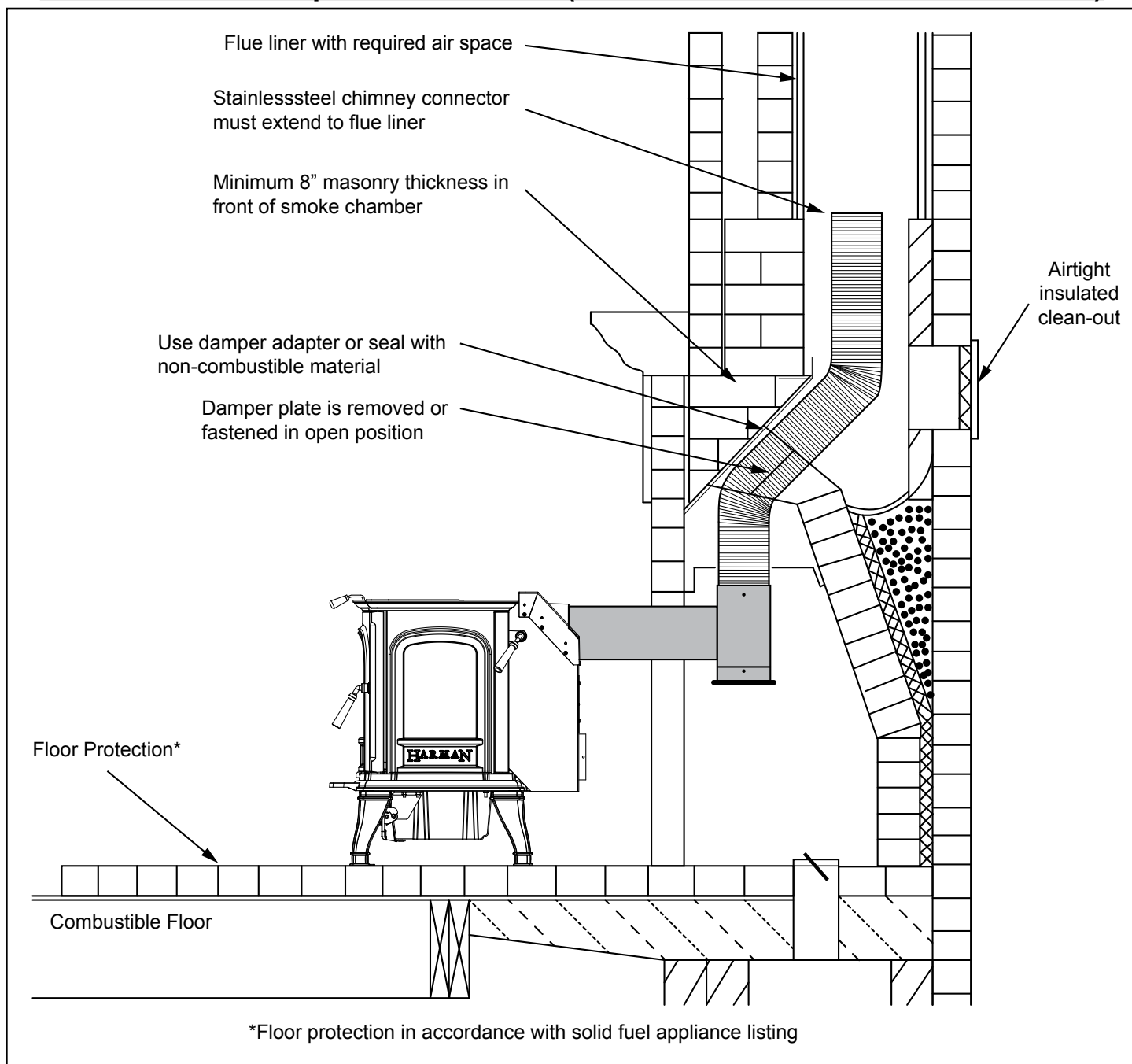
The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

Chimney Breach Fireplace Conversion with Non-Combustible Wall



The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

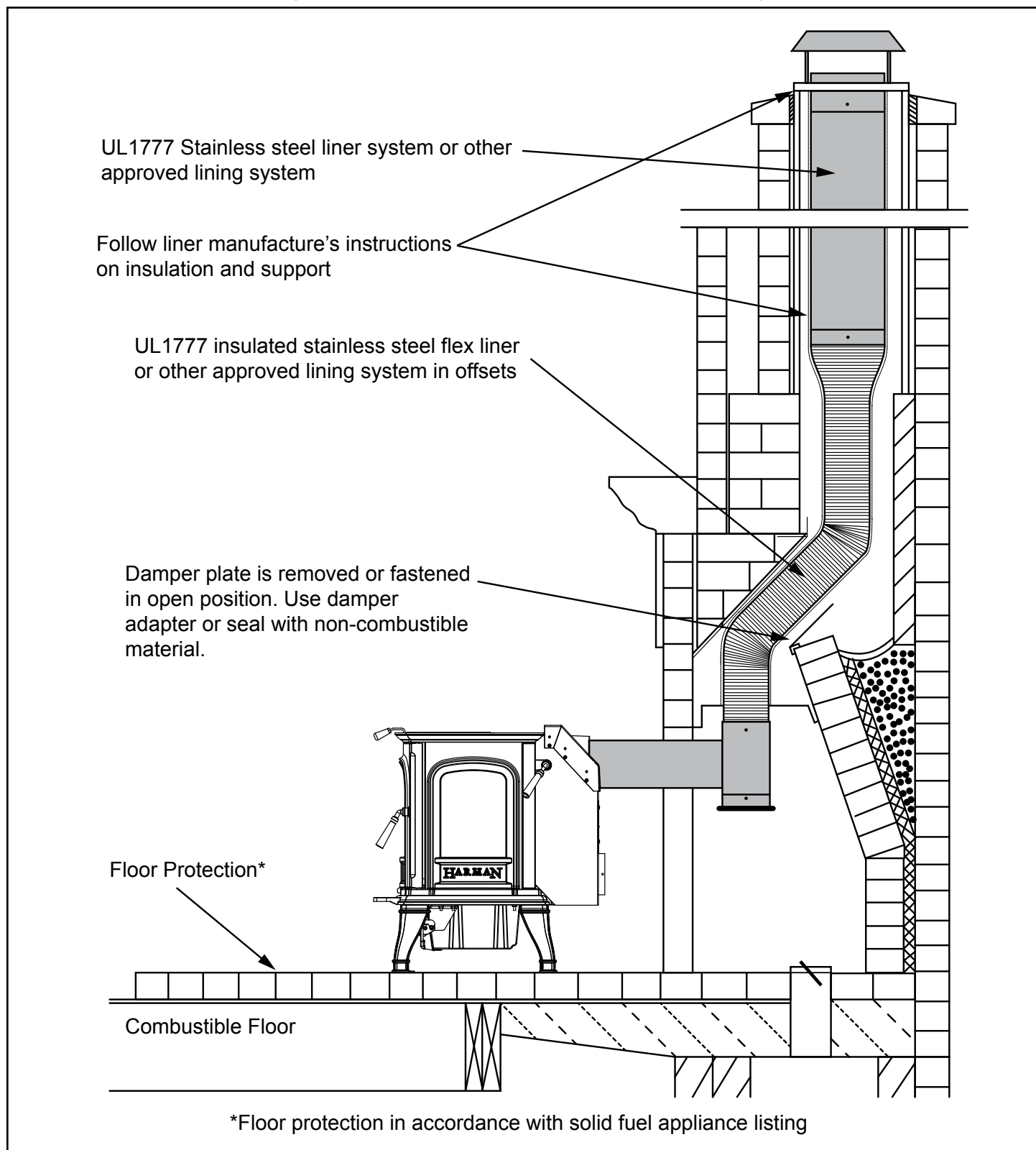
Oakleaf to Flue Fireplace Conversion (Minimum NFPA 211 Liner Connection)



NOTICE: When using rear flue configuration, a new upper rear heat shield, #1-00-797066 must be installed in place of the existing shield.

The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

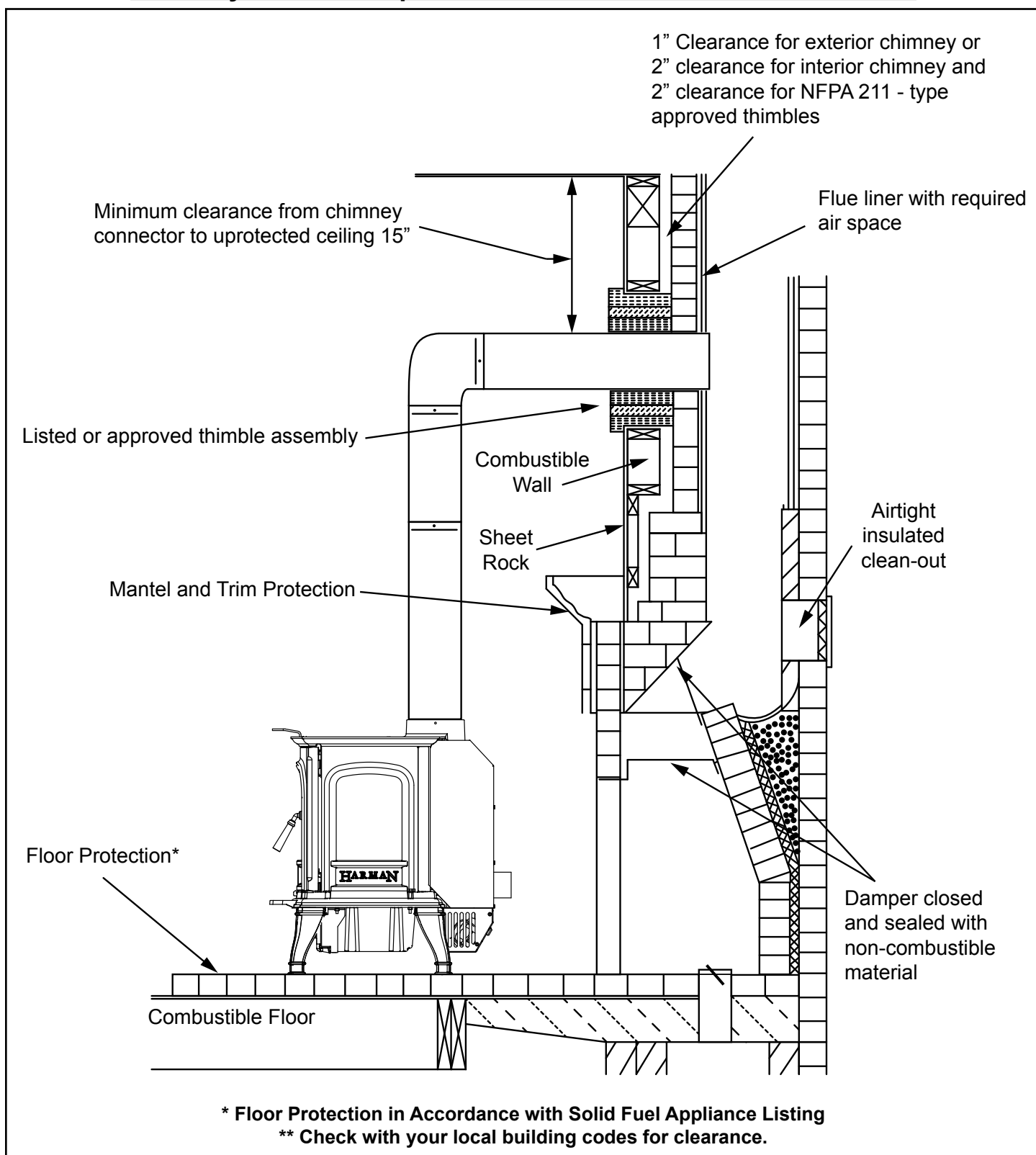
Full Relining Fireplace Conversion: Freestanding Appliance



NOTICE: When using rear flue configuration, a new upper rear heat shield, #1-00-797066 must be installed in place of the existing shield.

The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

Chimney Breach Fireplace Conversion with Combustible Wall



The Chimney Connector Shall Not Pass Through an Attic or Roof Space, Closet or Similar Concealed Space, a Floor or Ceiling.

6 Mobile Home

A. Mobile Home Installation

Mobile home approval - U.S. only.

DO NOT INSTALL IN A MOBILE HOME IN CANADA.

1. An outside air inlet must be provided for combustion air, and must remain clear of leaves, debris, ice, and/or snow. The outside air path must be unrestricted while the appliance is in operation.
2. The combustion air intake system must be of metal construction. It must permit zero-clearance to combustible materials, and contain a rodent screen.
3. The appliance must be secured to the mobile home structure by bolting it to the floor. There are brackets included, you'll need to secure with the proper length lag bolts.
4. The appliance must be properly grounded to the frame of the mobile home using a minimum of 8 AWG copper solid or stranded, insulated or bare wire or equivalent.
5. All clearances to combustibles and floor protection requirements must be followed.
6. Follow the vent manufacturer's instructions when installing in a mobile home.
7. Installation shall be in accordance with the Manufactured Home and Safety Standard (HUD) CFR 3280, Part 24
8. The appliance must never be installed in a room designated for sleeping.



WARNING

**INSTALLATION MUST COMPLY WITH
MANUFACTURED HOME AND SAFETY STANDARD
(HUD), CFR 3280, PART 24.**



WARNING

**NEVER INSTALL IN A ROOM INTENDED FOR
SLEEPING.**



CAUTION

MAINTAIN STRUCTURAL INTEGRITY OF MOBILE HOME:

- **FLOOR, WALL, CEILING AND/OR ROOF.**

DO NOT CUT THROUGH:

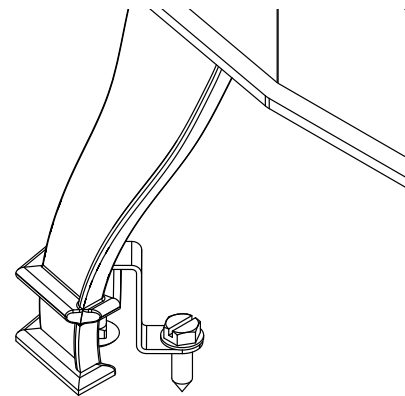
- **FLOOR JOIST, WALL STUDS, OR CEILING TRUSSES.**
- **ANY SUPPORTING MATERIAL THAT WOULD AFFECT THE STRUCTURAL INTEGRITY.**



CAUTION

NEVER DRAW OUTSIDE COMBUSTION AIR FROM:

- **WALL, FLOOR OR CEILING CAVITY.**
- **ENCLOSED SPACE SUCH AS AN ATTIC OR GARAGE**



This diagram shows the bracket that was used to bolt the stove to the pallet. Use at least two of these brackets for securing the appliance through the floor in a mobile home installation. The bracket will slip over the top of the leveling adjuster. The installer will need to determine and obtain the properly sized lag bolts.

7 Appliance Set-Up

A. Outside Air Attachment

Parts and Supplies Needed from Local Hardware Store: 1 piece of 4 in. (4.5 in. OD) aluminum flex dryer vent (4 in. rigid aluminum duct is not a suitable substitute and will not work) x needed length, 1 rodent screen, aluminum tape and a trim ring for finished around the outside air pipe inside the home.

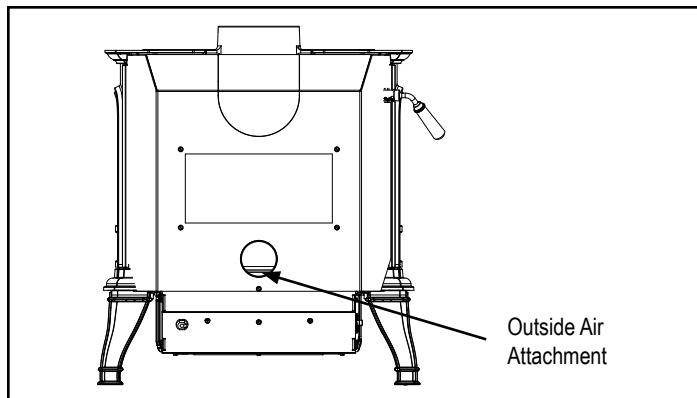
1. Determine an appropriate hole location, through the wall. Be sure there are no studs or other supporting members. Also ensure there are no electrical wires or plumbing contained within the wall.
2. Make the hole through the exterior wall using a hole saw or reciprocating saw. You'll want the hole to be just slightly larger than the metal flex pipe.
3. Attach the rodent screen to one end of the flex pipe, and insert it through the wall until the back of the screen cover is against the outside surface.
4. Hold the flex pipe in place to make an accurate determination of the length needed. Cut the flex pipe to length.
5. Slide the trim ring onto the flex for the inside wall portion.
6. Slide the other end of the metal intake flex pipe into the stub on the rear of the Oakleaf and secure it with aluminum tape. This air intake will supply outside air for the secondary combustion within the FireDome.
7. Secure the trim ring in place for finishing the inside wall area.
8. Seal around the rodent screen on the exterior wall, using silicone caulking.



CAUTION

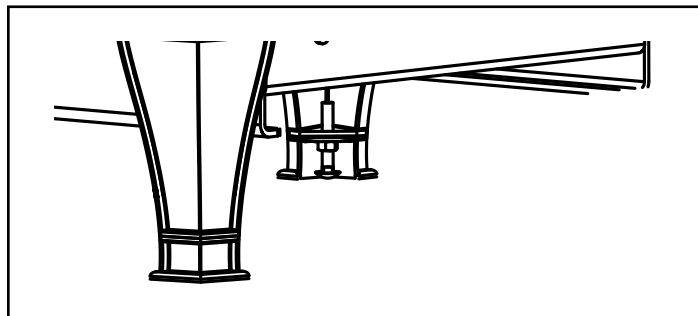
NEVER DRAW OUTSIDE COMBUSTION AIR FROM:

- WALL, FLOOR OR CEILING CAVITY.
- ENCLOSED SPACE SUCH AS AN ATTIC OR GARAGE



B. Leveling the Appliance

To adjust the leveling bolts, you must first loosen the locking nut. Turn the leveling bolt to the desired position, and tighten the locking nut against the cast iron leg.



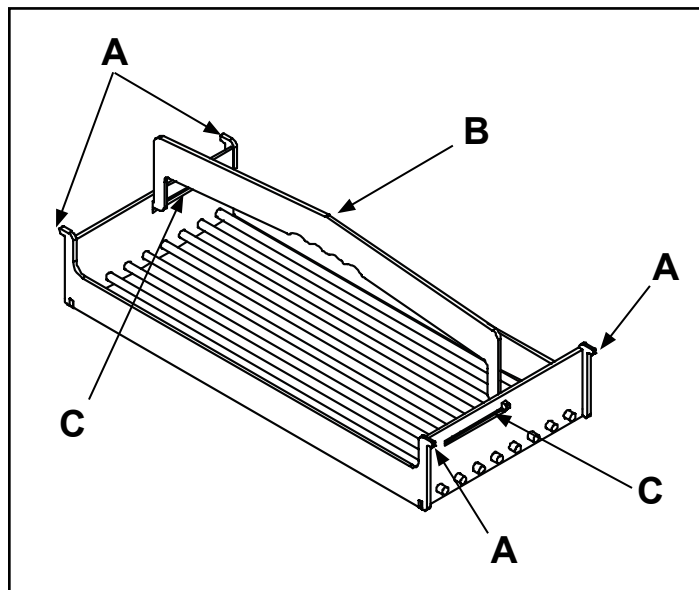
C. Optional Cooking Grill

The optional cooking grill #1-00-08121 installs easily in the top load opening of the Oakleaf.

The grill handle (B) fits in the slots (C) on each side. To remove the handle, lower and turn.

When installed, the grill hangs in the opening by the hooks (A).

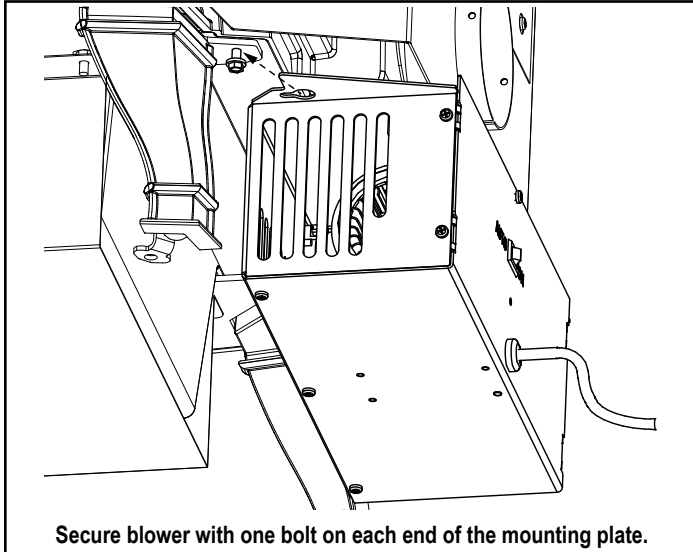
When grilling, you'll want to keep the fire size small and the bypass damper in the open position. Depending on the grilling being done, you may get grease dripping on the glass causing it to become dirty and obstructed. When you burn your next hot fire, the glass will likely clean itself.



D. Optional Blower Installation

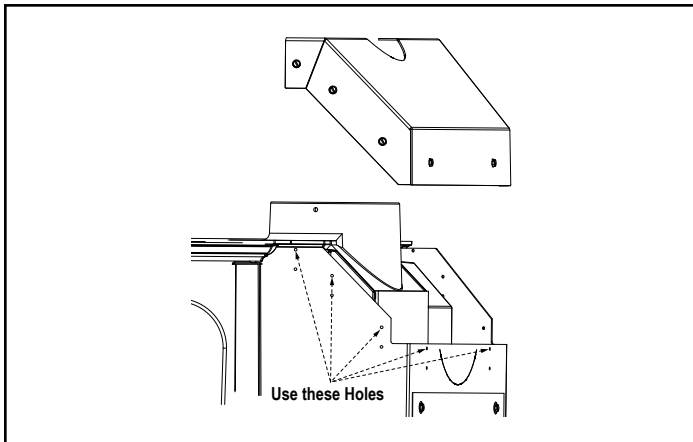
The optional blower kit #1-00-797032 installs easily to the rear of the Oakleaf.

Hold the blower assembly into place and secure it with the two bolts provided. You'll need a 3/8" wrench or socket to tighten the bolts.



Notice: When installing the optional blower, the upper rear shield must be moved upward to create the air passage.

Loosen the eight screws to remove the rear shield. Raise the shield to the upper set of holes, re-install the shield, and tighten the screws.



WARNING

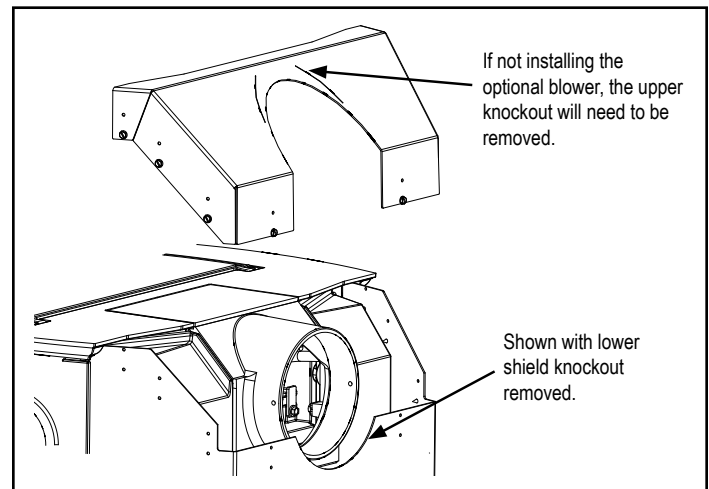
ROUTE POWER CORD AWAY FROM THE APPLIANCE. DO NOT RUN THE CORD UNDER OR IN FRONT OF THE APPLIANCE.

Plug the blower into a properly grounded electrical outlet.

You can turn the blower on at any time using the rocker switch on the rear of the blower housing. Setting the switch to "AUTO" will keep the blower off until there is a significant amount of heat from the stove. In this setting, the blower will also shut off when the stove cools. Keep the blower on low speed or off during low fires. As you get out of the low burn range, the speed can be set wherever desired, or kept off.

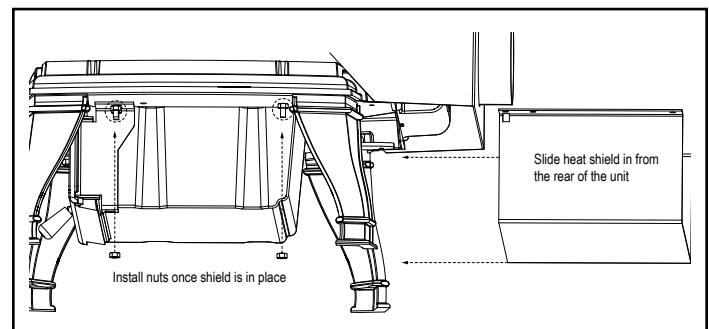
E. Optional Rear-vent Rear Shield

Whenever a rear vent configuration is used, the upper rear heat shield, #1-00-797066 must be purchased and installed, to accommodate the flue collar. There are eight screws that secure the existing shield. You'll need to break away the tabbed portion of the lower shield flue cut-out. Remove the screws from the top-vent shield and install the rear vent shield in its place. Height adjustment for blower use is done the same as with the top-vent shield in place. See Section 7D for detailed instructions.



F. Bottom Heat Shield

Part #1-00-797058 **must** be installed whenever the Oakleaf is installed on a protected combustible floor. The shield installs on four bolts that are protruding downward from the base of the stove body. Slide the shield under the stove from the back, as this is the only way it will fit. Lift into place guiding the bolts through the holes in the shield and secure with the nuts that are included with the shield.



8 Operating Instructions



CAUTION

Approved for use with wood fuel only. The use of any other fuel will void the product warranty and may cause damage to the appliance and/or your home.



WARNING

"NEVER USE GASOLINE, GASOLINE-TYPE LANTERN FUEL, KEROSENE, CHARCOAL LIGHTER FLUID, OR SIMILAR LIQUIDS TO START OR "FRESHEN UP " A FIRE IN THIS HEATER. KEEP ALL SUCH LIQUIDS WELL AWAY FROM THE HEATER WHILE IN USE".

A. Fuel Specifications

Select only **dry, seasoned wood**. Wood for burning should never be exposed to rain or extremely damp conditions. Hardwoods are favored because they are heavier and contain more heating capacity (BTU's) per load than do softwoods. Fuel wood should be split and stored under cover for "seasoning" - at least a year is recommended. Your stove is not an incinerator - do not burn garbage, painted or treated wood, plastic, or other debris.

Keep the area around the stove free from clutter. Keep all combustibles, including fuel, beyond the code-required clearance distance (48" or 1215mm in the U.S., 1525mm or 60" in Canada). Never store fuel in front of the stove where it could interfere with door operation, safe loading, and ash removal.



WARNING

BURNING COLORED PAPER, CARDBOARD, SOLVENTS, TRASH AND GARBAGE OR ALTERING THE STOVE FOR HIGHER HEAT OUTPUT MAY CAUSE DAMAGE TO THE STOVE AND COULD RESULT IN A HOUSE FIRE. USE ONLY APPROVED FUELS AND FOLLOW ONLY THESE OPERATION GUIDELINES.



CAUTION

ALWAYS WEAR FIRE RETARDANT GLOVES WHEN OPERATING THE STOVE.

SAFETY NOTICE

IF THIS APPLIANCE IS NOT PROPERLY INSTALLED, OPERATED AND MAINTAINED, A HOUSE FIRE MAY RESULT. FOR YOUR SAFETY, FOLLOW INSTALLATION DIRECTIONS. CONTACT LOCAL BUILDING OR FIRE OFFICIALS ABOUT RESTRICTIONS AND INSTALLATION INSPECTION REQUIREMENTS IN YOUR AREA.

B. General Operating Information

Draft

Before you install and operate your Oakleaf wood stove, please read the entire contents of this manual. Pay particular attention to the explanation of draft and its effect on stove performance in the Installation section. By following the installation and operating guidelines, you will ensure proper draft and gain maximum efficiency and enjoyment from your stove.

Do not alter the position of the andirons. Building a fire too close to the glass may cause damage to the glass, creating a serious risk of fire and property damage.



WARNING

DO NOT BURN GARBAGE OR FLAMMABLE LIQUIDS SUCH AS GASOLINE, NAPTHA, OR ENGINE OIL.

Doors

Your stove has a large glass-paneled door for loading and fire viewing, a separate smaller door for removing ashes and a top loading door.

Front Door

Before opening, always check for wood, embers, or ash that may be ready to fall out of the door.

To open the glass door, open the bypass damper first, then turn the handle clockwise and pull out; to close the door, push the door closed with the handle in the open position, then turn, counter-clockwise, to engage the latch.

Ash Door

To open the ash door, lift up the handle and pull out. Close the door by pushing in and pushing the handle all the way down.

Top Load Door

To open the top load door, open the bypass damper and then lift to open the top load door.

All doors must be closed while the stove is in normal operation, and the gaskets routinely examined for wear and replaced when necessary. Good door seals are important for maintaining control of the stove. Never operate with the ash door open. Operating the stove with the ash door open, or with a door inadequately sealed, could create a serious overfiring condition (discussed later in this section).

The glass used in your Oakleaf is manufactured to exact standards to withstand the high heat of the fire, but like all glass, it must be treated with common sense and care. Never abuse the glass by slamming the door shut or striking the glass with a heavy object. If the glass is broken or damaged, do not operate the stove until it has been replaced

(See instructions in the Maintenance section.)

Grates

The Harman Oakleaf's unique grate system consists of one flat bottom grate, and two front andirons. The bottom grate has slots which allow the ash to fall into the ash pan by passing a poker back and forth across the grate. The andirons keep the fuel from coming into direct contact with the glass, and keep hot coals and embers from spilling out while reloading. Never build a fire directly against the glass.

The grates and andirons must remain in place at all times. Do not tamper with or change the configuration of this grate system.

C. The Combustion Process

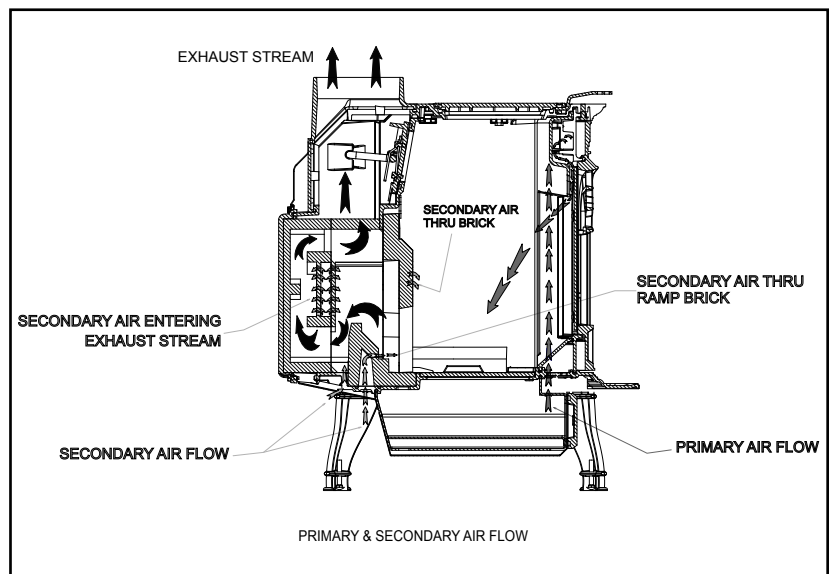
Combustion in the Harman Oakleaf is precisely controlled and is best explained in two parts.

During a wood fire, combustion air enters at the bottom front of the stove where it travels upward through channels at either side of the front door. From the manifold located above the front door, it is directed into the firebox as a sheet of air flowing between the glass and the wood. This concept helps to keep the glass clean, while providing the oxygen needed to sustain burning. This is what is known as "Primary Combustion".

Additional air enters at the bottom rear of the stove body. Some of this air enters through holes in the rear bricks where it is used to revitalize the fire at the rear of the firebox. The remainder is delivered into the "Firedome" combustion package where the "Secondary Combustion", or re-burning of the smoke, occurs.

During combustion, the burning of wood proceeds through several stages. The initial or evaporation stage is where the moisture in the wood is driven off in the form of steam. A second stage is where the volatile gases contained in the wood are released and burned. This represents most of the wood's heating capacity. The final stage is the charcoal stage where the charcoal burns the remaining heat content in the wood fuel. Ash remains after the burning is complete. Within the primary firebox two or more of these stages of combustion are occurring at once.

Always be sure to provide adequate ventilation to the room where the appliance is located, to prevent air starvation. In tight construction, consider installing outside air to the appliance.

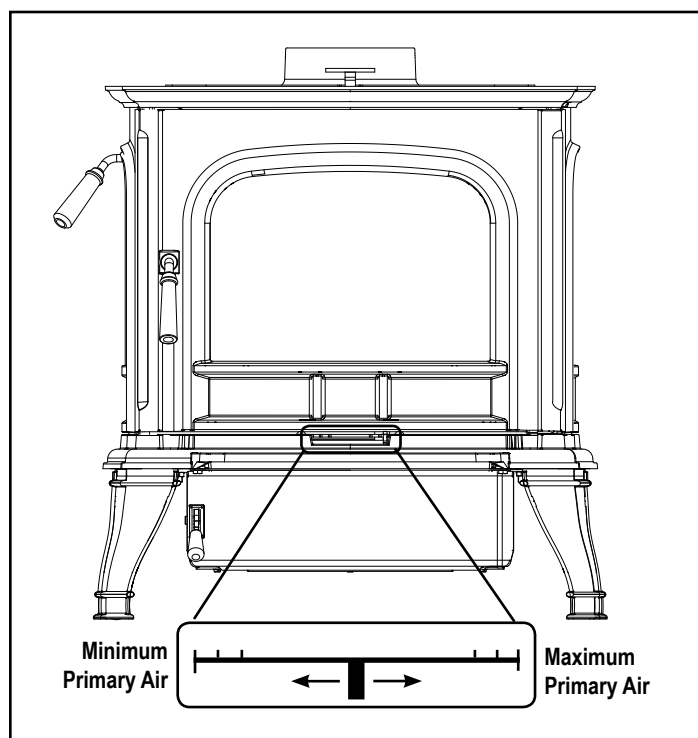
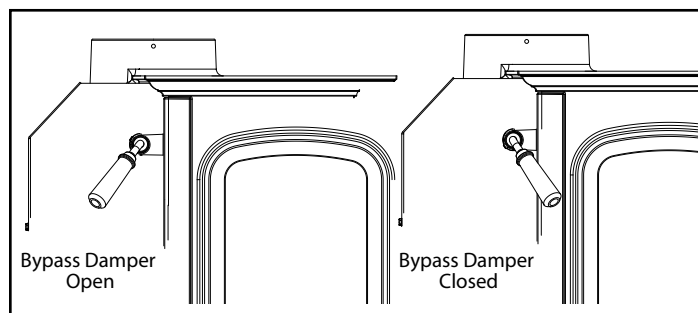


D. User Controls

Two important controls - the damper bypass handle and the air control lever regulate the operation and output of the stove.

To open the top or front loading door, you must open the damper bypass, or smoke will come in the room. In this mode of operation the combustion gases go directly from the main combustion chamber to the flue collar and exit into the chimney.

NOTE: The bypass damper must be open for smokeless loading. Open the bypass damper by turning the handle clockwise while facing handle.



The air control lever is located directly below the load door. Sliding this lever allows you to vary the amount of air to the fire, creating a range of heat outputs. The lowest heat output setting is to the left, and the highest is to the right. The notches are provided as a reference for your comfortable heat settings. Do not, under any circumstances, alter the configuration or operation of the air control lever.

For low burn, slide the air control to the left. For medium burns, use notches 1 to 2. Maximum heat is attained with the air control all the way to the right. Do not burn the stove continuously at the maximum setting. If maximum heat is required day after day, the stove is too small for the area you are trying to heat.

If your wood is not seasoned long enough or is high in moisture content, you may need to adjust the primary air slightly higher to sustain a low burn rate with the cleanest possible exhaust.

E. Before Your First Fire

- Be sure the appliance is installed properly and that all safety requirements have been met. Pay particular attention to the clearances to combustibles, floor protection and the venting instructions.
- Test your smoke detector(s) and CO detector(s) to the specifications of the manufacturer.
- Double check that the ash pan and internal firebox are empty.
- Be sure to read this entire manual.

DO NOT OVERLOAD THE APPLIANCE. DOORS MUST BE CLOSED WHEN IN OPERATION

F. Building and Maintaining a Fire

Begin with the bypass damper open, and the air control lever at the maximum setting, all the way to the right. Be sure the ash pan door is closed and latched.

Start with a bed of crumpled paper and kindling sized about finger width; place several 1" - 2" (25 - 50mm) split pieces of dry wood on top of the kindling, followed by a few 2" - 3" (50 - 80mm) split pieces. Lay the wood in a crossed pattern to allow maximum air flow. Ignite the paper and close the loading door(s). Allow this start-up fire to burn for a few minutes, keeping the bypass damper open. Add about five more pieces of wood in the 2 to 3 inch (50 - 80mm) size range, making sure that the fuel bed is all the way across the firebox and staggered to allow airflow. Close the door and allow this loading to burn a few minutes.

Add increasingly larger pieces of wood to the fire until you have a thick bed of hot embers, approximately 2 to 3 inches deep at the back of the grate and at least an inch deep at the front. **You must have this charcoal bed established before you close the bypass damper.**

Providing you have the charcoal bed described, close the bypass damper by pulling the handle toward the front of the stove.

This will begin the highly efficient mode of operation where the exhaust gases get re-burned in the secondary combustion package. If you cannot achieve a charcoal bed within the first 15 to 20 minutes, your wood is likely too wet, and you may need to burn the fire longer and/or hotter to compensate for the extra energy needed to drive out the moisture. If, after five minutes of burning with the damper closed, smoke is visible coming from the chimney, you probably do not have the proper coal bed. Open the bypass damper and continue with the process until a significant coal bed is formed.

Install a magnetic probe stack thermometer 24" above the flue collar of the unit. With the thermometer at this location, the following guidelines can be helpful if followed; however, remember these are only rough guidelines and a myriad of other factors contribute to the operation of the Harman® Oakleaf wood stove. While establishing a coal bed, prior to engaging the Firedome, a 2-3" coal bed and a stack temperature of 900°F - 1100°F indicate that the stove is normally ready for Firedome mode. With the Firedome engaged, temperatures of 500°F – 800°F indicate the unit is burning properly and no adjustment is necessary. Temperatures below 400°F with wood remaining in the firebox indicate the Firedome system is not working and the stove is likely smoking. Open the damper, and allow the unit to burn with the damper open for 10-15 minutes to reheat before attempting to reengage the Firedome system. Lastly, temperatures above 1000°F with the Firedome engaged indicate the unit is being over-fired. Unit damage may occur from operating the unit at stack temperatures above 1000°F.

If, after five minutes of burning with the damper closed, smoke is visible coming from the chimney, you probably do not have the proper coal bed. Open the bypass damper and continue with the process until a significant coal bed is formed.

Always remember to open the bypass damper when you are loading, this allows the exhaust gases to pass directly into the flue outlet and reduces the chance of smoke spillage into the room.

Reloading: Once you have prepared and maintained a thick charcoal bed, and the secondary combustion is established, you should be able to reload the stove at any time by simply opening the bypass damper, then the load door, adding fuel and closing the door then the damper. This depends on coal bed size, load size and moisture content of fuel.

Removing Ashes: Before reloading, empty the ash pan (remember to close the ash door while emptying the pan). The ashes should be the coolest at this time. Remove ashes from the fire chamber periodically by raking a poker across the bottom grates.

Excessive ash buildup can prevent proper venting of exhaust gases. Do not allow the ash pan to over-fill. Ash buildup between the ash pan and the bottom of the grate can cause the grate to overheat and wear out prematurely.

The Oakleaf is designed to provide access to the ash pan without the need for opening the main door. Before opening the ash door and removing the ash pan, open the bypass damper. Wearing heavy protective gloves, open the ash door and remove the ash pan by pulling it forward by the handle. Close the ash door and damper bypass before taking the ashes outside for safe disposal.

Ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled.

Never use the ash disposal container for other trash. Wood ash can be added to your garden or compost.



CAUTION

THE STOVE IS HOT WHILE IN OPERATION. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. CONTACT MAY CAUSE SKIN BURNS.

NEVER LEAVE THE STOVE UNATTENDED IF EITHER THE ASH OR LOAD DOOR IS OPEN. OVERFIRING MAY RESULT.

RISK OF EXCESSIVE TEMPERATURES. KEEP ASH DOOR CLOSED DURING FIRING OF THE HEATER.

Avoid overfiring your stove. Overfiring is a potentially hazardous situation which can lead to overheating of combustible materials nearby, damage to the stove, and in extreme cases, cause a fire. Overfiring is caused by: 1. Too much air flowing through the stove too quickly. 2. You may have positioned the primary air control lever too far to the right. 3. Inadvertently leaving the damper open or 4. Not keeping up with routine maintenance, such as checking door gaskets for wear.

Overfiring results in excessive fuel consumption, and may cause parts of the stove or chimney connector to glow red. If you notice signs of overfiring, reduce the air supply to the fire, and review the Maintenance section in this manual.

In the event of a chimney fire, call your local fire department; make sure everyone is safely out of the house. Reduce the air intake of the stove as much as possible using the air control lever; close the bypass damper to further restrict air flow. Do not throw water on the fire; this can cause stove damage and create an even more dangerous situation. Have your chimney professionally cleaned and inspected before resuming burning in your stove.

As you begin to operate your stove at higher temperatures, you will notice a "hot" or unpleasant smell; this is just the paint going through the curing process, and will disappear after a few fires.

9 Service & Maintenance

Solid fuel burning space heaters must be cleaned regularly, as soot, ash and creosote may accumulate.

When properly maintained, your wood stove will give you many years of trouble-free service. **Contact your dealer** to answer questions regarding proper operation, trouble-shooting and service for your appliance. Visit www.harmanstoves.com to find a dealer. We recommend annual service by a qualified service technician.

A. Creosote - Formation and Need For Removal;

When wood is burned slowly, it produces tar and other organic vapors which combine with expelled moisture to form creosote. The creosote vapors condense in the relatively cool chimney flue of a slow burning fire. As a result, creosote residue accumulates on the flue lining. When ignited, this creosote makes an extremely hot fire. The chimney and chimney connector should be inspected at least once every two months during the heating season to determine if a creosote buildup has occurred. If creosote has accumulated, it should be removed to reduce the risk of a chimney fire.

If you experience a chimney fire; Close the air control and bypass damper and notify the fire department. Do NOT apply water to the fire, in the firebox or in the chimney. Do not operate the appliance until the chimney and connector have been inspected and approved by a chimney professional.

Do not burn any fuel other than wood, such as charcoal, which can cause increased carbon monoxide production or overfiring. Never use highly volatile substances in your stove, such as gasoline, which could cause an explosion.

When solid fuels are burned completely, they produce water and carbon dioxide. However, in long slow burns, a substantial amount of carbon monoxide may be produced. If allowed to build up, carbon monoxide (which is odorless) can prove fatally poisonous. Proper ventilation and draft will prevent this from happening. If you smell smoke, turn up the air control lever setting, and thoroughly ventilate your dwelling. During future burns, be careful not to overload the stove with fuel, so you will not be tempted to constantly operate at a low air control setting.

Other causes of poor ventilation or draft are icing, exhaust fans, a blocked outside air inlet, and room air starvation. If your stove is sluggish and you get occasional odor, check these possibilities and increase the air flow in your home.

Seasonal cleaning

At least once per year, the stove, venting connectors and chimney should be thoroughly cleaned. If the areas are found to have an excessive build up of ash or creosote, it is recommended to increase the frequency of the cleaning. This will extend the life of the appliance and its components. A vacuum specifically designed for ash is preferred, however a standard shop-style vacuum with a HEPA filter may also work just fine.

During cleaning, caution must be taken not to damage the white / gray colored ceramic combustion package in the rear of the firebox. When using a brush in the chimney or venting connector, the by-pass damper should be placed in the open position to help prevent ash, creosote or other debris from falling down onto and around the combustion package. This also protects the top of the combustion package from tool or brush damage and diverts most of the removed materials into the firebox for easy clean-up and removal. Once the venting system has been cleaned, remove the first section of connector pipe from the appliance flue collar. Carefully vacuum the ash and debris from around the sides and top of the combustion package.

The shoe brick must be removed to allow vacuum access for cleaning the front portion of the combustion package.

Always use caution when refueling or when vacuuming the firebox and combustion package. Some users have damaged their combustion package with vacuum cleaner tools, and fire pokers.



CAUTION

ALWAYS WEAR FIRE-RESISTANT GLOVES TO OPERATE THE STOVE. THE AIR CONTROL IS HOT WHILE IN OPERATION.

IMPORTANT NOTE

The only suitable method for removing creosote from the venting system is a chimney brush. Creosote sweeping logs, powders and other products have the potential to damage the Firedome combustion system, and are not recommended for use in Harman wood stoves. Use of chemical creosote removal products will void the warranty of the Firedome combustion system.

B. General Maintenance Procedures

1. Ash Removal

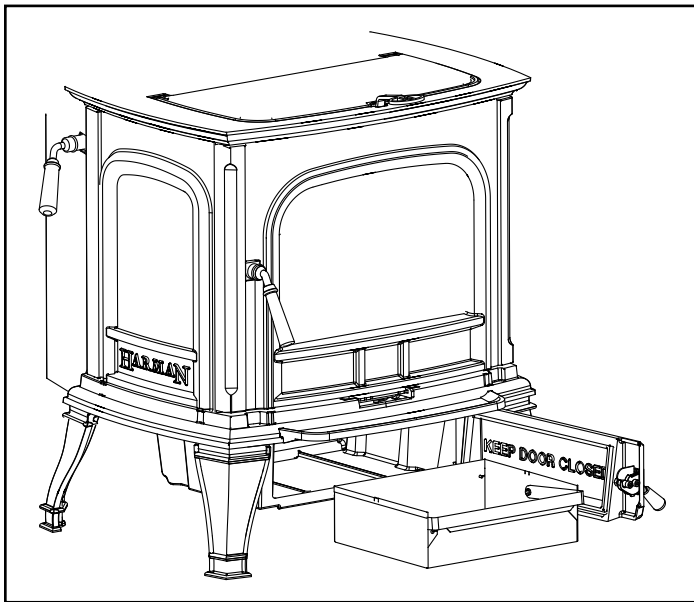
- **Frequency:** As needed / Every day or two
- **By:** User

Wear Leather Gloves To Prevent Skin Burns!

Open the ash removal door by lifting upward on the latch handle, then swing the door open. Pull the ash pan out of the firebox, using the lip on the front of the pan. Once the ash pan is removed from the stove, you can flip the carry handle up for convenience.

If removing ashes while a fire is burning, close and latch the ash door while disposing of the ashes.

DO NOT leave the appliance unattended with the ash door open.



Ashes must be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a non-combustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have thoroughly cooled. Do not use the ash container for other debris or yard waste.

2. Door Glass

- **Frequency:** As needed / Weekly
- **By:** User

Whenever the view of the fire is obstructed, or weekly, clean the glass using a soft cloth dampened with standard household glass cleaner.

Never spray glass cleaner directly onto hot glass. Apply the cleaner to the cloth then wipe the glass.

Fly-ash allowed to accumulate on the glass may lead to permanent fogging or "crazing" of the glass.

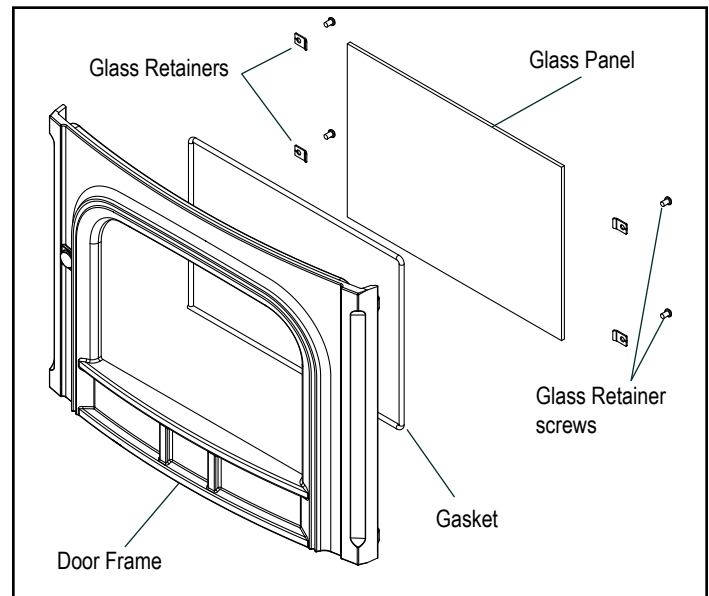
Inspect the glass and sealing gasket. Replace gasket as needed. Do not operate the stove with a broken glass. Replacement glass, which is ceramic glass, should be obtained only through your Harman dealer.

To replace a broken glass; first be sure to carefully remove the broken glass and any remaining shards or pieces. With the door laying on a flat surface, lay the gasketed glass panel onto the door and be sure it is properly fitted into the channel. Lay the glass retainer clips in place near each corner, and secure them using the 3/8" screws. Be sure to tighten each screw equally so you don't create a pressure point on the glass.



CAUTION

NEVER USE ABRASIVE MATERIALS ON THE GLASS.



WARNING

DO NOT ABUSE GLASS BY STRIKING OR SLAMMING THE DOOR CLOSED. THIS TYPE OF BREAKAGE IS NOT COVERED BY THE PRODUCT WARRANTY.

3. Firebox

- **Frequency:** As necessary / Yearly
- **By:** User

Cleaning the firebox and internal heat exchange surfaces is recommended to maintain thermal efficiency. Depending on the quality and quantity of fuel being used, you may want to perform this cleaning monthly.

Be sure to clean these areas thoroughly at the end of the heating season.

Brush and vacuum all internal surfaces at the end of the heating season. Ashes will draw moisture and may promote rust formation.

4. Blower- If installed

- **Frequency:** As necessary / Yearly
- **By:** User

The fan on the blower will collect debris over time. Any accumulation must be removed to maintain proper operation.

To clean blower;

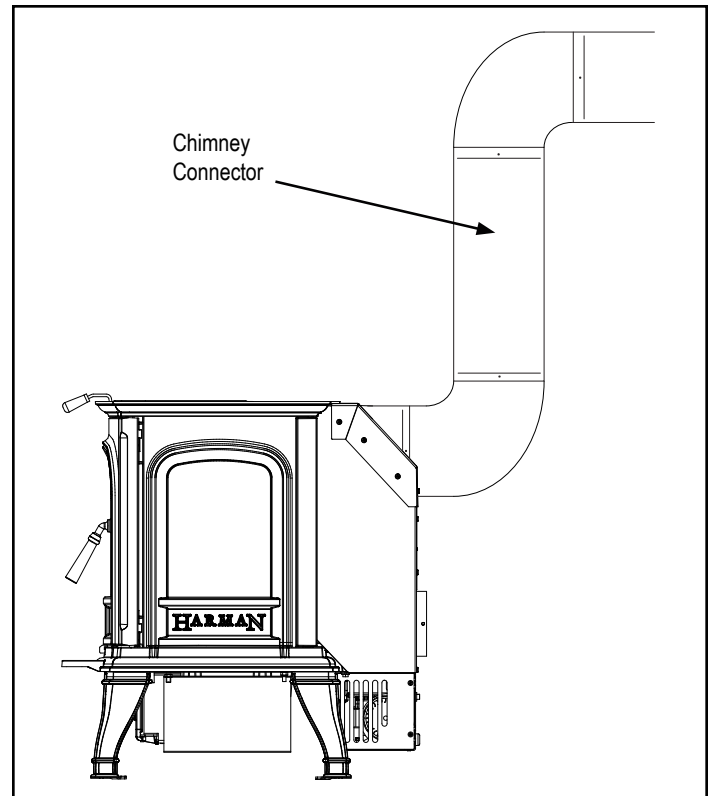
- Disconnect power cord before servicing.
- Remove the two bolts that hold the blower in place.
- Use a vacuum and/or brush to remove all dust and pet hair from the blower wheel.
- Reinstall the blower and tighten the two bolts securely.

5. Chimney Connector

- **Frequency:** As necessary / Yearly
- **By:** Qualified Service Technician / User

At the end of the burn season, brush and clean all sections of chimney connector pipe. Some owners remove the chimney connector for the off season. Any ashes left in the connector pipe will actually draw moisture which promotes rust. This is why it is very important to clean all ashes at the end of the heating season.

When cleaning the chimney connector above the appliance, keep the bypass damper in the open position. This will keep any loosened material from falling into the Firedome combustion chamber.



6. Chimney

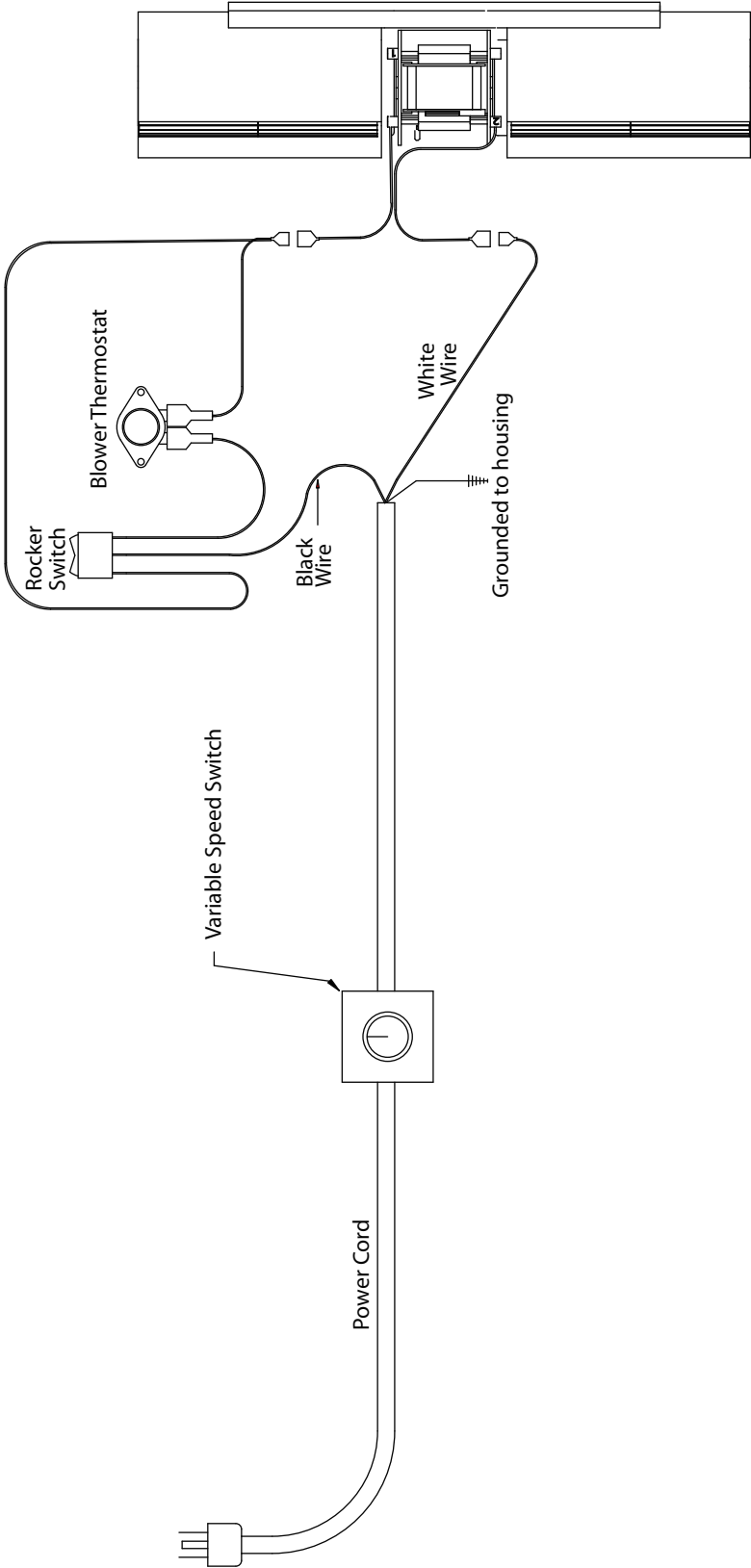
- **Frequency:** As necessary / Yearly
- **By:** Qualified Service Technician / Chimney Sweep

The entire chimney should be professionally cleaned at least once yearly. It is best to have this done at the end of the heating season to be sure all ash is removed. You'll also want to inspect the condition of the chimney prior to using the appliance, to be sure there are no bird or animal nests.

10 Reference Materials

A. Wiring Diagram

Oakleaf Optional Blower Kit #1-00-797032 - WIRING DIAGRAM



B. Service Parts List



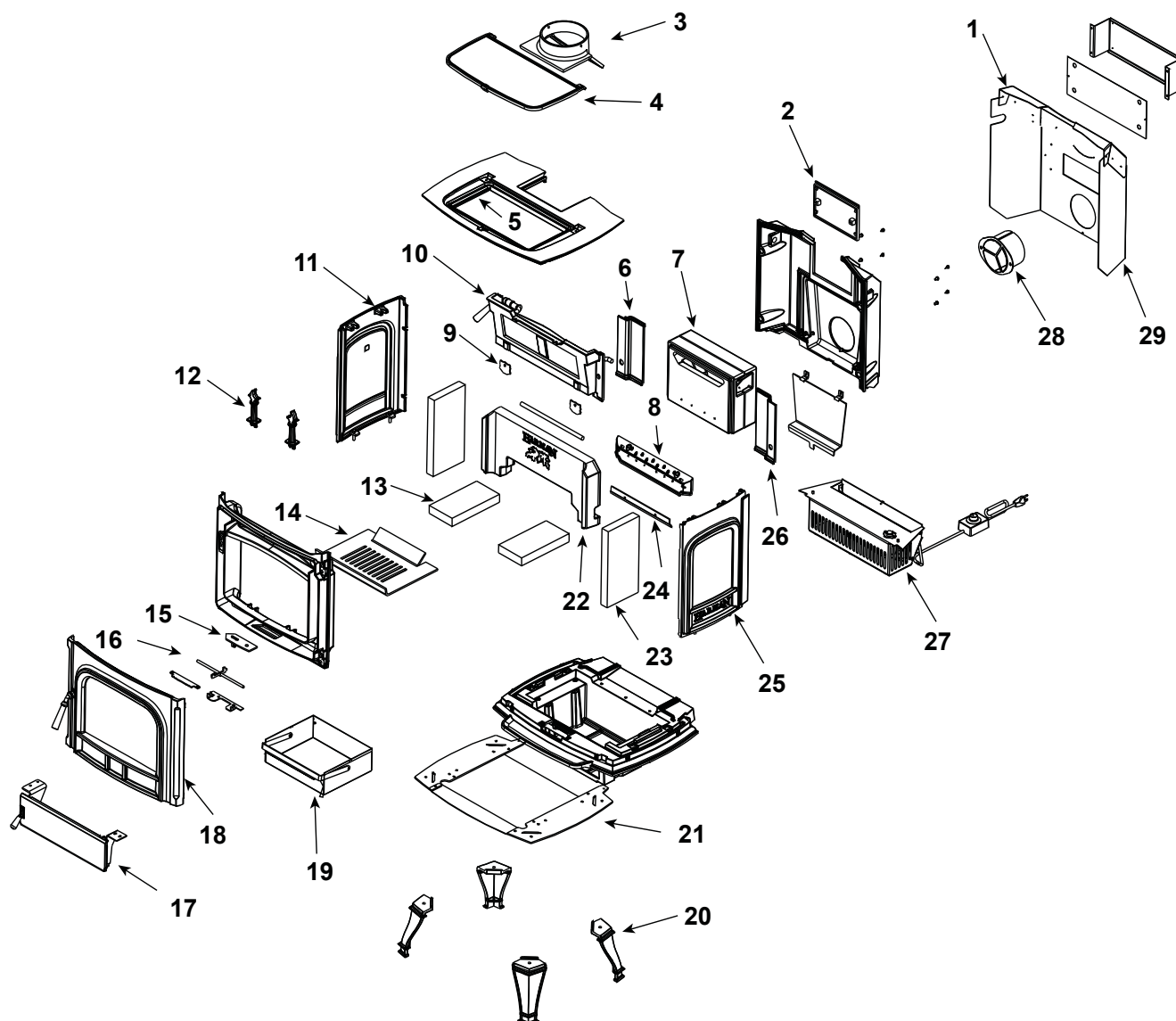
Service Parts

Cast Iron Wood Stove

Oakleaf

Beginning Manufacturing Date: Sept 2010
Ending Manufacturing Date: Active

1-90-797000-1 (Black),
((Sept 2010 thru June 2011))--1-90-797000-2 (Charcoal), 1-90-797000-3 (Goldenfire))



Part number list on following page.

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
1	Heat Shield-Upper Top		2-00-797053P	
	Heat Shield-Upper Rear		1-00-797066	
2	Oak Flue Collar Cover w/Gasket		1-10-249109	
	Gasket-3/8 Round LDPSA	10 Ft	1-00-00999	Y
3	Oak Flue Collar		4-00-249108D	
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
4	Oak Top Load Door		3-00-249115P	
	Load Door Handle Kit		1-00-797067	
5	Gasket-3/8 Round LD, Top Load Door	5 Ft	1-00-37525	Y
6	Inside Plate-Left w/Gasket		1-10-797104	
	Gasket-1/4 Round PSA	15 Ft	1-00-2312	Y
7	Package with Cap and Gasket		1-00-797022	Y
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
8	Ramp Assembly w/Gasket		1-10-797109	Y
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
9	Brick Clip Set		1-00-249153	Y
10	Damper Frame Assembly		1-10-797103A	Y
	Damper Adjustment Kit		1-00-249142	Y
	Damper Elbow		3-50-00500S	Y
	Damper Handle, Wood		1-00-00249	Y
	Damper Plate		4-00-797113	Y
	Damper Rod		1-10-797036W	Y
	Gasket-1/4 Round PSA, Damper Plate	15 FT	1-00-2312	Y
	Gasket-3/8 Round LD, Damper Frame	5 Ft	1-00-37525	Y
	Screw-SSSKN5/16-18 X 3/8	Pkg of 25	3-30-2004-25	Y
11	Side Left		3-00-797107	
	Gasket-3/8 Round LD	5 Ft	1-00-37525	Y
12	Oak Andiron, Painted		3-00-249101P	Y
13	Brick 9" x 4 1/2" x 1 1/4"	Pkg of 7	1-00-900450125	Y
		414 Pcs	3-40-900450-414	
14	Grate		2-00-797023B	Y
15	Airslide		1-10-797010	
16	Airslide shaft		1-10-797013	
17	Ash Door Assembly		1-10-797110	
	Gasket-3/8 Round LD	5 Ft	1-00-37525	Y
	Wooden Knob, Ash Door		3-40-08746-3	
	Latch Assembly		1-00-797500	Y
	Steel Sleeve bushing 3/8" OD x 5/16" OAL	Pkg of 5	3-50-08288-5	Y

Additional service part numbers appear on following page.

IMPORTANT: THIS IS DATED INFORMATION. Parts must be ordered from a dealer or distributor. **Hearth and Home Technologies does not sell directly to consumers.** Provide model number and serial number when requesting service parts from your dealer or distributor.



**Stocked
at Depot**

ITEM	DESCRIPTION	COMMENTS	PART NUMBER	
18	Door Assembly, Front		1-10-797108	Y
	Door Glass w/Gasket		1-00-797025	Y
	Handle Assembly		1-00-00249	Y
	Gasket-1/4 Round PSA, Glass Gasket	15 FT	1-00-2312	Y
	Gasket-3/8 Round LD, Door Gasket	5 Ft	1-00-37525	Y
	Glass Clips and Hardware		1-00-249140	Y
	Latch Assembly		1-00-797501	Y
19	Ash Pan		1-10-797026	Y
20	Leg Painted		4-00-249100P	Y
	Screw-HCS 3/8-16 X 1 Z	Pkg of 50	3-30-1134-50	Y
	Bolt-CB 5/16-18 X 2 Z	Pkg of 25	3-30-4001-25	Y
	Nut-FHN 5/16-18 Z 5	Pkg of 100	3-30-8005-100	Y
21	Base Plate	Qty 2 req	2-00-797027S	
22	Center Brick		3-40-797020	Y
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
23	Brick 12 X 6 X 1-1/4		3-40-86125	Y
	Brick Clip	1 Set	1-00-249172	Y
24	Center Seal Plate, w/Gasket		1-10-797034	
	Gasket 1-1/2X3/8 BULBPSA, Center Plate	5 Ft	1-00-10050	Y
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
25	Side Right		3-00-797111	
	Gasket-3/8 Round LD	5 Ft	1-00-37525	Y
26	Inside Plate, Right, w/Gasket		1-10-797112	
	Gasket-1/4 Round PSA	15 FT	1-00-2312	Y
27	Blower Assembly (Option)		1-00-797032	
	Blower		1-00-7000537	Y
	Power Cord		3-20-06652	Y
	Snap Disc		3-20-408412	Y
	Rocker Switch, 2 position		3-20-07625	
28	Adapter, Pipe		1-10-797045	
29	Heat Shield, Lower Plate		2-00-797033W	
	Bottom Heat Shield		1-00-797058	Y
	Gasket, 3/8" Round 4 Strand	30 FT	1-00-00888	Y
	MagneticThermometer		3-40-84376	
	Touch Up Paint	Pre 008750704	3-42-1990	
		Post 008750704	3-42-19905	

C. Warranty Policy

Hearth & Home Technologies LIMITED LIFETIME WARRANTY

Hearth & Home Technologies, on behalf of its hearth brands ("HHT"), extends the following warranty for HHT gas, wood, pellet, coal and electric hearth appliances that are purchased from an HHT authorized dealer.

WARRANTY COVERAGE:

HHT warrants to the original owner of the HHT appliance at the site of installation, and to any transferee taking ownership of the appliance at the site of installation within two years following the date of original purchase, that the HHT appliance will be free from defects in materials and workmanship at the time of manufacture. After installation, if covered components manufactured by HHT are found to be defective in materials or workmanship during the applicable warranty period, HHT will, at its option, repair or replace the covered components. HHT, at its own discretion, may fully discharge all of its obligations under such warranties by replacing the product itself or refunding the verified purchase price of the product itself. The maximum amount recoverable under this warranty is limited to the purchase price of the product. This warranty is subject to conditions, exclusions and limitations as described below.

WARRANTY PERIOD:

Warranty coverage begins on the date of original purchase. In the case of new home construction, warranty coverage begins on the date of first occupancy of the dwelling or six months after the sale of the product by an independent, authorized HHT dealer/ distributor, whichever occurs earlier. The warranty shall commence no later than 24 months following the date of product shipment from HHT, regardless of the installation or occupancy date. The warranty period for parts and labor for covered components is produced in the following table.

The term "Limited Lifetime" in the table below is defined as: 20 years from the beginning date of warranty coverage for gas appliances, and 10 years from the beginning date of warranty coverage for wood, pellet, and coal appliances. These time periods reflect the minimum expected useful lives of the designated components under normal operating conditions.

Warranty Period		HHT Manufactured Appliances and Venting							Components Covered
Parts	Labor	Gas	Wood	Pellet	EPA Wood	Coal	Electric	Venting	
1 Year		X	X	X	X	X	X	X	All parts and material except as covered by Conditions, Exclusions, and Limitations listed
2 years				X	X	X			Igniters, electronic components, and glass
		X	X	X	X	X			Factory-installed blowers
			X						Molded refractory panels
3 years				X					Firepots and burnpots
5 years	1 year			X	X				Castings and baffles
7 years	3 years		X	X	X				Manifold tubes, HHT chimney and termination
10 years	1 year	X							Burners, logs and refractory
Limited Lifetime	3 years	X	X	X	X	X			Firebox and heat exchanger
90 Days		X	X	X	X	X	X	X	All replacement parts beyond warranty period

See conditions, exclusions, and limitations on next page.

WARRANTY CONDITIONS:

- This warranty only covers HHT appliances that are purchased through an HHT authorized dealer or distributor. A list of HHT authorized dealers is available on the HHT branded websites.
- This warranty is only valid while the HHT appliance remains at the site of original installation.
- This warranty is only valid in the country in which the HHT authorized dealer or distributor that sold the appliance resides.
- Contact your installing dealer for warranty service. If the installing dealer is unable to provide necessary parts, contact the nearest HHT authorized dealer or supplier. Additional service fees may apply if you are seeking warranty service from a dealer other than the dealer from whom you originally purchased the product.
- Check with your dealer in advance for any costs to you when arranging a warranty call. Travel and shipping charges for parts are not covered by this warranty.

WARRANTY EXCLUSIONS:

This warranty does not cover the following:

- Changes in surface finishes as a result of normal use. As a heating appliance, some changes in color of interior and exterior surface finishes may occur. This is not a flaw and is not covered under warranty.
- Damage to printed, plated, or enameled surfaces caused by fingerprints, accidents, misuse, scratches, melted items, or other external sources and residues left on the plated surfaces from the use of abrasive cleaners or polishes.
- Repair or replacement of parts that are subject to normal wear and tear during the warranty period. These parts include: paint, wood, pellet and coal gaskets, firebricks, grates, flame guides, batteries and the discoloration of glass.
- Minor expansion, contraction, or movement of certain parts causing noise. These conditions are normal and complaints related to this noise are not covered by this warranty.
- Damages resulting from: (1) failure to install, operate, or maintain the appliance in accordance with the installation instructions, operating instructions, and listing agent identification label furnished with the appliance; (2) failure to install the appliance in accordance with local building codes; (3) shipping or improper handling; (4) improper operation, abuse, misuse, continued operation with damaged, corroded or failed components, accident, or improperly/incorrectly performed repairs; (5) environmental conditions, inadequate ventilation, negative pressure, or drafting caused by tightly sealed constructions, insufficient make-up air supply, or handling devices such as exhaust fans or forced air furnaces or other such causes; (6) use of fuels other than those specified in the operating instructions; (7) installation or use of components not supplied with the appliance or any other components not expressly authorized and approved by HHT; (8) modification of the appliance not expressly authorized and approved by HHT in writing; and/or (9) interruptions or fluctuations of electrical power supply to the appliance.
- Non-HHT venting components, hearth components or other accessories used in conjunction with the appliance.
- Any part of a pre-existing fireplace system in which an insert or a decorative gas appliance is installed.
- HHT's obligation under this warranty does not extend to the appliance's capability to heat the desired space. Information is provided to assist the consumer and the dealer in selecting the proper appliance for the application. Consideration must be given to appliance location and configuration, environmental conditions, insulation and air tightness of the structure.

This warranty is void if:

- The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine, or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plates or tubes, rust colored cast iron, bubbling, cracking and discoloration of steel or enamel finishes.
- The appliance is subjected to prolonged periods of dampness or condensation.
- There is any damage to the appliance or other components due to water or weather damage which is the result of, but not limited to, improper chimney or venting installation.

LIMITATIONS OF LIABILITY:

- The owner's exclusive remedy and HHT's sole obligation under this warranty, under any other warranty, express or implied, or in contract, tort or otherwise, shall be limited to replacement, repair, or refund, as specified above. In no event will HHT be liable for any incidental or consequential damages caused by defects in the appliance. Some states do not allow exclusions or limitation of incidental or consequential damages, so these limitations may not apply to you. This warranty gives you specific rights; you may also have other rights, which vary from state to state. EXCEPT TO THE EXTENT PROVIDED BY LAW, HHT MAKES NO EXPRESS WARRANTIES OTHER THAN THE WARRANTY SPECIFIED HEREIN. THE DURATION OF ANY IMPLIED WARRANTY IS LIMITED TO DURATION OF THE EXPRESSED WARRANTY SPECIFIED ABOVE.

Service & Maintenance Log

[illegible]



Harman®, a brand of Hearth & Home Technologies
352 Mountain House Road, Halifax, PA 17032
www.harmanstoves.com

Please contact your Harman® dealer with any questions or concerns.
For the location of your nearest Harman® dealer,
please visit www.harmanstove.com.

- NOTES -

NOTICE



DO NOT DISCARD THIS MANUAL

- Important operating and maintenance instructions included.
- Read, understand and follow these instructions for safe installation and operation.
- Leave this manual with party responsible for use and operation.



Printed in U.S.A.