

VOLUNTEER REPAIR SPECS

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**National Center for
Healthy Housing**



To Log into the HHC Repair Spec Library

Using the **CHROME** browser, type in **hmrctc.net**

User Name: S&HH2016

Password: S&HH2016

Repair #8307: Vent Clothes Dryer Outside

Specifications: Repair or install 4 inch diameter metal ducting to allow free airflow from clothes dryer outside with backflow preventer.

Design Features to Note:

1. Number of feet of rigid metal duct and flexible metal duct.
2. Number of metal elbows.
3. Type of vent hood – Louvered flappers or wall vent.

Likely Skill Level: Advanced

Unit of Measure: EA

Unit Cost: \$25 - \$50

Instructions:

1. Remove any existing duct and inspect vent hood for damage, holes, penetrating fasteners, and missing components. Inspect for lint build up and clean out if required. If existing assembly is metal duct and in good working order, clean all components and reassemble following the steps below.
2. Plan shortest route to take vent duct outside with least number of elbows. Use rigid metal duct primarily, with no more than 2 feet of flexible metal ducting, such as at the dryer. Never use plastic ducting.
3. Clean any lint build up at the vent outlet from the dryer unit.
4. Install elbow coupling over dryer vent port and attach using a band clamp. Do not use penetrating fasteners, such as screws, which can catch lint and create a blockage.
5. Attach duct such that crimped end is facing toward vent hood (outside) and secure joint with mastic and aluminum foil tape. Do not use fasteners that penetrate duct.
6. Install metal strapping around duct to support in place. Make sure strap wraps completely around duct. Fasten strap to framing as required.
7. If required, drill 4 1/4 inch diameter hole through exterior wall.
8. Install metal vent hood with backflow preventer/flapper and secure vent hood to siding using exterior screws. Apply caulk between flange of hood and siding.
9. Test operation of dryer for proper airflow at the outside vent hood.

Additional Resources:

http://nchh.org/Portals/0/Contents/Healthy-Housing-Challenge_Critical-Details_10_Dryer-Vent-Installation.pdf

<http://www.hgtvremodels.com/for-pros/installing-dryer-vents-to-code/index.html>

<http://www.doityourself.com/stry/installdryervent#.Ulw7RxYX5UQ>

<http://www.familyhandyman.com/laundry-room/how-to-install-a-dryer-vent/view-all>

Safety Precautions:

Special Tools:

- Tin snips
- Metal crimper pliers
- Bimetal hole saw, 4 1/4 inch diameter

Related Repairs:

Healthy Housing Challenge
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Healthy Housing Challenge Repair Categories

GENERAL <1000

SITE WORK AND LANDSCAPING – 1000

- Landscaping (1100)
- Fence/Gate (1200)
- Deck/Porch/Ramp (1300)
- Exterior Stairs/Steps (1400)
- Project-Wide Items (1500)

CONCRETE AND MASONRY – 2000

- Foundation/Brick/Block (2100)
- Concrete/Asphalt Pavement (2200)
- Basement/Crawlspace (2300)
- Chimney (2400)

ROOF, SIDING AND INSULATION – 3000

- Roof (3100)
- Siding (3200)
- Exterior Trim (3300)
- Gutter/Downspout (3400)
- Attic (3500)

DOORS AND WINDOWS – 4000

- Exterior Doors (4100)
- Interior Doors (4200)
- Windows (4300)

ROOMS AND FINISHES – 5000

- Walls/Ceiling (5100)
- Flooring/Carpeting (5200)
- Interior Stairs (5300)
- Closets (5400)
- Cabinetry (5500)
- Countertop (5600)

ELECTRICAL – 6000

- Exterior Electrical (6100)
- Panel (6200)
- Circuits (6300)
- Switches and Outlets (6400)
- Fixtures (6500)

PLUMBING – 7000

- Exterior Plumbing (7100)
- Sink/Faucet (7200)
- Bathtub/Shower (7300)
- Toilet (7400)
- Interior Plumbing (7500)

MECHANICAL – 8000

- HVAC (8100)
- Water Heater (8200)
- Appliances (8300)

ACCESSIBILITY AND SAFETY – 9000

- Accessibility (9100)
- Safety (9200)

Healthy Housing Challenge Repairs and Repair Numbers

GENERAL PROVISIONS <1000

SITE WORK AND LANDSCAPING 1000

Landscaping

- 1101 Remove Debris
- 1102 Demolish and Remove Unwanted Structure
- 1103 Grade Yard Away from Foundation
- 1104 Clear and Prep Yard for Seeding/Sod
- 1105 Lay Sod
- 1106 Reseed Grass
- 1107 Plant Tree
- 1108 Remove Tree Limb
- 1109 Remove Tree
- 1110 Grind Tree Stump
- 1111 Plant Garden

Fence/Gate

- 1201 Install/Repair Wooden Fence/Gate
- 1202 Install/Repair Split Rail Fence/Gate
- 1203 Install/Repair Chain Link Fence/Gate
- 1204 Install Stockade Panel Fence/Gate
- 1205 Prep/Paint/Stain/Waterproof Exterior Wood
- 1206 Replace Standing Mailbox

Deck/Porch/Ramp

- 1301 Demolish Porch/Deck/Ramp
- 1302 Repair/Replace Joist or Structural Component
- 1303 Replace Lattice
- 1304 Rebuild Porch/Deck/Ramp
- 1305 Build Deck
- 1306 Construct/Assemble Wheelchair Ramp/Accessibility Walkway
- 1307 Install/Repair Guardrail/Handrail
- 1308 Replace Mounted Mailbox
- 1309 Construct Shed
- 1310 Repair/Replace Tongue and Groove Plank
- 1311 Repair/Replace Wrought Iron Railing

Exterior Stairs/Steps Steps

- 1401 Repair Exterior Stair Treads
- 1402 Install/Replace Guardrail and Handrail
- 1403 Install/Replace Handrail
- 1404 Replace Exterior Steps and Landing
- 1405 Install Exterior Walker Steps
- 1406 Install Half Step on Door Landing

Project-Wide Items

- 1501 Secure Building Permit
- 1502 Provide Portable Toilet
- 1503 Provide Dumpster

- 1504 Provide Bagster
- 1505 Order Special Pickup for Trash
- 1506-1510 RESERVED
- 1511 Conduct Occupational Therapy Assessment
- 1512 Conduct HVAC Assessment
- 1513 Conduct Combustion Appliance Zone (CAZ) Test
- 1514 Conduct Inspection by a Licensed Plumber
- 1515 Conduct Inspection by a Licensed Electrician
- 1516 Conduct Inspection by a Professional Roofer
- 1517 Conduct Structural Assessment
- 1518 Conduct Termite Inspection
- 1519 Conduct Lead-Based Paint Inspection
- 1520 Conduct Inspection for Asbestos-Containing Materials
- 1521 Contract for Professional Pest Control Services

CONCRETE AND MASONRY – 2000

Foundation/Brick/Block

- 2101 Parge Foundation
- 2102 Clean Masonry Wall
- 2103 Repair Brick Wall
- 2104 Repoint Brick Masonry
- 2105 Repair Concrete Block Wall
- 2106 Prep and Paint Exterior Masonry
- 2107 Patch Stucco Wall
- 2108 Seal Gaps, Cracks, and Holes in Masonry
- 2109 Waterproof Exterior Foundation Below Grade

Concrete/Pavement

- 2201 Install/Repair Paver Style Walkway
- 2202 Patch/Repair Concrete Steps/Landing/Slab
- 2203 Demolish Concrete/Pavement
- 2204 Pour Concrete Sidewalk
- 2205 Pour Concrete Driveway
- 2206 Patch Asphalt
- 2207 Recoat Asphalt

Basement/Crawlspace

- 2301 Replace Crawlspace Door
- 2302 Install Vapor Barrier
- 2303 Air Seal and Insulate Sealed Crawlspace
- 2304 Ventilate Crawlspace
- 2305 Insulate Floor Above Ventilated Crawlspace
- 2306 Insulate Rim Joists
- 2307 RESERVED
- 2308 Waterproof Interior Masonry Wall
- 2309 Replace Sump Pump
- 2310 Install Egress Window
- 2311 Clean Up/Mitigate Mold

Chimney

- 2401 Flash Chimney

- 2402 Repoint Chimney
- 2403 Replace/Install Chimney Cap
- 2404 Rebuild Chimney
- 2405 Decommission Fireplace/Chimney
- 2406 Install Chimney Liner
- 2407 Repair/Replace Chimney Damper

ROOF, SIDING, AND INSULATION – 3000

Roof

- 3101 Replace Damaged Shingles
- 3102 Install Asphalt Shingle Roof Over Existing Shingles
- 3103 Tear-Off & Install Asphalt Shingle Roof
- 3104 Replace Roof Sheathing and Replace Asphalt Shingle Roof
- 3105 Repair Damaged Rafter
- 3106 Patch/Re-Coat Flat Asphalt Roof
- 3107 Install Asphalt Coating for Flat Roof
- 3108 Install Asphalt Roll Roofing on Shallow-Pitched Roof
- 3109 Repair Framing for Flat Roof
- 3110 Install Ridge Vent
- 3111 Repair/Replace Vent Through Roof
- 3112 Build Roof Over Exterior Stairwell
- 3113 Repair/Replace Skylight

Siding

- 3201 Repair Wood Clapboard Siding
- 3202 Repair Wood Shingle Siding
- 3203 Repair Cement Shingle Siding
- 3204 Repair Masonite Siding
- 3205 Repair T1-11 Siding
- 3206 Repair Vinyl Siding
- 3207 Repair Aluminum Siding
- 3208 Repair Fiber Cement Siding
- 3209 Install New Siding
- 3210 Prep and Paint Exterior Siding
- 3211 Seal Gaps, Cracks and Holes in Siding

Exterior Trim

- 3301 Replace Fascia
- 3302 Construct/Replace Soffit
- 3303 Install Soffit Vents
- 3304 Install Gable Vent
- 3305 Prep and Paint Exterior Trim/Door
- 3306 Install Aluminum Cap on Exterior Sill or Trim

Gutter/Downspout

- 3401 Clean/Repair Gutter
- 3402 Install/Replace Gutter
- 3403 Install/Replace Downspout
- 3404 Relocate Downspout
- 3405 Install Splash Block at Downspout
- 3406 Install/Replace Downspout Extension

- 3407 Install Landscaping Drainpipe
- 3408 Install French Drain

Attic

- 3501 Install Attic Access Door/Hatch
- 3502 Install/Replace Attic Stair Unit
- 3503 Weatherstrip Attic Access Door/Hatch/Stairs
- 3504 Insulate Attic Hatch Cover
- 3505 Air Seal Attic
- 3506 Insulate Attic
- 3507 Install Static Ventilation
- 3508 Install/Repair Attic Fan

DOORS AND WINDOWS – 4000

Exterior Doors

- 4101 Replace Exterior Door
- 4102 Replace Exterior Door Threshold
- 4103 Replace Exterior Door Trim/Casing
- 4104 Adjust Door Fit
- 4105 Weatherstrip Door
- 4106 Install Door Sweep
- 4107 Replace Exterior Door Hardware/Lockset
- 4108 Replace Screen in Screen Door
- 4109 Replace Screen Door
- 4110 Install Storm Door Closer
- 4111 Install/Replace Storm/Screen Door
- 4112 Install Door Peephole
- 4113 Install Mail Slot
- 4114 Install/Replace House Number Set
- 4115 Repair Garage Door
- 4116 Replace Garage Door
- 4117 Replace/Repair Sliding Glass Doors
- 4118 Caulk Exterior Door

Interior Doors

- 4201 Remove Interior Door
- 4202 Rework Interior Door
- 4203 Install Interior Lockset
- 4204 Install Door Stop
- 4205 Install Interior Door Trim
- 4206 Install Interior Door on Existing Jamb
- 4207 Replace Interior Door with Prehung Unit
- 4208 Install/Repair Bifold Door
- 4209 Install/Repair Bypass Sliding Door
- 4210 Widen Interior Door/Walkway

Windows

- 4301 Weatherstrip Window
- 4302 Replace/Repair Screen
- 4303 Install Storm Window
- 4304 Install Window Sash Lock

- 4305 Repair Window Counterweights and Pulleys
- 4306 Repair Spring Type Window Lifting Mechanism
- 4307 Repair Inoperable Wood Sash Window
- 4308 Replace Broken Window Pane
- 4309 Install Interior Window Trim
- 4310 Replace Window Sash
- 4311 Replace Complete Window Assembly
- 4312 Install Replacement Window
- 4313 Replace Basement Window
- 4314 Install Basement Window Well Cover
- 4315 Replace Basement Window Well
- 4316 Install Glass Block Window
- 4317 Cut In and Install Steel Lintel Over Window/Door
- 4318 Repair/Replace Window Sill
- 4319 Caulk Window
- 4320 Point and Glaze Window

ROOMS AND FINISHES – 5000

Walls/Ceiling

- 5101 Caulk Ceramic Tile
- 5102 RegROUT Ceramic Tile
- 5103 Repair/Replace Ceramic Tile
- 5104 Install Towel Bar
- 5105 Renail/Screw/Retape Drywall
- 5106 Repair/Patch Drywall
- 5107 Laminate/Layover Drywall
- 5108 Install Drywall
- 5109 Patch Plaster
- 5110 Install Cement Board
- 5111 Prep and Paint Room
- 5112 Insulate Exterior Walls
- 5113 Install/Replace Wall Paneling
- 5114 Replace Drop Ceiling Panel
- 5115 Install Drop Ceiling
- 5116 Blow Insulation into Exterior Wall

Flooring/Carpeting

- 5201 Install Baseboard
- 5202 Install Shoe Molding
- 5203 Prep and Paint Wood Flooring
- 5204 Refinish Hardwood Floor
- 5205 Remove Existing Flooring
- 5206 Install Underlayment for Flooring
- 5207 Install/Repair Ceramic Tile Flooring
- 5208 Repair Vinyl Composition Tile (VCT)
- 5209 Install Vinyl Composite Tile (VCT)
- 5210 Install Plank Flooring
- 5211 Install Vinyl Sheet Goods
- 5212 Install Transition Strip
- 5213 Remove Existing Carpeting and Pad
- 5214 Install Carpeting and Pad

- 5215 Repair Subfloor
- 5216 Repair Floor Joist
- 5217 Replace Floor Board

Interior Stairs

- 5301 Replace Stair Tread
- 5302 Repair Wooden Stair Railing
- 5303 Brace/Reinforce Handrail
- 5304 Install/Replace Handrail
- 5305 Install Handrail with Balusters
- 5306 Install Non-Slip Stair Tread Tape

Closets

- 5401 Install/Replace Closet Rod
- 5402 Install Closet Shelf

Cabinetry

- 5501 Repair Cabinet
- 5502 Install/Replace Base Cabinet
- 5503 Install/Replace Upper/Wall Cabinet
- 5504 Replace Bathroom Vanity
- 5505 Install/Replace Medicine Cabinet
- 5506 Refinish Cabinet
- 5507 Install Plate Glass Mirror
- 5508 Replace/Install Cabinet Hardware
- 5509 Construct Shelving

Countertop

- 5601 Replace Countertop
- 5602 Repair Ceramic Countertop
- 5603 RESERVED
- 5604 Install Backsplash

ELECTRICAL – 6000

Exterior Electrical

- 6101 Install New Ground Fault Protected Weatherproof Receptacle
- 6102 Install/Replace Weatherproof Cover Plate
- 6103 Replace Entrance Light Fixture
- 6104 Install Entrance Light Fixture and Switch
- 6105 Install Flood Light
- 6106 Install Exterior Circuit

Panel

- 6201 Upgrade Electric Panel
- 6202 Replace Electric Service Line to House

Circuits

- 6301 Install New Circuit
- 6302 Install GFI Circuit
- 6303 Install Junction Box to Eliminate Exposed Wire Splices
- 6304 Cover Open Electrical Box

6305 Rewire Electric Service to Replace Knob and Tube

Switches and Outlets

- 6401 Install Foam Gasket around Electric Outlet/Switch
- 6402 Replace Receptacle
- 6403 Upgrade Receptacle to GFCI
- 6404 Extend Electric Line and Install Receptacle
- 6405 Replace Light Switch
- 6406 Install Doorbell System

Fixtures

- 6501 Replace Fluorescent Light Bulb
- 6502 Replace Incandescent Bulb with CFL
- 6503 Retrofit Fixture for LED or Halogen Bulbs
- 6504 Replace Light Fixture Globe
- 6505 Replace Surface Mounted Light Fixture
- 6506 Replace Recessed Light Fixture
- 6507 Install Light Fixture and Switch
- 6508 Replace Ceiling Fan
- 6509 Install New Ceiling Fan
- 6510 Install/Replace Electric Baseboard Heater and Thermostat
- 6511 Install Heat Lamp
- 6512 Replace Bathroom Exhaust Fan
- 6513 Install Bathroom Exhaust Fan

PLUMBING – 7000

Exterior Plumbing

- 7101 Repair Hose Bibb
- 7102 Install/Replace Hose Bibb
- 7103 Seal Well
- 7104 Repair Water Well System
- 7105 Snake Waste Line
- 7106 Empty Septic Tank
- 7107 Unclog Septic Tank Drain Pipe
- 7108 Repair Septic Drain Line
- 7109 Install Septic System

Sink/Faucet

- 7201 Replace Kitchen Sink
- 7202 Replace Vanity Top and Sink Unit
- 7203 Replace Sink Faucet
- 7204 Install/Replace Hand Sprayer
- 7205 Install/Replace Garbage Disposal
- 7206 Repair Faucet
- 7207 Install/Replace/Clean Faucet Aerator
- 7208 Install/Replace Sink Supply Line
- 7209 Install/Replace Shut Off Valve
- 7210 Replace P-Trap Assembly
- 7211 Replace Drain Pipe
- 7212 Replace Kitchen Sink Drain Basket

Bathtub/Shower

- 7301 Caulk Bathtub/Shower
- 7302 Provide Shower Chair
- 7303 Replace Shower Head
- 7304 Install Handheld Showerhead
- 7305 Install/Replace Shower Surround
- 7306 Install/Replace Bathtub
- 7307 Convert Bathtub to Walk-In Shower
- 7308 Replace Tub/Shower Faucet Set
- 7309 Install/Replace Bath/Shower Shut Off Valve

Toilet

- 7401 Replace Toilet Paper Holder
- 7402 Replace Toilet Seat
- 7403 Install Riser Toilet Seat
- 7404 Replace Toilet Flapper
- 7405 Adjust Re-Fill Valve
- 7406 Replace Re-Fill Valve
- 7407 Install/Replace Shut Off Valve
- 7408 Replace Wax Seal on Toilet
- 7409 Replace Broken Toilet Flange
- 7410 Replace Toilet
- 7411 Unclog Toilet

Interior Plumbing

- 7501 Repair Interior Drain Line
- 7502 Cap Off Drain Line
- 7503 Repair Water Supply Line
- 7504 Insulate Water Supply Pipe
- 7505 Install Water Pipe Heat Tape
- 7506 Replace Utility Sink
- 7507 Repair/Replace Main Water Shutoff
- 7508 Clear Drain Line

MECHANICAL – 8000

HVAC

- 8101 Replace Furnace Filter
- 8102 Replace Thermostat
- 8103 Unblock/Repair/Replace Condensate Line
- 8104 Service Furnace/Burner and Combustion Chamber
- 8105 Air Seal HVAC Ducts
- 8106 Insulate HVAC Ducts
- 8107 Install/Replace HVAC Duct
- 8108 Replace Supply Register
- 8109 Replace Return Air Vent Cover
- 8110 Install/Replace Flue Thimble
- 8111 Replace Furnace Flue into Chimney
- 8112 Repair/Replace Furnace/Boiler
- 8113 Repair/Replace Heat Pump
- 8114 Repair/Replace Central Air Conditioning System
- 8115 Install Dehumidifier

8116 Install Humidifier

Water Heater

- 8201 Adjust Electric Water Heater Temperature
- 8202 Adjust Gas Water Heater Temperature
- 8203 Install Electric Water Heater Blanket
- 8204 Install Gas Water Heater Blanket
- 8205 RESERVED
- 8206 RESERVED
- 8207 Install/Replace Electric Water Heater
- 8208 Install/Replace Gas Water Heater
- 8209 Install Water Heater Discharge Tube
- 8210 Replace Heating Element in Water Heater

Appliances

- 8301 Replace Gas Stove
- 8302 Replace Electric Stove
- 8303 Replace Range Hood and Fan
- 8304 Install Range Hood Exhausted Outside
- 8305 Exhaust Range Hood Outside
- 8306 Install Through-Wall Exhaust Fan
- 8307 Vent Clothes Dryer Outside
- 8308 Replace Electric Clothes Dryer
- 8309 Replace Gas Clothes Dryer
- 8310 Install Hook Ups for Washing Machine
- 8311 Replace Washing Machine
- 8312 Replace Refrigerator
- 8313 Replace Dishwasher
- 8314 RESERVED (Replace Utility Sink moved to 7505)
- 8315 Provide Countertop Microwave
- 8316 Install Microwave with Vent over Cooktop
- 8317 Install/Re-Secure Window A/C

ACCESSIBILITY AND SAFETY – 9000

Accessibility

- 9101 Install Grab Bar
- 9102 Install Interior Ramp
- 9103 Install Transfer Pole
- 9104 Install Swing-Clear Hinges
- 9105 Lower Cabinet/Vanity for Accessibility
- 9106 Remove Clutter from Interior of Home

Safety

- 9201 Install Battery Powered Smoke Detector
- 9202 Install Hard-Wired Smoke Detector
- 9203 Install Battery Powered Carbon Monoxide Detector
- 9204 Install Plug-In Carbon Monoxide Detector
- 9205 Install Fire Extinguisher
- 9206 Label Main Utility Shutoffs