

## INTRODUCTION

Designed for installation in new homes, the DMC1 is a whole-house music and communication system. It is designed to provide years of enjoyment and service to the homeowner. M&S Systems brand audio products are backed with more than 50 years of experience in the design and manufacture of precision acoustical equipment for the home. To ensure that the homeowner receives the high-quality music and voice reproduction that the system is designed to deliver, it is important that each step of the installation be carefully completed by the installer. In the event you need troubleshooting assistance, please call our technical support staff at 1-800-421-1587.

# DMC1 MUSIC/COMMUNICATIONS SYSTEM ROUGH-IN INSTRUCTIONS



## CAUTION !

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



## SHOCK HAZARD !

The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

## IMPORTANT SAFETY INSTRUCTIONS

**Read Instructions** - All the safety and operating instructions should be read before installing or operating the DMC1.

**Retain Instructions** - The safety and operating instructions should be retained for future reference.

**Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.

**Follow Instructions** - All operating and use instructions should be followed.

**Water and Moisture** - The appliance should not be used near water - for example: near bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like. Doing so can create a fire or shock hazards and impair the warranty.

**Cleaning** - Use only a dry cloth.

**Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.

**Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings: or, placed in a built in installation, such as a bookcase or cabinet that may impede the flow of air to the ventilation openings.

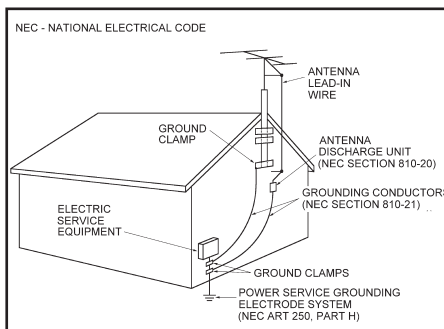
**Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

**Power Sources** - The appliance should be connected to a power supply only of the type described in the rough-in instructions or as marked on the appliance.

**Grounding or Polarization** - Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.

**Power Lines** - An outdoor antenna should be located away from power lines.

**Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70 1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode (see figure).



**Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

**Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

**Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged; or
- Objects have fallen, or liquid has been spilled into the appliance; or
- The appliance has been exposed to rain; or the appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.
- When the product exhibits a distinct change in performance - this indicates a need for service.

**Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

**Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

# Linear®

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## IMPORTANT DO'S & DON'TS

- ✓ **DO** ensure that all instructions have been followed before power is applied to system. The installation shall be carried out in accordance with all applicable installation rules.
- ✓ **DO** use only M&S systems brand cable (except for Cat-5 & RG-6) as called out in these instructions. The cable is designed and constructed with electrical specifications necessary for proper audio performance.
- ✓ **DO** use only a dry cloth to clean the exterior plastics on the DMC1 Master Station and Room Stations. **DO NOT** use liquid or aerosols.
- ✓ **DO** make gradual bends of the cable where necessary -- no sharper than 1" radius.
- ✓ **DO** dress the cables neatly with cable ties or Velcro™ wraps. Use loose or moderate pressure.
- ✓ **DO** use cable-pulling lubricant only for cable runs that may otherwise require great force to install. When cable lubricant is used, read the instructions to be sure it is compatible with the cable jacket material (PVC or FEP).
- ✓ **DO** avoid stressing cable conductors, limit pulling tension to 25 pounds or less as specified by EIA/TIA-568A standard. Pull cables gradually and with constant tension, taking care not to crush or pinch bundles.
- ✓ **DO** use grommets to protect the cable where passing through metal studs or anything that can possibly damage them.
- ✓ **DO** test every installed cable run with a cable tester. "Toning" alone is not acceptable.
- ✓ **DO** label every termination point. Use a unique identifier for each cable run. It will make moves, adds, changes, and troubleshooting easier.
- ✓ **DO** support horizontal cable bundles using board supports, J-hooks, or cable trays.
- ✓ **DO** have signal cables cross at right angles to power cables to minimize induced interference.
- ✓ **DO** always obey all local and national fire and building codes. Be sure to "firestop" all cables that penetrate a firewall. Use plenum-rated cable where mandated.
- ✓ **DO** follow the grounding and bonding requirements established by Electrical Code TIA standard 607, and equipment manufacturer's specifications.
- ✓ **DO NOT** locate the DMC1 Master Station or Room Stations in an exterior wall.
- ✓ **DO NOT** locate the DMC1 Master Station or Room Stations in any wall cavity with any other electrical wiring in the cavity.
- ✓ **DO NOT** locate Patio Stations in places with direct exposure to sun and weather or in locations that receive direct water spray.
- ✓ **DO NOT** attach non line-level audio devices or non M&S authorized equipment to the system.
- ✓ **DO NOT** power up Master Station until all speakers and stations are connected.
- ✓ **DO NOT** splice or repair cables damaged during wire pulling, install a new cable.
- ✓ **DO NOT** coil or bundle the cables. This can cause electronic feedback.
- ✓ **DO NOT** over-tighten the screws for the volume controls, speakers, or the intercom Master Station to prevent cracking.
- ✓ **DO NOT** install any station or speaker cables inside the 120 VAC transformer enclosure.
- ✓ **DO NOT** tie cables to electrical conduits or lay cables on electrical fixtures. Keep cables at least 16" away from fluorescent lights, HID light fixtures, or dimmers.
- ✓ **DO NOT** allow the cable to be sharply bent or kinked at any time.
- ✓ **DO NOT** install cables "taught" in the ceiling or elsewhere. A good installation should have cables loose, but never sagging.
- ✓ **DO NOT** run signal cables parallel to power cables without adequate separation to minimize induced interference.
- ✓ **DO NOT** exert more than 25 pounds of tension on 4-pair cables.
- ✓ **DO NOT** step on Cat-5 cable during installation.
- ✓ **DO NOT** overtighten the cable ties, apply cable ties loosely, with random spacing.
- ✓ **DO NOT** untwist the wire pairs in Cat-5 cable more than 1/2" to avoid crosstalk.

## WIRING CAUTIONS

- A licensed electrician must run a 120 VAC line from **A DEDICATED 15-AMP BREAKER** to the DMC1 (and DMCMP3, if equipped) transformer.
- Use Cat-5 wire for all DMC1 wire runs excluding Door Station wire runs. For Door Stations, use the M&S Systems brand MS4DCXSC wire that is included with the DMC1H or DMC1HC wall housing kits.
- Individual wire runs should not exceed 350 feet from any single room or Door Station to the DMC1 Master Station or 1000 feet total for the entire system.
- Label all wire runs. Connecting the wires to the DMC1 Master Station, Room Station, or Door Station incorrectly may result in system damage.
- Run a single cable from the Master Station unit location to each Room Station and Door Station in a "home run" fashion. Do not loop cable from one Room Station to another.
- **DO NOT STAPLE CABLES.** Staples cause shorts.
- **DO NOT SPLICE CABLES.** Splices are unreliable and defeat the signal isolation properties of the cable.
- **KEEP CABLES, ROOM STATIONS, AND PATIO STATIONS AT LEAST 18 INCHES FROM FLUORESCENT LIGHT FIXTURES, DIMER CONTROLS, AND ALL OTHER WIRING.** This includes AC wiring, security cable, and other control wires. These can cause a "hum" or "buzzing" sound.
- Keep cables away from objects such as heating and air conditioning ducts, metal construction plates, and anything else with sharp edges that can damage the cables.

## ROOM STATION CAUTIONS

Careful consideration should be used when determining the location of the Room Stations. **DO NOT** install these devices in the following locations:

- ✓ **DO NOT** install Room Stations near air return ducts.
- ✓ **DO NOT** install Room Stations in exterior walls. Insulation materials will change speaker range and efficiency. Temperature changes in the wall will reduce speaker life.
- ✓ **DO NOT** install Room Stations in saunas. They will not withstand the extreme heat and moisture.
- ✓ **DO NOT** install Room Stations underneath cabinets or over counter tops.
- ✓ **DO NOT** install Room Stations in stud cavities with other wiring or appliances.
- ✓ **DO NOT** install Room Stations within 10 feet of other Room Stations or the DMC1 Master Station unit. This will cause acoustical feedback.
- ✓ **DO NOT** install Room Stations in stud cavities with other Room Stations or the DMC1 Master Station unit. This will cause acoustical feedback.
- ✓ **DO NOT** install Room Stations facing each other Room Stations or the DMC1 Master Station unit. This will cause acoustical feedback.

Be sure that all Room Station mounting rings are level and oriented as shown in these instructions.

**Failure to adhere to these instructions can cause equipment malfunction and void any warranty covered by Linear LLC.**

# TOOLS REQUIRED

The DMC1 installation rough-in should be made during new construction prior to drywall installation.

Rough-in boxes are used for Door Stations, Patio Stations, and the DMC1 Master Station. Rough-in rings are used for the Room Stations, and in-wall speakers. In the illustration below, rough-in components are listed in parentheses near the model(s) they fit.

The tools required for the installation rough-in are:

- Power drill with 1" auger.
- #2 Phillips screwdriver
- Wire stripper/cutter
- Tape measure
- Level

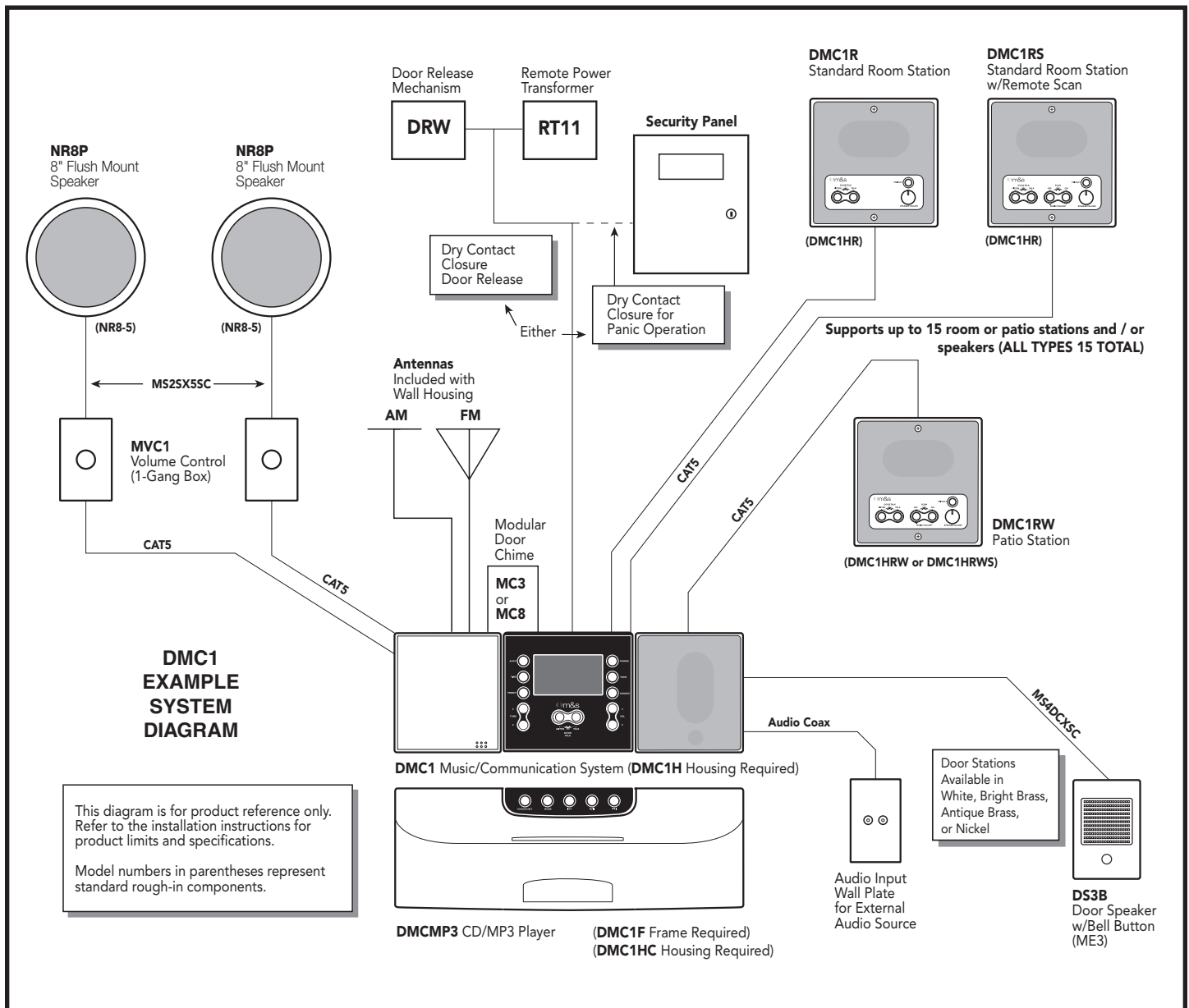


Figure 1. System Diagram

## INSTALLATION ROUGH-IN KITS

The DMC1 can be installed with or without a DMC1MP3 CD/MP3 Player. Two rough-in kits are available for each type of installation.

The Model **DMC1H** kit includes:

- One metal wall housing for DMC1
- One FM Dipole Antenna
- 25 feet of AM Antenna Wire with a Ferrite Filter
- 75 feet of MS4DCXSC Shielded Speaker Cable
- Four 1-1/2" snap-in bushings
- One TE5D Transformer Assembly



*DMC1H Rough-in Kit for DMC1 without CD/MP3 Player*

The Model **DMC1HKIT** kit includes:

- One metal wall housing for DMC1
- One ME3 Door Station Enclosure
- One DMC1HRW Flush-mount Rough-in Enclosure
- Four DMC1HR Rough-in Rings
- One FM Dipole Antenna
- 25 feet of AM Antenna Wire with a Ferrite Filter
- 75 feet of MS4DCXSC Shielded Speaker Cable
- Four 1-1/2" snap-in bushings
- One TE5D Transformer



*DMC1HKIT Rough-in Kit for DMC1 without CD/MP3 Player*

The Model **DMC1HC** kit includes:

- One metal wall housing for DMC1 with DMCMP3
- One FM Dipole Antenna
- 25 feet of AM Antenna Wire with a Ferrite Filter
- 75 feet of MS4DCXSC Shielded Speaker Cable
- One TE2D Transformer
- One TE5D Transformer



*DMC1HC Rough-in Kit for DMC1 with CD/MP3 Player*

The Model **DMC1HCKIT** kit includes:

- One metal wall housing for DMC1 with DMCMP3
- One ME3 Door Station Rough-in Enclosure
- One DMC1HRW Flush-mount Rough-in Enclosure
- Four DMC1HR Rough-in Rings
- One FM Dipole Antenna
- 25 feet of AM Antenna Wire with a Ferrite Filter
- 75 feet of MS4DCXSC Shielded Speaker Cable
- One TE2D Transformer
- One TE5D Transformer



*DMC1HCKIT Rough-in Kit for DMC1 with CD/MP3 Player*

## WALL HOUSING INSTALLATION

Two types of wall housing enclosures are used in DMC1 intercom installations. Both types mount between two standard 16" centered 2 x 4 wall studs.

### **DMC1H Wall Housing Installation**

The DMC1H wall housing is for an intercom Master Station installation *without* the optional CD/MP3 Player.

The DMC1H wall housing is for mounting:

- One DMC1 Master Station intercom unit
  - One optional MC3 or MC8 chime module
  - One TE5D power transformer for powering the Master Station
1. Determine a location for the wall housing.
  2. Position the back side of the wall housing flush with the back of the 2 x 4 studs with the bottom edge approximately **59"** above the floor. Be sure the rectangular transformer mounting knockout is on the bottom of the wall housing (see Figure 2).
  3. Attach the wall housing to the studs with wood screws. If the studs are spaced farther apart than 16", use wood shims to make up the difference. **ALWAYS SECURE THE WALL HOUSING ON BOTH SIDES.**
  4. Install the four 1-1/2" snap-in bushings into the round knockout holes.

### **DMC1HC Wall Housing Installation**

The DMC1HC is for an intercom Master Station installation *with* the optional CD/MP3 Player.

The DMC1HC wall housing is for mounting:

- One DMC1 Master Station intercom unit
  - One DMCMP3 CD/MP3 Player
  - One optional MC3 or MC8 chime module
  - One TE5D power transformer for powering the Master Station
  - One TE2D power transformer for powering the CD/MP3 Player
1. Determine a location for the wall housing.
  2. Position the back side of the wall housing flush with the back of the 2 x 4 studs with the bottom edge approximately **52"** above the floor. Be sure the two rectangular transformer mounting knockouts are on the bottom of the wall housing (see Figure 3).
  3. Attach the wall housing to the studs with wood screws. If the studs are spaced farther apart than 16", use wood shims to make up the difference. **ALWAYS SECURE THE WALL HOUSING ON BOTH SIDES.**

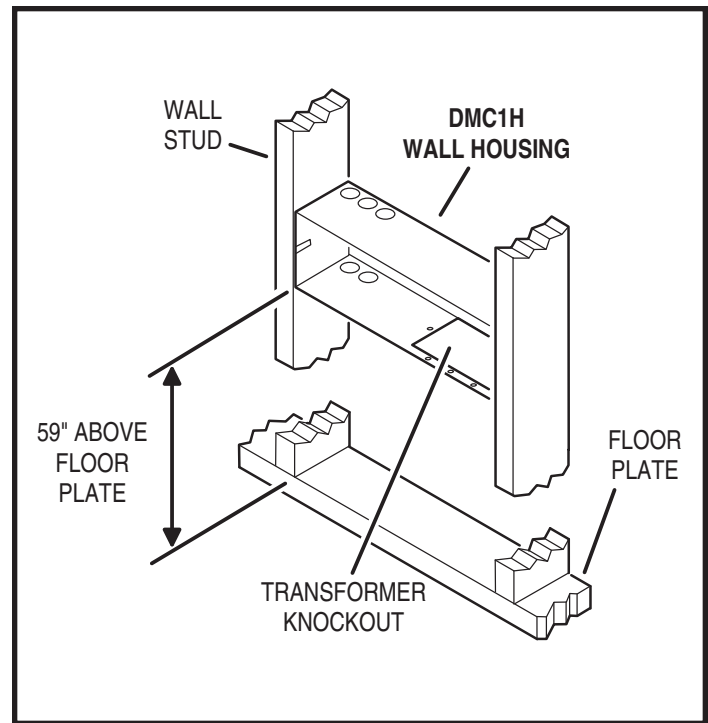


Figure 2. DMC1H Wall Housing Installation

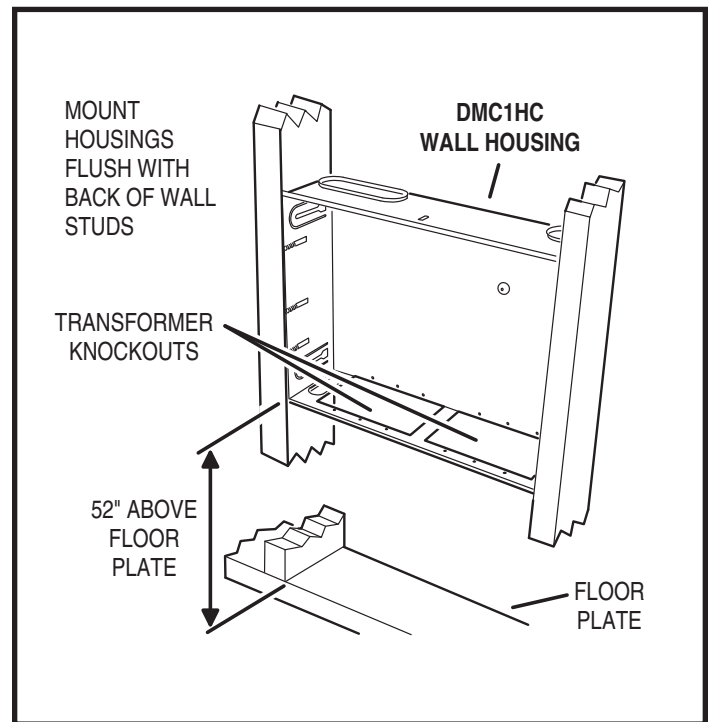


Figure 3. DMC1HC Wall Housing Installation

## TRANSFORMER INSTALLATION

The Model TE5D transformer powers the DMC1 Master Station. The Model TE2D transformer powers the optional CD/MP3 Player. Both transformers are supplied in a small metal enclosure that mount to the bottom of the wall housing.

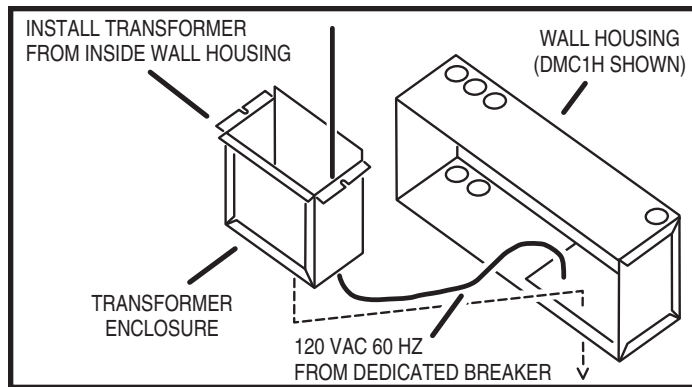


**WARNING**

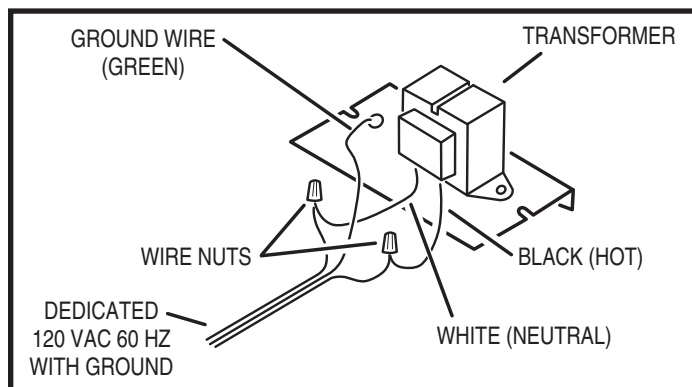


**ALL AC ELECTRICAL CONNECTIONS TO THE POWER SOURCE AND THE TRANSFORMER(S) MUST BE MADE BY A LICENSED ELECTRICIAN AND MUST OBSERVE ALL NATIONAL AND LOCAL ELECTRICAL CODES**

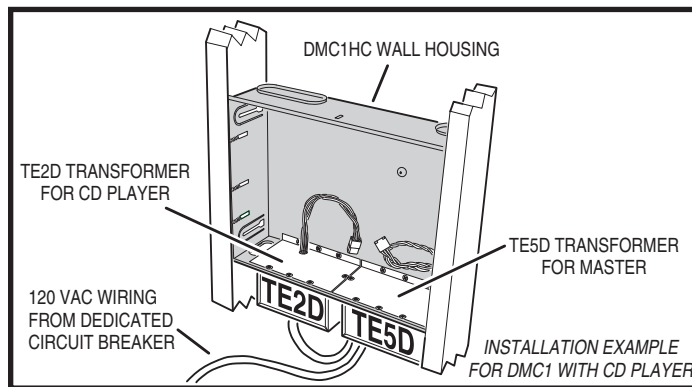
1. Run a minimum 14 AWG 120 VAC power cable (including ground) from a *dedicated* 15-amp circuit breaker to the wall housing location. The DMC1 requires a dedicated power source to assure there's no interference from other equipment. The ground is required for good radio reception.
2. Slide the transformer enclosure(s) down into the rectangular transformer mounting knockout(s) on the bottom of the wall housing (see Figure 4).
3. If installing the second transformer for the CD Player option, cut a 1-1/2 foot length of power cable to loop between the two transformers. Insert an end of the cable into each of the transformer enclosures through the bottom knockout holes. Use wire nuts to connect the cable to the TE2D transformer BLACK (HOT) and WHITE (NEUTRAL) input wires. Connect the GREEN (GROUND) wire to the cable's ground conductor.
4. Route the incoming power cable into the TE5D transformer enclosure through the bottom knockout hole. Use wire nuts to connect the incoming power cable to the TE5D transformer BLACK (HOT) and WHITE (NEUTRAL) input wires (and to the cable going to the TE2D transformer if installed). Connect the GREEN (GROUND) wire to the cable(s) ground conductor (see Figure 5).
5. Be sure all power cables entering the transformer enclosure(s) are secured with cable strain reliefs.
6. Tuck the cables into the transformer enclosure(s) followed by the transformer on its mounting plate. Secure the transformer(s) and enclosure(s) to the wall housing with the screws supplied (see Figure 6).



**Figure 4. Transformer Enclosure Mounting**



**Figure 5. Transformer Power Wiring**



**Figure 6. Completed Transformer Installation**

## ANTENNA ROUGH-IN

The DMC1 requires two antennas, one for AM and one for FM reception. The AM antenna is a simple 25-foot length of wire with an in-line ferrite filter to reduce interference. The FM antenna is a 25-foot length of coax with a “T” shaped wire dipole at one end that attaches between rafters in the attic.

✓ **IMPORTANT:** Isolate the antenna leads from the intercom station cables by running them through a separate hole in the ceiling plate and through the right hole in the top of the wall housing. If grouped together, the intercom station cables can shield the antenna leads resulting in poor radio reception. Also keep the antenna leads away from metal duct work and aluminum backed insulation, which also can reduce reception.

1. Unroll and examine the 25-foot AM antenna wire. Find the end with the ferrite filter (the small object with wire looped through it). The short end of the wire from the filter attaches to the DMC1 AM antenna terminal, the long end of the wire is the antenna that goes up into the attic.
2. Fish the long end of the antenna wire up through the right hole in the top of the wall housing, up the stud bay, through a hole in the ceiling plate, and up into the attic. Pull all the wire through until the ferrite filter lays inside the wall housing on the right side (see Figure 7).
3. Unroll and examine the FM antenna. The antenna is formed by spreading the red and black wires at the end of the coax. The terminal lug at the end of each wire is for screw mounting the wires outstretched.
4. Fish the connector end of the antenna coax down through the hole in the ceiling plate, down the stud bay, and into the hole on the top right side of the wall housing. Leave about one foot of coax extending into the wall housing (see Figure 7).

The antenna adjustment and final installation will be completed during the DMC1 Master Station finish-out.

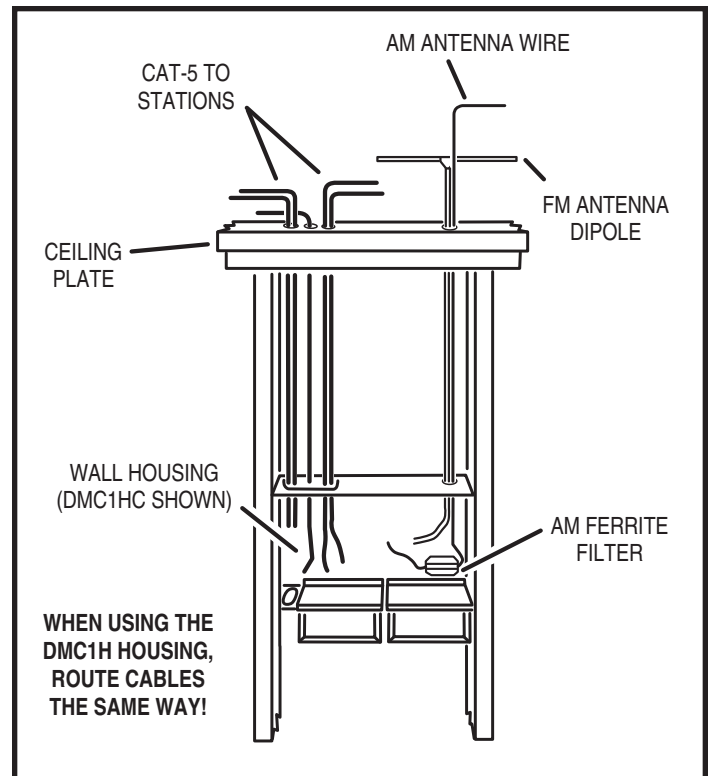


Figure 7. AM & FM Antenna Installation

## ROOM STATION ROUGH-IN

### ⚠ CAUTION ⚠

The DMC1 Master Station has a maximum load capacity of 15 speakers (the total number of Room Stations, Patio Stations, and mono speakers combined) and three Door Stations. No more than two speakers or stations can be wired to any one station selector switch. A maximum of two speakers or Patio Stations can be wired to the patio switch.

1. At each Room Station location, nail or screw a Model DMC1HR-5 Room Station Rough-in Ring about 52" above the floor level (see Figure 8).
2. Route Cat-5 cable from the Master Station's wall housing to the Room Station location.
3. Leave about 12" of extra cable extending at the Room Station location. Wrap the cable around a nail at the Room Station location to hold it and protect it from drywall damage.
4. Bring the other end of the cable into the Master Station's wall housing through the top left wiring access hole or slot. Leave about 12" of extra cable extending at the wall housing. **LABEL THE CABLE.**

## PATIO STATION ROUGH-IN

1. Route Cat-5 cable from the Master Station's wall housing to each Patio Station location.
2. At each Patio Station location, install a Model DMC1HRW Flush-mount Rough-in Enclosure about 50" above the floor level. Leave about 12" of extra cable extending at the Patio Station enclosure. Wrap the cable around a wood block to keep the cable from falling back through the enclosure's knockout.
3. Depending on the type of construction, the enclosure can be screwed or nailed to a stud, or in masonry applications just let the enclosure hang on the cable so the brick mason can flush and level it (see Figure 9).
4. Bring the other end of the cable into the Master Station's wall housing through the top left wiring access hole or slot. Leave about 12" of extra cable extending at the wall housing. **LABEL THE CABLE.**

✓ **NOTE:** DO NOT locate Patio Stations in places with direct exposure to sun and weather or in locations that receive direct water spray.

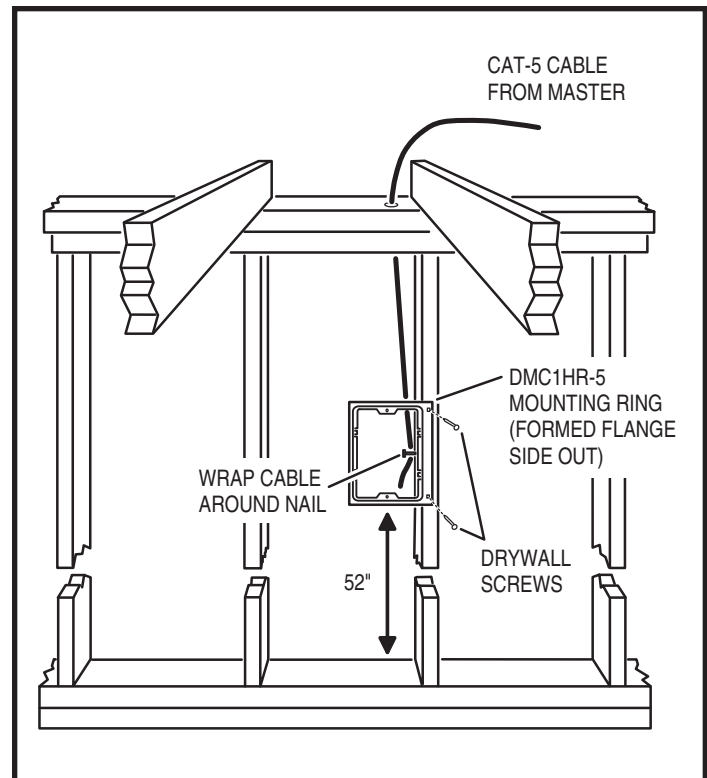


Figure 8. Room Station Rough-in

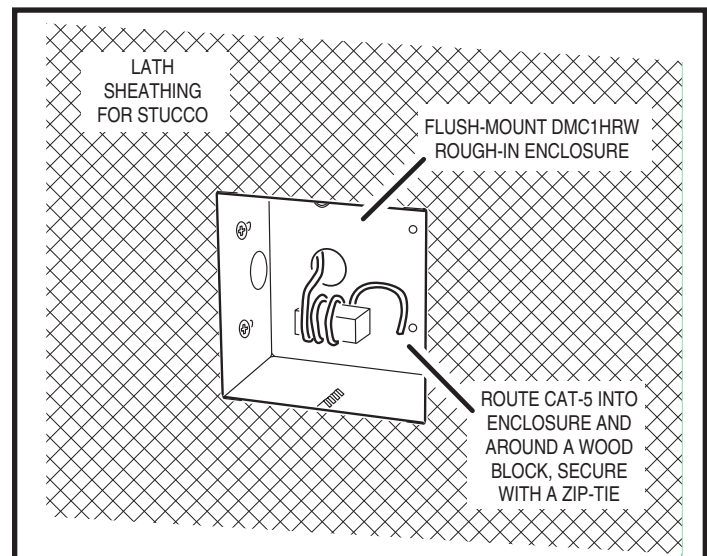


Figure 9. Patio Station Rough-in



## DOOR STATION ROUGH-IN

1. Route MS4DCXSC cable from the Master Station's wall housing to each Door Station location.
2. At each Door Station location, install a Model ME3 Door Station Rough-in Enclosure about 50" above the floor level. Leave about 12" of extra cable extending at the Door Station enclosure. Wrap the cable around a wood block to keep the cable from falling back through the enclosure's knockout.
3. Depending on the type of construction, the enclosure can be screwed or nailed to a stud, or in masonry applications just let the enclosure hang on the cable so the brick mason can flush and level it. For wood, vinyl, or aluminum siding construction, use a surface-mount housing for the Door Station. Two surface-mount intercom Door Station enclosure models are available: Model DS3BXB (black) and DS3BXW (white). Surface-mount enclosures attach to the finished wall using galvanized screws (see Figure 10).
4. Bring the other end of the cable into the Master Station's wall housing through the top left wiring access hole or slot. Leave about 12" of extra cable extending at the wall housing. **LABEL THE CABLE.**

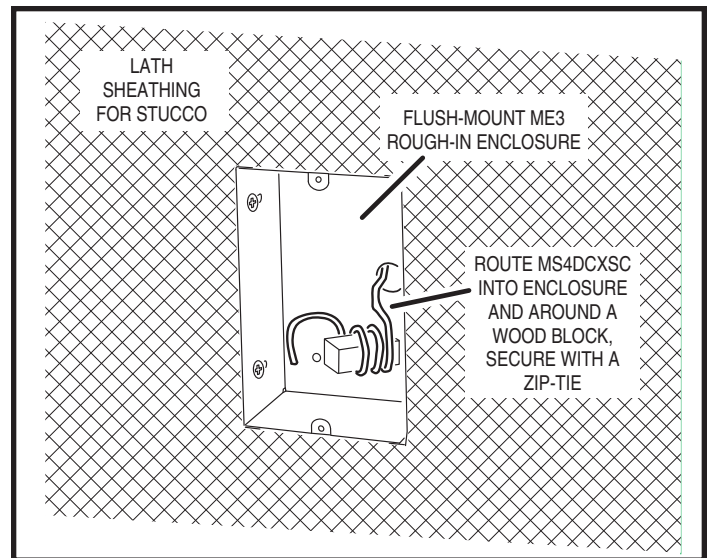


Figure 10. Door Station Rough-in

## MONO MUSIC SPEAKERS

Monaural 45-ohm speakers can be connected to the DMC1 Master Station to distribute radio or CD sound throughout the installation. Each mono speaker is controlled by a single Model MVC1 (white) or MVC1A (almond) volume control that mounts in a single-gang J-box.

**CAUTION**  
**ANY SPEAKER CONNECTED TO THE DMC1 MUST BE 45 OHMS!**  
**Do not connect any 8 ohm speakers or damage to the DMC1 Master Station will occur!**

1. Route Cat-5 cable from the Master Station's wall housing to each mono speaker's volume control J-box location. **LABEL THE CABLE.**
2. From each volume control J-box location, route MS2SX5SC cable to the speakers location (see Figure 11). Secure the cable to avoid drywall damage.
3. Install the appropriate speaker mounting ring (if required) for each speaker. Follow the speaker's instructions for specific details on dimensions and mounting of the speaker ring.

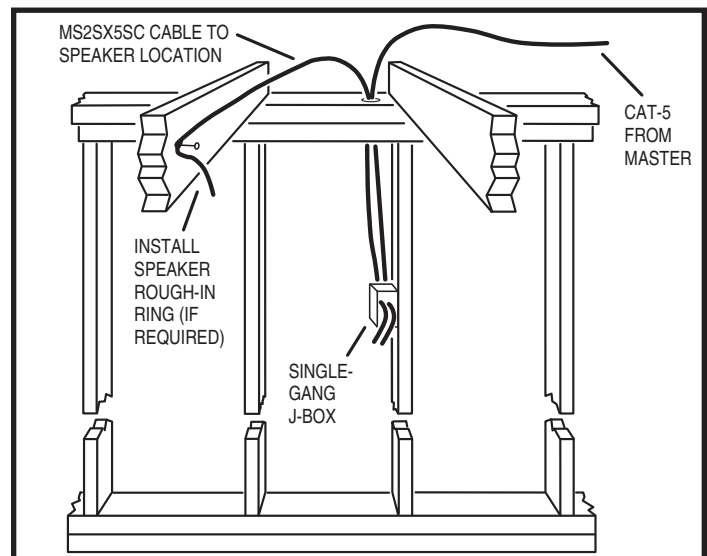


Figure 11. Mono Speaker Installation

## EXTERNAL MUSIC SOURCE

The DMC1 Master Station can play audio from an external source. A commonly available audio input wall plate with a pair of stereo RCA jacks can be wired to the DMC1 Master Station and connected to a stereo receiver, television, DVD, or portable music player.

✓ **NOTE:** The cable connection from the external audio source to the DMC1 must not exceed 50 feet.

1. At the location for the audio input wall plate, install a single-gang J-box at the center height of normal wall outlets. Be sure the J-box extends past the wall stud, into the room, so it will be flush with the drywall when it is applied.
2. Route two shielded RCA-to-RCA cables from the J-box to the DMC1 Master Station's wall housing through the top left wiring access hole or slot (see Figure 12). Leave about 12" of extra cable extending at the wall housing end and about 6" of extra cable extending at the J-box end. **LABEL THE CABLES "Aux Input"**.
3. Tie a knot in the cables inside the J-box to prevent the cables from slipping out.

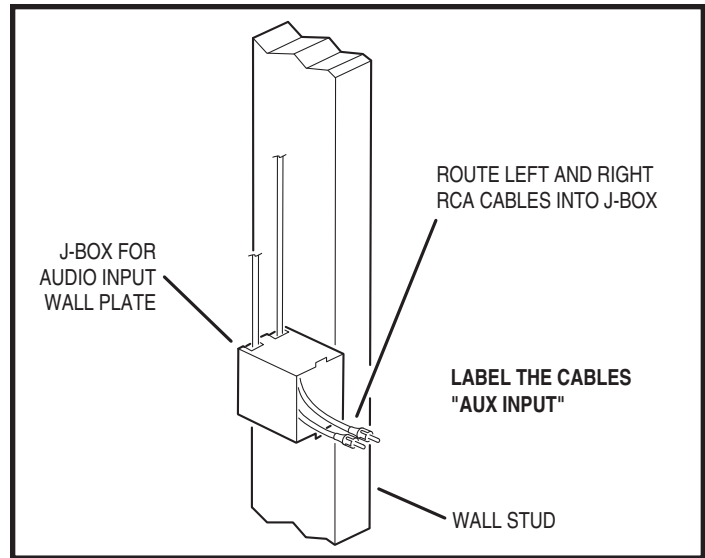


Figure 12. Audio Input Wall Plate Rough-in

## DOOR RELEASE RELAY

The DMC1 Master Station contains a dry contact relay that can be used to control external devices. Typical applications include activating a door strike, triggering a panic alarm system, or controlling a home automation or lighting system.

The door release relay has normally open contacts that are rated at 2 Amps @ 24 Volts AC/DC. The relay can be activated from the DMC1 Master Station or remote scan Room Stations (Model DMC1RS) by pressing the volume up and volume down buttons together for four seconds. The relay will deactivate when the buttons are released.

Refer to the following steps for connecting a Model DRW Door Release Mechanism. For controlling other devices, refer to the hook-up instructions supplied with the device.

1. Route 2-conductor 18 AWG cable from the DMC1 Master Station's wall housing to the door release location.
2. Route 2-conductor 18 AWG cable from the DMC1 Master Station's wall housing to a location for a Model RT11 Remote Transformer. The transformer plugs into a standard 120 VAC outlet.
3. Route the two cables into the Master Station's wall housing through the top left wiring access hole or slot. Leave about 12" of extra cable extending at the wall housing.
4. Zip-tie the two cables together and **LABEL THE CABLES "Door Release"**.

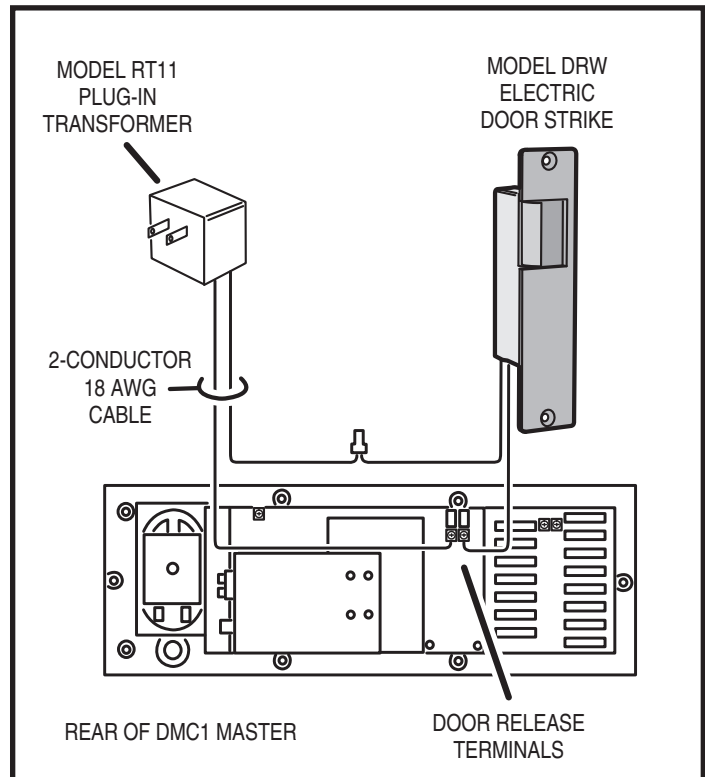


Figure 13. Door Release Wiring

## 2-YEAR LIMITED WARRANTY

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Linear LLC warrants its M&S Systems brand products to be free of defects for 2 years. The warranty period begins on either (a) the date of purchase or installation date of this product, or (b) the date of closing on a new residence in which this product was originally installed.

The warranty extends to the original user of the product and to each subsequent owner of the product during the term of the warranty. Linear will repair or replace, at its option, parts and materials at no charge. Parts supplied under this warranty may be new or rebuilt at the option of Linear.

If, during the warranty period, the product appears to have a defect, please call Linear Returns at 855-546-3351 prior to dismantling. Dismantling the product prior to calling may void the warranty. Before returning any product to Linear, obtain a Return Product Authorization (RPA) number from Linear Returns. Linear will return the repaired product freight prepaid within the continental United States. ANY PRODUCT RETURNED TO LINEAR WITHOUT AN RPA NUMBER WILL BE REFUSED.

This limited warranty is in lieu of any other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose or otherwise, and of any other obligations or liability on the seller's part. This limited warranty does not cover damage caused by improper installation, acts of God, criminal acts, the violation of applicable building or electrical codes or the use of non-M&S wire or cable (excluding CAT-5 and RG-6).

Under no circumstances shall Linear be liable for consequential, incidental or special damages arising in connection with use, or inability to use this product. In no event shall Linear's liability hereunder exceed the cost of the product covered hereby. No person is authorized to assume for us or obligate us for any other liability in connection with the sale of this product. Some states do not allow the exclusion or limitation of consequential, incidental or special damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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