

NEW MEXICO HO_{n3} MODULE CLUB

GENERAL SPECIFICATION GUIDE LINES:

THESE SPECIFICATIONS SERVE AS A BASIC GUIDE FOR THE **NEW MEXICO NARROW GAUGE MODULE CLUB** CONSTRUCTION METHODS, AND REQUIRE THAT YOU FOLLOW ALL DIMENSIONS, USE ACCEPTED MATERIALS, AND MEET ELECTRICAL REQUIREMENTS.

IN THE EVENT THAT RECOMMENDED MATERIALS ARE NOT USED AND PROBLEMS ARE ENCOUNTERED, YOU WILL BE REQUIRED TO MAKE THE REQUIRED CORRECTIONS BEFORE YOUR MODULE CAN BE USED IN A SHOW.

REMEMBER THAT YOU ARE BUILDING A "SHOW QUALITY MODULE".

SPECIFICATIONS:

- SIZE: LENGTH: 4 FT NOMINAL, 2 FT MINIMUM, ANY LENGTH OVER 2 FT. WILL BE OK
- WIDTH: 18" OR 24" (DOES NOT INCLUDE THICKNESS OF SKY BOARD).
- LEGS: 2" X 2", LENGTH 41 3/4", NOTE METHOD OF PLACEMENT OF HEIGHT ADJUSTMENT SCREWS AND TEE NUTS. (SEE DRAWING FOR DETAILS)
- BASE: ALL MODULE TOPS SHOULD BE MADE FROM 1/2" PLYWOOD FOR STRUCTURAL STRENGTH. THE FASCIA BOARD IS TO BE CONSTRUCTED OF 1 X 4" PINE.
HO SCALE CORK ROADBED MUST BE USED TO SUPPORT ALL **MAINLINE TRACK. (FRONT AND RETURN TRACK). YARD AND SIDING ROADBED OPTIONAL.**
- SKY BOARD: HEIGHT: 21" OVERALL.
WIDTH: SHOULD RUN THE FULL LENGTH OF MODULE.
SUGGEST 1/2" PLYWOOD CONSTRUCTION **FOR STRUCTURAL INTEGRITY.**
- PROFILE BOARD: THE PROFILE BOARDS (ENDS) DETERMINE THE TRACK BASE TO FLOOR HEIGHT DISTANCE OF 48". (SEE PROFILE BOARD DRAWING FOR DETAILS)
- PLEXIGLAS: PLEXIGLAS WILL BE USED FOR PROTECTION OF SCENERY, STRUCTURES, AND TO PREVENT ROLLING STOCK FROM FALLING TO THE FLOOR IN THE EVENT OF A DERAILMENT.
PLEXIGLAS WILL BE **CLEAR COLOR, 3/16" THICK, X 14 INCHES HIGH;** PLACED EVEN WITH THE BOTTOM OF THE FASCIA BOARD. (10" OF EXPOSED PROTECTION). THE **WIDTH MUST BE 1/2" NARROWER** THAN THE LENGTH OF THE MODULE AND PLACED 1/4" IN FROM THE ENDS OF THE MODULE. THE EDGES SHOULD BE SANDED SMOOTH AND ALL CORNERS ROUNDED TO PREVENT INJURY.

TRACK: MICRO ENGINEERING CO. HOn3, CODE 70 FLEXTRACK.

MAINLINE TRACK, THE LAST 1" OF BOTH MAINLINE TRACK ENDS MUST BE LOCATED 6" ON CENTER FROM THE FRONT EDGE OF THE MODULE (TO MAKE A SMOOTH TRANSITION FROM MODULE TO MODULE) CURVED MAINLINE IS OK AS LONG AS THE ENDS ARE AT 6" FROM THE FRONT.

RETURN TRACK WILL BE PLACED ON A SHELF BEHIND THE SKY BOARD PLACED 26 1/2" ON CENTER FROM THE FRONT EDGE OF THE MODULE. THIS SHELF CAN BE REMOVABLE FOR STORAGE AND TRANSPORTATION PURPOSES.

BOTH MAINLINE AND RETURN TRACK SETBACK IS 3" FROM THE END OF THE MODULE, CUT SQUARE AS POSSIBLE. A 6" SECTION OF TRACK WILL BE USE TO CONNECT MODULES TOGETHER.

MINIMUM RADIUS 20"

TURNOUTS: WILL BE A MINIMUM #6, CODE 70 TURNOUT.

BALLAST: COLOR OPTIONAL, SIZE FINE (SCALE SIZE 1" TO 3").

ELECTRICAL: FEEDER LINES WILL RUN UNDER THE BASE TO SUPPLY TRACK POWER FOR THE MODULE. THE FEEDER LINE ENDS SHOULD EXTEND 8" BELOW THE MODULE ON BOTH ENDS TO ALLOW FOR EASE IN CONNECTING TO ADJACENT MODULES. **SUGGEST LENGTH OF CABLE TO BE THE LENGTH OF YOUR MODULE PLUS 2-FT.**
CINCH JONES PLUGS WILL BE USED TO CONNECT ELECTRICAL POWER TO THE ADJACENT MODULES.
THE WIDE PIN CIRCUIT IS CONNECTED TO THE OUTSIDE RAILS. (MAINLINE AND RETURN TRACK), LOOK AT IT AS THE OUTSIDE RAILS OF AN OVAL.
MALE CONNECTOR TO THE RIGHT SIDE OF THE MODULE FOR MAINLINE TRACK AND LEFT SIDE FOR THE RETURN TRACK (WHEN LOOKING AT THE MODULE FROM THE FRONT).
PLEASE OBSERVE POLARITY FOR THE PLUGS.

110 VOLT SUPPLY: ALL MODULES MUST HAVE SOME FORM OF 110-VOLT WIRING TO PROVIDE POWER TO COMPONENTS ON THE MODULES AND TO ALLOW FOR THE TRANSFER OF POWER TO ADJACENT MODULES. THIS IS ACHIEVED BY USING A "UL" APPROVED OUTLET STRIP WITH A 6 FT MINIMUM POWER CORD.
THE OUTLET STRIP IS TO BE INSTALLED AS CLOSE TO THE LEFT SIDE AS POSSIBLE. MALE PLUG TO THE RIGHT SIDE.

MODULE INSPECTION: A NEW MODULE MUST BE INSPECTED FOR ELECTRICAL AND MECHANICAL OPERATION PRIOR TO PARTICIPATION IN A SHOW. AT THE FIRST SHOW IT MUST BE OPERATED WITHOUT ANY BALLAST OR SCENERY, UNLESS PREAPPROVED DURING A TEST OPERATING SESSION. THE SHOW COORDINATOR HAS CONTROL OVER THE MODULE INSPECTIONS, REQUIREMENTS, AND SHOW ENTRIES.

PAINT SPECIFICATIONS: LEGS, FRAME AND BACK OF SKY BOARD ARE TO BE PAINTED GLIDDEN EVERMORE EXTERIOR LATEX, SEMI-GLOSS NORTHWEST GREEN (70GY DS/075).

SKY BOARD FRONT TO BE PAINTED BEHR FLAT CHINA BLUE (RAH-49).

"BOTH PAINTS AVAILABLE AT HOME DEPOT."

OVERHEAD LIGHTING: SEE "NMNGMC MODULE LIGHT" DOCUMENT.
<http://nmngmc.org/Documents/NMNGMC%20Module%20Lights.pdf>

- MATERIALS:
1. 2 EACH CINCH JONES TWO PRONG CONNECTORS.
MALE PLUG #P302CCT
FEMALE SOCKET #S302CCT.
AVAILABLE AT: WALKER ELECTRONIC SUPPLY CO.
3347 Columbia NE
ALBUQUERQUE, NM 505-883-2992.
<http://www.walkerradio.com/>
 2. 18/2 SPT-1 WIRE, CAROL #02301 (ZIP CORD/LAMP WIRE)
 3. 110 VOLT AC WIRING, POWER STRIP, UL APPROVED.
 4. 1/2" PLYWOOD.
 5. 1 X 4" PINE.
 6. 2 X 2" FOR LEGS.
 7. 4 EACH 3" X 1/4-20 CARRIAGE BOLTS FULLY THREADED AND
4 EACH 1/4" TEE NUTS FOR LEGS.
Or 1 PKG T-Nut Levelers (4) #27P20
Woodcraft Store
4520B Alexander NE
Albuquerque NM 87107
505-342-9664
<http://www.woodcraft.com/family.aspx?familyid=1073>
 8. DRY WALL SCREWS, NAILS, AND ELMER'S CARPENTER WOOD GLUE.

SHOW HARDWARE: 4 EACH 2" "C" CLAMPS PER FIRST MODULE, 2 ADDITIONAL "C"
CLAMPS FOR EACH ADDITIONAL MODULE.

ROLLING STOCK: KADEE # 714, HOn3 COUPLERS WILL BE USED FOR
OPERATIONAL COMPATIBILITY.

REV. 1 02/25/05

REV. 2 05/14/05

REV. 3 09/20/06

