



# SUSPENSION MOUNTING SOUND MASKING 8" LOUDSPEAKER ASSEMBLIES

M980 Series



M980 Series

## FEATURES

- Pre-Assembled Units Include Loudspeaker, Transformer, Enclosure, Baffle and Mounting Hardware
- Labor-Saving Hardware Package, Complete with New Snap Hooks, Allows Quick and Easy Installation
- Design Enables Upward, Downward, Horizontal or Angled Sound Dispersion
- Black Epoxy Finish Blends with Open Ceiling Plans
- Suitable for Use Above Suspended Ceiling Systems

## MODEL DESCRIPTION

**M980 Series.** These loudspeaker masking assemblies arrive completely wired and ready for installation. Each unit features a 650 cu. in. (0.01 m<sup>3</sup>) enclosure and is available with a choice of four Atlas Sound loudspeakers Model C5A, C10A or 803A, 8" (203mm) Dia. or Model FC104, 4" (102mm) dia. and a 70.7 (t7)volt transformer with .5, 1, 2 and 5-Watt power taps. (For individual loudspeaker specifications, request the sheet for the appropriate model). Models also include a 4' (1219mm) suspension chain and all necessary hardware.

M980 models may be suspended in most tile ceilings for upward, downward, horizontal or angled sound dispersion as required to meet specific acoustic objectives and code requirements.

Heavy-gauge CRS enclosure is undercoated and lined with 1½ lb./cu. ft. density fiberglass to eliminate metallic resonance in the high end of the frequency spectrum. Perforated steel baffle is constructed of one-piece CRS and employs a reticulated polyurethane foam filter with a 60% opening to protect the unit from dust and indoor environmental hazards. Enclosure and baffle are finished in black epoxy. Series is available with optional rotary switch wired to the transformer primary (suffix model with -RS) and optional conduit box complete with ½" (13mm) conduit knockouts (suffix model with -BX). (For more information on these options, request SL9-1149.)

SPECIFICATIONS							
MODEL*	ATLAS SOUND LOUDSPEAKER**	MAGNET	POWER		ENCLOSURE		BAFFLE DIA.
		WEIGHT	RATING***	TAPS	VOLUME	DIMENSIONS	
M980-S1T7	S1: 8" Dual Cone ModelC5A	5 oz.	10 Watts	.5, 1, 2, 5 Watts	650 cu. in. (0.01 m <sup>3</sup> )	11⅝" (302 mm) Dia. x 6" (152 mm) Deep	12¼" (324mm) O.D.
M980-S2T7	S2: 8" Dual Cone ModelC10A	10 oz.	12 Watts				
M980-S3T7	S3: 8" Coaxial ModelC803A	LF10 oz./ HF 2.35 oz.	16 Watts				
M980-S4T7	S4: 4" High Compliance	10 oz.	10 Watts				

\* (T7) designates Atlas Sound 70.7V xfmr Model LT-70; Refer to SL1-1369 for complete specifications and information. Selected 12V and 100V line transformers are also available; contact factory.

\*\* For additional loudspeaker specifications, request individual SL spec sheets on models indicated.

\*\*\* Continuous Power Rating.

Base Model	Transformer (required)	Optional (one or both)		Speaker		Encl. Volume (cu. in.)	Dispersion Angle
		Conduit Box	Rotary Switch	Size	Model **		
M980-S1	T7	-BX★	-RS	8"	C5A	650 cu. in.	Upward, downward, horizontal, & angled
M980-S2	T7	-BX★	-RS	8"	C10A	650 cu. in.	
M980-S3	T7	-BX★	-RS	8"	C803A	650 cu. in.	
M980-S4	T7	-BX★	-RS	4"	FC104	650 cu. in.	

★ BX Models conform to UL1480.

Specifications subject to change without notice



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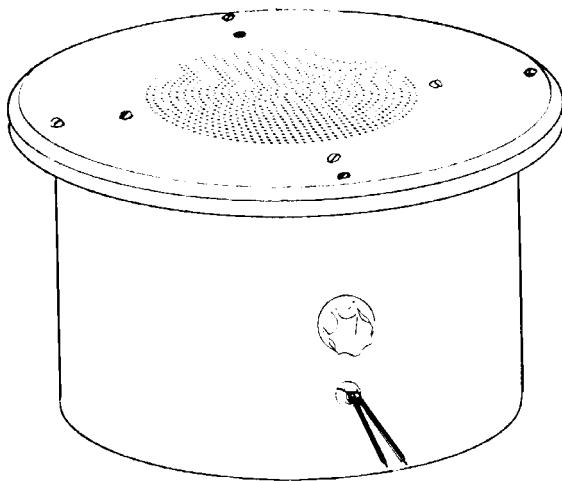
# FOR YOUR INFORMATION: SOUND MASKING ACCESSORIES

Rotary Switch (-RS)  
Conduit Box (-BX)

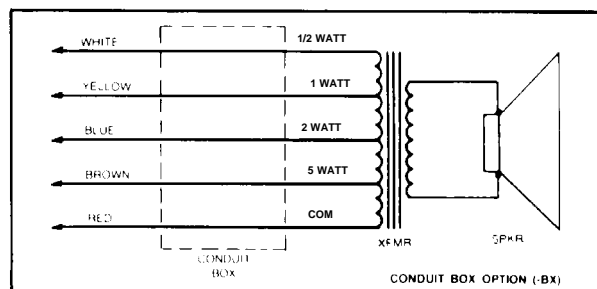
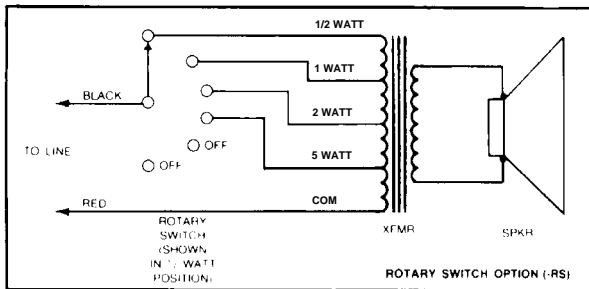
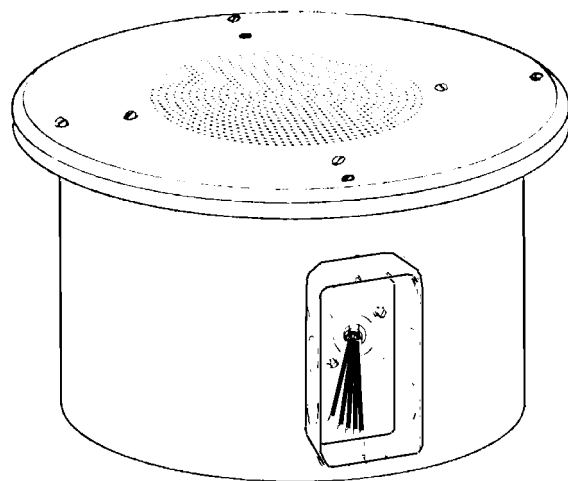
The following rotary switch and conduit box options are available on all Atlas Sound masking loudspeaker assemblies: Model Series M812, M813, M900, M940, and M980. For more information on specific loudspeaker models or sound masking in general, request additional specification sheets.

## ROTARY SWITCH AND CONDUIT BOX OPTIONS FOR NOTED MASKING ASSEMBLIES USING ROUND ENCLOSURES

ROTARY SWITCH OPTION (-RS)



CONDUIT BOX OPTION (-BX)



Suffix model number with “-RS” for rotary switch version (ex: M980-S1T7-RS). This option includes a six-position rotary switch with knob connected to the line transformer primary. All wattage taps can be selected with the rotary switch and an “off” position is provided for increased flexibility. Hook-up is accomplished by threading two color-coded leads through the grommetted hole in the enclosure.

Suffix model number with “-BX” when the job requires a conduit box installed on the outside of enclosure (ex: M940-S4T2-BX). Units include color-coded, five-wire cable for easy wattage tap selection on transformer primary. Conduit box has 1/2” (13mm) knockouts and is supplied with cover.

Specifications subject to change without notice



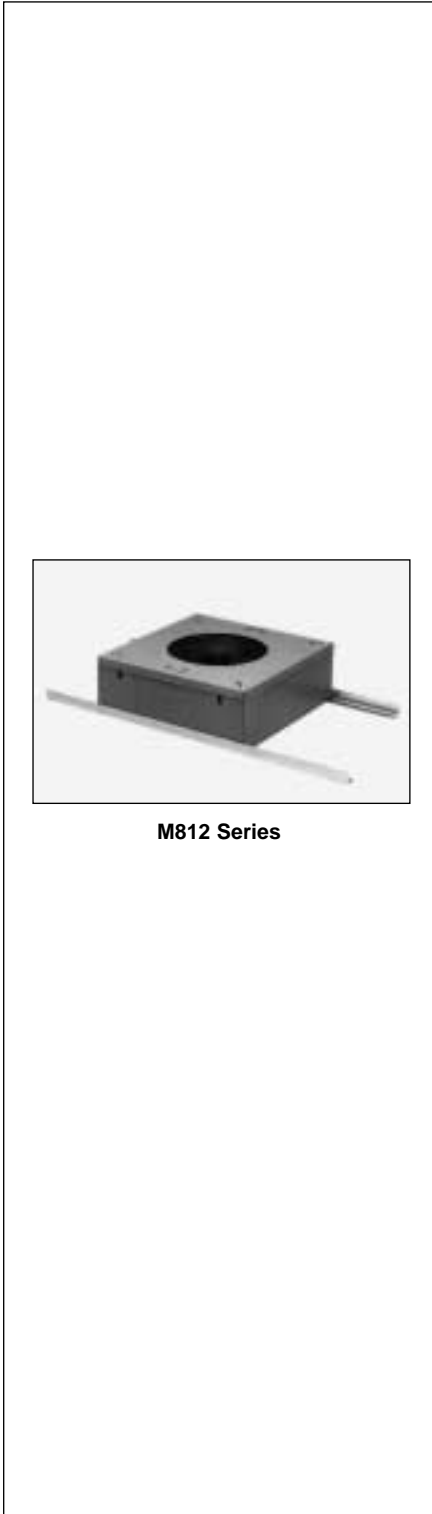
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# CHANNEL MOUNTING SOUND MASKING 8" LOUDSPEAKER ASSEMBLIES

M812 Series



M812 Series

## FEATURES

- Completely Assembled and Wired for Easy Installation
- Specifically Designed for Installation in Suspended Tile Ceiling Systems
- Finished in Black Epoxy

## SOUND MASKING — GENERAL INFORMATION

Open office plan designs are becoming increasingly popular. To maintain a successful acoustic environment in such areas, it is important to take into account the interacting variables which influence office privacy. All components must be coordinated: ceiling/wall treatments, furniture/furnishings, and HVAC systems. In most cases, a sound masking system will also be required to achieve adequate speech privacy at normal voice levels. Masking systems aid in creating continuous background coverage by adding low level sound to obscure ambient noise. The intelligibility of surrounding speech is reduced, as well as the distraction from daily office activity noise.

The selection and placement of masking loudspeakers to control ambient sound is essential for achieving sound privacy in an open office environment; this is true for individual workspaces, as well as in common areas frequented by office workers (i.e., hallways and lounges). Without similar sound levels in both, the workspace could be perceived as noisy. In areas where accurate speech communication is necessary (i.e., conference or meeting rooms), masking is not recommended.

These models are specifically designed for use in T-Bar support systems and are ideal for shallow ceiling applications. Because the loudspeaker is situated as close to the T-Bar as possible, the remaining area enables maximum sound dispersion. Additional units may be required in the following instances: the transmission loss of ceiling panels is low; the distance between the tiles and soffit deck is shallow; the area is occupied by equipment (i.e., HVAC equipment); and if the workspace below has a lower ceiling and small cubicles. (Refer to PN 484016 for more information on sound masking.)

## MODEL DESCRIPTION

Select from two square enclosures, two Atlas Sound 8" (203mm) dia. loudspeakers (Model C5A or C10A), and 70.7V (T7) factory-installed transformers. All models allow upward sound dispersion and include two 23 $\frac{3}{4}$ " (603mm) channel support rails and the necessary hardware for installation in T-Bar ceilings. Heavy-gauge CRS enclosures are acoustically treated with undercoating and 1 $\frac{1}{2}$  lb./cu. ft. density fiberglass to absorb the resonance associated with high-frequency sound transmission. Model M813 is supplied with a larger volume enclosure which may improve low frequency response. All units are finished in black epoxy.

Factory-mounted and wired 70.7V (T7) transformer is supplied with .5, 1, 2, and 5-watt primary taps. Taps are externally accessible to facilitate power selection without dismantling the assembly. All units are available with optional rotary switch wired to the transformer primary (suffix model with -RS) and optional conduit box complete with  $\frac{1}{2}$ " (13mm) conduit knockouts (suffix model with -BX). For more information, refer to SL9-1149.

**M812 Series.** Square enclosure offers a cubic content of 529 cu. in. (.087 m<sup>3</sup>) C10A, 8" Dia. loudspeaker and a 70.7V (T7) transformer. Loudspeaker mounting plate contains no perforated grille and thus positions the speaker cone as fully exposed.

Specifications subject to change without notice



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SPECIFICATIONS								
MODEL*	ATLAS SOUND LOUDSPEAKER**	MAGNET WEIGHT	POWER		ENCLOSURE		BAFFLE DIA.	SOUND DISPERSION
			RATING***	TAPS	VOLUME	DIMENSIONS		
M812-S2T7	S2: 8" Dual Cone Model C10A	10 oz.	12 Watts	.5, 1	529 cu. in.	11½" (295 mm) Sq.	None	Upward
				2, 5	(.087 m <sup>3</sup> )	x 4" (102 mm) Deep		
M813-S2T7	S2: 8" Dual Cone Model C10A	10 oz.	12 Watts	Watts	1322 cu. in.	11½" (295 mm) Sq.		
					(.021 m <sup>3</sup> )	x 10" (254 mm) Deep		

\* (T7) designates Atlas Sound 70.7V Xfmr Model LT-70; Selected 100V line transformers are also available; contact factory.  
 \*\* For additional loudspeaker specifications, request individual specification sheets on models indicated.  
 \*\*\* Continuous Power Rating.

### ARCHITECT AND ENGINEER SPECIFICATIONS

**M812 Series.** Sound masking assembly shall be Atlas Sound Model \_\_\_\_\_. Unit shall contain Atlas Sound 8" (203 mm) dia. loudspeaker Model C10A equipped with a 70.7 volt transformer, an enclosure, baffle, and related mounting hardware. System shall be factory-assembled, wired, and ready for installation. Assembly shall include transformer leads externally accessible with .5, 1, 2, and 5-watt power taps

clearly identified. Suitable strain relief shall be installed to protect transformer leads. The CRS enclosure shall measure \_\_\_\_\_ [M812: 11½" (295 mm) Sq. x 4" (102 mm) D; It shall have a volume of \_\_\_\_\_ [M812: 529 cu.in. (0.087 m3); Enclosure shall be undercoated and have 1½ lb./cu. ft. density fiberglass installed. Enclosure shall be finished in black epoxy.



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# SUSPENSION MOUNTING ECONOMY SOUND MASKING LOUDSPEAKER ASSEMBLIES

M900 Series



M900 Series

## FEATURES

- Pre-Assembled Units Include 8" Dia. Loudspeaker, Transformer, Enclosure, Baffle, and Mounting Hardware
- Labor-Saving Hardware Package, Complete with New Snap Hooks, Allows Quick and Easy Installation
- Design Enables Upward, Downward, Horizontal, or Angled Sound Dispersion
- Suitable for Use Above Suspended Ceiling Systems
- Black Epoxy Finish

## SOUND MASKING — GENERAL INFORMATION

To maintain a successful acoustic environment in open office plan areas, it is important to take into account the interacting variables which influence office privacy. All components must be coordinated: ceiling/wall treatments, furnishings, and HVAC systems. In most cases, a sound masking system will also be required to achieve adequate speech privacy at normal voice levels. Such systems aid in creating continuous background coverage by adding low level sound to obscure ambient noise. The intelligibility of surrounding speech is reduced, as well as the distraction from daily office activity noise.

The selection and placement of masking loudspeakers to control ambient sound is essential for achieving sound privacy in an open office environment; this is true for individual workspaces, as well as in common areas frequented by office workers (i.e., hallways and lounges). Without similar sound levels in both, the workspace could be perceived as noisy. In areas where accurate speech communication is necessary (i.e., conference or meeting rooms), masking is not recommended.

Sound masking systems are most effective if installed between the soffit and ceiling grid. Suspended models minimize direct sound transmission to the ceiling's gridwork. Additional units may be required in the following instances: the transmission loss of ceiling panels is low; the distance between the tiles and soffit deck is shallow; the installation area is occupied by equipment (i.e., HVAC equipment); and if the workspace below has a lower ceiling and small cubicles. (Refer to PN 484016 for more information on sound masking.)

## MODEL DESCRIPTION

**M900 Series.** Economically priced sound masking assemblies offer opportunities when budget constraints exist. These versatile units offer the same quality construction and similar performance as the Atlas Sound M980 Series (described on SL9-1245) in a lower-priced package. The M900 models may be suspended above most ceilings for upward, downward, horizontal, or angled sound dispersion as required to meet specific acoustic objectives and code requirements.

Assemblies arrive completely wired and ready for installation. Each unit features a 325 cu. in. (.005 m<sup>3</sup>) enclosure and is available with a choice of two Atlas Sound 8" (203mm) dia. loudspeakers (Model C5A or C10A) and a 70.7-volt transformer with .5, 1, 2, and 5-watt power taps. (For individual loudspeaker specifications, request the sheet for the appropriate model.) Models also include a 4' (1219mm) suspension chain and all necessary hardware.

Heavy-gauge CRS enclosure has a black epoxy finish and patch jute lining. Perforated steel baffle is of one-piece CRS design and employs a reticulated polyurethane foam filter with a 60% opening to protect the unit from dust and indoor environmental hazards. Baffle is also finished in black epoxy. Series is available with optional conduit box complete with 1/2" (13mm) conduit knockouts (suffix model with -BX). (For more information on these options, request SL9-1149.)

Specifications subject to change without notice



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SPECIFICATIONS								
MODEL*	ATLAS SOUND LOUDSPEAKER**	MAGNET WEIGHT	POWER		ENCLOSURE		BAFFLE DIA.	SOUND DISPERSION
			RATING***	TAPS	VOLUME	DIMENSIONS		
<b>M900-S1T7</b>	S1: 8" Dual Cone Model C5A	5 oz.	10 Watts	.5, 1, 2,	325 cu. in.	9 7/8" (251 mm) Dia.	12 3/4"	Upward,
<b>M900-S2T7</b>	S2: 8" Dual Cone Model C10A	10 oz.	12 Watts	5 Watts	(0.005 m <sup>3</sup> )	x 4 1/4" (108 mm) Deep	(324 mm) O.D.	Downward, Horizontal, or Angled

\* (T7) designates Atlas Sound 70.7V Xfmr Model LT-70. Refer to SL1-1369 for complete specifications and information.  
 \*\* For additional loudspeaker specifications, request individual specification sheets on models indicated.  
 \*\*\* Continuous Power Rating.

### ARCHITECT AND ENGINEER SPECIFICATIONS

**M900 Series.** Sound masking assembly shall be Atlas Sound Model \_\_\_\_\_. Unit shall contain Atlas Sound 8" (203mm) dia. loudspeaker Model \_\_\_\_\_, equipped with a 70.7-volt transformer, an enclosure, baffle, and related mounting hardware. It shall be factory-assembled, wired, and ready for installation. Model shall include transformer leads externally accessible with .5, 1, 2, and 5-watt power taps clearly identified. Suitable strain relief shall be installed to protect transformer leads.

The CRS enclosure shall measure 9 7/8" (251mm) dia. x 4 1/4" (108mm) deep and have a volume of 325 cu.in. (.005 m<sup>3</sup>). It shall have a black epoxy finish and patch jute lining.

Baffle shall be a sturdy steel one-piece CRS grille measuring 12 3/4" (324mm) in diameter. The grille shall have a perforated loudspeaker

opening. Assembly shall have a cover gasket of reticulated polyurethane foam material with a 60% opening installed between the baffle plate and loudspeaker. Baffle shall have a black epoxy finish.

Assembly shall include a 4' (1219mm) suspension chain harness which fastens by means of spring steel snap hooks (supplied) to holes provided on the face of the baffle and on the mounting ring on the back of the enclosure. Chain shall be adjusted for (upward, downward, horizontal, or angled) \_\_\_\_\_ radiation.

### MOUNTING FEATURES

Adjust suspension chain (via supplied spring steel snap hooks) for desired dispersion angle:

- **Upward Radiation.** Affix chain to holes located on the face of the baffle (with baffle pointing up).
- **Downward Radiation.** Affix chain to holes located on the face of the baffle (with baffle pointing down).
- **Horizontal Radiation.** Affix chain to a hole located on the face of the baffle and to a hole located on the rear mounting strap.
- **Angled Radiation.** Any desired angle can be achieved by altering the suspension point on the chain harness.

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## ARCHITECT AND ENGINEER SPECIFICATIONS

**M980 Series.** Sound masking assembly shall be Atlas Sound Model \_\_\_\_\_. Unit shall contain Atlas Sound \_\_\_\_\_, dia. loudspeaker Model \_\_\_\_\_, equipped with a 70.7-volt transformer, an enclosure, baffle, and related mounting hardware. It shall be factory-assembled, wired, and ready for installation. Model shall include transformer leads externally accessible with .5, 1, 2, and 5-watt power taps clearly identified. Suitable strain relief shall be installed to protect transformer leads.

The CRS enclosure shall measure 11 $\frac{1}{8}$ " (302 mm) x 6" (152 mm) D and have a volume of 650 cu.in. (0.01 m<sup>3</sup>). It shall be undercoated and have 1 $\frac{1}{2}$  lb./cu. ft. density fiberglass installed.

Baffle shall be a sturdy steel one-piece CRS grille measuring 12 $\frac{3}{4}$ " (324 mm) in diameter. Grille shall have a perforated loudspeaker

opening. Assembly shall have a cover gasket of reticulated polyurethane foam material with a 60% opening installed between the baffle plate and loudspeaker. Baffle and enclosure shall be finished in textured black epoxy.

Assembly shall include a 4' (1219 mm) suspension chain harness which fastens by means of spring steel snap hooks (supplied) to holes provided on the face of the baffle and on the mounting ring on the back of the enclosure. Chain shall be adjusted for (upward, downward, horizontal, or angled) \_\_\_\_\_ radiation.

## SOUND MASKING — GENERAL INFORMATION

Open office plan designs are becoming increasingly popular. To maintain a successful acoustic environment in such areas, it is important to take into account the interacting variables which influence office privacy. All components must be coordinated: ceiling/wall treatments, furniture/furnishings, and HVAC systems. In most cases, a sound masking system will also be required to achieve adequate speech privacy at normal voice levels. Masking systems aid in creating continuous background coverage by adding low level sound to obscure ambient noise. The intelligibility of surrounding speech is reduced, as well as the distraction from daily office activity noise. The selection and placement of masking loudspeakers to control ambient sound is essential for achieving sound privacy in an open office environment; this is true for

individual workspaces, as well as in common areas frequented by office workers (i.e., hallways and lounges). Without similar sound lev-

els in both, the workspace could be perceived as noisy. In areas where accurate speech communication is necessary (i.e., conference or meeting rooms), masking is not recommended. Sound masking systems are most effective if installed between the soffit and ceiling grid. Suspended models minimize direct sound transmission to the ceiling's gridwork. Additional units may be required in the following instances: the transmission loss of ceiling panels is low; the distance between the tiles and soffit deck is shallow; the plenum is occupied by equipment (i.e., HVAC equipment); and if the workspace below has a lower ceiling and small cubicles. (Refer to PN 484016 for more information on sound masking.)

### MOUNTING FEATURES

Adjust suspension chain (via supplied spring steel snap hooks) for desired dispersion angle:

- **Upward Radiation.** Affix chain to holes located on the face of the baffle.
- **Downward Radiation.** Affix chain to the rear mounting ring by attaching the hooks through the holes located in the perimeter of the ring.
- **Horizontal Radiation.** Affix chain to a hole located on the face of the baffle and to a hole located on the rear mounting ring.
- **Angled Radiation.** Any desired angle can be achieved by altering the suspension point on the chain harness.

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