



Amplifiers

This page last updated January 26, 2022.

Rowe Industries Tube Amps:

In 1959/1960, six amplifiers using vacuum tubes (thermionic valves) were introduced under the Rowe Industries name. Four of these were also branded as CF Martin as follows:

Rowe Industries Model R5 (RM5) – CF Martin Model M110

Rowe Industries Model R5T M110T (RM5T) – CF Martin Model

Rowe Industries Model R15 (RM15) – CF Martin Model M112

Rowe Industries Model R15T M112T (RM15T) – CF Martin Model

Rowe Industries Model 25T – No CF Martin equivalent

Rowe Industries Studio Amp equivalent. – No CF Martin

Rowe Industries' in-house names for the CF Martin-badged amps are shown in brackets after the official names above.

DeArmond catalog extracts are shown with each individual

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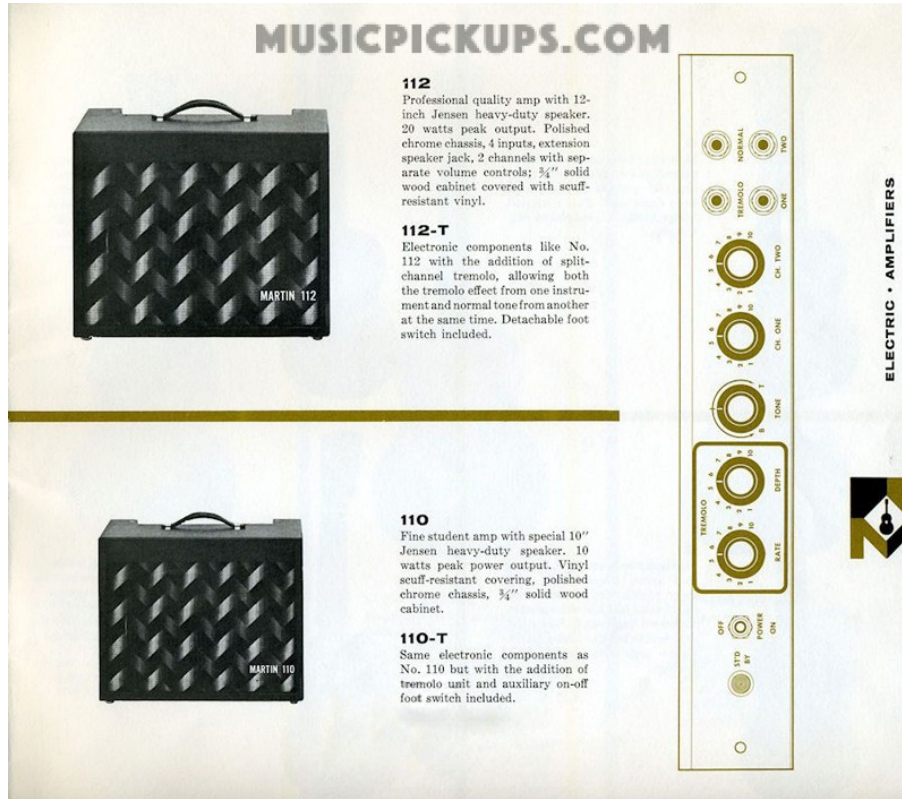
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The following is a single page extract from a CF Martin Tube amp catalog, covering their four models:



(photo courtesy CF Martin)

CF Martin separately commissioned a series of transistorised amplifiers from Allen Organ, a company in Lehigh Valley, Pennsylvania.

A schematic diagram and operating instructions were supplied with every Rowe Industries and CF Martin amp. A label was applied to the inside of every amp showing the vacuum tubes layout, the amp's serial number and on some amps, a code that may identify the employee in charge of assembly and testing. The amp's serial number was also rubber-stamped on the inside of the metal chassis. See

bases

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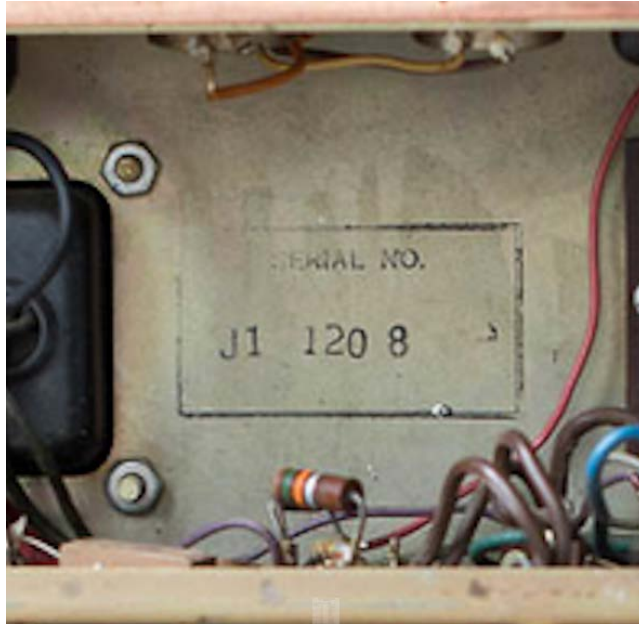
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typical label below.

The serial number for an R5T amp rubber-stamped on the inside of the metal chassis:



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Potentiometers Factory-fitted in Rowe DeArmond/CF Martin Tube Amps - April 23, 2020.

DeArmond Item	Description	Information source	Function	Manuf.	Pot code	DeArmond part no.	Details
R5 & Studio Amp	Tube Amp, c. 1960	Schematic	Tone			RA1 RA-2902	650KΩ; 1/4" plain shaft
			Volume			RA2 R-31	1 MegΩ
			Tone			RA1 RA-2902	650KΩ ; 1/4" plain shaft
			Volume			RA2 R-31	1 MegΩ
R5T	Tube Amp, c. 1960	Schematic	Trem Rate			RA3 R-31	1 MegΩ
			Trem Depth			RA4 R-33	350KΩ CCW Taper
			Tone			RA1 RA-2902	650KΩ
			Ch. 1 Vol.			RA2 R-2903	350KΩ
R15/CF Martin 110	Tube Amp, c. 1960	Schematic	Ch. 2 Vol.			RA3 R-2903	350KΩ
			Tone			RA1 RA-2902	650 Meg.
			Ch. 1 Vol.			RA2 RA-2903	350KΩ
			Ch. 2 Vol.			RA3 RA-2903	350KΩ
R15T/CF Martin 110T	Tube Amp, c. 1960	Schematic	Trem Rate			RA4 R-31	1 MegΩ
			Trem Depth			RA5 R-33	350KΩ CCW Taper
			Ch. 1 Vol.			RA1 RA-2903	350KΩ
			Ch. 2 Vol.			RA2 RA-2903	350KΩ
R25T	Tube Amp, c. 1960	Schematic	Bass			RA3 R-31	1 MegΩ
			Treble			RA4 R-31	1 MegΩ
			Trem Rate			RA5 R-31	1 MegΩ
			Trem Depth			RA6 - R33	350KΩ CCW Taper

Every Rowe Industries and CF Martin amp with a tremolo circuit , identified with suffix T in its title, was supplied with a foot switch, Model TFS-1, either hardwired or removable, initially by means of a jack socket which was later replaced by

a phono socket on the underside of the amp chassis. The switch itself was manufactured by Leviton, and is the same type as used in the controls box for the Models 1000 and 1100 Rhythm Chief pickups. The foot switch is shown below:

Foot switch TFS-1 (Photo copyright Brian Howard):



Erie Packs:

An interesting feature of some tube amps sold under both Rowe Industries and CF Martin brands was the inclusion of one or more electronic circuits in maroon-coloured hard resin encapsulations. These items were called 'Erie Packs' by the employees and were most likely produced in this way in order to prevent copying of the circuits by rivals.

The following information is from Rowe Industries' own in-house manuals (Courtesy Tom Ricketts, Toledo):

Part:

Description:

Amp

ref:

Quantity:

TBA-196.	Strip Pac. (Invertor) Erie Resistor # EP-9097 R15 & RM15	1
TPA-197 1	Strip Pac. (Invertor) Erie Resistor # EP-9097- R15T, RM15T & R25T	1
TPA-198. 9098	Strip Pac. (Input) Erie Resistor # EP- R15T, RM15T & R25T	1
TBA-199 9099	Strip Pac. (coupler) Erie Resistor # EP- R15T & RM15T & R25T	1
TBA200 >	Strip Pac. <— Text is unreadable here — R15 & RM15	1
TBA-201	Tone Pac. CRL#YFE-020-03A4B R25T.	1

An Erie Pack can be seen in the schematic diagram below, marked EP-9097, with ten numbered connections exiting from it. The item itself can be seen in the lower centre of the amp chassis in the rear view of the amp.



Model R5 (photos
copyright Kevin
Miller)

Model R5 (photos
copyright Kevin
Miller)



Model R15 Amp.
(All six photos of
this amp shown
here are
copyright Real
Guitars, San
Francisco)

This extract from
DeArmond's tube
amps catalog
shows the control
panel layout for
this amp.

This view shows
the 'tubes layout'
label affixed to
the inside lower
Left-hand side of
the amp's front
panel.



The 'tubes layout'
label also shows
the amp's serial
number. This
number includes
an alphabetic
prefix. The
alphabetic
prefixes already
seen include A, B,
E, HI, J, JI, L, MH,
MK and ML. The

This close-up
shows the Jensen
speaker's EIA
(Electronics
Industry Alliance)
code number -
220 045. The EIA
number assigned
to Jensen was
220. The
numerals 045
denote year '0',

A schematic
diagram and
instructions were
supplied with
every amp. An
interesting
feature of every
tube amp sold
under both
DeArmond and
CF Martin brands
was the inclusion

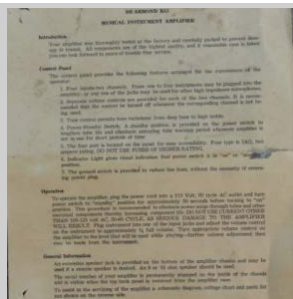
logic behind this system awaits clarification.

which is 1960, with '45' denoting the 45th week of that year.

of a number of electronic components in one or more maroon-coloured resin-encapsulations. This item is seen is seen at the top of the schematic diagram above, marked EP-9097, with ten numbered leads exiting from it. The item itself can be seen in the lower centre of the amp chassis in the rear view of the amp above.



Three such resin encapsulations can be seen in this



Model R15T

photo of an R15-T
amp.



Studio amp. This item was designed as a wall-mounting version of the R5T amp, with a built-in stand for sheet music (Photo copyright Grossman Music Corp.)

Model R25T
(photo copyright The Tiny Acorn)

This is the foot-switch as supplied with every Tube amp manufactured by DeArmond. The metal baseplate of this switch is stamped Rowe-DeArmond.

Rowe-DeArmond's 1965 catalog includes the following note on it's last page:

'DeArmond Amplifiers are booming in a big way!

Watch for the expanded line of DeArmond "amps" for 1965-66, from Rowe Industries of Toledo.'

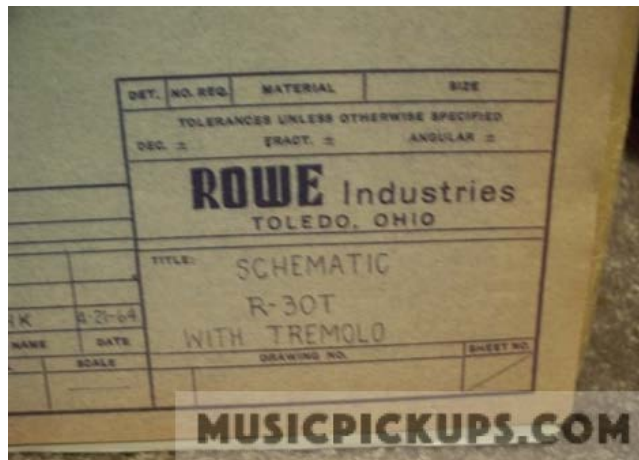
The company designed several products that did not reach production. These included tube amps, pickups and an electric piano fitted with one string. Depressing a key would change the length of the string to achieve the required pitch,

while striking the string. A small number of prototypes were seen in the company's by Steve Tosh, the company's last C.E.O. in 1975, when he joined. See the Patent for this item in the Patents section of this site.

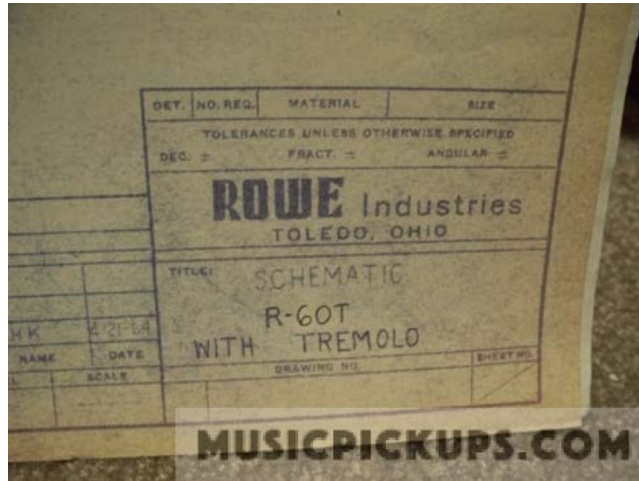
Rowe Industries' schematic drawings exist for the Model R6-T (undated and incomplete) and the Models R30-T and R60-T, both dated April, 21st, 1964. See below:



Rowe Industries Amp R - 6T Schematic Title Block, undated.



Rowe Industries Amp R - 30T Schematic Title Block dated April 21, 1964.



Rowe Industries Amp R – 60T Schematic Title Block dated April 21, 1964.

A chassis exists for another amplifier, the DeArmond Model R 10T, complete with copper-finished control panel. This amp was also not produced commercially.



Rowe Industries Amp R 10T Control panel (above four photos and text copyright Dave Walters, Toledo and ex-DeArmond)

CF Martin Tube Amps:

These were as standard DeArmond models with cosmetic differences only, including a different baffle material, black

fabric covering, a chrome control panel and black knobs:



Model 110 (as R5) (photos copyright David Boltz)



Model 110 (as R5) (photos copyright David Boltz)



Model 110T (as R5T) (photo copyright Photoshop Steve)



Model 112 (as R15) (photo copyright Bluespower)



Although it has a DeArmond logo attached and a non-standard grille cloth, this in fact a CF Martin Model 112. The DeArmond logo is appropriate in this case as this was Harry DeArmond's own amplifier, used



Model 112T (as R15T).

regularly by him,
 photographed in
 the basement
 workshop of his
 home in Toledo,
 Ohio. Its serial
 number is F6
 2013 (Serial
 number
 information
 courtesy of
 Charley Barnhart,
 Harry
 DeArmond's
 grandson.

DeArmond Solid-state Amps:

In 1970, Steve Tosh joined the company He designed a range of solid-state amplifiers and speaker cabinets for guitars, basses and PA as shown below. Steve was appointed CEO of the deArmond side of the company in about 1977:



Guitarist 20 Amp
 (photo copyright
 metaphoria3)



Guitarist 40 Amp
 (photo copyright
 B. Corbett)
 Bassist 1



Bassist 20 Amp
 (Photo courtesy
 of David Byrne)



Bassist 40
(photos copyright
Eyezon Guitarz)



M25 PA speaker
cabinet (photos
copyright Mike
petraglia)



M25 PA speaker
cabinet (photos
copyright Mike
petraglia)



Stage Monitor
Model M10P-
40VC (photos
copyright
Foxypetals)



PA4160 Amp, and
other items



1122P PA
speaker
enclosure

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