



CONSUMER

KLIPSCH AUDIO TECHNOLOGIES

Reference R-28F/R-26F/R-24F Floorstanding Speaker Service Manual

Product Type: R-28F Floorstanding Speaker/R-26F Floorstanding Speaker/R-24F Floorstanding Speaker
Manual Part #: 1061500
Model Line: Reference
Product Launch Year: 2014

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Service Manual – Consumer

Specifications

Cut Sheet Data

Model: **R-28F**

SPECIFICATIONS	
FREQUENCY RESPONSE	35Hz - 24kHz +/- 3dB
SENSITIVITY	98dB @ 2.83V / 1m
POWER HANDLING (CONT/PEAK)	150W/600W
NOMINAL IMPEDANCE	8 Ohms Compatible
LOW FREQUENCY EXTENSION	32Hz
CROSSOVER FREQUENCY	1800Hz
HIGH FREQUENCY DRIVER	1" (2.54cm) Aluminum diaphragm compression driver mated to 90° x 90° square Tractrix® Horn
LOW FREQUENCY DRIVER	Dual 8" (20.3cm), copper spun magnetically shielded IMG woofers
ENCLOSURE MATERIAL	MDF
ENCLOSURE TYPE	Bass-reflex via front-firing port
INPUTS	Dual binding posts / bi-wire / bi-amp
HEIGHT	42" (106.6 cm)
WIDTH	9.5" (24.1 cm)
DEPTH	15.7" (39.8 cm)
WEIGHT	56.67 lbs (25.68 kg)
FINISH	Brushed Black Polymer Veneer
BUILT FROM	2014

Service Manual – Consumer

Specifications

Cut Sheet Data

Model: **R-26F**

SPECIFICATIONS	
FREQUENCY RESPONSE	38Hz - 24kHz +/- 3dB
SENSITIVITY	97dB @ 2.83V / 1m
POWER HANDLING (CONT/PEAK)	100W/400W
NOMINAL IMPEDANCE	8 Ohms Compatible
LOW FREQUENCY EXTENSION	35Hz
CROSSOVER FREQUENCY	1800Hz
HIGH FREQUENCY DRIVER	1" (2.54cm) Aluminum diaphragm compression driver mated to 90° x 90° square Tractrix® Horn
LOW FREQUENCY DRIVER	Dual 6.5" (16.5cm), copper spun magnetically shielded IMG woofers
ENCLOSURE MATERIAL	MDF
ENCLOSURE TYPE	Bass-reflex via front-firing port
INPUTS	Dual binding posts / bi-wire / bi-amp
HEIGHT	39" (99.1 cm)
WIDTH	7.8" (19.8 cm)
DEPTH	13.5" (34.5 cm)
WEIGHT	41.9 lbs (19.02 kg)
FINISH	Brushed Black Polymer Veneer
BUILT FROM	2014

Service Manual – Consumer

Specifications

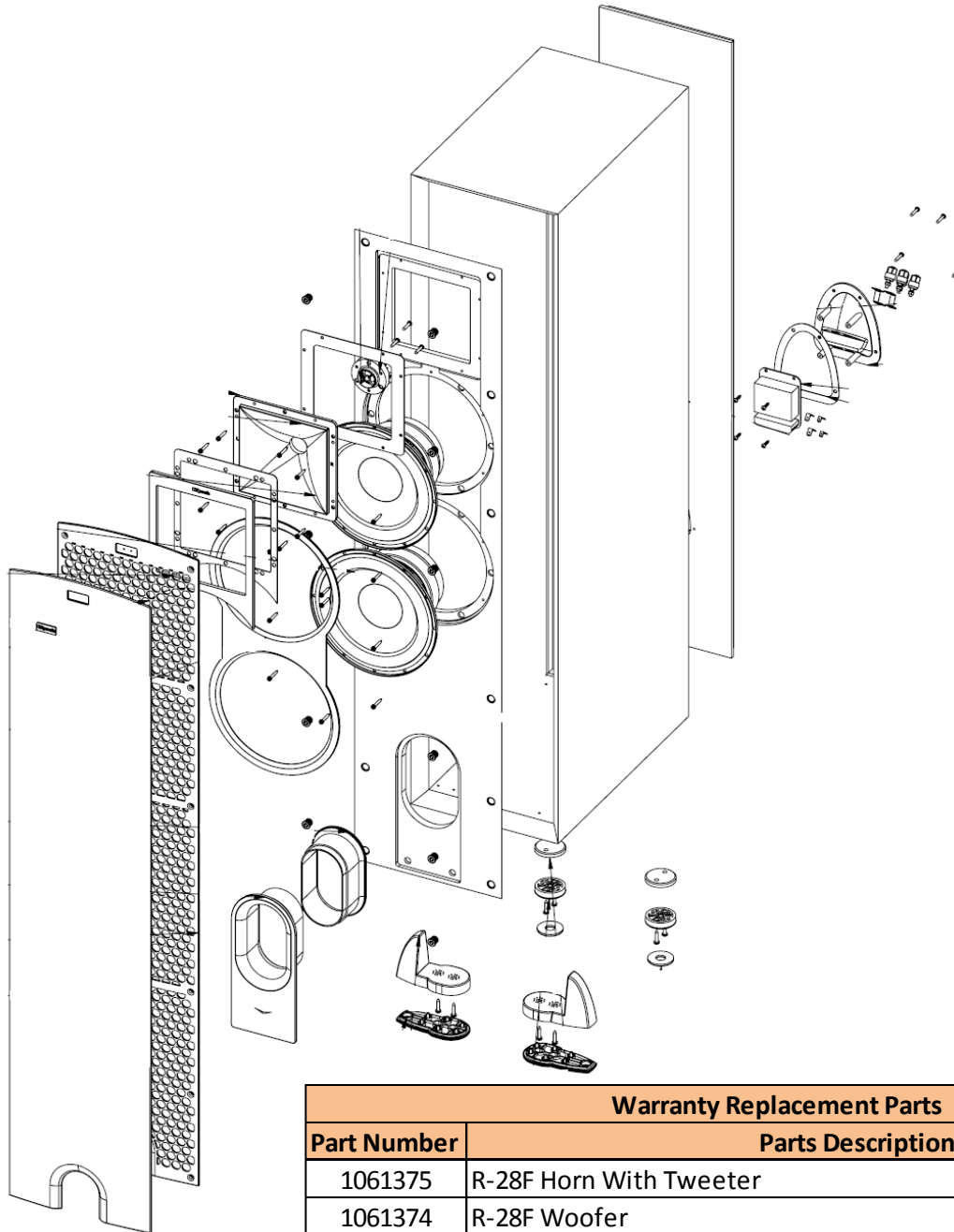
Cut Sheet Data

Model: **R-24F**

SPECIFICATIONS	
FREQUENCY RESPONSE	45 - 24k +-3dB
SENSITIVITY	95dB @ 2.83V / 1m
POWER HANDLING	75W RMS / 300W Peak
NOMINAL IMPEDANCE	8 Ohms Compatible
HIGH FREQUENCY HORN	90° x 90° Tractrix Horn
LOW FREQUENCY DRIVER	Two 4.5" (25.4cm) IMG woofers
CROSSOVER	1600Hz
ENCLOSURE TYPE	Bass-reflex via front firing port
INPUT TYPE	Dual Binding Posts / bi-wire / bi-amp
HEIGHT	34.75" (88.27cm) with feet
WIDTH	6.5" (16.51cm)
DEPTH	10" (25.4cm) with grille
WEIGHT	25lbs (11.34kg)
FINISH	Brushed Black Polymer Veneer
BUILT FROM	2015

Exploded View and Warranty Parts List

R-28F

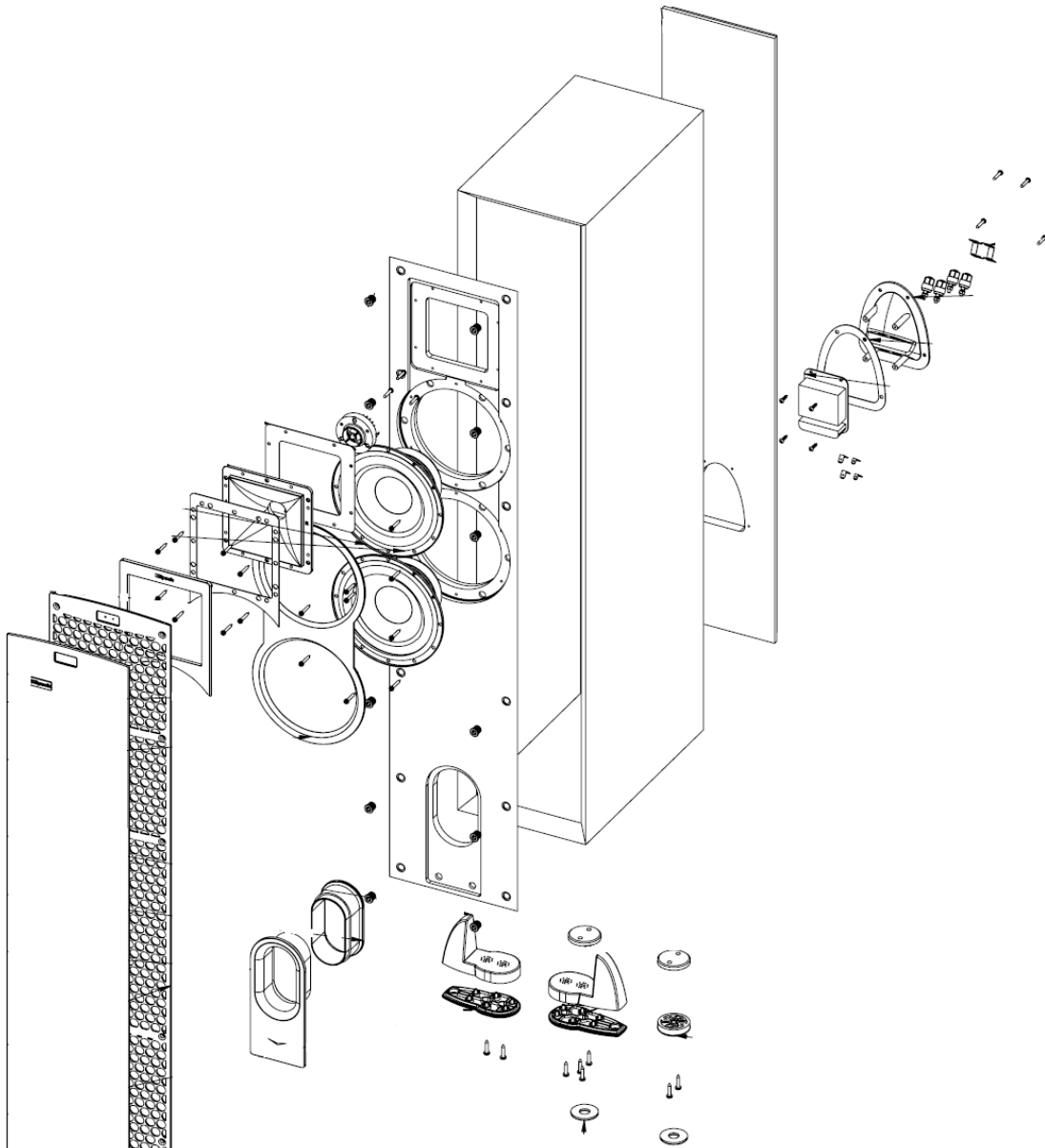


Warranty Replacement Parts	
Part Number	Parts Description
1061375	R-28F Horn With Tweeter
1061374	R-28F Woofer
1061373	R-28F Grill With Logo
1012881	R-28F/ KF-28 Network W/ Input Cup
1008865	Synergy Jumper- Right
1008866	Synergy Jumper- Left
1062276	Front Foot for Reference Base Floor Stander
1062253	Reference Base Disk Foot
1012689	F-30/ F-20/ F-10 Rubber Bumper (4 Ea)

Service Manual – Consumer

Exploded View and Warranty Parts List

R-26F

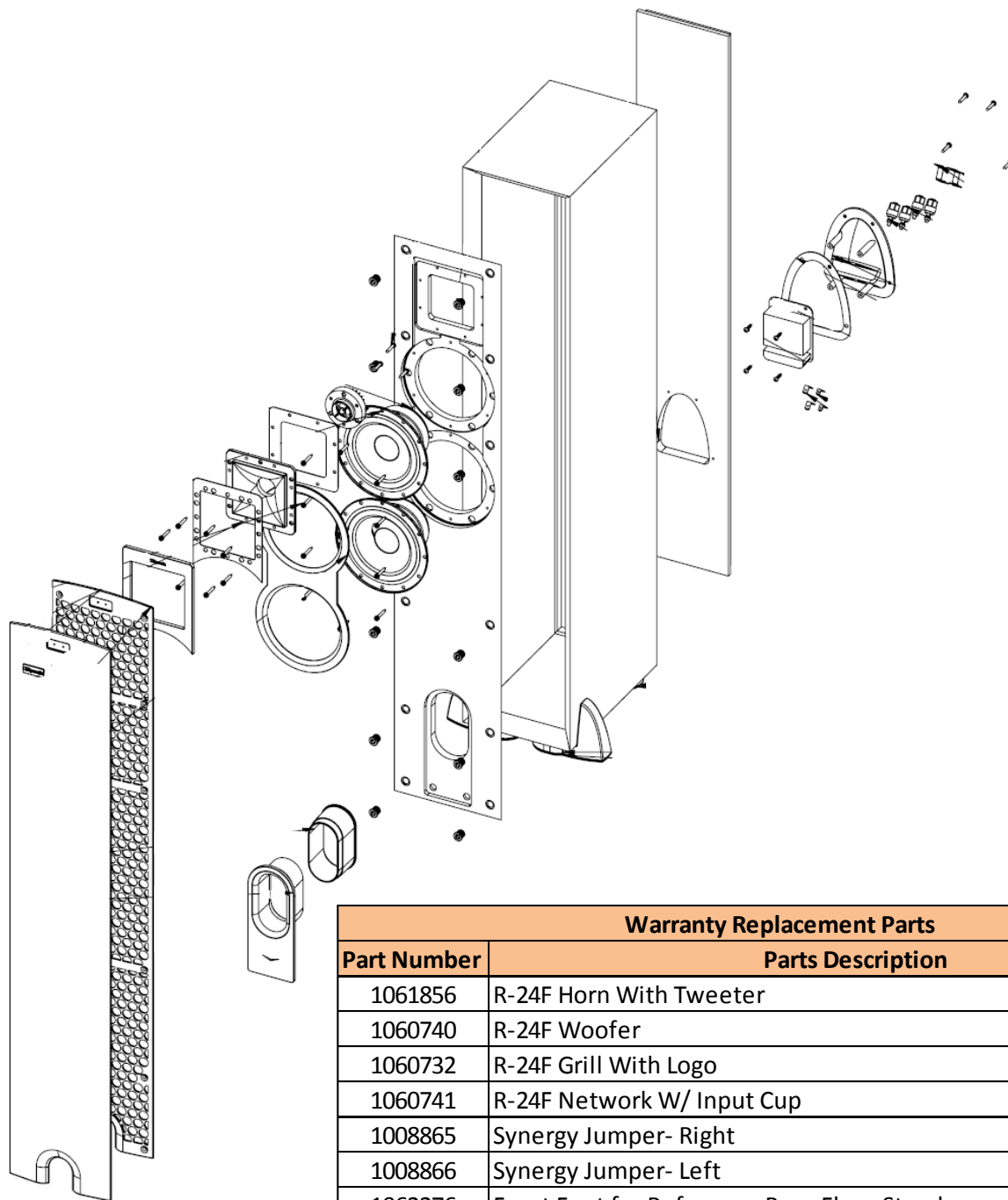


Warranty Replacement Parts	
Part Number	Parts Description
1061377	R-26F Horn With Tweeter
1061378	R-26F Woofer
1061376	R-26F Grill With Logo
1012864	R-26F/ KF-26 Network W/ Input Cup
1008865	Synergy Jumper- Right
1008866	Synergy Jumper- Left
1062276	Front Foot for Reference Base Floor Stander
1062253	Reference Base Disk Foot
1012689	F-30/ F-20/ F-10 Rubber Bumper (4 Ea)

Service Manual – Consumer

Exploded View and Warranty Parts List

R-24F



Warranty Replacement Parts	
Part Number	Parts Description
1061856	R-24F Horn With Tweeter
1060740	R-24F Woofer
1060732	R-24F Grill With Logo
1060741	R-24F Network W/ Input Cup
1008865	Synergy Jumper- Right
1008866	Synergy Jumper- Left
1062276	Front Foot for Reference Base Floor Stander
1062253	Reference Base Disk Foot
1012689	F-30/ F-20/ F-10 Rubber Bumper (4 Ea)

Service Manual – Consumer

Tweeter Removal for R-28F, R-26F, and R-24F

Tools needed:

Small flat blade screwdriver

3mm hex (Allen) key

First, with a small flat blade screwdriver, gently pry the up the trim ring around the tweeter, highlighted in red



Service Manual – Consumer

Be sure to pry the trim ring up in between the tweeter horn and the trim ring as shown below.

Prying between the trim ring and the cabinet may cause damage to the cabinet.

Pry slowly around the edge of the tweeter horn to release all the clips.



Service Manual – Consumer

Once all the clips have been released, the trim ring should come free as shown below



Service Manual – Consumer

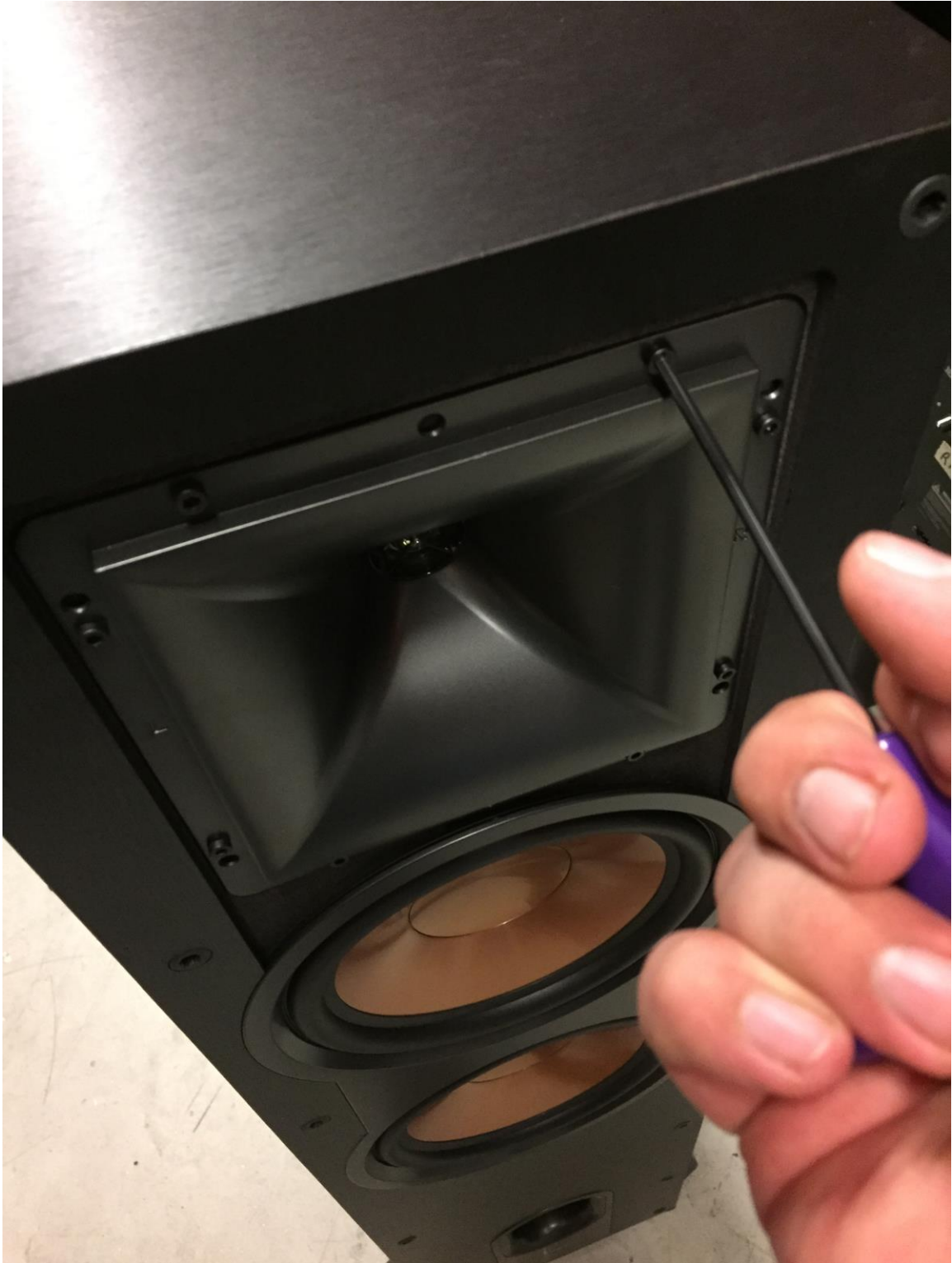
Once the trim ring is removed the speaker should look as shown below.

Next, begin removing the screws (highlighted below in red) from the perimeter of the tweeter horn.

There will be six (6) total screws to remove, each using a 3mm hex key head



Service Manual – Consumer



Service Manual – Consumer

Once all the screws have been removed, the tweeter and tweeter horn should come free as shown below.



Service Manual – Consumer

Once the tweeter is removed from the cabinet, slide back the silicone covers on the terminals, and use a small flat blade screw driver to release the wire clips holding to the positive and negative terminals of the tweeter.



Service Manual – Consumer

Once the tweeter is removed, the speaker will look as shown below.



Service Manual – Consumer

Next, plug the wires on to the new tweeter, and slide the silicone covers back over the terminals.

Place the tweeter back into position, and replace the screws.

Replace the trim ring by setting into position and gently pressing the trim ring around the edge, verifying the clips on the back are locking into place. Once this is done, the trim ring should sit flush with the front of the speaker

Service Manual – Consumer

Troubleshooting Guides

Woofer Removal for R-28F and R-26F

Tools needed:

Small flat blade screwdriver

3mm hex (Allen) key

First, with a small flat blade screwdriver, gently pry the up the trim ring around the woofers, highlighted in red



Service Manual – Consumer

Be careful when removing trim ring around the edge of the cabinet, rough handling may cause damage to the cabinet

Pry slowly around the edge of the trim ring to release all the clips.



Service Manual – Consumer

The trim ring comes off in a single assembly around both woofers as shown below.



Service Manual – Consumer

Once the trim ring is removed the speaker should look as shown below.

Next, begin removing the screws (highlighted below in red) from the perimeter of the woofer.

There will be six (6) total screws to remove, each using a 3mm hex key head



Service Manual – Consumer



Service Manual – Consumer

Once all the screws have been removed, the tweeter and tweeter horn should come free as shown below.



Service Manual – Consumer

Once the tweeter is removed from the cabinet, slide back the silicone covers on the terminals, and use a small flat blade screw driver to release the wire clips holding to the positive and negative terminals of the tweeter.



Service Manual – Consumer

Next, plug the wires on to the new woofer, and slide the silicone covers back over the terminals.

Place the woofer back into position, and replace the screws.

Replace the trim ring by setting into position and gently pressing the trim ring around the edge, verifying the clips on the back are locking into place. Once this is done, the trim ring should sit flush with the front of the speaker