

# Pilot

FOUNDED 1919

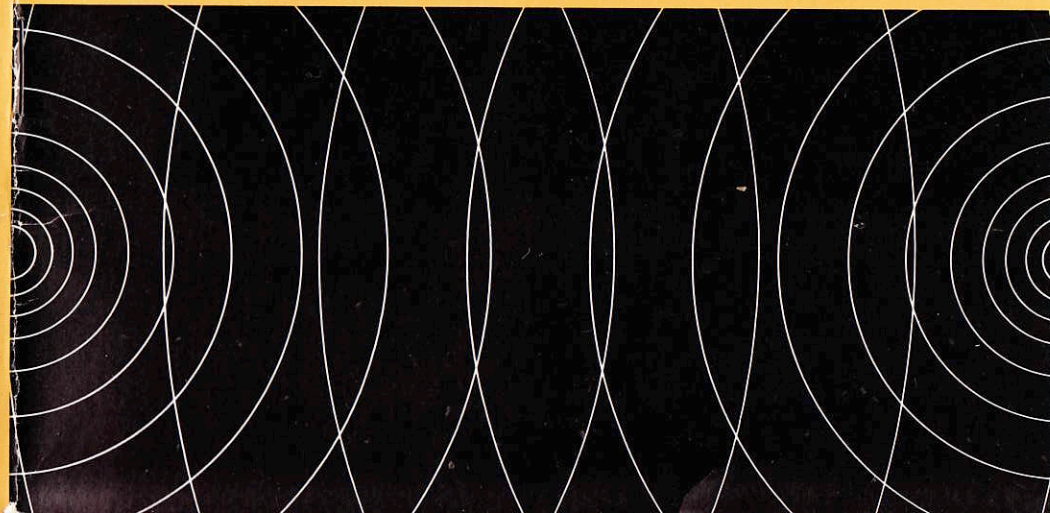
The  
Standard  
of  
Excellence  
in  
Home  
Music  
Systems

PILOT RADIO CORPORATION  
37-06 36th Street  
Long Island City 1, New York

1962 - Development and introduction of a unique, signal sampling circuit for FM stereo reception that utilizes no operating controls. 1961 - Pilot introduces instruments for the reception of FM multiplex stereo broadcasts. 1959 - Pilot introduces a new concept in stereophonic home music reproduction - The Curtain-of-Sound. 1958 - Pilot Radio Corporation converts to the design and production of stereo components and "Component-Consoles" exclusively. 1957 - Pilot designs and produces stereo components. 1954 - Pilot introduces "Component-Consoles." 1952 - Pilot produces Hi Fi equipment exclusively. 1948 - Pilot introduces first miniature television receiver, Model TV-37 - the first TV under \$100. 1947 - First FM tuners introduced by Pilot Radio. 1944 - Pilot Radio Corporation receives Army-Navy "E" Awards for excellence. 1939 - First commercial FM receivers and phonographs introduced by Pilot. 1937 - Commercial TV receivers produced by Pilot Radio and introduction of the first self-contained battery portable radios. 1930 - President Hoover invites Pilot staff members to the White House to wish them well on South American "flying laboratory" tour. This same year Pilot Radio introduced Midget and "Auto Pilot" automobile radios. 1929 - United States government issues television station license to Pilot Radio Corporation for Station W2XCL. 1928 - First TV broadcast using equipment developed and produced by Pilot demonstrated at New York University. Picture received over the air from WRNY, New Jersey. Same year Pilot equips its own Stinson seven passenger airplane as a flying laboratory for radio research and solution to bad weather problems. 1925 - First short-wave radio made available to the public - the Pilot "Super Wasp." 1919 - Pilot commences the manufacture of variable condensers, inductance coils, volume controls, dials, mica condensers, electrolytic condensers among a wide variety of radio parts and components. Largest parts manufacturers in the world for the radio ham and experimenter.

# PILOT

## STEREOPHONIC HIGH FIDELITY COMPONENTS



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## QUALITY IS MORE THAN JUST A WORD AT PILOT...

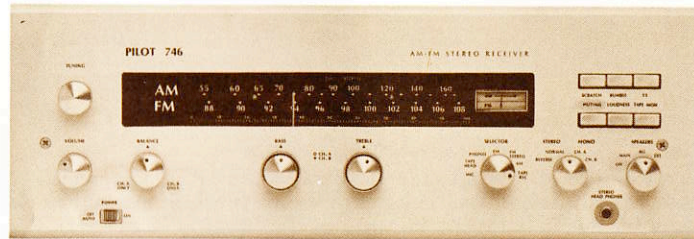
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It's a tradition. For more than 43 years Pilot's prime engineering and production criterion has been to provide the best possible instruments for music listening. Because of this, quality is as much a part of every Pilot component as are the tubes, resistors, and wires.

The process of building-in quality begins during the early design stages. Electronic engineers develop circuits and specify the best available material for every part. Audio technicians translate these specifications and blueprints into handmade samples. These are checked and tested under extreme conditions until Pilot's engineers are satisfied with both the performance and reliability of the component. Then, and only then, are materials ordered and production begun. As each part is received at Pilot it is checked to assure it's meeting Pilot's rigid standards. Trained production people hand-wire every Pilot component. At various stages during its production each component is tested. Every completed instrument receives a detailed electronic inspection. Then, it is turned on and left operating. After a period of operation it is again tested and as a final check each Pilot component gets an actual listening test. Only after successfully completing all of these tests, can a Pilot component leave the factory. To insure that it reaches you in the same condition that it leaves Pilot, it is packed in a moisture-free plastic bag, then secured in a specifically designed, rugged carton.

You can assemble your complete stereo system using Pilot quality-tested components. On the following pages you will find Stereophonic Receivers, Tuners, Amplifiers, Record Changers, Automatic Turntables and Speaker Systems—all manufactured by Pilot. No matter which you choose for your stereo system, the PILOT NAME ON THE COMPONENT IS YOUR ASSURANCE OF QUALITY!

# stereophonic



## Pilot 746

### 60 WATT FM MULTIPLEX — AM STEREO RECEIVER

Perfection! — No other word can really describe this newest Pilot stereo receiver. The FM Multiplex tuner achieves a sensitivity and capture ratio that assures absolutely perfect FM Stereo reception. The stereo separation on FM is limited only by the amount of separation the station broadcasts. Pilot's exclusive Automatic FM Stereo Indicator immediately alerts you when a station is broadcasting FM Stereo. Its AM circuitry is the finest available. Both the FM and AM tuners utilize a critically calibrated meter and flywheel tuning for maximum accuracy and ease. The stereo amplifier delivers 60 watts of pure, undistorted power. The stereo preamplifier is a home version of a professional console. It features: separate inputs for a record changer, a turntable, a tape recorder and tape heads, a front panel headphone jack and controls for every possible stereo function including tape monitoring. It even has a speaker selector switch that allows you to control speaker systems in several rooms. The dramatic styling of this component and its unsurpassable performance make it the perfect instrument for the true music lover. Dimensions are 6¼" high, 17⅝" wide and 13⅝" deep.

The Pilot 746 in brushed gold finish, less enclosure... \$399.50  
Oiled Walnut enclosure... \$27.50



Please see page 5 for complete technical specifications and features.

# receivers

The Stereophonic Receiver combines on one chassis all the needed electronics of a stereo system — FM Stereo tuner, a stereo amplifier and a stereo preamplifier — without sacrificing one iota of performance. For those who want to do their own custom installing without too many wires and cables to contend with, the Stereo Receiver is the perfect answer. Just two wires from your record player or tape recorder and two more from your speaker systems are all the connections required to complete your stereo system.



## Pilot 602MA

### 30 WATT FM MULTIPLEX STEREO RECEIVER

The Pilot 602, which led to the development of this instrument, was one of the first stereo receivers introduced. It represented a major engineering advance. Many of the engineering features of the 602 are still used as design standards for stereo receivers. The new 602MA has all the features of the 602 — compactness... rugged, reliable construction... cool operation... ease of custom installation... complete control versatility including tape monitor switch... connections for every needed sound source — record changer, turntable or tape transport and tape recorder... special center channel speaker outputs... plus a built-in multiplexer for FM Stereo reception. The unique signal-sampling circuit of Pilot's multiplexer delivers better than 30 db separation over the entire audio spectrum. The 602MA also has Pilot's exclusive Automatic FM Stereo Indicator light that immediately alerts you when a station broadcasts FM Stereo. With all these features it's easy to understand why the 602MA is America's most wanted stereo receiver. Dimensions are 5¼" high, 14⅝" wide and 11¼" deep.

In black and brass styling, complete with cover. . . . . \$249.50

Pilot 602SA — has all features of 602MA plus a highly sensitive AM tuner. Black and brass styling, complete with cover. . . . . \$299.50

Please see page 5 for complete technical specifications and features.

# stereophonic



## Pilot 610

### 24 WATT FM MULTIPLEX STEREO RECEIVER

Connect two speaker systems, turn on the unit and in seconds you're enjoying all the dramatic depth and dimension of music broadcast in FM Multiplex Stereo. The 610 utilizes Pilot's unique signal-sampling multiplex circuit that assures perfect stereo separation. Connect a record changer or a tape recorder and your system is complete. Make your own stereo tapes off the air using the tape output connections. The 610 even has a tape monitor for making instantaneous comparison between the program being taped and the tape itself. For FM listeners, probably the most useful feature is the Automatic FM Stereo Indicator that immediately alerts you when a station is broadcasting stereo. Dimensions are 5" high, 14<sup>5</sup>/<sub>8</sub>" wide and 10<sup>3</sup>/<sub>4</sub>" deep. In black and brushed gold styling, complete with cover \$199.50

Please see facing page for complete technical specifications and features.



## Pilot 654MA

### 60 WATT FM MULTIPLEX STEREO RECEIVER

The perfect heart for your stereo system all on one compact chassis - a sensitive FM multiplex stereo tuner with Pilot's unique signal-sampling circuit for perfect stereo reception; a powerful 60 watt stereo amplifier with an extra set of speaker connections for 3 channel operation and a stereo preamplifier with inputs and controls for every conceivable stereo sound source. The 654M also has Pilot's exclusive Automatic FM Stereo Indicator light that takes all the guesswork out of finding FM stereo broadcasts. Dimensions are 5<sup>1</sup>/<sub>8</sub>" high, 14<sup>3</sup>/<sub>8</sub>" wide and 12<sup>1</sup>/<sub>16</sub>" deep. In black and brass styling, complete with enclosure..... \$329.50

Please see facing page for complete technical specifications and features.

# receivers

## SPECIFICATIONS AND FEATURES

|  | Model 610<br>FM MPX<br>Stereo<br>Receiver | Model 602MA<br>FM MPX<br>Stereo<br>Receiver | Model 602SA<br>FM MPX-AM<br>Stereo<br>Receiver | Model 654MA<br>FM MPX<br>Stereo<br>Receiver | Model 746<br>FM MPX-AM<br>Stereo<br>Receiver |
|--|---|---|--|---|--|
| <b>AMPLIFIER SECTION:</b>                          |   |   |  |   |  |
| All measurements made with both channels operating |   |   |  |   |  |
| Output (IHF Music Power)                           | 24 watts                                  | 30 watts                                    | 30 watts                                       | 60 watts                                    | 60 watts                                     |
| Frequency Response ( $\pm 1$ db)                   | 10 to 30 KC                               | 10 to 40 KC                                 | 10 to 40 KC                                    | 10 to 40 KC                                 | 10 to 40 KC                                  |
| Harmonic Distortion (IHF)                          | 1%  | 1%  | 1%   | 0.1%  | 0.1%   |
| Hum Level  | -80 db                                    | -80 db                                      | -80 db   | -80 db                                      | -80 db                                       |
| Input Sensitivity                                  |   |   |  |   |  |
| Magnetic Phono (TT)**                              | None                                      | 3 mv  | 3 mv   | 3 mv  | 3 mv   |
| Magnetic Phono (RC)                                | 3.5 mv                                    | 12 mv                                       | 12 mv  | 12 mv                                       | 12 mv  |
| Tape Rec.  | 100 mv                                    | 110 mv                                      | 110 mv   | 110 mv                                      | 110 mv                                       |
| Tape Head  | *   | **  | **   | **  | **   |
| Speaker Outputs per channel                        | 8, 16, ohms                               | 4, 8, 16 ohms                               | 4, 8, 16 ohms                                  | 4, 8, 16 ohms                               | 4, 8, 16 ohms                                |
| Center Speaker Outputs                             | No  | Yes   | Yes  | Yes   | Yes  |
| Tape Output  | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Front Panel Headphone Output                       | ***                                       | ***   | ***  | ***   | Yes  |
| <b>Controls</b>                                    |   |   |  |   |  |
| Power  | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Automatic Shutoff                                  | No  | Yes   | Yes  | Yes   | Yes  |
| Speaker Selector                                   | No  | No  | No   | No  | Yes  |
| Tuning   | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Separate Bass & Treble                             | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Balance  | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Master Volume                                      | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Scratch Filter                                     | No  | No  | Yes  | Yes   | Yes  |
| Rumble Filter                                      | No  | No  | Yes  | Yes   | Yes  |
| Phono Input Selector                               | No  | Yes   | Yes  | Yes   | Yes  |
| Loudness   | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Tape Monitor                                       | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| FM Muting  | No  | No  | No   | No  | Yes  |
| Mode   | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Selector   | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| <b>TUNER SECTIONS:</b>                             |   |   |  |   |  |
| FM-Sensitivity (IHF)                               | 4 uv                                      | 3 uv  | 3 uv   | 3 uv  | 1.8 uv                                       |
| Harmonic Distortion at 100% Modulation             | 1%  | 1%  | 1%   | 1%  | 0.2%   |
| Frequency Response ( $\pm 1$ db)                   | 20 to 20 KC                               | 20 to 20 KC                                 | 20 to 20 KC                                    | 20 to 20 KC                                 | 20 to 20 KC                                  |
| Capture Ratio                                      | 8 db                                      | 4 db  | 4 db   | 4 db  | 1 db   |
| Tuning Indicator                                   | Eye                                       | Eye   | Eye  | Eye   | Meter  |
| FM Detector Band Width                             | 800 KC                                    | 800 KC                                      | 800 KC   | 800 KC                                      | 800 KC                                       |
| FM IF Stages                                       | 2   | 3   | 3  | 3   | 4  |
| Automatic FM Stereo Indicator                      | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| Stereo Separation across the entire audio spectrum | Better than 30 db                         | Better than 30 db                           | Better than 30 db                              | Better than 30 db                           | Better than 30 db                            |
| Antenna: 300 ohms balanced, 72 ohms and built-in   | Yes                                       | Yes   | Yes  | Yes   | Yes  |
| AM-Sensitivity                                     | -   | -   | 3 uv   | -   | 3 uv   |
| Harmonic Distortion                                | -   | -   | 1%   | -   | 1%   |
| Tuning Indicator                                   | -   | -   | Eye  | -   | Meter  |
| Antenna: built-in plus connections for outdoor     | -   | -   | Yes  | -   | Yes  |
| Dimensions   |   |   |  |   |  |
| High   | 5"  | 5 <sup>1</sup> / <sub>8</sub> "             | 5 <sup>1</sup> / <sub>8</sub> "                | 5 <sup>1</sup> / <sub>8</sub> "             | 6 <sup>1</sup> / <sub>4</sub> "              |
| Wide   | 14 <sup>5</sup> / <sub>8</sub> "          | 14 <sup>5</sup> / <sub>8</sub> "            | 14 <sup>5</sup> / <sub>8</sub> "               | 14 <sup>5</sup> / <sub>8</sub> "            | 17 <sup>3</sup> / <sub>8</sub> "             |
| Deep   | 10 <sup>3</sup> / <sub>4</sub> "          | 11 <sup>1</sup> / <sub>8</sub> "            | 14 <sup>7</sup> / <sub>8</sub> "               | 12 <sup>1</sup> / <sub>16</sub> "           | 13 <sup>1</sup> / <sub>16</sub> "            |
| Price  | with cover \$199.50                       | with cover \$249.50                         | with cover \$299.50                            | with cover \$329.50                         | less cover \$399.50                          |

\* Tape Head can be played back by disconnecting phono from phono inputs and connecting tape head leads.

\*\* TT inputs can be used for tape head playback.

\*\*\* Headphones can be used by connecting to speaker terminal boards.

The Federal Communications Commission decision approving FM Multiplex Stereo made possible radio reception with all the depth and dimension previously found only in stereo records and tapes. Pilot monaural FM tuners and FM/AM Stereo tuners can be used to receive FM Multiplex Stereo with the simple addition of one of the Pilot multiplexers. The new Pilot stereophonic tuners, designed for FM Multiplex Stereo reception, all feature built-in multiplex and advanced FM circuitry.

## fm multiplex



### *Pilot* 780

#### FM MULTIPLEX STEREO TUNER

When Pilot engineers began designing this instrument they set themselves a goal—to design the finest FM Stereo tuner that could be made. Specifications were listed as a standard toward which to work. The 780, resulting from these designs, achieves or exceeds every one of the pre-established standards. Its 4 IF stages and sophisticated circuitry produce FM performance matched only by professional broadcast monitor tuners costing hundreds of dollars more. The signal-sampling multiplex circuit assures at least 30 db separation on FM stereo reception. A combination of flywheel control construction and an accurate meter make tuning easy and precise. The Automatic FM Stereo Indicator eliminates all guesswork in finding FM Stereo broadcasts. The Indicator lights on any station broadcasting FM Stereo. Dimensions are 6¼" high, 15¼" wide and 12¾" deep.

Companion to the Pilot 248B

The Pilot 780 in brushed gold finish, less enclosure . . . \$199.50  
Oiled Walnut enclosure \$22.50



Please see page 9 for complete technical specifications and features.

## stereo tuners

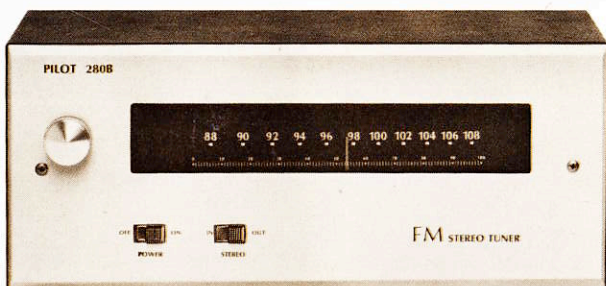


### *Pilot* 285

#### FM MULTIPLEX - AM TUNER

This moderately priced, attractively styled instrument offers quality music reproduction in all three of its operating modes. The FM Stereo tuner with its integrated multiplex circuitry brings all the thrilling depth and dimension of stereo into your home with brilliant clarity that only FM can achieve. The unique signal-sampling multiplex circuit assures you maximum stereo separation. With Pilot's Automatic FM Stereo Indicator all the "hunt for stereo" tuning is eliminated. The Indicator automatically lights on any station broadcasting FM Stereo. The tuning eye makes all tuning easy and accurate. For AM reception the 285 uses the most advanced circuitry available. Dimensions are 5½" high, 14½" wide and 9¾" deep. In black and brass, complete with cover \$159.50

Please see page 9 for complete technical specifications and features.

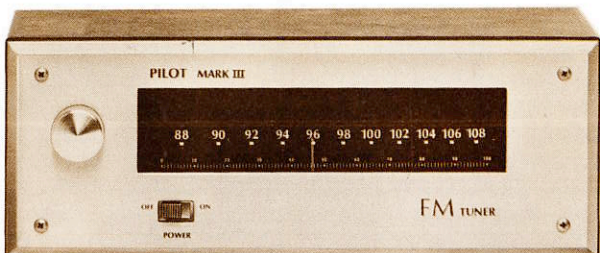


## Pilot 280B

### FM MULTIPLEX STEREO TUNER

This instrument unquestionably represents the greatest tuner value ever offered. The simple and effective circuitry makes use of the same unique signal-sampling multiplex circuit featured in the most expensive Pilot tuners. This circuit assures better than 30 db separation. In either the FM or FM Stereo modes the 280B offers brilliant, distortion free reproduction. Dimensions are 5" high, 11 1/8" wide and 9 1/4" deep. In black and brushed gold styling, complete with cover..... \$99.95

Please see facing page for complete specifications and features.



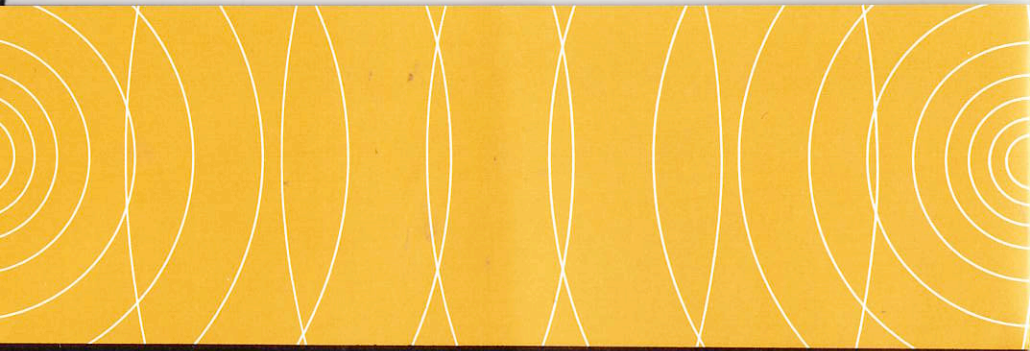
## Pilot MARK III

### BASIC FM TUNER

This instrument represents such a tremendous value that you really should hear its performance before you hear its price. The Mark III's brilliant FM reception amazes even the most critical audiophiles. And the growth of FM Stereo broadcasting won't ever obsolete the Mark III. You can receive FM Stereo by simply attaching any one of the 3 Pilot Multiplexers to the special multiplex output on the Mark III. Dimensions are 5 1/2" high, 9 3/4" wide and 3 1/4" deep. In brushed gold and black, complete with enclosure.....\$49.95

## SPECIFICATIONS AND FEATURES

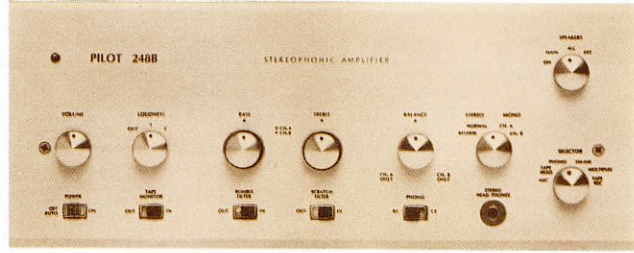
|   | Mark III<br>FM<br>Tuner | Model<br>280B<br>FM Stereo<br>Tuner | Model<br>285<br>AM-FM Stereo<br>Tuner | Model<br>780<br>FM Stereo<br>Tuner |
|---|-------------------------|-------------------------------------|---------------------------------------|------------------------------------|
| FM-Sensitivity  | 4 uv                    | 4 uv                                | 4 uv                                  | 1.8 uv                             |
| Harmonic Distortion at<br>100% Modulation             | 1%                      | 1%                                  | 1%                                    | 0.2%                               |
| Frequency Response (± 1 db)                           | 20 to<br>20 KC          | 20 to<br>20 KC                      | 20 to<br>20 KC                        | 20 to<br>20 KC                     |
| Capture Ratio   | 8 db                    | 8 db                                | 8 db                                  | 1 db                               |
| Selectivity (alternate channel)                       | 15 db                   | 15 db                               | 24 db                                 | 44 db                              |
| FM Detector Band Width                                | 800 KC                  | 800 KC                              | 800 KC                                | 800 KC                             |
| FM IF Stages  | 2                       | 2                                   | 2                                     | 4                                  |
| Tuning Indicator                                      |                         |                                     | Eye                                   | Meter                              |
| Automatic FM Stereo<br>Indicator                      | No                      | No                                  | Yes                                   | Yes                                |
| Stereo Separation across<br>the entire audio spectrum |                         | Better<br>than<br>30 db             | Better<br>than<br>30 db               | Better<br>than<br>30 db            |
| Antenna: 300 ohms balanced,<br>72 ohms and built-in   | Yes                     | Yes                                 | Yes                                   | Yes                                |
| AM-Sensitivity  | —                       | —                                   | 10 uv                                 | —                                  |
| Harmonic Distortion                                   | —                       | —                                   | 1%                                    | —                                  |
| Tuning Indicator                                      | —                       | —                                   | Eye                                   | —                                  |
| Antenna: built-in and<br>connections for outdoor      | —                       | —                                   | Yes                                   | —                                  |
| Controls:   |                         |                                     |                                       |                                    |
| Power   | Yes                     | Yes                                 | Yes                                   | Yes                                |
| Tuning  | Yes                     | Yes                                 | Yes                                   | Yes                                |
| Selector  | No                      | Yes                                 | Yes                                   | Yes                                |
| FM Muting   | No                      | No                                  | No                                    | Yes                                |
| Dimensions:   |                         |                                     |                                       |                                    |
| High  | 5 1/2"                  | 5"                                  | 5 1/8"                                | 6 1/4"                             |
| Wide  | 9 3/4"                  | 11 1/8"                             | 14 5/8"                               | 15 1/4"                            |
| Deep  | 3 1/2"                  | 9 1/4"                              | 9 3/8"                                | 12 3/4"                            |
| Price   | with cover<br>\$49.95   | with cover<br>\$99.95               | with cover<br>\$159.50                | less cover<br>\$199.50             |



# integrated

# stereo amplifiers

A basic stereophonic amplifier provides the power to drive the speakers of a stereo system. A preamplifier has all the needed controls and inputs. The modern Integrated Stereophonic Amplifier combines both on one chassis. Compactness and the resulting ease of custom installation is only one of the instrument's advantages. Add a record player or a tape recorder and you're ready for stereo music listening enjoyment. Add any one of the new Pilot stereo tuners and your incomparable stereo system is complete.

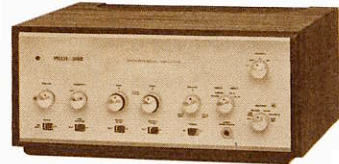


*Pilot* 248B

### 74 WATT INTEGRATED STEREO AMPLIFIER

If you will settle for nothing but the best, regardless of the cost, this is the instrument for you. The careful design and advanced features of this fine instrument make possible an amazingly high level of performance. In addition to the usual operating controls, the 248B offers; rumble and scratch filters; a tape monitor that makes possible instantaneous comparison between the material being taped and the tape itself; and, a speaker switch to control systems in other rooms. A total of 7 pairs of inputs will accommodate every conceivable sound source. A special input for stereo headphones is located on the front panel. The speaker terminals have extra center channel outputs for both the main stereo system and for an extension system. The instrument's 74 watts of virtually distortion free power can drive several complete stereo systems. Dimensions are 6 $\frac{1}{4}$ " high, 15 $\frac{1}{4}$ " wide and 12 $\frac{3}{4}$ " deep.

Companion to the Pilot 780  
 The Pilot 248B in brushed gold finish, less cover . . . . \$269.50  
 Oiled Walnut enclosure \$22.50



Please see page 13 for complete technical specifications and features.



*Pilot* 240

### 30 WATT INTEGRATED STEREO AMPLIFIER

This rugged, extremely versatile component is one of the most popular instruments Pilot has ever offered. Reliability and solid performance are the two comments most often made by 240 owners. The five pair of stereo inputs can accommodate virtually every source of stereo music. Eleven front panel controls assure complete operational flexibility. The instrument even has a speaker selector for control of extension speakers in other rooms. In addition to the usual speaker outputs, the 240 has a special pair of outputs for connection of a center speaker for three speaker stereo or for monophonic listening in another room. The 30 watts of power delivered by the amplifier can fill your home with music. The solid performance and handsome styling of the 240 make it an exceptional amplifier value. Dimensions are 5 $\frac{1}{8}$ " high, 14 $\frac{5}{8}$ " wide and 11" deep. In black and brass styling, complete with enclosure . . . . . \$134.50

Please see page 13 for complete technical specifications and features.



## Pilot 230

### 24 WATT INTEGRATED STEREO AMPLIFIER

Designed for those who want top quality music reproduction at a budget price. Here is a 24 watt integrated stereo amplifier, at a remarkably low price, that delivers performance that would satisfy even the most critical equipment buyer. Its extra-versatile preamplifier has all the inputs and controls for every important source of music. The 24 watts of virtually undistorted power provide crisp, clean music reproduction. If performance and value are what you demand then this instrument is for you. Dimensions are 5" high, 11 $\frac{1}{8}$ " wide and 9 $\frac{1}{4}$ " deep. In brushed gold and black styling, complete with cover ..... \$89.50

Please see facing page for complete technical specifications and features.



## Pilot 246

### 60 WATT INTEGRATED STEREO AMPLIFIER

The Pilot 246 is dedicated to the concept that there can be no compromise in the reproduction of music. The instrument's 60 watts of power insure clean, crisp distortion-free reproduction. The fourteen controls and switches, including rumble and scratch filters and tape monitor, give you complete control flexibility. Twelve stereo inputs are provided to accommodate every conceivable sound source. Dimensions are 5 $\frac{1}{8}$ " high, 14 $\frac{5}{8}$ " wide and 12 $\frac{3}{4}$ " deep. Black, brass styling, complete with enclosure \$199.50

Please see facing page for complete technical specifications and features.

## SPECIFICATIONS AND FEATURES

All Measurements Made With Both Channels Operating

|                                  | Model 230<br>24 Watt<br>Stereo<br>Amplifier | Model 240<br>30 Watt<br>Stereo<br>Amplifier | Model 246<br>60 Watt<br>Stereo<br>Amplifier | Model 248B<br>74 Watt<br>Stereo<br>Amplifier |
|----------------------------------|---|---|---|--|
| Power Output (IHF Music Power)   | 24 watts                                    | 30 watts                                    | 60 watts                                    | 74 watts                                     |
| Frequency Response ( $\pm 1$ db) | 10 to<br>30 KC                              | 10 to<br>40 KC                              | 10 to<br>40 KC                              | 5 to<br>50 KC                                |
| Harmonic Distortion (IHF)        | 1%  | 1%  | 0.1%  | 0.1%   |
| Hum Level                        | -80 db                                      | -80 db                                      | -80 db                                      | -80 db                                       |
| Input Sensitivity:               |   |   |   |  |
| Magnetic Phono (RC)              | 3.5 mv                                      | 12 mv                                       | 12 mv                                       | 12 mv  |
| Magnetic Phono (TT)**            | None  | 3 mv  | 3 mv  | 3 mv   |
| Multiplex                        | —   | 110 mv                                      | 110 mv                                      | 110 mv                                       |
| FM-AM                            | 110 mv                                      | 110 mv                                      | 110 mv                                      | 110 mv                                       |
| Tape Rec                         | 110 mv                                      | 110 mv                                      | 110 mv                                      | 110 mv                                       |
| Tape Head                        | *   | **  | 2 mv  | 2 mv   |
| Mic                              | —   | —   | —   | 2.5 mv                                       |
| Speaker Outputs per Channel      | 8, 16<br>ohms                               | 4, 8, 16<br>ohms                            | 4, 8, 16<br>ohms                            | 4, 8, 16<br>ohms                             |
| Center Speaker Outputs           | No  | Yes   | Yes   | Yes  |
| Tape Output                      | No  | Yes   | Yes   | Yes  |
| Headphone Output                 | ***   | ***   | ***   | Yes  |
| Controls:                        |   |   |   |  |
| Power                            | Yes   | Yes   | Yes   | Yes  |
| Auto Shut Off                    | No  | Yes   | Yes   | Yes  |
| Speaker Selector                 | No  | Yes   | No  | Yes  |
| Balance                          | Yes   | Yes   | Yes   | Yes  |
| Separate Bass and Treble         | Yes   | Yes   | Yes   | Yes  |
| Master Volume                    | Yes   | Yes   | Yes   | Yes  |
| Scratch Filter                   | No  | Yes   | Yes   | Yes  |
| Rumble Filter                    | No  | Yes   | Yes   | Yes  |
| Phono Input Selector             | No  | Yes   | Yes   | Yes  |
| Loudness                         | Yes   | Yes   | Yes   | Yes  |
| Tape Monitor                     | No  | No  | Yes   | Yes  |
| Mode Selector                    | Yes   | Yes   | Yes   | Yes  |
| Dimensions:                      |   |   |   |  |
| High                             | 5"  | 5 $\frac{1}{8}$ "                           | 5 $\frac{1}{8}$ "                           | 6 $\frac{1}{4}$ "                            |
| Wide                             | 11 $\frac{1}{8}$ "                          | 14 $\frac{5}{8}$ "                          | 14 $\frac{5}{8}$ "                          | 15 $\frac{1}{4}$ "                           |
| Deep                             | 9 $\frac{1}{4}$ "                           | 11"   | 12 $\frac{3}{4}$ "                          | 12 $\frac{3}{4}$ "                           |
| Price                            | with cover<br>\$89.50                       | with cover<br>\$134.50                      | with cover<br>\$199.50                      | less cover<br>\$269.50                       |

\* Tape Head can be played back by disconnecting phono from phono inputs and connecting tape head leads.

\*\* TT inputs can be used for tape head playback.

\*\*\* Headphones can be used by connecting to speaker terminal boards.

FM was always considered an important source of music listening pleasure. With the FCC decision approving FM Multiplex Stereo, FM achieved even greater importance. Now all the dimension and depth previously available only in stereo records and tapes could be broadcast and received over FM. To accomplish this both the radio station and the consumer require additional equipment. For the consumer it meant the adding of a multiplex device to the FM tuner. All Pilot tuners and most tuners made by other high fidelity manufacturers made provision for the attachment of such a multiplex device. Pilot Multiplexers can be used with virtually any FM tuner for FM Stereo reception. The three Pilot Multiplexers described on this page all utilize the same unique signal-sampling circuitry that assures better than 30 db separation across the entire audio spectrum.

## universal multiplexers



**Pilot 200**

### AUTOMATIC FM STEREO MULTIPLEXER

The automatic answer to FM Stereo reception. If your FM tuner has a multiplex jack you can be ready to enjoy FM Stereo in a matter of seconds. Simply plug the three jack cords in place and sit back. All the necessary switching is done automatically. When the tuned-in station is broadcasting stereo the Multiplexer automatically switches to FM Stereo reception. The switching lights the Automatic FM Stereo Indicator so that you are immediately aware of receiving FM Stereo. Dimensions are 5" high, 3" wide and 12 $\frac{3}{4}$ " deep. Self powered. Complete with cover and extension for Automatic FM Stereo Indicator .....\$79.50



**Pilot 120**

### FM STEREO MULTIPLEXER with Automatic FM Stereo Indicator.

The perfect answer for those who want to custom install their multiplexer. The 120 has only one control - an In-Out slide switch. However, if your FM tuner or tuner amplifier has a selector switch with a Multiplex position you need never touch the slide switch. The Automatic FM Stereo Indicator has an extension so that you may place the multiplexer out of sight and still be able to see the Indicator. Dimensions are 5" high, 3" wide and 12" deep. Complete with cover .....\$59.50



**Pilot 100**

### FM STEREO MULTIPLEXER

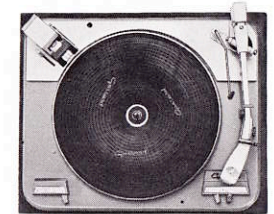
Here, for less than \$50.00 is a unit that can give you perfect FM Multiplex Stereo reception. Three simple plug-in connections that can be made in seconds is all the installation required. Has only one control - an In-Out slide switch that in most instances need never be touched. Its unique signal-sampling circuit assures better than 30 db separation across the entire audio spectrum. Dimensions are 5" high, 3" wide and 12" deep. Complete with cover ..\$49.50

Today's stereo record is virtually a perfect reproduction of an original performance. All the tonal qualities of the individual instruments . . . all the breadth and depth of the concert hall . . . all the great beauty of fine music perfectly performed is there in the record. How much of it you will hear depends on the capabilities of your stereophonic system. A most important part of that system is the record playing device. Here Pilot offers three record players, each mounted with Pilot's exclusive "Dyacoustic Suspension." This suspension eliminates all needle skip and slide caused by vibration no matter how lightly your tone arm tracks. In addition, by eliminating the effects of all vibration, you achieve cleaner, crisper, undistorted sound reproduction.

## record players

### PILOT-GARRARD RC-3 PROFESSIONAL AUTOMATIC TURNTABLE

This record player has all the fine features traditionally ascribed to turntables; professional type counter-balanced tone arm that tracks at the lightest gram weights, heavy 6 lb. cast table and a carefully balanced motor for precise speed accuracy. PLUS fully automatic record changer operation. Plays all four speeds, 16, 33 $\frac{1}{3}$ , 45 and 78 rpm. Has automatic shut off feature. Mounted with Pilot's "Dyacoustic Suspension" on lacquered walnut or mahogany base. Complete with 45 rpm spindle. Less cartridge .....\$99.50



**Pilot RC-3**

### PILOT-GARRARD RC-5 AUTOMATIC TURNTABLE

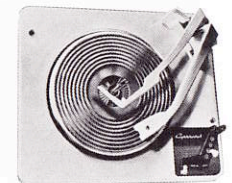
Combines the best features of an automatic record changer and the turntable. Professional type tone arm . . . heavy accurate running table . . . can play stereo or monophonic records, manually or automatically. Has Pilot's exclusive automatic shut off. Mounted with exclusive "Dyacoustic Suspension" on lacquered walnut or mahogany base. Less cartridge .....\$74.50



**Pilot RC-5**

### PILOT-GARRARD RC-4 FOUR-SPEED AUTOMATIC RECORD CHANGER

The ideal four-speed changer for any stereophonic high fidelity system. Plays stereo or monaural records, automatically or manually. Has Pilot's exclusive automatic shut off. When used with any Pilot amplifier, this feature, at your option, shuts off the entire system after the last record has completed play. Mounted with exclusive "Dyacoustic Suspension" on lacquered walnut or mahogany base. Less cartridge .....\$62.50



**Pilot RC-4**

*Pilot* PSV-2



Compact, low distortion 3-way, three speaker system . . . perfect for stereo! The handsome grill cloth covered enclosure, capped in oiled walnut, can be put on a shelf, table or on the floor. The system consists of a 12" low frequency woofer, a 6" mid-range, a 3½" cone type tweeter and a cross-over network. The sturdy enclosure is specially designed to provide maximum performance from the high compliance woofer. A critical mass of Orlon fibers provides optimum damping and has the effect of increasing the overall acoustic volume of the enclosure. **Overall Frequency Response:** 50 to 16,000 cycles. **Impedance:** 16 ohms. **Power Rating:** 30 watts program power. **Crossover Network:** 6 db/octave, air-core inductance capacitance. **Crossover Frequencies:** 800 cps and 8,000 cps. **Dimensions:** 18" high x 15¾" wide x 9¾" deep . . . . . \$69.50

*Pilot* PSV-3A



Two, make a perfect stereo pair. Top quality performance from a minimum amount of space. In an enclosure measuring only 11½" high x 18" wide x 9" deep, Pilot has created a full range 3 speaker system. The system makes use of a revolutionary 8" woofer, a 3½" mid-range speaker and a specially designed super tweeter. The entire enclosure is filled with Orlon fiber that provides optimum damping and has the effect of increasing the overall acoustic volume. Can be used upright or on its side. **Overall Frequency Response:** 50 to over 16,000 cycles. **Impedance:** 8 ohms. **Power Rating:** 30 watts program power. **Crossover Frequencies:** 2,500 cps and 8,000 cps. Finished on four sides in oiled walnut . . . . . \$64.50

*Pilot* PSV-4



This three way bookshelf speaker system is a handsome addition to any room. The solid, highly defined bass response is produced by a 12" Air Flex heavy duty woofer which is front mounted in an Orlon fiber filled enclosure designed to yield maximum performance. Two 3½" cone type speakers produce the crisp mid-frequencies. High frequencies are produced by a specially designed super tweeter. This four speaker combination plus a crossover network gives you unparalleled realism of performance. Available in lacquered or oiled walnut. **Overall Frequency Response:** 40 to over 16,000 cycles. **Impedance:** 8 ohms. **Power Rating:** 30 watts program power. **Crossover Network:** 6 db/octave, air-core inductance capacitance. **Dimensions:** 25¼" wide x 14½" high x 12" deep . . . . . \$119.50