

New MIRACLE

"Around-the-World"

ALL-
WAVE

RADIO



"AROUND the WORLD with the MIRACLE"

**THE ALL CANADIAN
CUSTOM BUILT RADIO**

Brings "World" Programmes
to your Home . . .

In offering the NEW MIRACLE ALL-WAVE "Around-the-World" RADIO, we do so with the positive knowledge that right in your own home the NEW MIRACLE will tune in shortwave broadcast programmes from distant parts of the world—not just once in a while, but regularly throughout the whole year.

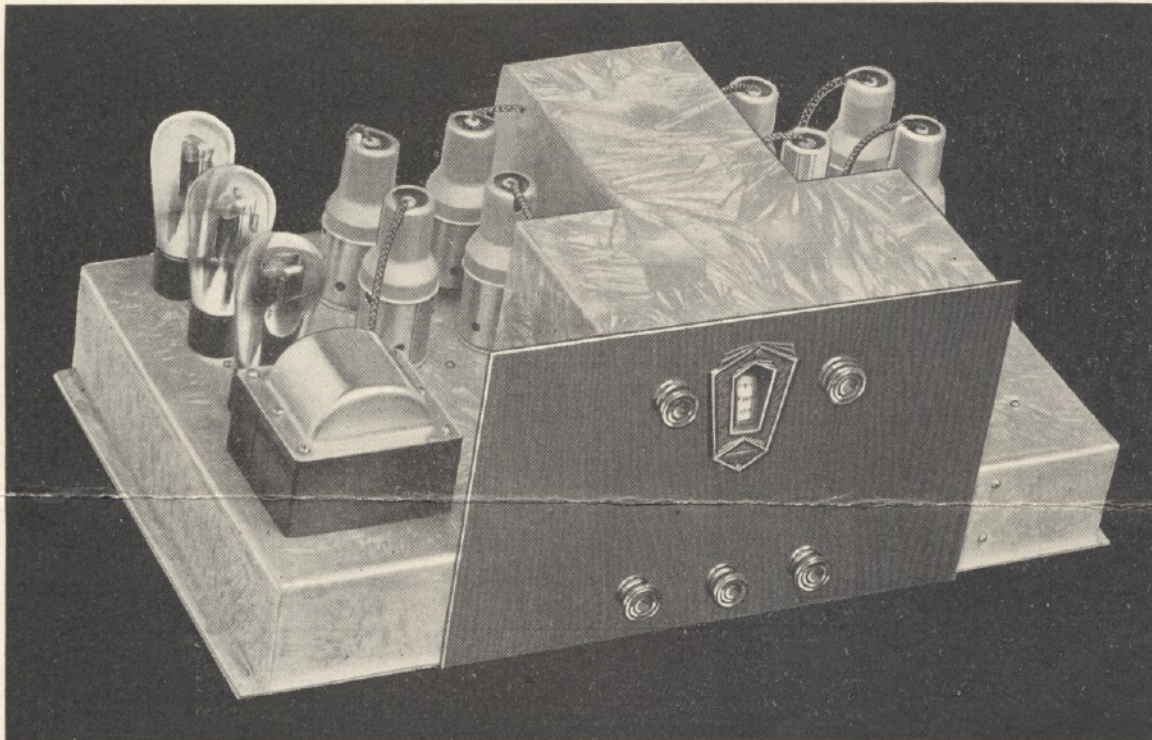
Breaking "World" Records
with the *New* MIRACLE . . .

So advanced is the NEW MIRACLE ALL-WAVE "Around-the-World" RADIO that the record established for continuous reception from shortwave Station VK2ME, Sydney, Australia for THIRTEEN MONTHS WITHOUT MISSING A SINGLE BROADCAST, and of receiving F31CD, Indo-China for FIFTY-THREE CONSECUTIVE BROADCASTS, is not likely to be equalled by any other make of receiver for years to come. It is because of such daily FOREIGN station performance that the NEW MIRACLE has become the recognized champion of continuous "World-Wide" reception.

From
BROADCAST to SHORTWAVE
Without Plug-in Coils . . .

Plug-in coils, and other make-shift devices employed on many so-called All-wave radios, find no place in the design of the NEW MIRACLE. Eight years of short wave leadership has resulted in the development of a highly efficient form of coil switching for covering the entire waveband from 12 to 570 meters (shortwaves and broadcast) on one dial and with the ease of tuning a local station.

CUSTOM BUILT -- for those who want the Best



The Silver-plated Chassis of the 11-tube NEW MIRACLE All-Wave Superheterodyne Receiver

SHORTWAVES -- a NEW radio THRILL

The Thrill of Distant Lands Combined with the Superlative Tone and Matchless Performance of the World's Finest Custom-built Receiver

The NEW MIRACLE ALL-WAVE "Around-the-World" RADIO is the result of nearly eight years of designing custom-built high-quality radio receivers for discriminating radio owners in all parts of the world. Known in the early days as the "Mercury," the NEW MIRACLE is the pioneer Canadian combined broadcast and shortwave radio. As early as 1924, when "World" reception was virtually unknown, these custom-built receivers startled the radio world by bringing to this continent for the first time the Old World programmes of Station G5SW, Chelmsford, England. A little later and the solemn striking of midnight in Old London was being rebroadcast by Station CFCA, Toronto, with the aid of one of these receivers. Crude as these early experiments now seem in the face of the ease with which the NEW MIRACLE swings from continent to continent, they were the forerunner of the "World" reception which owners of the NEW MIRACLE now enjoy.

In the building of the NEW MIRACLE ALL-WAVE RADIO, as in the days of the Mercury receiver, our one object is to see how GOOD a radio we can build, not how CHEAP. All NEW MIRACLE receivers are custom-built, which is one of the reasons why NEW MIRACLE receivers have outperformed, year after year, the all-wave radios of every mass-production manufacturer in Canada and the United States.

The NEW MIRACLE isn't the cheapest receiver on the market, nor is it the most expensive—but it is the best. There is no better radio built for the reception of "World" shortwave stations and standard broadcast programmes. Repeated tests, and the experience of thousands of owners over a period of nearly eight years have proved time and again the NEW MIRACLE'S abil-

ity to outperform every make of combination radio, regardless of the number of tubes or the price.

In an attempt to capitalize on the phenomenal performance of the NEW MIRACLE, so-called all-wave receivers have been placed on the market at one time or another by practically every manufacturer of mass-production radios. Unreasonable claims for shortwave reception which could not possibly be lived up to, have repeatedly been made, and it is regretted that the majority of these receivers, for short-wave reception at least, are practically useless.

The NEW MIRACLE is the only Canadian-made, all-wave receiver using all 11 tubes in both circuits. This one feature alone adds tremendously to the performance of the NEW MIRACLE, both on short-wave and standard broadcast reception.

Much of the efficiency of the NEW MIRACLE is due to the new engineering design which permits all tubes to be operated at peak efficiency. The new type 55, 56, 57 and 58 tubes are used, all scientifically shielded, as is the entire circuit, against outside dis-

turbances and local station lap-over. Now automatic Volume Control, operated in conjunction with the new type 55 Duplex-diode-triode Second Detector, automatically controls station volume on both local and distant stations. A separate oscillator tube is used in the circuit to enable C.W. to be received and weak signals to be tuned in by the zero beat method. This separate oscillator is only one of the secrets of the NEW MIRACLE'S ability to consistently tune in foreign stations over great distances.

No radio receiver, no matter how remarkable its performance, is worthy of a place in your home unless its tone is both pleasing and lifelike. The super-quality tone of the NEW MIRACLE is unequalled in any receiver. In the first place the NEW MIRACLE uses a Dual Frequency Speaker which while having all the good points of a twin speaker, has none of its inherent shortcomings. The tone of the Dual Frequency Speaker is always true—it is never off "key." The type 55 Second Detector (diode rectification) provides an automatic equalization of high and low frequencies at any volume, enabling the Dual Frequency Speaker to reproduce with equal faithfulness and clarity any note in the entire tone range.

To those contemplating the purchase of a radio receiver we strongly urge the ownership of the NEW MIRACLE ALL-WAVE "Around-the-World" RADIO. As a musical instrument the NEW MIRACLE merits first consideration because of its perfect tone, which, after all, is the first and most important requirement of a radio receiver. ADD to this the ability to reach out over thousands of miles of space and to bring to your home programmes of FOREIGN lands and we believe your choice will rest with the NEW MIRACLE.

What the New MIRACLE

Actually Does:

On Broadcast Waves: Reproduces faithfully any major station on the North American continent, outperforming in sensitivity, selectivity, distance and tonal qualities all mass-production radios, regardless of number of tubes or price. Covers all frequencies from 25,000 k.c. to 530 k.c. (12 meters to 570 meters) on one dial with the ease of tuning local stations.

On Shortwaves: Brings in, with loud-speaker volume, programmes from foreign countries—not just once in a while, but throughout the whole year. Tunes to all stations between 12 and 570 meters on the one dial and without the use of plug-in or tapped coils. Covers police, aviation, ships, amateur and "World" shortwave stations.

Here is PROOF of the NEW MIRACLE'S Shortwave Performance 777 Stations -- 56 FOREIGN COUNTRIES

Breaking "World" Records

Every known foreign "World" shortwave station has been heard on our receivers at some time or other. Many of these stations are more than 10,000 miles away, yet the reception has been sufficiently clear to be heard on the loud speaker. So consistently are the shortwave stations of Australia and New Zealand heard by owners on the Pacific Coast that the reception of these stations is no longer considered remarkable, while England, France, Rome and South American stations are heard regularly throughout Canada, the United States and the Yukon.

The following are some of the countries operating "World" shortwave stations which have been heard on this continent:

England
France
Siberia
Russia
Italy
Germany
Portugal
Spain
Morocco
Australia
New Zealand
Hungary
Indo-China
Java
Hawaii
Sweden
Switzerland
Algeria
Santa Domingo
Bermuda
Czechoslovakia
Mexico
Madagascar
Ecuador
Yucatan
Colombia, S.A.
Venezuela
Roumania
Cuba
Denmark
South Africa
Siam
Costa Rica
Brazil
Philippine Islands
Holland
Br. Malaya
Canary Islands
Japan
Poland
Argentina
Belgium
Chile
Peru
Austria
Fiji Islands
Belgian Congo
New South Wales
Tasmania
Korea
Honduras
Br. Guiana
Nicaragua
Manila
United States
Ships at Sea

DAVID F. THOMAS

International Radio Champion
(Undisputed)
TWENTY-SIXTH ST. FERRY CO.
Proctorville, Ohio, U. S. A.

September 6th., 1932.

Mercury Radio Company,
970 College Street,
Toronto, Ontario,
CANADA.

Gentlemen:

It is with pleasure that I write you regarding the splendid performance I have had from my All-wave receiver. I purchased this receiver two years ago last August, and in that time I have tuned in 777 different stations, not counting code or amateur stations.

I have logged stations from 56 foreign countries, with 80% of the reception verified. Have received F31CD, Indo-China, 53 straight broadcasts, several times without either aerial or ground; VK2ME, Sydney, Australia, without missing a single broadcast for 13 months; VK3ME, Melbourne, Australia, missing only five broadcasts in more than a year. For now almost thirteen months I have received foreign stations DAILY, without missing a single day, receiving sometimes as many as 10 foreign stations a day on loud speaker.

Last Sunday I had VK2ME, Australia, France, Morocco, England, Spain all clearly, and Java and Italy not quite so good. How is that for one day's foreign reception? Have also heard EAY, Formando Poo, a small Spanish island off the coast of Liberia, Africa. Also heard the Arctic Submarine "Naulitus", call K7XI, near Bergen, Norway; HKC, the African Broadcasting Co's station; CNR, "Rabat Morocco", the Moscow Trades Union station on 50 meters; RV15, Khabarovak, Siberia; VK3UZ, a 150-watt station in Melbourne, Australia, on 34 meters,

Among the countries I have heard recently, and for which I hold station verification, are Argentina, Ecuador, New South Wales, Java, Siam, Santo Domingo, Union of South Africa, Indo China, Colombia, British Guiana, Brazil, Victoria, Hungary, England, Portugal, Hawaii, Mexico, Italy, El Salvador, Holland, Siberia, France, Russia, Spain, Morocco, Honduras, and Canada.

The English, French, Dutch, German and other European stations come in with such regularity that they are no longer anything to get excited about!

Although my set is now over two years old it is working as well as ever. If your new receivers are any improvement on my old model I would certainly like to own one of them. It may seem strange to some people that in this land of radio one has to send to Canada for a good radio, but the results I have had have more than justified the claims you make for your All-wave receivers.

Yours very truly,

David F. Thomas

David F. Thomas.

Above is reproduced an unsolicited testimonial from an American owner, Mr. David F. Thomas, of Proctorville, Ohio, who holds the world record for foreign station reception . . . made with a two-year-old model of the New Miracle (then known as the Mercury). Mr. Thomas' selection of this Canadian-designed receiver with which he made the remarkable records spoken of in his letter, is particularly noteworthy when it is considered that in the United States a wide variety of combination shortwave and broadcast receivers are obtainable at very low prices. Obviously there is only one answer—and that is because the New Miracle does live up to the foreign station reception claimed for it, out-performing all other All-wave receivers on the continent.

For technical description of NEW MIRACLE ALL-WAVE RADIO see back page

Exquisite New Cabinets



Chesterfield Model Deluxe

NEW MIRACLE 11-TUBE ALL-WAVE RECEIVER in Deluxe Cabinet of Chesterfield design. Cabinet is of genuine Walnut, with centre panel matched light and dark Walnut. Side panels are convex, of beautifully figured Burl Walnut. Dimensions 38" high; 34" wide; 15 $\frac{1}{4}$ " deep. May be tuned with ease from chair or chesterfield. Furnished complete with set of 11 matched and tested tubes.



Console Deluxe

NEW MIRACLE 11-TUBE ALL-WAVE RECEIVER in beautiful Console Deluxe Cabinet of hand-rubbed Walnut. Six-leg design with ornamental carved effect. Centre panel is matched Walnut. Dimensions: 40" high; 24 $\frac{1}{2}$ " wide; 12 $\frac{3}{4}$ " deep. Furnished complete with set of 11 matched and tested tubes.

Battery-Operated Models

For use in districts not served with 110-130 volt, 25 or 60 cycle current, either of the above models may be furnished for battery operation.

Write for details.

Outstanding Performance Facts of the NEW MIRACLE RADIO

SPECIAL HIGHLY EFFICIENT SUPERHETERODYNE PRINCIPLE giving equal efficiency on all frequencies, which enables reception on the short waves comparable in every respect to that on standard waves.

SEPARATE OSCILLATOR TUBE for receiving CW signals and also for quick location of weak and extremely distant stations. By means of this feature it is possible to locate a station which otherwise might be passed over in tuning. Switch conveniently located on front panel.

THE HIGHLY EFFICIENT SUPERHETERODYNE CIRCUIT used in conjunction with the special low capacity, no loss, specially designed switch, plus the perfect design of the coils used, results in performance that has never been approached.

WORLD-WIDE RANGE. Both standard broadcast and shortwave broadcast stations received on the same dial with the same tuning control.

HIGHEST ENGINEERING EFFICIENCY. Circuit developed by Mercury engineers in co-operation with one of the co-designers of the Super-Regenerative Aircraft Receivers used by Byrd-Antarctic Expedition in 1928, which established a new world record for two-way radio communication.

CHASSIS SILVER PLATED INSIDE AND OUTSIDE. Silver-Plating is highly conductive to radio-frequency currents, which minimizes oscillation difficulties and permits each tube to be operated at maximum efficiency.

TEN KILOCYCLE SELECTIVITY. Twelve TUNED CIRCUITS, including Four-Section Band-Pass Filter, with Band-Pass tuning between Stages, insures exceptional selectivity without side-band cutting.

ELEVEN TUBE BALANCED SUPERHETERODYNE CIRCUIT of advanced design, incorporating features not found in any other All-wave receiver.

SCIENTIFICALLY DESIGNED SHIELDING, minimizes electrical disturbances and stray pick-up from powerful local stations.

BALANCED WIRING. Eliminates reactions between circuits. Prevents feedback oscillation.

AUTOMATIC VOLUME CONTROL SYSTEM. This automatic Volume control operates on all frequencies and is particularly useful on short waves, minimizing the effects of fading peculiar to short waves.

NEW TYPE 55, 57 and 58 tubes used in balanced Superheterodyne circuit. Eliminates cross-talk and distortion, increases selectivity.

TWO TYPE 47 TUBES IN CLASS "A" AMPLIFICATION. Tube constants scientifically designed for perfect tone reproductions.

IMAGE FREQUENCY SUPPRESSOR. Due to the design of the first detector circuit, image frequencies are suppressed.

POWER UNIT, Universal type, operates on any 110-120 volt, 25 or 60 cycle A.C. circuit. Humless, full-wave rectification.

OVER-SIZE FILTER SYSTEM scientifically designed for noiseless operation. Eliminates all traces of line hum.

SUPER QUALITY TONE. Oversize audio transformers with type 55 Detector (diode rectification), dual frequency speaker, and careful balancing of audio amplification circuit, ensures tone quality of exceptional brilliance.

DUAL FREQUENCY SPEAKER, with type 55 detector (diode rectification) provides automatic equalization of high and low frequencies at any volume reproducing any note in the entire tone range with equal faithfulness and clarity.

TUBES USED ARE: 1—55, 1—56, 3—57's, 3—58's, 2—47's and 1—80.

THE TYPE 80 Rectifier Tube is used in preference to the 82, because of the noises introduced by the latter tube, especially on short waves.

Specialists in High-Grade, Custom Built

ALL-WAVE RADIO RECEIVERS

MERCURY RADIO COMPANY

970 COLLEGE STREET

TORONTO - CANADA