

THE SILENT  
WAVERLEY  
ELECTRIC  
YEAR BOOK

1913

THE WAVERLEY COMPANY  
INDIANAPOLIS, INDIANA, U.S.A.





### 1913 JANUARY 1913

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
N. Mass. 7th	F. Mass. 1st	F. Mass. 2nd	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	L. Quar. 29th

## THE CAR of ALL SEASONS

**I**N INTRODUCING the Year Book of Silent Waverley Electrics for 1913 we have overstepped the limits of the formal catalogue in order to direct the reader's attention the more forcibly to the advantages of a car whose usefulness is circumscribed by no limitations of climate, season or weather conditions.

The superiority to the changing seasons which a Silent Waverley confers on its owner enables him to enjoy to its full the varying appeal of winter, spring, summer and autumn. This appeal becomes accordingly linked in his feelings with the car itself.

Viewing Nature hereafter through the windows of his Silent Waverley he may find in this Year Book hints that will aid him in his enjoyment of her varying moods and myriad forms of life. If, however, he would use its Nature Calendar as a guide, he should bear in mind that it was compiled for the latitude of Indianapolis.

## THE WAVERLEY YEAR BOOK FOR JANUARY

### AQUARIUS: THE WATER BEARER



"Unstable as water,  
thou shalt not excel."  
—Genesis.

### JANUARY BIRTHDAYS

1. Edmund Burke
1. Maria Edgeworth
6. Joan of Arc
6. Charles Sumner
17. Benjamin Franklin
18. Daniel Webster
19. Edgar A. Poe
22. Lord Byron
25. Robert Burns
27. Johann Mozart
31. Franz Schubert

### GREEN TREES AND SHRUBS

White Pine  
Red Pine  
Georgia Pine  
Yellow Pine  
Pitch Pine  
Larch  
White Spruce  
Black Spruce  
Red Spruce  
Hemlock  
Balsam Fir  
Cypress  
Arbor Vitae  
Cedar  
Juniper  
American Yew

### RESIDENT WINTER BIRDS

Horned Grebe  
Teal  
Ruffed Grouse  
Turkey Buzzard  
Red-tailed Hawk  
Sparrow Hawk  
Screech Owl  
Downy Woodpecker  
Carolina Woodpecker  
Horned Lark  
Rusty Blackbird  
English Sparrow  
Song Sparrow  
Cedar Waxwing  
Winter Wren  
Chickadee





### 1913 FEBRUARY 1913

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
N. Moon 9th	F. Quar. 14th	F. Moon 20th	L. Quar. 27th			
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	

#### LIMOUSINE-FIVE

#### MODEL 98

**BODY**—Design copyrighted. Length car over all 149 in.; Width car over all 66 in.; Wheel base 109 in.; Length body over all 130 in.; Width body over all 61 in.; Interior length glass to glass 69 in.; Width rear seat 52 in.; Depth rear seat 19 in.; Driver's front seat 18 in. wide by 14 in. deep; Width of door opening 24 in.; Ground to step 14 in.; Step to sill 6 in.; Height seat to ceiling, front 43 in.; rear 41 in.; Height floor to cushion, front 15 in.; rear 16 in.; Tread 56 in.

**COLOR**—Black with Majestic blue panels, or painted to order with any standard or selected colors.

**UPHOLSTERING**—Special importations of plain and fancy broadcloths or best goat morocco.

**WHEELS**—Wood fitted with pneumatic 34x4 in. front and rear. Cushion tires 34 in. front and rear.

**SPRINGS**—Full elliptic front and rear.

**MOTOR**—One 80-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive, motor suspended to body.

**CONTROLLER**—Non-arcing Waverley design. Instrument: Voltmeter, ammeter and ampere-hour meter. Shaft-driven trip and season odometer. Brakes: Two foot brakes and one hand brake. Steering: Side lever or wheel, semi-irreversible. Fenders: Metal with running board.

**BATTERY**—Forty cells 11 plate Hycap Exide or Philadelphia M. V. style. Options, 13 plate Gould or Waverley. Edison or Ironclad Exide at extra price.

### 1913 MARCH 1913

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
N. Moon 1st	F. Quar. 8th	F. Moon 15th	L. Quar. 22nd			
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

#### IN EARLY SPRING-TIME

WHEN the pussy willows are in blossom and the first feathered wanderers are on the wing the pleasure of owning a Silent Waverley Electric is enhanced by the frequent opportunities it brings to steal a march on Nature and greet the returning songsters as they arrive.

The woods are not yet in leaf and from the carriage window it is possible to see deep into the groves and thickets by the road-side and catch glimpses of bright-plumaged passengers, many of whom are only wayfarers on the wing to a more northern nesting ground.

The absolute noiselessness of the Waverley seems never more desirable than on such an expedition as this of early spring. Ownership of a Silent Waverley enables one to pay his respects to Nature without intruding a puffy explosion engine into her solitudes. Such decorum is likely to be rewarded with many first discoveries.

#### THE WAVERLEY YEAR BOOK FOR FEBRUARY

##### PISCES: THE FISHES

"All's fish they get  
That cometh to net."

##### FEBRUARY BIRTHDAYS

3. Felix Mendelssohn
5. Robert Peel
7. Charles Dickens
12. Abraham Lincoln
13. Prince Talleyrand
14. C. W. Von Gluck
18. Charles Lamb
20. Voltaire
22. George Washington
22. James R. Lowell
26. Victor Hugo
27. H. W. Longfellow

##### EVERGREENS AND BLOSSOMS

Mexican Cedar  
Japan Cedar  
English Yew  
Florida Yew  
Podocarpus  
Montezuma Cypress  
Globular Arbor Vitae  
Weeping Arbor Vitae  
Coral Root  
Winter Hellebore  
Corydalis  
Yellow Wood Sorrel  
Harbinger of Spring  
Myrtle  
Henbit  
Dandelion

##### RESIDENT WINTER BIRDS

Sea Gull  
Canada Goose  
Prairie Chicken  
Black Vulture  
Golden Eagle  
Barn Owl  
Great Horned Owl  
Yellow-billed Sapsucker  
Flicker  
Blue Jay  
Goldfinch  
Tree Sparrow  
Towhee  
Butcher Bird  
White-breasted Nuthatch  
Carolina Chickadee

#### THE WAVERLEY YEAR BOOK FOR MARCH

##### ARIES: THE RAM

"On a grassy bank  
A snow-white ram."  
—Wordsworth.

##### MARCH BIRTHDAYS

5. James Madison
6. Michelangelo Buonarroti
11. Torquato Tasso
12. Bishop Berkeley
15. Andrew Jackson
16. Caroline Herschel
22. Anthony Van Dyck
22. Rosa Bonheur
29. Raphael Sanzio
31. Descartes
31. F. J. Haydn

##### FLOWERS OF THE MONTH

Pussy Willow  
Hazel Nut  
Alder  
Slippery Elm  
Spring Beauty  
Papaw Tree  
Rue / nemone  
Saxifrage  
Wild Crab  
Chokeberry  
June Berry  
Snakewort  
Trailing Arbutus  
Flowering Moss  
Bluebells  
Bladderwort

##### VISITING SPRING MIGRANTS

Canvasback Duck  
Snow Goose  
Bittern  
Sandhill Crane  
Snipe  
Sandpiper  
Purple Finch  
White-throated Sparrow  
Swamp Sparrow  
Fox Sparrow  
Tree Swallow  
Titlark  
House Wren  
Brown Creeper  
Red-breasted Nuthatch  
Golden-crowned Kinglet





1913 <i>April</i> 1913						
SUN	MON	TUE	WED	THU	FRI	SAT
N. Moon 6th	F. Quin. 14th	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	F. Moon 20th	L. Quin. 28th	

#### LIMOUSINE-FOUR

#### MODEL 100

BODY—Design copyrighted. Length car over all 152 in.; Width car over all 66 in.; Length body over all 127 in.; Width body over all 58 in.; Wheel base 106 in.; Interior length glass to glass 65 in.; Width rear seat (two) 17 3/4 in.; (one) 18 1/2 in.; Depth rear seats 19 in.; Width front seat 18 in.; Depth front seat 15 1/2 in.; Space between seats 12 in. and 24 in.; Width of door opening 23 in.; Height seat to ceiling, front 41 1/2 in.; rear 44 in.; Ground to step 14 in.; Step to sill 6 in.; Height floor to cushion 16 in.; Tread 56 in.

COLOR—Black with Majestic blue panels, or painted to order with any standard or selected colors.

UPHOLSTERING—Special importations of plain and fancy broadcloths or best goat morocco.

WHEELS—Wood, fitted with pneumatic 34x4 in. front and rear. Cushion tires 34 in. front and rear.

SPRINGS—Full elliptic front and rear.

MOTOR—One 80-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

GEARING—Waverley noiseless inclosed High Efficiency Shaft Drive, motor suspended to body.

CONTROLLER—Non-arcng Waverley design. Instrument: Combination voltmeter and ammeter. Shaft-driven trip and season odometer. Brakes: Two foot brakes and one hand brake. Steering: Side Lever, semi-irreversible. Fenders: Metal.

BATTERY—Forty cells 9 plate Exide or Philadelphia M. V. style. Options, 11 plate Hycap Exide or Philadelphia, 13 plate Gould or Waverley. Edison or Iron-clad extra.

1913 <i>May</i> 1913						
SUN	MON	TUE	WED	THU	FRI	SAT
N. Moon 6th	F. Quin. 13th	F. Moon 20th	L. Quin. 27th	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

#### "WILD FLOWERS—THE WOODS ARE FULL OF THEM"

EVERY year in the month of May these words are displayed conspicuously on all the trolley cars of a large city. They appeal to Nature-lovers to board the cars, make their escape from the noise and bustle and smoke of that busy city and spend a day in the enjoyment of Nature.

The owner of a Silent Waverley needs no such printed appeal. His comings and goings are ordered by his own desires, and if he cares for Nature he will know a score of ways to pay his respects without following the crowded thoroughfares.

The suburbs of every considerable town offer many shaded by-paths to the haunts of the wild flower which the possessor of a Silent Waverley may make his own.

#### THE WAVERLEY YEAR BOOK FOR APRIL

##### TAURUS: THE BULL

"The Bull of Spring  
O'er April's Bourse holds sway."

##### APRIL BIRTHDAYS

1. Prince Bismarck
2. Thomas Jefferson
3. Washington Irving
7. W. Wordsworth
11. Edward Everett
12. Henry Clay
15. J. L. Motley
21. Immanuel Kant
22. Madame de Staël
23. Wm. Shakespeare
27. U. S. Grant

##### FLOWERS OF THE MONTH

Jack-in-the-Pulpit  
Wild Hyacinth  
Blue Flag  
Anemone  
Dwarf Iris  
Wild Pink  
Meadow-Rue  
Bloodroot  
Red Haw  
Wild Cherry  
Judas Tree  
Marsh Marigold  
Wisteria  
Violet  
Dogwood  
Lilac

##### VISITING SPRING MIGRANTS

Loon  
Golden Plover  
Osprey  
Bobolink  
White-crowned Sparrow  
Cliff-Swallow  
Vireo  
Tennessee Warbler  
Magnolia Warbler  
Black-poll Warbler  
Blackburnian Warbler  
Oven-bird  
Water Thrush  
Redstart  
Ruby-crowned Kinglet  
Veery

#### THE WAVERLEY YEAR BOOK FOR MAY

##### GEMINI: THE TWINS

"Happiness was born a  
twin." —Byron.

##### MAY BIRTHDAYS

1. Joseph Addison
1. Duke of Wellington
4. J. J. Audubon
7. Robert Browning
16. W. H. Seward
19. Mrs. Jameson
20. Honore Balzac
24. Queen Victoria
25. R. W. Emerson
27. Dante Alighieri
28. Louis Agassiz
31. Walt Whitman

##### FLOWERS OF THE MONTH

Dragon Root  
Star of Bethlehem  
Solomon's Seal  
Lily of the Valley  
Lady's Slipper  
Bleeding Heart  
Syringa  
Hawthorn  
Pansy  
Passion Flower  
Primrose  
Azalea  
Rosemary  
Forget-Me-Not  
Honeysuckle  
Black-eyed Susan

##### VISITING SPRING MIGRANTS

Night Hawk  
Blue-headed Vireo  
Black and White Warbler  
Golden-winged Warbler  
Cape May Warbler  
Myrtle Warbler  
Pine Warbler  
Prairie Warbler  
Wilson's Warbler  
Canadian Warbler  
Marsh Wren  
Hermit Thrush  
Philadelphia Vireo  
Nashville Warbler  
Chestnut-sided Warbler  
Black Tern





1913 JUNE 1913						
SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30		N. Moon 4th	F. Quar. 11th	F. Moon 18th	L. Quar. 26th

#### GEORGIAN BROUGHAM

MODEL 99

**BODY**—Design copyrighted. Length over all 152 in.; Width car over all 66 in.; Length body over all 145 in.; Width body over all 58 in.; Wheel base 109 in.; Interior length glass to glass 65 in.; Width rear seat 48 in.; Depth rear seat 19 in.; Width front seat 16 in.; Depth front seat 15 in.; Space between seats 21 in.; Width of door opening 23 in.; Height seat to ceiling, front 42 in.; rear 42 in.; Ground to step 14 in.; Step to sill 6 in.; Height floor to cushion, front 15 in.; rear 16 in.; Tread 56 in.

**COLOR**—Black with Majestic blue panels, or painted to order with any standard or selected colors.

**UPHOLSTERING**—Special importations of plain and fancy broadcloths or best goat morocco.

**WHEELS**—Wood, fitted with pneumatic 34 x 4 in. front and rear. Cushion tires 34 in. front and rear.

**SPRINGS**—Full elliptic front and rear.

**MOTOR**—One 80-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arc special Waverley design. Instrument: Combination voltmeter and ammeter, Shaft-driven trip and season odometer. Brakes: Two foot brakes and one hand brake. Steering: Lever, semi-irreversible. Fenders: Metal.

**BATTERY**—Forty cells 11 plate Hycap Exide or Philadelphia M. V. style. Options, 13 plate Gould or Waverley. Edison or Ironclad Exide at extra price.

#### THE WAVERLEY YEAR BOOK FOR JUNE

##### CANCER: THE CRAB

"The world was sad, and man a hermit-crab, till woman smiled."

##### JUNE BIRTHDAYS

5. Socrates
6. Velasquez
6. Corneille
11. Ben Jonson
12. Harriet Martineau
14. Harriet Beecher Stowe
19. Confucius
19. Pascal
24. Empress Josephine
27. Charles XII
28. Peter Paul Rubens

##### FLOWERS OF THE MONTH

Woodsia  
Water Sedge  
Day Lily  
Amaranth  
Sweet William  
Ragged Robin  
White Pond Lily  
Field Poppy  
Sweet Alyssum  
Saxifrage  
Hydrangea  
Rhododendron  
Brier Rose  
Prairie Rose  
Marsh Mallow  
Foxglove

##### RESIDENT SUMMER BIRDS

Wood Ibis  
Night Heron  
Marsh Hen  
Killdeer Plover  
Chuck-Will's-Widow  
Hummingbird  
Phoebe  
Orchard Oriole  
Vesper Sparrow  
Rose-breasted Grosbeak  
Scarlet Tanager  
Cerulean Warbler  
Yellow-breasted Chat  
Brown Thrasher  
Robin  
Bluebird



1913 JULY 1913						
SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	F. Moon 18th	L. Quar. 26th

#### THE HUSH OF A SUMMER NIGHT

WHOEVER on a summer evening has watched the automobile parade in one of our larger cities on Riverside Drive, Sheridan Road or Golden Gate Park and listened to its variously pitched noises—the thud of the six, the rumble of the four, and the chug-chug of the single cylinder engine, with the frequent rattle of gears and chains and honk of the automobile horn—must have felt with a sigh of relief the sudden cessation of all disturbing noises as a Silent Waverley Electric sailed gracefully by.

Then, for an instant, he has known the full meaning of the "hush of a summer night" as it is understood by a Waverley owner. The possession of a vehicle that will invade the most silent of Nature's solitudes without a disturbing sound, without breaking the slumber of a rabbit or attracting the notice of a squirrel, is a joy and a satisfaction to every lover of Nature, a pleasure not shared by gas-car owners.

#### THE WAVERLEY YEAR BOOK FOR JULY

##### LEO: THE LION

"And dar'st thou then  
To beard the lion in his den."  
—Scott.

##### JULY BIRTHDAYS

4. Nathaniel Hawthorne
5. George Sand
7. Robert Schumann
9. Ann Radcliffe
11. J. Q. Adams
12. Julius Caesar
12. Henry D. Thoreau
15. Galileo
15. Rembrandt
22. Garibaldi
23. Charlotte Cushman

##### FLOWERS OF THE MONTH

Arrowhead  
Purple Fringed Orchis  
Ladies' Tresses  
Larkspur  
Virginia Creeper  
Meadow Beauty  
Peppermint  
Petunia  
Figwort  
Teasel  
Milkweed  
Adder's-mouth  
Wolfsbane  
Sassafras  
Prairie Clover  
Pondweed

##### RESIDENT SUMMER BIRDS

Blue Heron  
Rail Bird  
Mourning Dove  
Whippoorwill  
King Bird  
Wood Pewee  
Red-winged Blackbird  
Baltimore Oriole  
Chipping Sparrow  
Indigo Bunting  
Purple Martin  
Blue-winged Warbler  
Kentucky Warbler  
Mockingbird  
White-eyed Vireo  
Prothonotary Warbler





## 1913 August 1913

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
N. Moon 2d 31st	F. Quar. 8th	F. Moon 16th	L. Quar. 24th		1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

### EMPIRE BROUGHAM

### MODEL 101

**BODY**—Design copyrighted. Length car over all 139 in.; Width car over all 66 in.; Length body over all 125 in.; Wheel base 106 in.; Interior length glass to glass 65 in.; Width rear seat 47 in.; Depth rear seat 18 in.; Width front seat 41 in.; Depth front seat 20 in.; Space between seats 19 in. center and 21 in. at door; Width of door opening 23 in.; Height seat to ceiling, front 40 in.; rear 44 in.; Ground to step 14 in.; Step to sill 6 in.; Height floor to cushion 17 in.; Tread 56 in.

**COLOR**—Black with Majestic blue panels, or painted to order with any standard or selected colors.

**UPHOLSTERING**—Special importations of plain and fancy broadcloths or best goat morocco.

**WHEELS**—Wood, fitted with pneumatic 34x4 in. front and rear. Cushion tires 34 in. front and rear.

**SPRINGS**—Full elliptic front and rear.

**MOTOR**—One 80-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arcing special Waverley design. Instrument: A combination voltmeter and ammeter. Brakes: Two foot brakes and one hand. Steering: Lever, semi-irreversible. Fenders: Metal.

**BATTERY**—Forty cells 9 plate Exide or Philadelphia M. V. style. Options, 11 plate Hycap Exide or Philadelphia, 13 plate Gould or Waverley. Edison or Ironclad Exide at extra price.

## 1913 September 1913

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	F. Quar. 7th	F. Moon 15th	L. Quar. 22d	N. Moon 29th

### COLONIAL BROUGHAM

### MODEL 97

**BODY**—Design copyrighted. Drop sill, swelled panels; Length car over all 145 in.; Wheel base 104 in.; Width car over all 65 in.; Length body over all 122 in.; Width body over all 49 in.; Interior length glass to glass 65½ in.; Width rear seat 44 in.; Depth rear seat 19 in.; Width front seat 42 in.; Depth front seat 19 in.; Space between seats 19 in.; Height seat to ceiling, front 43 in.; rear 45 in.; Width of door opening 23 in.; Ground to step 14 in.; Step to sill 4¼ in.; Height floor to cushion, front 16½ in.; rear 16 in.; Tread 56 in.

**COLOR**—Black with Majestic blue panels.

**UPHOLSTERING**—Hand-buffed leather, morocco finish, or gray cloth.

**WHEELS**—Wood fitted with Goodyear pneumatic tires 33x4 front and rear. Firestone cushion \$65 extra.

**MOTOR**—One 80-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive, motor suspended to body.

**CONTROLLER**—Non-arcing, special Waverley design.

**INSTRUMENT**—Odometer and combination voltmeter and ammeter.

**BRAKES**—Two foot brakes and one hand brake.

**STEERING**—Lever, semi-irreversible.

**FENDERS**—Metal.

**SPRINGS**—Full elliptic front and rear.

**BATTERY**—Forty cells 11 plate Gould, Philadelphia or Waverley M. V. style.

## THE WAVERLEY YEAR BOOK FOR AUGUST

### VIRGO: THE VIRGIN

"Withering on the virgin thorn  
Grows, lives and dies in single  
blessedness." —Shakespeare.

### AUGUST BIRTHDAYS

- Percy Bysshe Shelley
- Alfred Tennyson
- John Dryden
- Count Cavour
- Robert Southey
- Napoleon Buonaparte
- Walter Scott
- Robert Herrick
- Bret Harte
- J. W. von Goethe
- Oliver Wendell Holmes

### FLOWERS OF THE MONTH

Walking Fern  
Wormseed  
Bergamot  
Pigeonberry  
Bush Clover  
Wild Grape  
Indian Mallow  
Rose Mallow  
Rose of Sharon  
Evening Primrose  
Gerardia  
Trumpet Creeper  
Golden Aster  
Goldenrod  
Sunflower  
Sage Bush

### RESIDENT SUMMER BIRDS

White Crane  
Woodcock  
Yellow-billed Cuckoo  
Black-billed Cuckoo  
Kingfisher  
Chimney Swift  
Crested Fly-catcher  
Meadow Lark  
Bronze Grackle  
Field Sparrow  
Dickcissel  
Barn Swallow  
Yellow Warbler  
Maryland Yellowthroat  
Cat Bird  
Wood Thrush

## THE WAVERLEY YEAR BOOK FOR SEPTEMBER

### LIBRA: THE SCALES

"In equal scale weighing  
delight and dole." —Shakespeare.

### SEPTEMBER BIRTHDAYS

- Phoebe Cary
- Cardinal Richelieu
- Marquis de Lafayette
- Queen Elizabeth
- Charles Dudley Warner
- Alex. Humboldt
- J. Fenimore Cooper
- Alexander the Great
- Savonarola
- Earl of Chesterfield
- Eurioides

### FLOWERS OF THE MONTH

Fringed Gentian  
Rattlesnake Root  
Dog Fennel  
Purple Aster  
Jerusalem Artichoke  
Maiden Hair Fern  
Arrow Grass  
Bulrush  
Stinging Nettle  
Mountain Sorrel  
Clematis  
Water Fennel  
St. Johnswort  
Marsh Pink  
Phlox  
Giant Hyssop  
Buttercup

### VISITING AUTUMN MIGRANTS

Black Tern  
Night Hawk  
Bobolink  
Cliff Swallow  
Tree Swallow  
Philadelphia Vireo  
Yellow-throated Vireo  
Blue-headed Vireo  
Black and White Warbler  
Myrtle Warbler  
Magnolia Warbler  
Blackpoll Warbler  
Blackburnian Warbler  
Canadian Warbler  
House Wren  
Veery  
Olive-backed Thrush





**1913 - OCTOBER - 1913**

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
F. Quar. 8th	F. Moon 15th	L. Quar. 22d	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	N. Moon 29th

#### WAVERLEY COUPE

MODEL 93

**BODY**—Design copyrighted. Drop sill, swelled panels; Length 91 1/2 in.; Wheel base 89 in.; Rear seat, width inside measurement 42 in.; Seat to ceiling 47 in. (cushions removed); Depth rear seat 18 in.; Space between window and front of seat 25 in.; Distance ground to step 15 in.; Step to sill 11 in.; Tread 54 in.

**COLOR**—Black with Majestic blue panels, or painted to order with any standard or selected colors.

**UPHOLSTERING**—Broadcloth or leather to match panels.

**WHEELS**—Wood, fitted with pneumatic 32x3 1/2 in.; or cushion 32 in. front and rear.

**SPRINGS**—Full elliptic front and rear.

**MOTOR**—One 60-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arcing, special Waverley design.

**INSTRUMENT**—Combination voltmeter and ammeter

**BRAKES**—Two foot brakes.

**STEERING**—Side lever.

**FENDERS**—Leather, shrouded.

**BATTERY**—Thirty-two cells 11 plate Exide or Philadelphia P. V. style. Edison or Ironclad Exide at extra price.



**1913 - NOVEMBER - 1913**

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
F. Quar. 8th	F. Moon 15th	L. Quar. 21st	N. Moon 27th			1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

#### VICTORIA PHAETON

MODEL 96

**BODY**—Design copyrighted. Drop sill, swelled panels; Length car over all 91 1/2 in.; Wheel base 89 in.; Rear seat, width inside measurement 42 in.; Seat to ceiling 47 in. (cushions removed); Depth rear seat 18 in.; Space between window and front of seat 25 in.; Distance ground to step 15 in.; Step to sill 11 in.; Tread 54 in.

**COLOR**—Black with Majestic blue panels, or painted to order with any standard or selected colors.

**UPHOLSTERING**—Broadcloth or leather to match panels.

**TOP**—Full leather Victoria, Buggy or Gipsy.

**WHEELS**—Wood, fitted with pneumatic 32x3 1/2 in. Cushion 32 in. front and rear \$65 extra.

**SPRINGS**—Full elliptic front and rear.

**MOTOR**—One 60-volt Waverley, especially adapted to hill climbing; speed 5 to 20 miles per hour.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arcing special Waverley design. Instrument: A combination voltmeter and ammeter. Brakes: Two foot brakes. Steering: Side Lever. Fenders: Leather, shrouded.

**BATTERY**—Thirty-two cells 11 plate Exide or Philadelphia P. V. style. Edison or Ironclad Exide at extra price.

### THE WAVERLEY YEAR BOOK FOR OCTOBER

#### SCORPIO: THE SCORPION

"I liken her to the scorpion  
That is a false flattering beast."  
—Chaucer.

#### OCTOBER BIRTHDAYS

- George Bancroft
- Jenny Lind
- Cervantes
- Benjamin West
- William Penn
- Virgil
- Leigh Hunt
- S. T. Coleridge
- T. B. Macaulay
- Erasmus
- John Keats

#### FLOWERS OF THE MONTH

Yellow Jasmine  
Euphorbia  
Spleenwort  
Hogwort  
Viburnum  
Coreopsis  
Bachelor's-Button  
Wartweed  
Pimpernel  
Pinesap  
Agrimony  
Sensitive Plant  
Wild Bean  
Wax Weed  
Cypress Vine  
Morning-Glory

#### VISITING AUTUMN MIGRANTS

Spoonbill Duck  
Snow Goose  
American Coots  
Sandpiper  
Osprey  
Purple Finch  
Swamp Sparrow  
White-throated Sparrow  
Golden-winged Warbler  
Nashville Warbler  
Tennessee Warbler  
Cape May Warbler  
Bay-breasted Warbler  
Pine Warbler  
Prairie Warbler  
Redstart

### THE WAVERLEY YEAR BOOK FOR NOVEMBER

#### SAGITTARIUS: THE ARCHER

"Insatiate archer! Thy shaft  
flew thrice;  
And thrice my peace was slain."  
—Young.

#### NOVEMBER BIRTHDAYS

- William C. Bryant
- Martin Luther
- Friedrich von Schiller
- T. B. Aldrich
- R. L. Stevenson
- William Cowper
- George Eliot
- Fanny Kemble
- Sir Philip Sidney
- Dean Swift

#### FLOWERS OF THE MONTH

Water Cress  
Red Clover  
Peppergrass  
Wild Mustard  
Daisy  
Indian Heliotrope  
Sweet Clover  
Milkwort  
Moth Mullen  
Catnip  
Burdock  
Field Thistle  
Wild Lettuce  
Striped Gentian  
Nonesuch  
Witch Hazel

#### VISITING AUTUMN MIGRANTS

Loon  
Pintail Duck  
Canvasback Duck  
Bittern  
Sandhill Crane  
Snipe  
Golden Plover  
White-crowned Sparrow  
Fox Sparrow  
Palm Warbler  
Titlark  
Golden-crowned Kinglet  
Ruby-crowned Kinglet  
Hermit Thrush  
Brown Creeper  
Nuthatch





1913 ~DECEMBER~ 1913						
SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
F. Quar. 29th	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1st 12th	2nd 13th	3rd 14th

#### SHELTERED ROADSTER MODEL 90

**BODY**—Design copyrighted. Metal. Length car over all 147 in.; Width car over all 63 in.; Length body over all 121 in.; Width body over all 49 in.; Wheel base 104 in.; Interior length back to front glass 57 in.; Width of seat 43 in.; Large disappearing seat for third occupant; Height seat to ceiling, front 42 in.; rear 41 1/2 in.; Height floor to cushion, front 14 1/2 in.; rear 15 1/2 in.; Tread 56 in.

**COLOR**—Gray with suitable striping, or painted to order with any standard or selected colors.

**TOP**—Convertible Landau first quality.

**UPHOLSTERING**—Leather, hand-buffed.

**WHEELS**—Wood, fitted with pneumatic 34 x 3 1/2 in. front and rear. Cushion tires 34 in. front and rear.

**MOTOR**—One 60-volt Waverley, especially adapted to hill climbing; speed 5 to 25 miles.

**STEERING**—Wheel.

**SPRINGS**—Full elliptic front and rear.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arcing Waverley design. Instrument: Combination voltmeter and ammeter, trip and season odometer. Brakes: Two foot brakes. Fenders: Metal with running board.

**BATTERY**—Thirty-four cells 11 plate Hycap Exide or Philadelphia M. V. style. Options, 13 plate Gould or Waverley. Edison or Ironclad Exide at extra price.

#### THE WAVERLEY YEAR BOOK FOR DECEMBER

##### CAPRICORN: THE GOAT

"He is a mountaineer,  
A man of goatland."  
—Fletcher.

##### DECEMBER BIRTHDAYS

4. Thomas Carlyle
9. John Milton
10. Wm. Lloyd Garrison
11. Hector Berlioz
12. Heinrich Heine
17. Ludwig von Beethoven
17. John G. Whittier
21. Benj. Disraeli
23. T. W. Higginson
24. Matthew Arnold
26. Mrs. Somerville

##### FLOWERS AND EVERGREENS

- Liverwort
- Mistletoe
- Holly
- Winterberry
- Cedar of Lebanon
- Spruce Pine
- Hemlock Spruce
- Silver Fir
- Mountain Pine
- European Larch
- Jointed Yew
- Canadian Juniper
- Siberian Arbor Vitae
- Rocky Mountain Juniper
- Fragrant Cypress
- Mexican Juniper

##### RESIDENT WINTER BIRDS

- Red-necked Grebe.
- Mallard Duck
- Bob White
- Wild Turkey
- Marsh Hawk
- Bald Eagle
- Barred Owl
- Hairy Woodpecker
- Red-headed Woodpecker
- Green-crested Flycatcher
- Crow
- Snow Bunting
- Junco
- Cardinal
- Carolina Wren
- Tufted Titmouse



POCKET EDITION  
LARGE ILLUMINATED CATALOG  
MAILED ON REQUEST





1913 ~DECEMBER~ 1913						
SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

#### SHELTERED ROADSTER MODEL 90

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**COLOR**—Gray with suitable striping, or painted to order with any standard or selected colors.

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**UPHOLSTERING**—Leather, hand-buffed.

**WHEELS**—Wood, fitted with pneumatic 34x3 1/2 in. front and rear. Cushion tires 34 in front and rear.

**MOTOR**—One 60-volt Waverley, especially adapted to hill climbing; speed 5 to 25 miles.

**STEERING**—Wheel.

**SPRINGS**—Full elliptic front and rear.

**GEARING**—Waverley noiseless inclosed High-Efficiency Shaft Drive; motor suspended to body.

**CONTROLLER**—Non-arcing Waverley design. Instrument: Combination voltmeter and ammeter, trip and season odometer. Brakes: Two foot brakes. Fenders: Metal with running board.

**BATTERY**—Thirty-four cells 11 plate Hycap Exide or Philadelphia M. V. style. Options, 13 plate Gould or Waverley. Edison or Ironclad Exide at extra price.

#### THE WAVERLEY YEAR BOOK FOR DECEMBER

##### CAPRICORN: THE GOAT

"He is a mountaineer,  
A man of goatland."  
—Fletcher.

##### DECEMBER BIRTHDAYS

- 4. Thomas Carlyle
- 9. John Milton
- 10. Wm. Lloyd Garrison
- 11. Hector Berlioz
- 12. Heinrich Heine
- 17. Ludwig von Beethoven
- 17. John G. Whittier
- 21. Benj. Disraeli
- 22. T. W. Higginson
- 24. Matthew Arnold
- 26. Mrs. Somerville

##### FLOWERS AND EVERGREENS

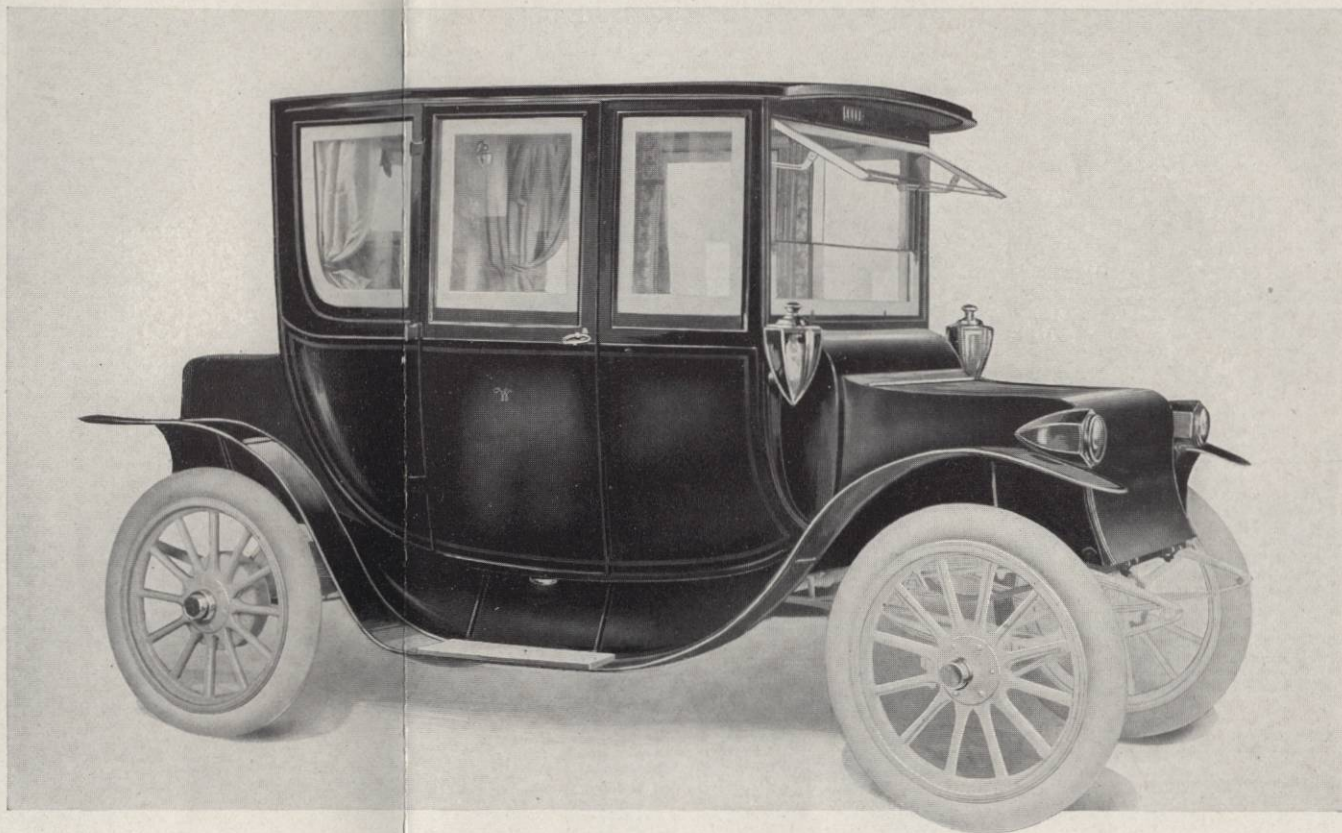
- Liverwort
- Mistletoe
- Holly
- Winterberry
- Cedar of Lebanon
- Spruce Pine
- Hemlock Spruce
- Silver Fir
- Mountain Pine
- European Larch
- Jointed Yew
- Canadian Juniper
- Siberian Arbor Vitae
- Rocky Mountain Juniper
- Fragrant Cypress
- Mexican Juniper

##### RESIDENT WINTER BIRDS

- Red-necked Grebe
- Mallard Duck
- Bob White
- Wild Turkey
- Marsh Hawk
- Bald Eagle
- Barred Owl
- Hairy Woodpecker
- Red-headed Woodpecker
- Green-crested Flycatcher
- Crow
- Snow Bunting
- Junco
- Cardinal
- Carolina Wren
- Tufted Titmouse







SPECIFICATIONS ON PAGE 6

## SILENT WAVERLEY LIMOUSINE-FIVE

MODEL 98 (FULL VIEW AHEAD) PRICE \$3500

THE 1912 Waverley catalogue was built on the associations that cluster around the Waverley name. The humanness and chivalry of Sir Walter Scott, the fine qualities of his romance, and his love of the poetry and traditions of the Middle Ages were made the back-ground of a business booklet designed primarily to interest the reader in the history and usefulness of Silent Waverley Electrics.

One of the unexpected results of the catalogue was the revival among Waverley patrons of an interest in Scott's writings and in the traditions of Abbotsford. Some customers informed us that they had been inspired by it to re-read the Waverley novels, and others that they had made the pilgrimage to Scotland to visit the author's home. Naturally this loyalty to the Waverley traditions interested us.

In the present Waverley Year Book we are taking the same loyalty for granted and leading the reader here and there on pilgrimages to Nature. There is no more delightful means of approach to Nature's haunts, no fitter way of coming in touch with her varying moods than in the All-the-Year Waverley.

The coming and going of the Silent Electric are in tune with Nature's usual repose. Waverley manners are in sympathy with the quiet of country lanes. Nevertheless it is in crowded city streets that Waverleys most abound, and town residents more than others find them essential to comfort.

IF THE reader has driven lately on the boulevards of Chicago his attention must have been attracted by an electric of unusual design—long, low and stable in its build, with a roof almost straight and a sweeping curve extending from the upper rear corner of the carriage body below the rear seat to the coupe pillar, where it comes to an abrupt termination and turns gracefully upward, uniting with the perpendicular lines of the front.

A projecting panel with rounded top connects the battery box and front of the carriage, breaking the severe lines that mark the usual junction of the perpendicular with the horizontal. This feature is balanced at the rear by an upward curve.

A closer glance shows that this is an inside driven electric with five-passenger seat space, the driver occupying the front seat with full view ahead and a wide arc of clear vision on either side. Accustomed as Chicagoans have been to associate the name electric with a high, box-like struc-

ture with an invisible driver and two or more people backed against the front window, the appearance of the Silent Waverley Limousine-Five in ever increasing numbers on the streets has marked the beginning of a revolution in the carriage ways of the Western metropolis.

First introduced by this Company in the autumn of 1911 the Full View Ahead car has already taken premier place in the hearts and habits of American carriage folk. Wherever it is seen, on the streets of Chicago, in the Boston Fens, in the broad avenues of Washington or the parks of Los Angeles, it is the car that commands attention and excites the involuntary expression of admiration.

By it the Waverley tradition of leadership in design, superiority of construction and ascendancy in service has been strikingly confirmed.

The curved sill which is a structural feature of this and other Waverley models makes it possible to suspend the body at any required height from the ground, lower even, if desired, than those extreme types of Colonial designs that have acquired a certain vogue. The symmetry and dignified proportions of Silent Waverley Limousine-Five, however, and a proper regard for the easy riding qualities for which the Waverley is famed have dictated a conservative rather than an extreme course in this respect. Though the 1913 Limousine is some inches lower than last year's model there is still ample clearance from the ground, and the full-elliptic spring suspension, peculiar to the Waverley, has not only been retained but even improved upon in this year's designs.

The seating arrangement of the Full-View-Ahead car, which last year was a complete novelty in electric car designing, has been standardized by its universal acceptance as the rational mode of seating five passengers in an electric automobile. The dimensions have been amplified this year so that three stout persons can be comfortably seated on the rear seat.

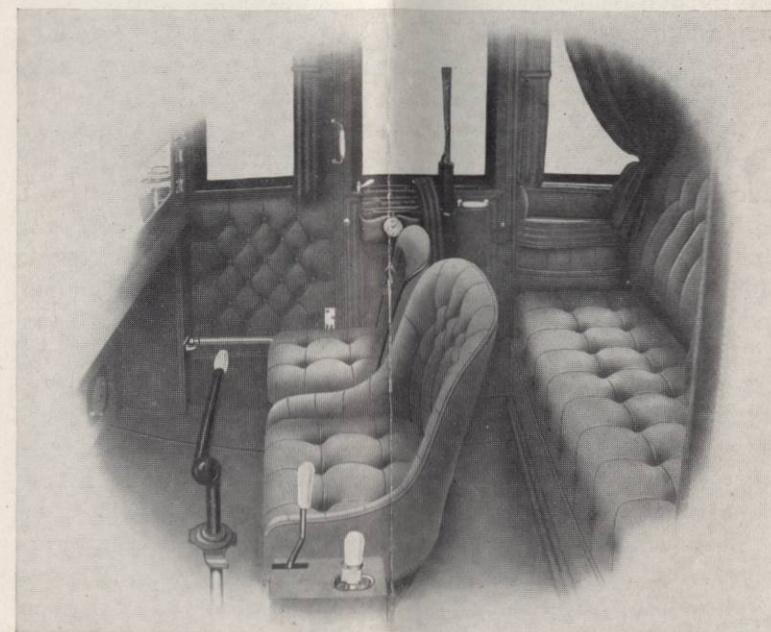
In luxury of appointments the Limousine sets as usual a new mark of progress. The markets of Europe and America have been ransacked for novel and beautiful patterns in broad cloths, broad laces and

satins. The richest goat morocco produced in Spain or England will be substituted if the owner so elects. Cut glass vase and perfumery bottles, together with beveled mirrors, morocco toilet and cigar cases, watch, plated umbrella holder, and pearl handles for the controller and steering lever, window lifts, etc., are among objects of luxury and convenience that go with the Limousine-Five.

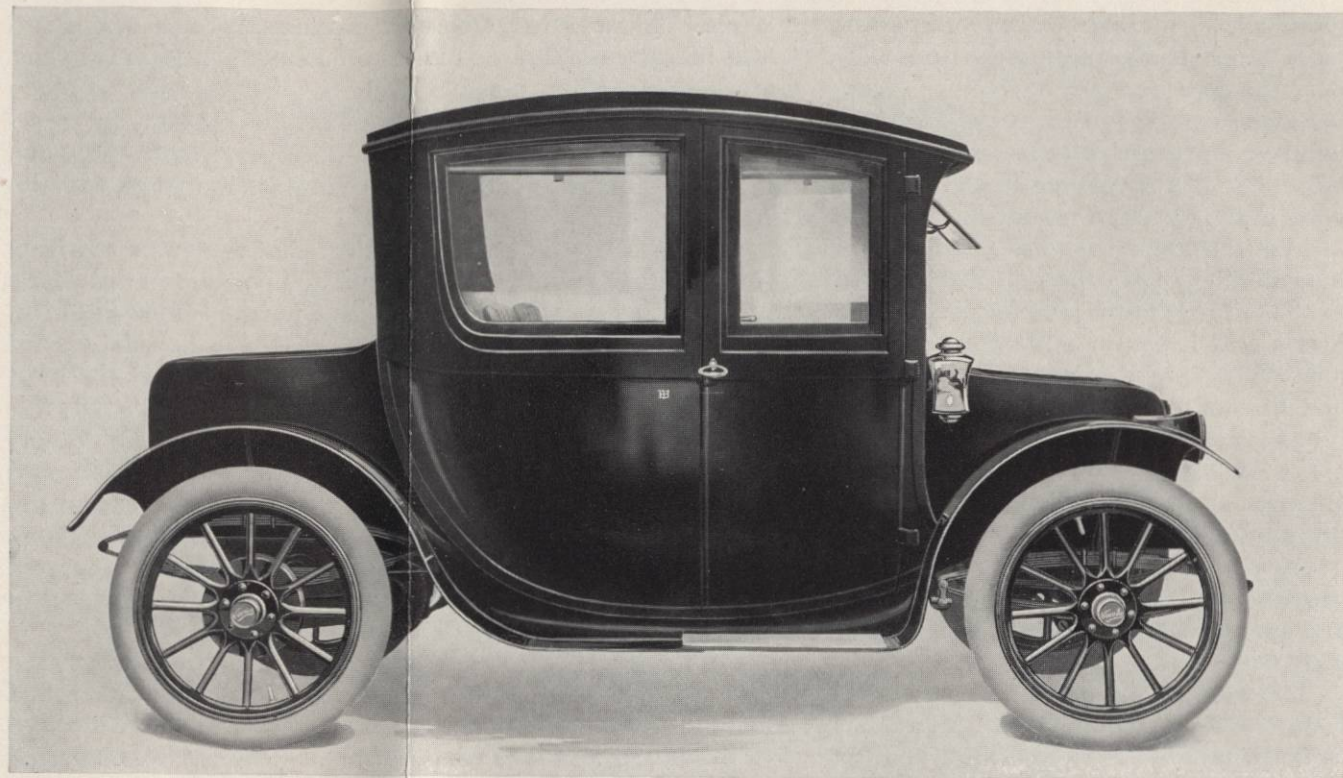
The recognized perfection of the Silent Waverley mechanism has made few changes desirable or possible in this year's models. A larger battery is provided for the Limousine-Five, 40 cells, 11 plates M. V. style, and this has led to the enlargement of the Waverley Multipolar Motor, already one of the most efficient power plants on an electric car. Power is fed by this motor through a flexible gear to the countershaft of the Waverley High-Efficiency Shaft Drive, easily the most efficient and least power consuming drive on an automobile. From the countershaft the power is transmitted through herringbone gears of 98.7 per cent efficiency to the full-floating rear axle. All the gears, bearings and shafts of this drive are housed in dust-proof cases and run in a constant bath of oil.

The perfect control of the battery and motor secured by the Waverley No-Arc Controller has long been an established feature of the car. It provides for four speeds either forward or backward, and is so adjusted that the car can not be started in either direction on any speed but the low—a feature of much importance to the safety of the passengers. The Waverley side-lever steer insures instant responsiveness to the will of the driver. The steering mechanism has this year been made semi-irreversible and strengthened. Internal expanding brakes with 14-inch drums and motor-shaft contracting brakes are operated by convenient foot levers, while an emergency hand brake completes the safety appliances.

INTERIOR LIMOUSINE-FIVE







SPECIFICATIONS ON PAGE 8

## SILENT WAVERLEY LIMOUSINE-FOUR

MODEL 100

(FULL VIEW AHEAD)

PRICE \$2900

THE Silent Waverley Limousine-Five was a new departure in motor carriage design, and one that was instantly and everywhere recognized as an achievement of the first importance. But every departure creates a new demand. No sooner was the five-passenger Limousine with full view ahead a reality than a demand was created for a four-passenger car with like advantages. At first glance the problem seems easy enough. A slight change in the dimensions and the trick is turned.

As experienced carriage builders, The Waverley Company knew, however, that no such make-shift would meet the requirements of the case. The four-passenger coach is always a problem apart from the five-passenger vehicle. It is less a family affair and much more intimately an individual possession. Milady who drives it about town on her shopping and calling and personal errands has a decided preference for her place on the rear seat. She thinks it more sociable for one thing and less conspicuous. She may feel that she sacrifices something of her position as hostess to her driving guests when she moves to the front seat. For her complete satisfaction it will be necessary to preserve the full-view-ahead feature and also retain the advantages of the rear seat drive.

This was the problem given the Waverley engineers to solve. A glance at the seat plan on the opposite page will show you how they have solved it. With a shorter and narrower body than the Limousine-Five, ample seat space for three

people, including the driver, is provided on the rear seat, while the fourth passenger is comfortably accommodated on a separate seat in the forward right-hand corner, leaving a wholly unobstructed view for the driver.

There is a military term that describes the disposition of passengers on the rear seat. When troops or battleships are to advance in double line with the greatest possible freedom of action and movement for each unit they are arranged "in echelon," the rear rank between and slightly overlapping two units of the front rank.

Human shoulders in a carriage are a good deal like battleships. They need sea-room. Seated in echelon there is no limit to the elbow room of each passenger, yet the easy intimacy of the three passenger seat is not disturbed. The division of the seats gives the driver much greater freedom. His elbow never comes in contact with that of his neighbor, and his thoughts will not be diverted from guiding the car by fear of discommoding a guest.

The same freedom is enjoyed by the guests themselves since their own movements are not likely in any way to disturb their host. The fourth passenger, occupying a separate seat to the driver's right, in no way obstructs his view. In this way the problem is completely solved.

Entirely apart from this unique seating arrangement, the Silent Waverley Limousine-Four is a car marked on the streets and boulevards by every passer's gaze. It preserves some of the most effective lines of the Limousine-Five, especially the beautiful sweep of the lower curve; but its distinctive features are even more striking, original and practical.

Note the position of the front window close to the door, bringing the glass as near to the driver as in a two-passenger coupe. Note, also, the unusual size of the window openings and the large side panels. This makes for greater simplicity and unusual beauty of design, while increasing the light and ventilation.

The roof has a decided curve, which, without being extreme, gives a distinctive grace to the body design wholly in keeping with the novelty of its structural features. The sill, step and fender are low, as low as any practical requirement would dictate, but there is still ample clearing space for safety on the roughest roads.

The mechanical construction on the Silent Waverley Limousine-Four differs but little from that of Limousine-Five. In both cars an option is allowed between four types of lead-pasted battery—40 cells, 11-plate, Exide Hycap or Philadelphia M. V. style, or 13-plate Gould or Waverley M. V. style, without additional cost. If the Edison nickel-steel battery or the Ironclad Exide is desired either will be furnished at an advance price that will be quoted by our dealer or representative.

With the many excellent batteries on the market, each marked by some points of superiority or advantage, the purchaser of a car will be well advised if he explains to the salesman or dealer the conditions under which his car will be operated and the service he wishes to obtain from it and leaves it to a Waverley expert to determine the type of battery best suited to his particular requirements.

The additional cost of an Edison or Ironclad battery will be justified in some cases, and in other cases not, according to the owner's requirements. The Waverley expert can be relied upon to give an impartial recommendation in every case.

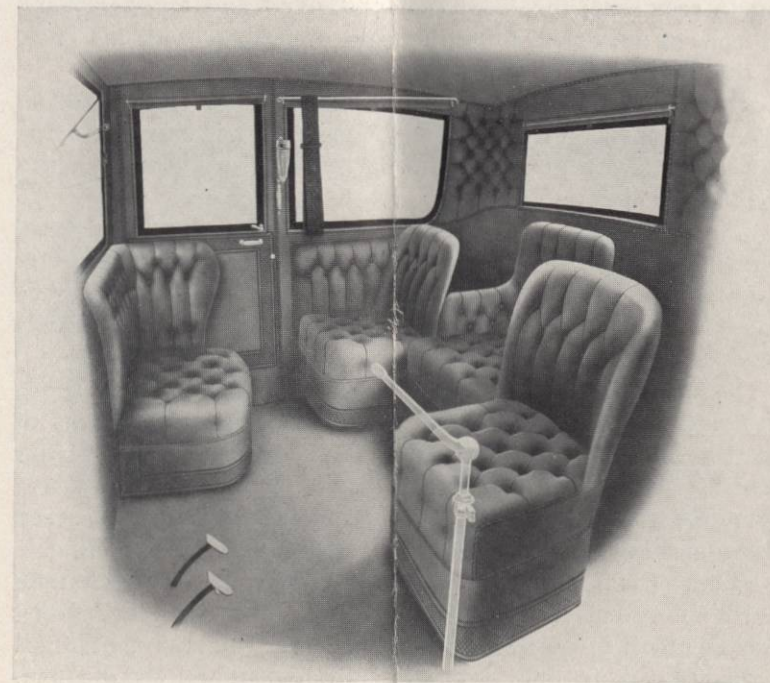
The use of the new multipolar 80-volt Waverley motor gives every owner of a 1913 car full assurance that the increased amperage supplied by this year's larger batteries will be converted into ampler turning power than his utmost probable needs. The overload capacity of the new motor is such that a Silent Waverley Electric will negotiate the steepest hill and the worst road-bed that a motor car of any type or horsepower will venture to attempt.

At Wichita recently a Silent Waverley was driven to the top of a 51 per cent. artificial incline in a competition open to all makes of gas cars, only one of which made the ascent.

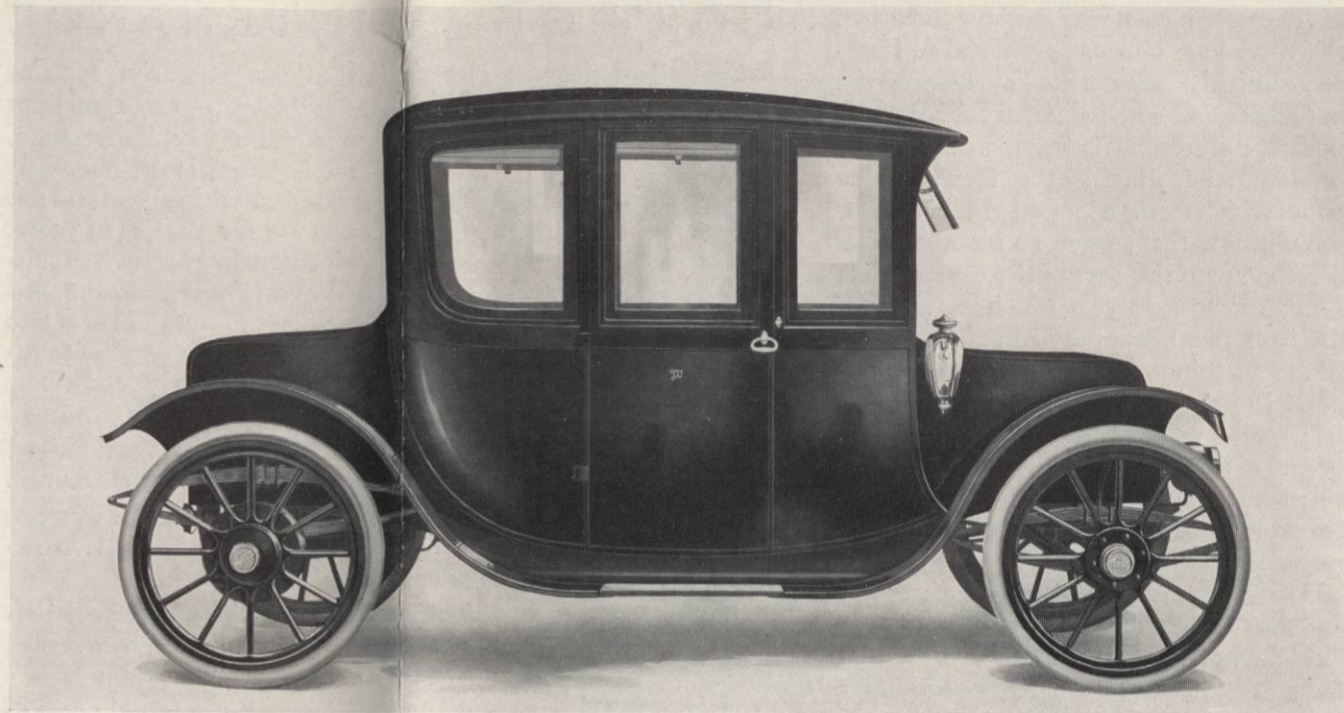
The Silent Waverley High-Efficiency Shaft Drive with which the car is equipped has a higher percentage of efficiency and a longer record of satisfactory service than any shaft drive in use on an electric car. Its manifest advantages over other types of driving mechanism are known wherever an electric car is known. A detailed description will be found on page 29.

The Silent Waverley No-Arc Controller is of the knife-blade continuous contact type, preferred by experts in all lines of electrical engineering. It furnishes four speeds, ranging from five to twenty miles an hour, either backward or forward, and is so adjusted that it is impossible to start the car in either direction on any speed but the low. Its operation is so simple that a child learns to manage it quickly and as if by instinct. In fact the mechanism of its operation is precisely in line with that which controls the motor nerves and muscles of the human arm and hand. In other words, it is psychologically efficient.

INTERIOR LIMOUSINE-FOUR







SPECIFICATIONS ON PAGE 12

## SILENT WAVERLEY EMPIRE BROUGHAM

MODEL 101 — PRICE \$2800

**E**ACH of the three cars just described represents a distinct departure from established types and embodies novelties of design that stamp it as the product of inventive genius.

The Silent Waverley Empire Brougham, on the other hand, is just as plainly a product of evolution. Every step in its growth can be traced to an earlier stage of development as far back as the introduction of the patented drop sill in the first Waverley Victoria Phaeton.

The earliest closed Waverley built on this sill was the two-passenger coupe. This was followed by Model 75-C, four-passenger brougham, of the same wheel base and general dimensions, but with an enclosed extension over the front battery box providing a seat for two additional occupants.

This car was the forerunner of a type, all following similar lines, but steadily increasing in size, in seat space, in length of wheel base and in riding comfort.

All were variations of the extension front brougham, in which the coupe lines were carried to the forward door post and then united by a more or less simple device to the upright lines of the carriage front.

In the present design the curved base line of the body is carried beyond the door to a point forward of the coupe pillar, and then with an inward and upward curve to a junction with it. The front window and the side panels and windows in front of the door are thus included in the unified design, greatly enhancing its beauty and dignity.

The straight roof, which was characteristic of the earlier

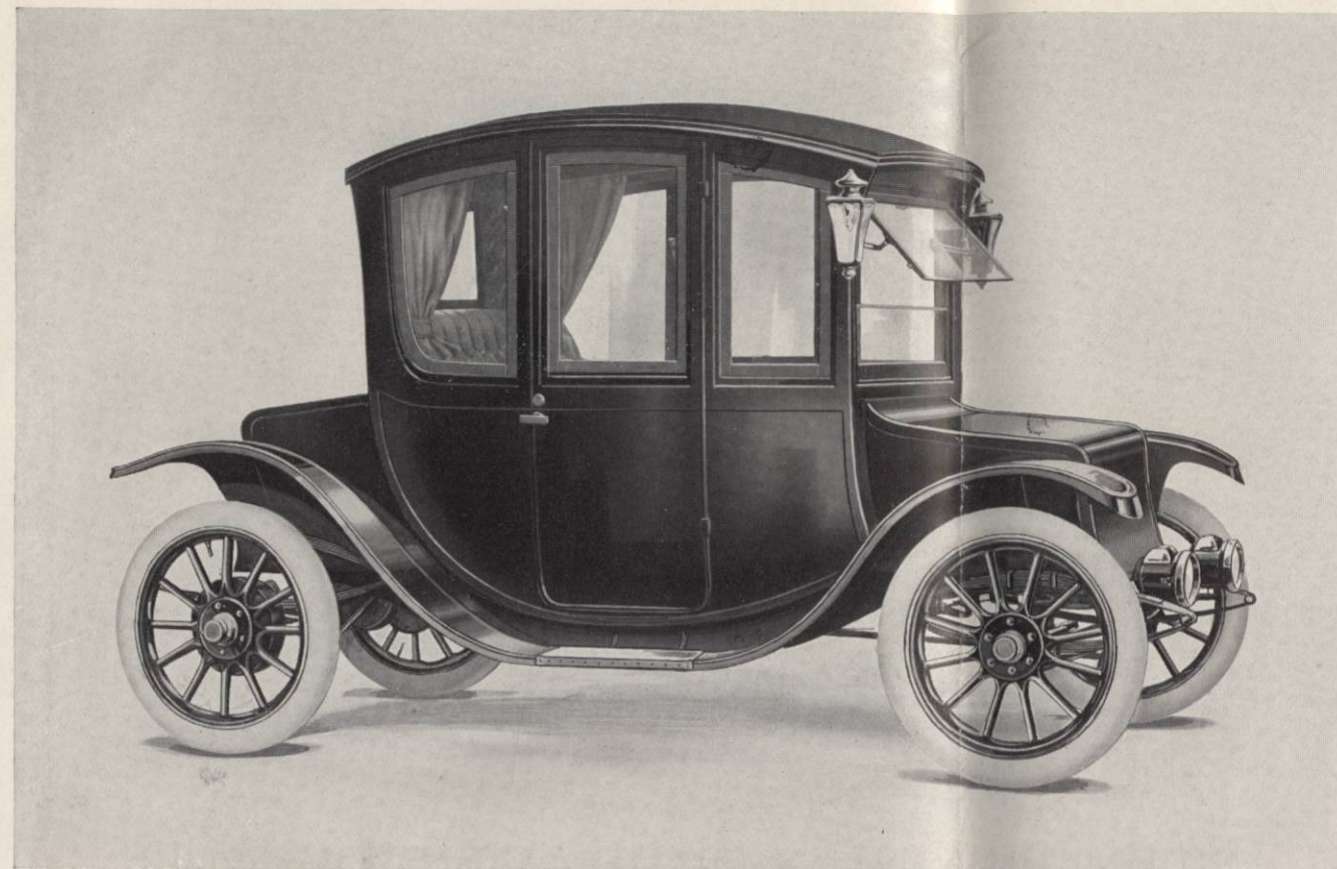
Waverley types, has here given place to a roof slightly curved and pitching toward the front though avoiding extremes.

The side panel and window in front of the door are made larger and the result is a highly satisfactory balance of spaces in the new design. In richness of upholstery and interior furnishing the car is not inferior to the others previously described. The seating arrangement is the same as in earlier broughams, but the width and roominess of the seats have been much increased.

Silent Waverley Empire Brougham is equipped with 40 cells, 9, 11 or 13-plate battery, the Waverley 80-volt motor, High-Efficiency Shaft Drive, semi-irreversible steer, and No-Arc Controller.

The four full-elliptic springs, with longitudinal torsion supporting springs, give this and other Waverley models an easy riding quality highly distinctive of the car. The low slung axle and curved sill bring the floor and step close to the ground.

In all respects the Silent Waverley Empire Brougham is the latest product of evolution in Electric Carriage designing.



SPECIFICATIONS ON PAGE 13

## SILENT WAVERLEY COLONIAL BROUGHAM

MODEL 97 — PRICE \$2375

**C**OLONIAL designs have been much in evidence among motor cars, both gasoline and electric, for a year or more, cars of low price taking the lead in this innovation.

A certain demand having been established for cars of this type, The Waverley Company this year presents a Colonial Brougham, in which the characteristic lines of the style have been followed, but have not been pushed to an extreme.

With the conservative treatment adopted by Waverley designers this model has both beauty and dignity and may be safely chosen by purchasers who have regard for more than the fashion of the passing moment.

The purchaser of a Silent Waverley Colonial Brougham will find at his command a thoroughly up-to-date car, embodying the results of seventeen years' experience in motor car design and construction, while the price will be found as low as a thoroughly well built electric can be sold for.

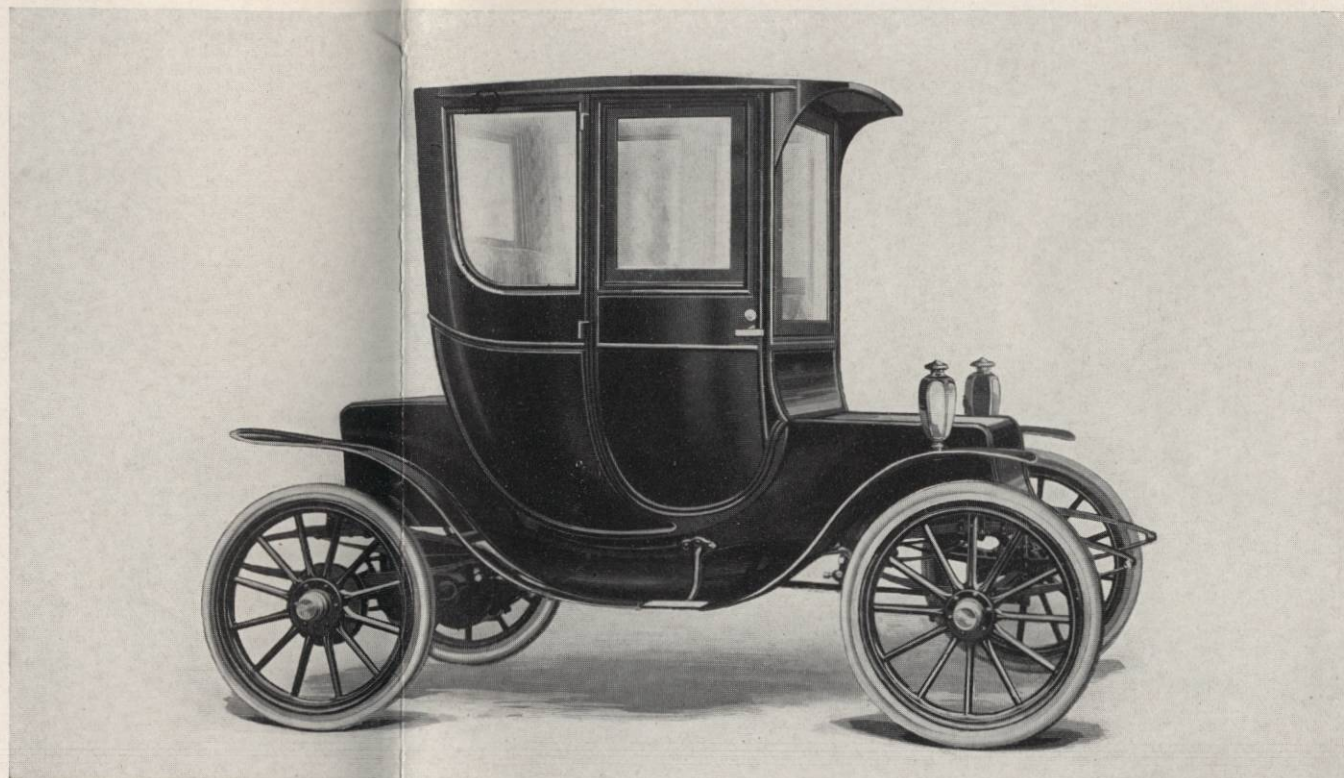
A happy combination of curved lines in the roof, with curved and rectilinear lines in doors and window casings gives a slightly jaunty effect to the car without offending good taste. A proper balance of panel and window spaces (so often sacrificed in Colonial designs) has been carefully preserved, while the large window openings furnish ample light and vision.

The size and roominess of the new Colonial Brougham are not inferior to those of higher priced Waverleys; but a saving has been effected in weights.

Leather or broadcloth of the best American manufacture is used in upholstering the car, comfort and durability receiving first attention in making selections. Lamps and flower vase are of Colonial pattern.

The mechanical equipment of the Colonial Brougham is the same as that used on all Waverley Electrics. Steel fenders take the place of leather; the doors open forward instead of backward; the low-hung body is suspended on four full-elliptic springs with torsional supporting side springs, giving the superior riding qualities for which all Silent Waverleys are famous. The motor, shaft drive, controller, brakes and semi-irreversible steering system are all of the latest and most improved Waverley design and construction.





SPECIFICATIONS ON PAGE 14

## SILENT WAVERLEY TWO-PASSENGER COUPE

MODEL 93 — PRICE \$2150

**D**O YOU need an electric for your personal use and convenience or for the entertainment of your friends? If personal use predominates in your requirements, a Waverley Two-Passenger Coupe will best fit your needs. There is ample space on its roomy seat for two grown-ups, while a folding child's seat provides a place for a third passenger when required.

When a car is used regularly for business or professional calls the roominess of a four or five passenger car is sometimes not so much an advantage as a fault. Accordingly there is a constant demand for the two or three passenger car.

The design here shown is one that has made a familiar place for itself in the automobile world. Its graceful body lines are those of the Silent Waverley Victoria Phaeton. A coupe top has here been substituted for the folding leather top used on that car and a special feature of the model is the fact that this coupe top may be removed if desired, a leather top attached in its place, and the delights of an open car in summer may be enjoyed, while upon replacing the coupe top perfect protection is afforded for the winter season.

Who was it that said it was only when he was laid on his back by illness that he could look up and see the stars shining?

This is a pleasing sentiment for convalescents, but the owner of an automobile prefers not to be forced to a recumbent position by any of those frequent ailments that beset the delicate mechanism of a gasoline car.

It is injurious to the clothes, the dignity and the temper of a man to work with a wrench and an oil can on the bottom of an underslung complication of machinery.

The simplicity of Waverley mechanical features, the durability of parts, the absence of all occasion for repair work, the freedom from annoyance—these are assets you buy with a Silent Waverley that are not always fully appreciated unless you have had experience with the gas engine.

They are very real, notwithstanding, and their worth grows upon you as you contemplate the troubles and vexation of your friends who have bought the lower priced gas cars and paid dearly for their economy in vexation of spirit.

Wisdom is sometimes bought at the bargain counter, but it comes far less expensively with the ownership of a Silent Waverley Electric.

If business or professional duties call for regular use of a two-passenger car, Model 93 Waverley Coupe will be found most serviceable for winter or summer.



SPECIFICATIONS ON PAGE 15

## SILENT WAVERLEY VICTORIA-PHAETON

MODEL 96 — PRICE \$1850

**A**N ARTIST was once asked with what he mixed his colors. "Brains," he brusquely replied. The designer of the Silent Waverley Victoria-Phaeton is too modest and courteous to give such a reply to a questioner, but we submit that the carriage itself gives the answer for him.

Intelligence is written all over the design. The grace, beauty and symmetry of its lines are not a mere "happenstance," nor yet a clumsy adaptation of another's thought.

The patented curved sill is the Waverley engineer's solution of an important problem—that of the low-hung body combined with full-elliptic springs, the only spring suspension that can be relied upon to give the famous Waverley riding ease.

As is usual when a skillful engineer does an ingenious thing, the curved sill was found to have artistic fitness. It combines well with the curved lines of the Victoria body design.

There is a harmony of lines that is just as pleasing to the trained eye as harmony of color. Women are especially sensitive to it, and for that reason Silent Waverley Victoria-Phaeton has always appealed to women's fastidious taste.

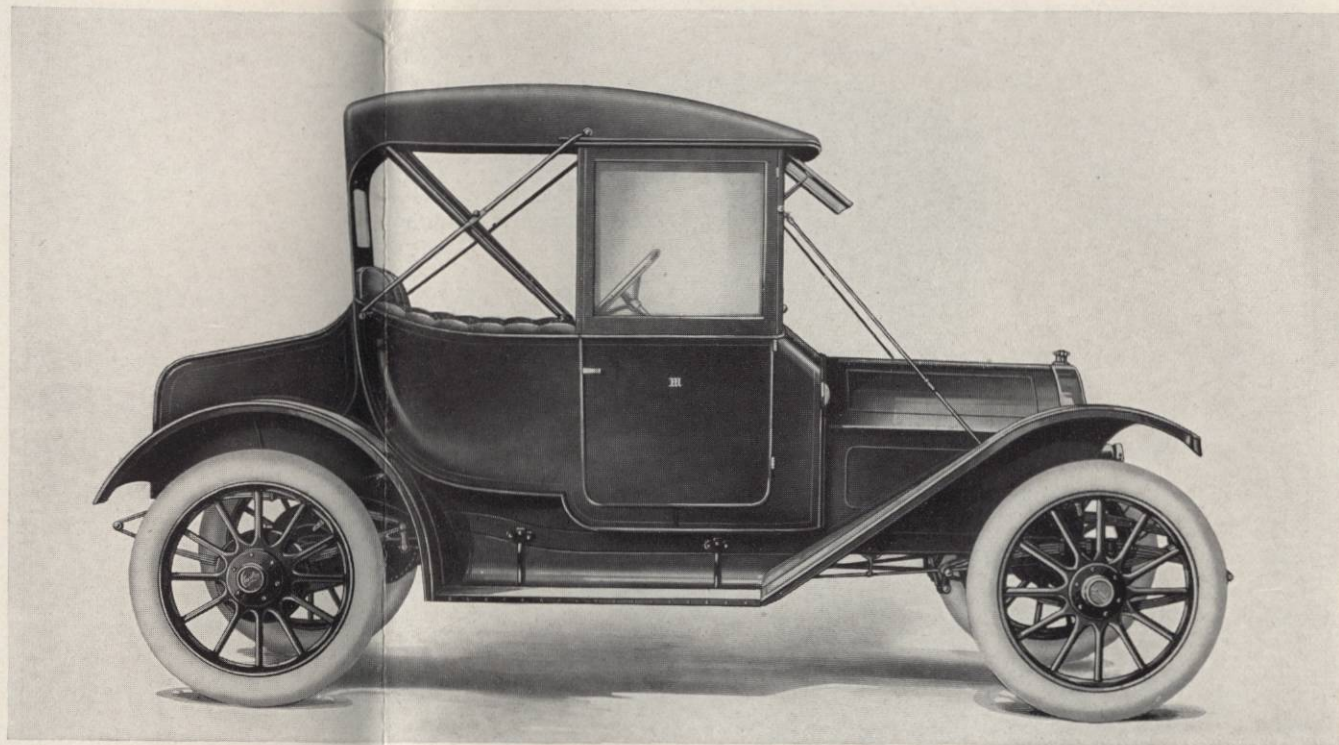
Its luxury of motion suits her love of sumptuous ease; its simplicity of handling and control are precisely fitted to her comfort; its readiness for instant use and freedom from all mechanical difficulties are best suited to milady's convenience.

When a neighborly impulse suggests a call on a friend; when a passing need compels an errand to the shops; when an engagement for bridge carries her across the town, or a challenge to golf sends her to the Country Club, the possession of a Silent Waverley Victoria is a part of woman's rightful equipage not to be gained. As every queen demands her private retinue, so every queenly woman must have her Silent Waverley. It is a part of her right of dower and her privilege of sex.

The Waverley Victoria body is the structural base on which the Silent Waverley Two-Passenger Coupe is built. Hence it is perfectly practicable to own a coupe for winter use and have the same carriage equipped with Victoria top for use in the summer months.

The Victoria is of itself, a very popular car of wide utility. It is a familiar sight on the streets of Washington, Memphis and Los Angeles at all seasons of the year.





SPECIFICATIONS ON PAGE 16

## SILENT WAVERLEY SHELTERED ROADSTER

MODEL 90 — PRICE \$2250

EMERSON said: "A great man must create the appetite by which he is to be appreciated." This is partly true of the man's electric. Silent Waverley Sheltered Roadster, when it was introduced less than a year ago, made its appeal to a man's world already saturated with gasoline.

It required a new use of the imagination to focus masculine attention on an electric roadster. Yet just this thing happened.

The design of the car was a daring innovation in the first place. Not one of those compromise attempts—half fish and half crab—with which the automobile world is familiar.

The Silent Waverley Sheltered Roadster is not an imitation of a gas car. It is an original model by one of the leaders in gas car designing to which the Silent Waverley mechanism was found to be admirably adapted.

Before the design was accepted the Waverley mechanism had been thoroughly tested. In the Four States Tour of Indiana made cars in 1911 a Waverley Roadster participated, breaking all electric records for mileage and endurance under road service conditions and taking its place among cars with a record of actual performance, an average of 113 miles a day for 12 days in all conditions of roads and weather.

With a smart design that appealed to every club man, a record of performance beyond the requirements of any business or professional man, and a cost of upkeep less than half that of the average gas car, Silent Waverley Sheltered Roadster quickly created the appetite by which it was to be appreciated.

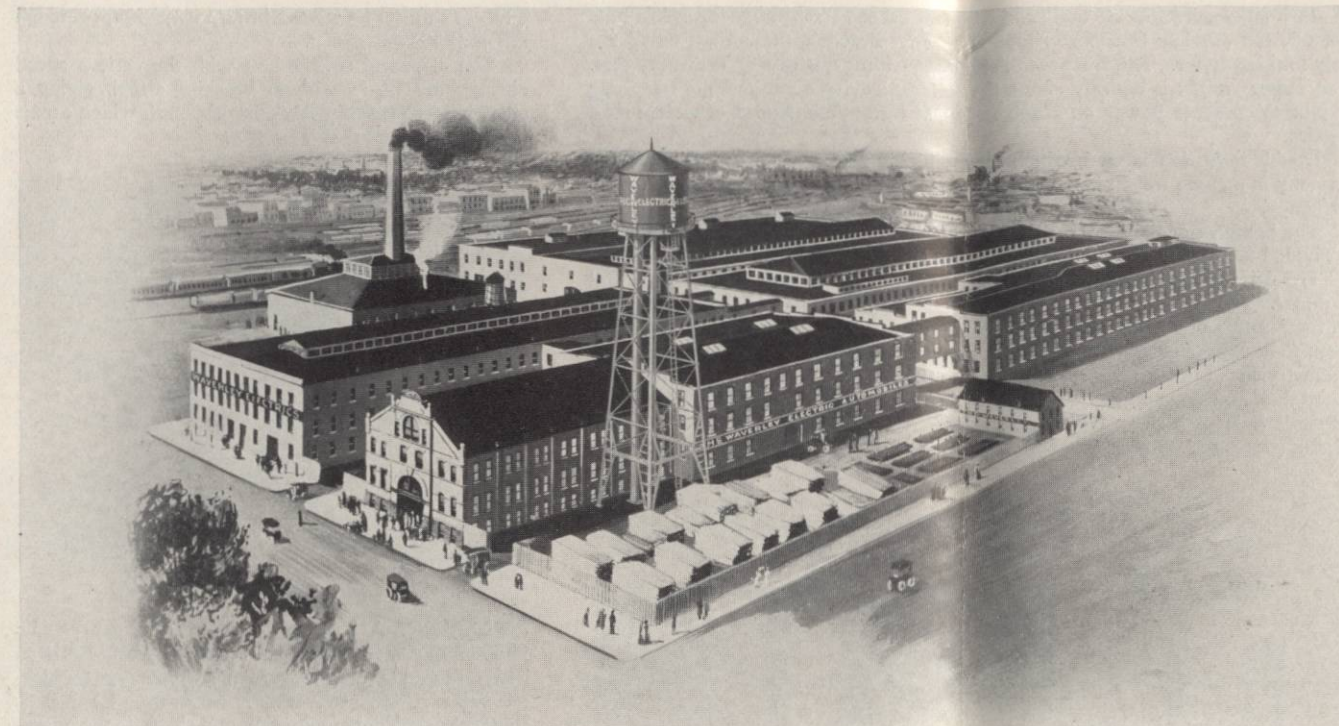
From the day it was first exhibited until now, orders for this model have always been in advance of factory production.

A feature of great importance in creating a demand for this man's electric is the folding landau top with glass wind shield and side panels, that make the car as comfortable as a brougham in wintry weather.

The wind shield folds down in front, the glass door panels may be lifted off (replaced with celluloid lighted curtains if desired), and the whole top is collapsible, as easily stowed as an ordinary buggy top is.

The car then becomes an ideal summer car for business or pleasure. All of the desirable features of the high-grade gasoline roadster are embodied in it, and to them are added the ease, comfort, cleanliness, simplicity and dependability of the Waverley mechanism. With left-hand wheel steer, a folding seat for a third passenger is provided at the driver's right.

Either cushion or pneumatic tires may be used with satisfaction. Speeds of 5 to 25 miles an hour are provided.



WAVERLEY FACTORY, INDIANAPOLIS

## MECHANICAL FEATURES OF THE SILENT WAVERLEY

THE FRAME is the backbone of the car. On all models but the roadster type the frame serves the two-fold purpose of being a weight supporting member and of being a substantial base for the body frame, thus combining weight economy with strength and durability both in frame and body. Like the Pullman coach, the Waverley frame is a trussed hard-wood beam, giving a cushion for the fastening of all fittings that insures against crystallization and breaking from vibration.

The shape of the frame on the broughams is fashioned to bring the sill entrance low to the ground and yet leave space between the frame and axle for ample spring action. This is accomplished by a graceful curve harmonizing with the lines of the body sweeping low at door entrance and swinging up over the axles, a patented Waverley feature.

THE FRONT AXLE is an important feature of the steering mechanism as well as a weight-carrying member, made of I-beam section, one piece drop-forged, with integral spring seats made of special steel heat treated.

The axle is very tough and substantial. The section is carefully proportioned to give ample strength in a horizontal direction as well as vertically, making it particularly suitable for the use of solid tires.

The steering knuckles are drop-forged of alloy steel, heat treated, and are extra heavy. The steering arm, which is connected to the steering mast, is located above the axle, a special protection against interference with steering.

The steering cross connections are located back of the axle for protection and appearance. The pivot pin axis is inclined to intersect the ground near center of tread. This gives semi-irreversibility to steering gear, protects the driver's arm from severe road shocks and increases the leverage, making easier steering as well.

All of the steering connections are made with ball and socket joints provided with springs to absorb shocks and to automatically take up the uneven wear that always takes place in parts which make only partial rotation in use. This feature also eliminates rattle. The ball connection is also universal in its action. Should the crank become slightly bent and out of line, due to accident, there will be no binding at the cross rod ends as in the yoke and pin type, with the consequent hard steering. A ball thrust bearing is placed at the top of the steering pivot. This thrust bearing has a conical seat, insuring all the balls taking their share of the load, giving long life and durability. As this particular bearing supports the entire weight of the front end of the car, the steering effort is reduced to a very considerable extent.

THE REAR AXLE is of the full-floating type made from 3½ per cent. nickel steel tubing of large diameter, heat treated. Truss rods are used to insure the alignment of the axle under load and thus prevent binding and undue loss of power in the power-transmitting parts within the housing.

The spindle at the inner end is the full size of the axle tubing. No offset or reduction in diameter is made at this point, thus eliminating concentration of strain at this most critical point.

The driving shaft is a torsional member only and does not get the bending and twisting that exist in the live and semi-floating types of axles. These driving shafts are made from special alloy steel and heat treated and are of large diameter. The driving shaft transmits the power to the rear hub through a clutch which is bolted to the hub at the outer end, making a connection which will be free from rattle or back lash. The other end floats in the differential.

The ends of the driving shafts are given slight universal freedom to prevent alternate stress and consequent fatigue and failure of the steel.

The differential and driving gears may be easily removed for inspection without removing wheels or axle from car. The differential is of the bevel gear four pinion type with the gear teeth generated, case hardened and oil treated. The casing is mounted on imported annular bearings.

THE DRIVING SYSTEM. The Waverley driving system on all our 1913 cars is a straight line shaft drive. It differs from all other types in that a motor shaft is parallel to the intermediate and driven shafts, thus eliminating the necessity of transmitting power around a corner. This is the only straight path of power transmission between the motor and the wheel.

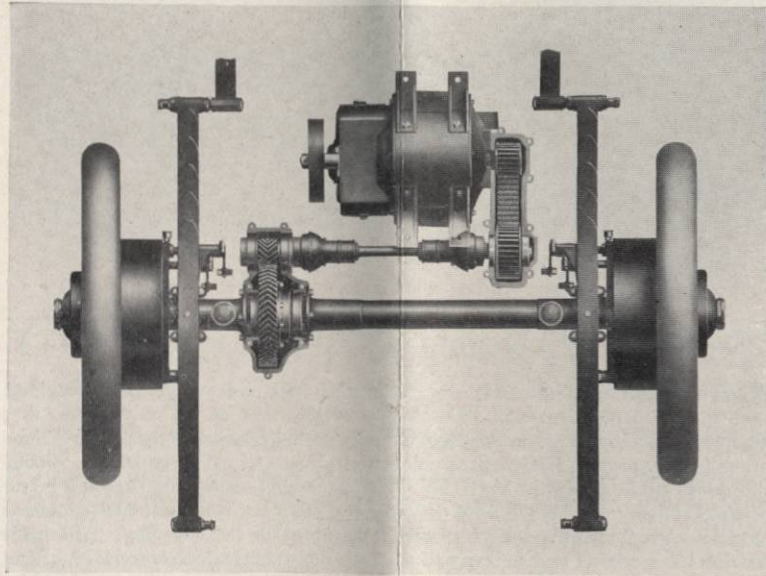


Two universal joints are used, and with the absence of any struts or radius rods the axle has absolute freedom of motion in any direction, the springs being the only limiting factor. This is the secret of the easy-riding qualities of Waverley cars. The motor weight is entirely above the springs, leaving a minimum of unsprung weight to consume power on rough streets, as well as elimination of violent road shocks.

Double reduction is used, which means higher motor efficiency and overload capacity in a given weight of motor frame than can be obtained with single or less reduction.

The housings enclosing the drives are smaller and neater and as the reduction is divided the axle housing is smaller, making less dead weight below the springs.

The first reduction is through a silent flexible gear enclosed in a casing at end of motor. The second reduction is through a herringbone gear in the axle. Tests on these forms of gearing both on Waverley cars and in other applications show them to be higher in efficiency than any other type. The absence of gear noise characteristic of this driving system is due to the use of a flexible gear on the high speed shaft and gears on the low speed shaft. There is no form of gearing that can be made quiet at high speeds, especially after the gears have become worn. The flexible gear is self-adjusting as to pitch and its quiet running is independent of wear.



HIGH-EFFICIENCY SHAFT DRIVE

**THE MOTOR.** The Waverley motor is of medium speed, light weight per unit of power developed, and is series wound; the armature rotates on large ball bearings; the frame is made of special high-efficiency iron; four poles are used, and the proportions of the iron and copper, together with large commutator surface and liberal and high grade carbon brushes insure Waverley motors from commutator troubles and rapid deterioration.

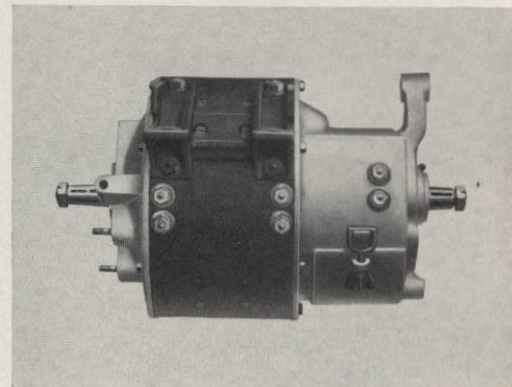
The speed on hills or on overload depends on the relation of the torque to the speed of the motor. The desirable torque characteristics of a high-speed motor can not be obtained in a low-speed motor. Also the heavier weight which necessarily must be used in a low-speed motor for the same amount of power is a decided disadvantage on any self-propelled vehicle. It would seem as logical to use a low-speed stationary gasoline engine in a gasoline car as to use a motor having the low speed of stationary motors for an electric car.

**THE CONTROLLER** is of the knife-blade type, but of larger capacity than previously. The contact is made on each side of the brass blade by heavy copper blocks riveted to phosphorus-bronze spring fingers. Any local heating coming on the heavy copper blocks can not burn or affect this spring finger, causing it to lose tension or fall away from the blade to cause arcing and destruction of the contact parts.

There is less drop or loss of voltage in this type than in any other. The controller is operated from a handle at the side of the seat, but above the steering bar. It does not take up any of the seat room and is in a comfortable and natural position for the operator's hand at all times. The reverse lever is conveniently at hand and is equipped with an interlocking feature and mechanical lock and cut-off. A Yale lock is provided for use on occasions requiring a private lock.

The car can not be started in any way except through the first or lowest speed.

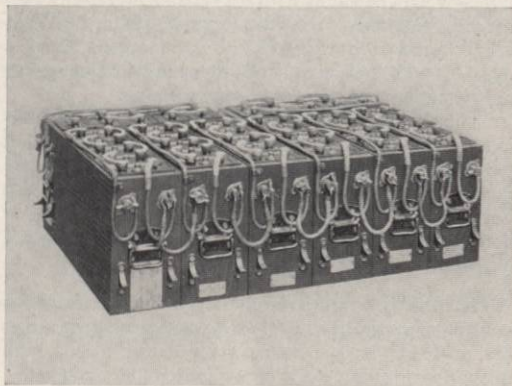
The electrical connections with the various speed changes are made without breaking circuit, giving a smooth acceleration, preventing the flash which occurs when a heavy current is broken.



WAVERLEY 80 VOLT MOTOR

**STEERING.** A lever steer whereby a car can be handled in city streets correctly and accurately has been demonstrated by practice to be the correct type for electric vehicles. The Waverley non-vibrating lever steer solves the problem of vibration and shock to the operator on rough streets and has efficient mechanism to eliminate friction.

The elimination of shock is accomplished by inclining the front axle pivot pin, or axis on which the front wheels turn, so as to intersect the ground nearly at the center of tire contact. Thus the impact has little or no turning moment or leverage on the steering levers. Ball and socket joints eliminate rattle and automatically take up wear and prevent binding from disalignment.



WAVERLEY 40 CELL BATTERY

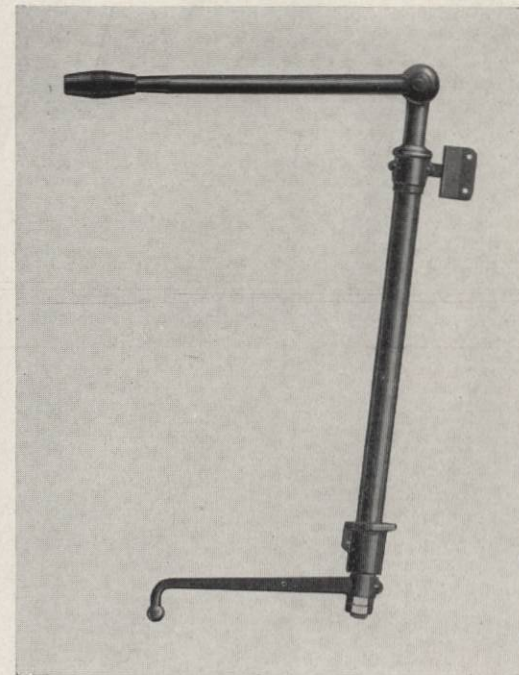
Ball thrust bearings at axle pivot carry the front axle load and substitute rolling for sliding at a heavily loaded point in the steering mechanism.

**WHEELS** are all built in the Waverley factory of heavy spokes of best hickory. The spoke flanges are large in diameter and deep-throated, giving an adequate support to the wheels for all side strains. With solid tires the wheels do not get the protection of the pneumatic tire and they must be built to take care of the added unabsorbed shock. It is not correct practice simply to put solid tires on a wheel built for pneumatics but the rim must be adjusted to its extra load.

**BEARINGS.** In the wheels, both front and rear, will be used taper roller adjustable bearings which will withstand the heavy shock without breaking and will take care of side thrust. The bearings are effectively protected from dirt at the outer end by dust caps which are locked against losing, and at the inner end by wide piano felt washers. As well as keeping dirt out, this device keeps the necessary lubrication within; making for long life of the wearing parts.

The gear shaft and motor bearings are all of the non-adjustable annular type. The construction in this application causes little or no end thrust on the bearings. They are also wholly enclosed in oil-tight housings which insures ample lubrication and freedom from dirt.

**SPRINGS AND SPRING SUSPENSION.** The fibre of the steel in the leaves elongates and shortens every time there is the slightest action of a vehicle spring.



WAVERLEY STEERING LEVER, POST AND ARM

Just as an elastic band will at some time break from constant stretching, so is there a limit to the number of times steel will stand this continual alternate strain on its fibres.

Waverley springs are made long and wide, giving flexibility, and to take care of this flexibility or unusual spring action, special alloy steel of great strength and toughness is used. This steel has been given actual tests of bending back and forth many hundred times what an ordinary carbon steel will give. These springs will give almost unlimited life and insure against sagging.

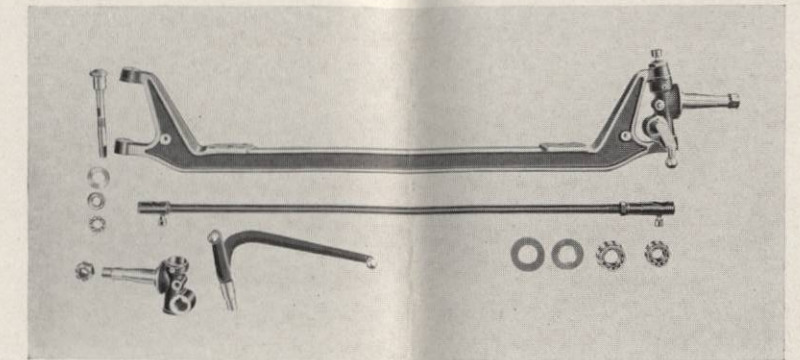
Reamed bronze bushings and accurately ground and case-hardened bolts are used in the eyes of the springs.

The spring length is the main feature as regards flexibility. The total spring length used on Waverley cars is a total something like 33 feet.

**WHEEL BASE AND WEIGHT DISTRIBUTION.** Long, low and easy riding. All of the 1913 cars will have a long wheel base to insure easy riding and eliminate the jar and constant rattle due to short wheel base and solid tires. The turning radius is kept small, due

to the wide turning angle clearance provided for the front wheels. The weight is distributed to prevent rocking as when loaded too heavily at one end. Also regard to weight on the front or steering wheels is given due consideration.

**BRAKES.** Dual brakes of extra large diameter and service are equipped on each rear wheel and a motor brake located on the armature shaft is operated from the controller handle. Brake drums are pressed steel and bolted to the hub flange.

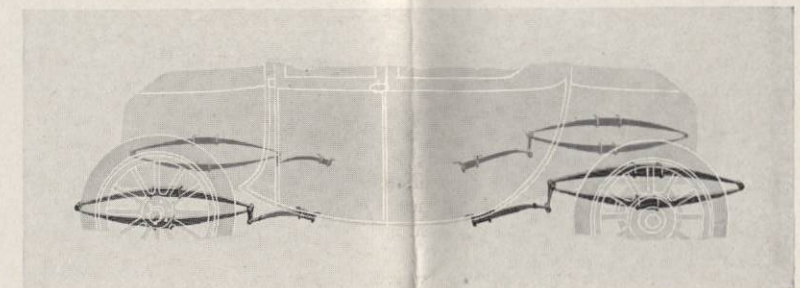


WAVERLEY FRONT AXLE. THE INCLINED PIVOT GIVES SEMI-IRREVERSIBLE STEERING

The thin uniform section of pressed steel drums insures minimum weight and uniform heat radiation. Also the metal is sufficiently flexible to conform to the shape of the expanding shoe, insuring full benefit from all of the braking surface.

The hub brakes are of the internal expanding type. The motor brake is of the band contracting type. The motor braking surface is 394 square inches. The motor brake, operating as it does, distributes the braking very equally to each rear wheel through the differential in the same manner that the power is transmitted equally to each rear wheel from the same device. Skidding is produced when one rear wheel tries to rotate the car around the other as a pivot. This condition is created when one brake holds more than the other one. The motor brake giving uniform resistance at each wheel gives the operator a brake which reduces skidding.

The wear and tear on the power-transmitting parts due to a motor brake is usually exaggerated, consideration not being given to the fact that this braking action comes on the back or unused side of the gear or other power-transmitting members.



WAVERLEY FULL ELLIPTIC SPRINGS WITH LONGITUDINAL TORSION-SUPPORTING SPRINGS

The hub brakes are provided with an equalizer to distribute the pressure equally to each rear wheel. The hub brakes are entirely enclosed with a flange, giving a neat appearance and protecting the brakes from dirt. The brake rods are large in diameter to prevent rattle and vibration, and unusual accessibility and ready adjustment are provided.

**LUBRICATION** is the food on which the working organs of a car get their nourishment. Without the nourishment they cannot survive for any length of time. It is the small parts of the car that always suffer most from lack of the attention to lubrication and often of means of lubrication.

Every Waverley car is provided with a means of lubricating every working part and in an accessible manner. The spring bolts are integral compression grease cups. The brake pedal shafts are lubricated by grease cups located in an accessible place with tubes leading to the inaccessible parts under the car.



The steering mast bearings, the steering connections, etc., are all prominently provided with compression grease cups. The driving mechanism is enclosed and runs in a constant bath of lubrication. Felt packing rings retain the lubricant in the axle case where it was intended to stay.

**ILLUMINATION.** The problem of illumination is not one of candle power developed, but more of candle power transmitted. The source of light must be in the focus of the lamp reflector and the reflector must be one which will gather the rays of light and throw them in the direction in which they are wanted.

The size of the lamp bulbs, the shape of the reflector, the position of the bulb in respect to the reflector, as well as the style of the lamp, are right when put on the Waverley cars.

**GENERAL.** All battery cells are accessible from the outside of the car upon raising the hoods. The tire equipment is liberal and there are flexible full-elliptic springs to absorb a large percentage of the impacts of the road and insure minimum tire cost.

Large size wire is used to eliminate loss of power through resistance. It is fully protected and secured. The refinements of the mechanical parts throughout the car are such as to give accurately fitting, well lubricated joints to eliminate rattle.

The battery housings or compartments are fully lined with acid-proof material to prevent the acid from getting on and destroying the paint of the running gear or other parts.

## BATTERY, TIRE AND MILEAGE RADIUS

**THE BATTERY** is a reservoir of power, the size of which governs its mileage-producing value. On all 1913 models a battery of liberal size has been assigned in each case, with due regard to the weight and speed of the vehicle.

Since it is very common to hear the size of a battery referred to by either the number of cells or the ampere-hour capacity, or size of cell, we wish to emphasize here, that the size of a battery as regards its mileage-producing value is in its watt-hour capacity.

The watt-hour capacity is a product of the number of cells multiplied by 2, multiplied by the ampere-hours in case of the lead battery, and number of cells multiplied by 1.2 multiplied by ampere-hours in the case of the Edison battery. No one component of the watt-hour capacity must be considered without due regard for the others.

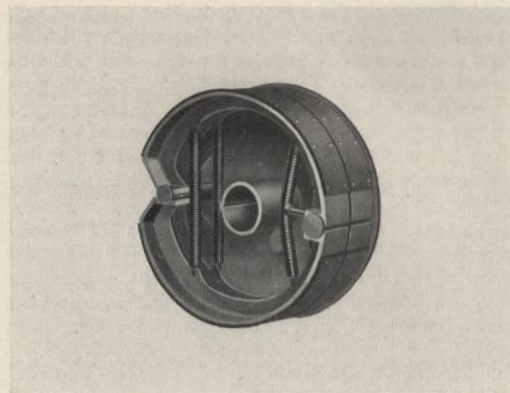
The 40 cell 11 plate battery used in all our new type cars were selected after careful consideration of the weight, speed, mechanical and electrical efficiency and tire equipment, and may be relied upon to give all the speed and mileage required by the most exacting service demanded of an electric pleasure car.

The mechanical and electrical efficiency of the Waverley Electric has been raised to the highest degree of refinement of workmanship and design. The weight has been reduced to a minimum by the use of alloy steels and by materials of the highest grade. The Waverley Electric will give, speed for speed, and tire for tire, under the same road conditions, a mileage radius that cannot be equaled by any other car.

In the case of the lead battery, 40 cells will be used on 1913 models and 60 cells in the case of the Edison battery. The high-voltage battery has the advantage of greatly increasing the electrical efficiency of the vehicle. It allows a greater motor efficiency, reduces the loss in charging from a rheostat, and reduces the loss in wiring and all current-carrying connections.

**THE TIRE EQUIPMENT** of the Silent Waverley Electric has also been chosen after exhaustive tests on the road and in the shop with all makes of tires and every type of tire construction. Both durability and efficiency being carefully considered in making these tests. There is a wide difference in mileage and durability with different tires, either solid or pneumatic. Some tires offer very little resistance to rolling, some of which are not very durable, others giving very satisfactory performance. There can be obtained as much as 55 per cent. more mileage per charge with a good durable electric tire, either solid or pneumatic, over a gas type of tire. This is quite an item as regards charging costs and battery maintenance, as well as miles per charge—and tire maintenance must not be alone considered.

**THE MILEAGE RADIUS** of an electric carriage is determined primarily by the tire and battery equipment and their proper relation to the weights to be moved. The Waverley Company has made it a rule to equip its cars with batteries that will furnish mileage sufficient for two days' average use. This makes it necessary in ordinary cases to recharge the battery only every other day. Regular discharge of the batteries and regular charging keeps the cells at their highest efficiency and adds appreciably to the battery's life and service.



WAVERLEY DUAL INTERNAL EXPANDING BRAKES

**THE BRAKE SHOES** are made in two independent halves, each free to shift and to apply automatically their full surface to the drum when the brake is operated. This is accomplished by the slotted hole at the hinge side. A spring returns the shoes to clear the drum.

## TERMS AND GUARANTY

**TERMS**—Cash deposit with order, balance C. O. D., or, if by freight, subject to sight draft with bill of lading attached F. O. B. at Indianapolis. Orders executed in rotation as received. Waverley Electric Carriages are warranted under the well-known guaranty adopted by the National Association of Automobile Manufacturers, as follows:

## STANDARD WARRANTY

**WE WARRANT** the motor vehicles manufactured by us for ninety days after the date of shipment, this warranty being limited to the furnishing at our factory of such parts of the motor vehicle as shall, under normal use and service, appear to us to have been defective in material or workmanship.

This warranty is limited to the shipment to the purchaser, without charge, except for transportation, of the part or parts intended to replace the part or parts claimed to have been defective, and which, upon their return to us at our factory for inspection, we shall have determined were defective, and provided the transportation charges for the parts so returned have been prepaid.

We make no warranty whatever in respect to tires, rims, batteries or meters.

The condition of this warranty is such that if the motor vehicle to which it applies is altered or repaired outside of our factory, our liability under this warranty shall cease.

The purchaser understands and agrees that no warranty of the motor vehicle is made, or authorized to be made, by the company, other than that herein above set forth.

## WAVERLEY COMMERCIAL ELECTRICS

The most dependable, economical and efficient of all power wagons. A commercial catalog will be sent upon request to those interested.