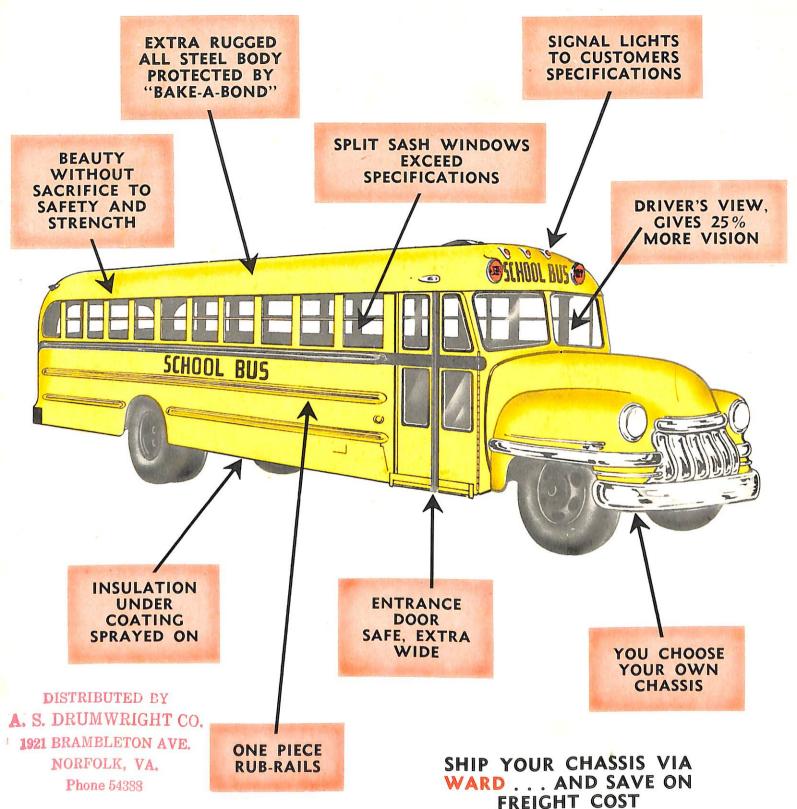
# HERE IS YOUR WARD SCHOOL BUS! COMPARE... THEN CHOOSE THE WARD



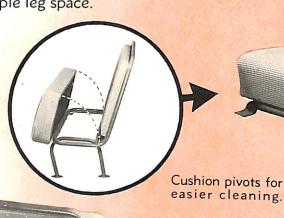
# COMFORT... COMFORT WITH **PRACTICABILITY**

### PASSENGER SEATS

KOROSEAL ~

COTTON FELT CUSHION

"Posture-contour" seats for more restful support. Double helically bound coil springs. Every spring stapled to one-half inch treated fir panel. Heavy "Latex-sisal" insulation with deep cotton cushion attached. Koroseal upholstery. Will not scuff. Ample leg space.



Seat backs are tapered for increased

aisle clearance.

### SEAT CONSTRUCTION

All seat frames are tubular steel, electrically welded together and securely bolted to the coach floor.



PLENTY OF AISLE ROOM - ADEQUATE "HIP" SPACE

## DRIVER'S SEAT

Comfortable. Integrated fore and aft adjustment. Seat level heightens when moved forward.





## BEAUTY . . . WITHOUT SACRIFICING SAFETY AND STRENGTH



DISTRIBUTED BY A. S. DRUMWRIGHT CO. 1921 BRAMBLETON AVE. NORFOLK, VA.

Wards' years of experience and re54388 search are incorporated into a body designed for the future. Signal lights built into the body for smoother lines. Luxurious finish of synthetic enamel. Applied and baked until dry in automatic oven for lasting beauty. Smartly styled for enjoyable travel. Delicate colors eliminate harsh shadows. Avoids usual monotony.

### CONSTRUCTION

- CONSTRUCTION

  1. The construction is of the all metal type using latest assembly methods. Main superstructure is all welded, while all panels are riveted to the main frame using standard aircraft procedure.

  2. All BODY POSTS and ROOF RIBS are formed out of a continuous 16 gauge, high tensil steel, hat section.

  3. All supporting cross floor members are of a roll formed 16 gauge steel hat section.

  4. Distance between main side post members is 27" on center.

- Distance between main side post members is 27" on center.

  Distance between all roof ribs is 27" on center.

  Distance between supporting cross floor members is 8" to 10" on centers. This leaves maximum supporting distance under the floor to be no greater than 7".

  Gauges of framework covering material:

  a. Outside wall panels 20 gauge steel, cold rolled b. Roof panels 22 gauge steel, cold rolled c. Inside wall panels 22 gauge steel, cold rolled d. Inside wall panels 22 gauge steel, cold rolled d. Inside wall panels 14 gauge steel, to 16 gauge steel, cold rolled f. Skirt panels 16 gauge steel, cold rolled f. Skirt panels 16 gauge steel, cold rolled f. Skirt panels 16 gauge steel, and seel floor seed for all is placed at floor level and one 13" above floor at seat level. They are applied on the left side of the bus from the windshield post to the rear corner radius and on the right side from the service door to the rear corner radius. The rails are riveted to the
- 9. Front cowl is die formed from 14 gauge cold rolled steel. All windshield corners are rounded to produce water-tight glazing of the windshield.

  Insulating material—"Sprayed-On" sound deadening compound. (Spun glass or fire-proofed cotton will be furnished at extra cost.)

  11. Floor covering material—Pabco or Armstrong Automat.
- 12. Rear bumper, constructed of 3/16" steel plate, is shielded to prevent hitching rides.

## ENTRANCE DOOR

- ENTRANCE DOOR

  13. Type of entrance door—Double manually operated with 68" head clearance.

  14. Door is designed to prevent accidental opening when a leaned against.

  15. At least two-thirds of door opening width is ahead of the point opposite the back of the driver's seat.

  16. Leaves of door open—FRONT OUT—REAR IN.

  17. Door has rubber closing safety edge.

  18. Door dimensions—Height, 68"; Width, 33".

  19. Steps completely enclosed having two treads and two risers. Each riser being 7½".

  20. Both treads are formed of Inland Four-Way Safety Plate with a step-well light provided.

  21. Stanchions and grab rails provided on both sides of entrance door with extra stanchion and safety bar aff of driver's seat.

### EMERGENCY DOOR

- Emergency door located at center and extreme rear of the body.
- Door Dimensions—Height of Clearance, 50"; Width of Clearance, 32".

  Emergency door operating device is a Ward Flushed Type Locking Handle on the outside with a pivoted extra long safety handle for inside operation.

- 25. Safety cover on inside locking handle is standard

- Safety cover on inside locking equipment.
   Outside handle is of the Anti-ride hitching type.
   Door is hinged at the right side of the body using forged steel hinges.
   Door opens outside and can be opened from the inside or outside of bus.
   No steps are provided leading to the emergency door.
   The rear emergency door is marked inside immediately over the top of the door with the words "EMERGENCY DOOR," in 11/2" letters.

- 31. Inside rear-view mirror—Non-glare 4"x16" with rubber protective edge.
  32. Outside rear-view mirror—Non-glare 4"x16" metal
- bound.
  33. Tool compartment under right front seat.
  34. Front intake ventilators, if installed, will be placed ahead of center of body.
  35. Static exhaust ventilator placed ahead of center of body.
- 36. Dual vacuum type heavy duty windshield wipers.
  36. Dual vacuum type heavy duty windshield wipers.
  (Can be manually operated.) (Electric wipers can be had at extra cost.)
  37. Driver's glare shield 61/2"x163/4" is provided.

- LICHTING

  38. Clearance lights: Number 4 ON SIDES. Location: 2 AMBER FRONT AND 2 RED REAR.

  39. Combination Stop and Tail Light: one (1) furnished as standard equipment. Second lamp may be had at additional cost.

  40. Stop lights in rear of bus: two (2) 6" diameter.

  41. Number of interior lights—12' 6" to 23' 9" buses: 2 EACH SIDE OF BUS.

  42. Number of red reflectors on rear of bus: two (2) 3" diameter.

### MISCELLANEOUS

- MISCELLANEOUS

  43. Minimum height—70" with the ceiling free of all projections. Decorated in light colors for best light reflections.

  44. Minimum width of aisle is 12".

  45. The bus will be painted a uniform color—National School Bus Chrome (Yellow). School Bus Chrome (Yellow). School Bus Chrome (Yellow).

  46. The words "School Bus" with letters at least 6" high to painted on the front and rear of the body, or will be painted on the front and rear of the body, or will be painted on the body and fenders, the color will be black.

  47. If trim is used on the body and fenders, the color will be black.

  48. The frame and windshield posts will support the loaded body if overturned. In the body is mounted so as to eliminate stresses on all rivet heads on the chassis frame. In the properties of the body frame. Tail pipe extended most member of the body frame. Tail pipe extended most member of the body frame. Tail pipe extended most member of body and deflected downward. Ye past end of all Ward Bodies is guaranteed and is The mounting of all Ward Bodies is guaranteed and designed for re-tightening the mounting locks and brackets at any time. Brackets at any time.

  51. The mounting of all Ward Bodies is guaranteed and is provided between the tire and all one brackets at any time. Brackets at any time.

  52. Ample space is provided between the tire and all one springs are fully against the bump blocks on when springs are fully against to change without notice. NOTE: All Specifications are subject to change without notice.

53. The installation of frame extensions are guaranteed. Weight distribution will be such that not more than 18% of the gross vehicle weight will be on the rear tires on a level surface.

### SEATING

- 55. Standard seats are of equal length being 39" from end to end by 15" from front to back. Seats are fastened securely to the floor and body seat rail by the use of floor flanges and brackets.
  56. No seat on the right side will be ahead of the forward-most pupil seat on the left side.
  57. The knee space, back rest to back rest, with seats on 27" centers will be 25".
  58. The height floor to ton of seat curbines will be 37".

- 7. The knee space, back rest to back rest, with seats on 27" centers will be 25".

  8. The height, floor to top of seat cushions, will be 17".

  9. Head of seat cushion is 6½" while the back rest above the cushion is 19".

  10. Seat cushion construction: Seat springs are composed of 24 individual 3½", 11 gauge spring steel coils. All coils are bound together at the top with two (2) ply, 19 gauge continuous helical lace wires. The lace wires are anchored to an 8 gauge border wire. The springs are stapled to a ½" treated fir plywood base. The tensil strength of all wire is 200,000 to 220,000 pounds per square inch. The springs are covered with tough latex impregnated sisal pad with heavy cotton felt cushion attached. Entire assembly is then covered with 27 ounce Koroseal or equal. 42 ounce, 50 ounce and 52 ounce material available at extra cost. Back Rest Cushion: Heavy wood frame with 24 gauge steel back panel. Padding is rubberized hair covered with 27 ounce Koroseal or equal.

  Driver's seat manufactured with highest quality spring with plywood base covered with 27 ounce Koroseal or equal.

  Driver's seat manufactured with highest quality spring with plywood base covered with 27 ounce koroseal or equal. Springs are used in both back and seat cushions for greater driving comfort. Seat is a combination two-way adjustable with finger control method on left side. Heavier upholstery or genuine leather available at extra cost.

  WINDOWS

### WINDOWS

- All standard school bus equipment has split type two piece sash, having a 9" vertical clearance and 23½" horizontal clearance.
- horizontal clearance.

  64. Glass for all standard openings and fixed windows is Safety Sheet manufactured by Pittsburgh Plate Glass Company, Shatterproof Glass Company or equal.

  65. Windshields are 72" across from corner post with an 18" clear height.

  66. Windshield glass is of safety plate as manufactured by above named suppliers.

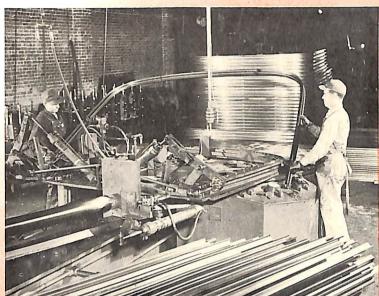
  67. Full drop or one piece windows available as optional equipment.

- 68. Horizontal Sliding Sash as used in Inter City buses can be had at extra cost.

## WIRING

- WIRING
  All wiring of standard buses arranged in at least five circuits. (1) Ignition; (2) starting; (3) head lamp and tail lights; (4) Dome and Step Lights; (5) Clearance and Marker Lights.
  All circuits except starter and ignition are separately fused or equipped with circuit breakers.
  All body circuits are completed with 16 gauge copper wire heavily insulated and protected from external damage with fibrous loom or metal conduit.
  All joints are soldered or joined by mechanical connectors and properly insulated with high voltage tape or friction tape or a combination of both.

# ENDURANCE... THE STRONGEST



Wards' advanced welding techniques welds modern alloy steel into one-piece structure. No joints to loosen. Advanced "Bake-A-Bond" process assures protection against rust and corrosion. All parts are phosphorized and baked in the "Bake-A-Bond" process. . . NO UNPROTECT-ED OVERLAPS!

continuous Bows of modern alloy steel. Cold formed on contour bender for added strength. One piece construction assures endurance. Eliminates weak joints.

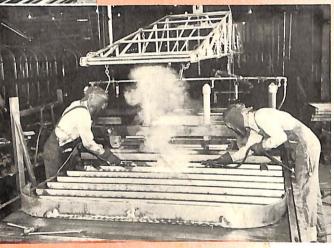


### WINDOWS

Popular split sash windows. Safety glass throughout. Featuring increased glass area and emergency opening. The lower section of the Ward sash is mounted so that it is stationary. The upper section only is movable.

### RUB RAILS

One piece. Cold formed. Modern extra strong alloy steel. Ribbed for added strength and beauty.



**EVERY BASE** is inverted to weld the floor to the ribs. Welded under pressure to assure complete bond at every point. No buckling or warping. Smooth floor of greatest strength.



Runs full length of body. Combines inside lower lining and outside skirt. Gives greater strength and seals out dust, dirt, exhaust fumes and moisture.