St. Louis Car Company Records, Series 02. "PCC 1941"

MOTOR LEAD TERMINAL
RUBBER HOUSED

TRANSIT RESEARCH CORP.
292 MADISON AVE. NEW YORK, N.Y.

DRAWING NUMBER 9-1-41

USE DIMENSIONS ONLY

16 PER CAR

4" TAPER IN DIA. PER FOOT OF LENGTH
St. Louis Car Company Records, Series 02. "PCC 1941"

REVERSER LEVER HANDLE
FOR SINGLE END OPERATION

TRANSIT RESEARCH CORP
292 MADISON AVE., NEW YORK, N.Y.

APP'D. DRAWING NUMBER
11-1-41

USE DIMENSIONS ONLY
Chromium plate 180 grain satin finish

Weld & grind smooth

Threads to suit ball

Hard rubber gear shift ball

1 per car
Material 1/8 dia. O.H.S

Reverser lever handle
For back up control

Transit Research Corp.
292 Madison Ave., New York, N.Y.

App'd. Drawing number 11A-1-41

Use dimensions only
3/16" HOLE MAY BE ADDED FOR PLATING RACK

BRASS TUBE B.G. 18

RUBBER CURED TO BRASS TUBE

RUBBER CURED TO BRASS SHEET

ROLLED BRASS SHEET B.G. 18

SECTION AA

3/16" HOLE MAY BE ADDED HERE AND ON OPPOSITE SIDE FOR PLATING RACK

ROLLED BRASS SHEET 18 B.C.

PRESS FIT INTO RECEPTACLE 3" I.D.

1/8" GAP IN METALS

A

SPRING FOR TROLLEY BOARD

TRANSIT RESEARCH CORP.

B
292 MADISON AVE. NEW YORK, N.Y.

APPD. DRAWING NUMBER

USE DIMENSIONS ONLY 12-7-40
RUBBER CURED TO METAL
45° ± 3° DUROMETER

S.A.E. 1020 HOT ROLLED STEEL

1/64 R.

1/8"

0.500"

1.500"

1.400"

3/4"

SHOWN UNDER 800 LB. TOTAL COMPRESSION ± 200 LBS.

RUBBER SANDWICH FOR TORQUE ARM

TRANSIT RESEARCH CORP.,
292 MADISON AVE., NEW YORK, N.Y.

APPROVED:

USE DIMENSIONS ONLY

20-9-37
RUBBER SUPPORT FOR BRAKE CROSS TUBE

TRANSIT RESEARCH CORP.

292 MADISON AVE. NEW YORK, N.Y.

APPD.        DRAWING NUMBER

USE DIMENSIONS ONLY  28-7-40
RUBBER STOP FOR TRACK BRAKE SPREADER

TRANSPORT RESEARCH CORP.,
222 MADISON AVE., NEW YORK, N.Y.
APPROVED.
USE DIMENSIONS ONLY
DRAWING NUMBER 29-9-37

1020 S.A.E. STEEL

50° ± 3° DUROMETER RUBBER CURED TO METAL RESISTANT TO ABRASION

1/2" 20 THDS.

SQUARE THROUGH METAL

2 1/2" 1 3/32"

1 9/32"
St. Louis Car Company Records, Series 02. "PCC 1941"

FUSE CABINET
- FRONT OF CAR
- FIXED HEADLIGHT RESISTANCE 6 W 32 V LAMP
- 30A 32V FUSES
  - 1 OA 600V
  - 2 OA 600V
  - 3 OA 600V
  - 4 OA 600V
  - 5 OA 600V
  - 6 OA 600V
  - 7 OA 600V
  - 8 OA 600V
- WESTINGHOUSE REGULATOR 25V
- 1 T TB
- 2 M.G. ALARM
- 3 AT CENTER SECTION OF CAR
- 4 MOTOR SHUNT TERMINALS
- ALL 32V FUSES ARE 250V NOMINAL

GANG SWITCH POSITION
- LEFT TO RIGHT

* TYPE NO. PURPOSE
SR 1 GONG
T 2 NO. 1 DOOR
T 3 NO. 2 DOOR
SR 4 EXIT DOOR TREADLE SET
T 5 EXIT DOOR CONTROL CIRCUIT
T 6 NO. 3 DOOR (DIRECT)
SR 7 FARE REGISTER DEVICE
T 8 AUXILIARY HEATERS
T 9 G.S. SET AND POWER CONTROL
SR 10 TRACK SWITCH THROWING CONTACTOR
T 11 HEADLIGHT (HIGH-LOW)
T 12 HEADLIGHT AND MARKER LIGHTS
SR 13 SANDER VALVE
SPECIAL 14 CAB HEATER FAN MOTOR
T 15 CAB HEATER
T 16 SPARE
T 17 CAR LIGHTS-LEFT SIDE
T 18 CAR LIGHTS-RIGHT SIDE
SR 19 SPRING RETURN, T = TOGGLE, DT = DOUBLE THROW.

CABLE SIZE
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FOR DETAIL SPECIFICATION SEE SCHEDULE E-1

DOOR CONTROL CIRCUITS INCLUDING PROVISION FOR:
- TREADELS
- SENSITIVE EDGES WITH FULL REVERSE FEATURE.
- POWER INTERLOCKS WITH CENTER DOORS,
- NO BRAKE INTERLOCK,
- DIRECT CONTROL OF NO. 3 CENTER DOOR,
- OUTSIDE DOOR CONTROL SWITCH NO. 1 FRONT DOOR.
TREAD BRAKE MOUNTING FOR MODEL B-2 TRUCK

292 MADISON AVE, NEW YORK, N. Y.
TRANSIT RESEARCH CORP.

DRAWING NUMBER
35-1-41
ALL-RUBBER SPRING

TRANSIT RESEARCH CORP.
292 MADISON AVE., NEW YORK, N.Y.

APP'D DRAWING NUMBER

USE DIMENSIONS ONLY 40-1-41
MALLEABLE IRON
REQ. 8 PER CAR

UMBRELLA FOR
ALL-RUBBER PCC SPRING
TYPE 2A

TRANSIT RESEARCH CORP.
292 MADISON AVE., NEW YORK, N. Y.

APP'D.

DRAWING NUMBER
42-1-41

USE DIMENSIONS ONLY
STEEL PLATE
8 REQ. PER CAR

911\frac{11}{16}\ D
5\ D

CHAMFER 3\frac{3}{16} X 45\degree

BOTTOM PLATE
FOR STEEL SPRING TYPE 2 A

TRANSIT RESEARCH CORP.
292 MADISON AVE. NEW YORK, N.Y.

APPD. DRAWING NUMBER
USE DIMENSIONS ONLY
43-1-41
STEEL PLATE
8 REQ. PER CAR

BASE PLATE
FOR COIL SPRING TYPE 2A

TRANSIT RESEARCH CORP.
292 MADISON AVE., NEW YORK, N.Y.

APP'D.

USE DIMENSIONS ONLY 44-1-41
RUBBER CUP
FOR COIL SPRING TYPE 2A

TRANsit RESEARCH CORP.
292 MADISON AVE., NEW YORK, N.Y.
APP'D. DRAWING NUMBER
USE DIMENSIONS ONLY

45-1-41
MALLEABLE IRON.
REQ. 8 PER CAR.

TOP PLATE
FOR COIL SPRING TYPE 2A

TRANIT RESEARCH CORP.
292 MADISON AVE., NEW YORK, N.Y.

APP'D
DRAWING NUMBER
46-1-41

USE DIMENSIONS ONLY
BUSHING WALLS TO FIT TIGHTLY IN ASSEMBLY

CASTOR OIL IMPREGNATED RUBBER 70±3° DUROMETER
St. Louis Car Company Records, Series 02. "PCC 1941"

SECTION B-B

SECTION C-C

SECTION D-D

2 SCALOPS FOR BONDS
SPACED 180° APART

6 CLEARANCE SLOTS SPACED
60° APART ± 0.015" ON CHORD

12 FLANGED HOLES SPACED
30° APART ± 0.0015" ON CHORD

6 HOLES SPACED 60° APART
± 0.015" ON CHORD

15/16" R.

MATERIAL - RUBBER 40° DUROMETER

A

SUPER RESILIENT WHEEL
SANDWICH
FOR WHEELS 2, 2A, 3 & 3A

B

TRANSIT RESEARCH CORP.
292 MADISON AVE.
NEW YORK, N.Y.

DRAWING NUMBER
50-1-41

USE DIMENSIONS ONLY
HEAT TREAT TO PRODUCE 90,000 LBS. ELASTIC LIMIT
CARBON MANGANESE STEEL - S.A.E. T 1340

COMPLETE WITH HEX. NUT AND WASHER.

SPOAKER BOLT 6 REQUIRED PER WHEEL

THIS END ONLY

HEAT TREAT NUT TO EQUAL
CLASS 3 FIT
1 1/8 SAE. THDS. PER INCH.
SEMIFINISHED WASHER.FACED
1 1/8 SAE. REGULAR HEX. NUT

STRENGTH OF BOLT

WASHER THICKNESS .062
INTERNAL TOOTH TYPE 12
SPOAKER LOCK WASHER

UNDERCUT
1/8 D. SEMI-CIRCULAR
12 SAE. THDS. PER INCH
St. Louis Car Company Records, Series 02. "PCC 1941"
SUPER RESILIENT WHEEL

P.C. TYPE 2-A

NACO SUPER RESILIENT WHEEL
MATERIAL: CAST STEEL

EXPOSED SURFACES TO BE CHROMIUM PLATED AND POLISHED.
St. Louis Car Company Records, Series 02. "PCC 1941"

**TUBE SIZE** | U.S.F. | THD. | LONG | SHORT |
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**NOTE:** SYMBOLS AND DIMENSIONS SHOWN CORRESPOND TO S.A.E. STANDARDS FOR FUEL AND OIL FITTINGS. THREAD DIMENSIONS FOR THE NUT ARE S.A.E. STANDARD FOR NUTS CLASS 2 FIT.

**SIZE** | T | U | S | Q |
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**COMPRESSION FITTINGS FOR GOLPER TUBING**

TRANSIT RESEARCH CORP.
232 MADISON AVE. NEW YORK, N.Y.

APPD. DRAWING NUMBER

USE DIMENSIONS ONLY

62-1-41
PARTS REQUIRED PER SUPPORT:
1. BOLT 3/8" DIA. 6 3/8" LONG. 3/8" THRD. AND NUT.
2. SPACER TUBE 1 3/4" O.D. 5/8" WALL 1 3/8" LONG APPROX.
3. WASHER 3/8" O.D. 1/4" I.D. 1/8" THICK. STAMPED 1/4" DEEP AS SHOWN AND WELDED TO TUBE 2
4. FIBER WASHER 1 1/2" O.D. 1/2" I.D. 1/8" THICK
5. FILLER RING 1 1/2" HIGHPressed IN HOLE.
6. WASHER 1 1/2" O.D. 1/2" I.D. 1/8" THICK
7. SHAKEPROOF LOK WASHER 3/8" DIA.
8. WASHER 2 3/8" O.D. 1 3/8" I.D. 1/16" THICK. STAMPED 1/16" DEEP AS SHOWN.
9. STAMPED WASHER 2 3/8" O.D. 1 3/8" I.D. 1/16" THICK WELDED TO FRAME OF M.G. SET.
10. UPPER SPRING.
11. LOWER SPRING.

NOTE FOR INSTALLATION.

THE FLEXIBILITY OF THE SPRINGS IS REQUIRED TO PREVENT TRANSMISSION OF OSCILLATIONS AT MOTOR AND COMPRESSOR FREQUENCY TO THE CAR BODY. SUCH FLEXIBILITY HOWEVER PERMITS EXAGGERATED MOTION OF M.G. SET UNDER ACTION OF STARTING TORQUE IF FREEDOM OF SPRINGS IS NOT LIMITED.

IN ORDER TO LIMIT MOTION AT START TO DESIRED VALUE TIE UP SPRING 11 BY SHORTENING LENGTH OF SPACER TUBE 2, UNTIL IT IS SUFFICIENTLY CLOSE TO SOLID CONDITION.
GLASS FRAME POLISHED SATIN FINISH, OTHER PARTS PAINT.
RIGHT AND LEFT REQUIRED, LEFT SIDE SHOWN FROM OUTSIDE.