Motor Car

TMC-6

0·3002091·0·00

Parts Manual

Tamper

Motor Car
TMC-6

Parts Manual
0-3002091-0-00

Serial No._____

USA —
Canron Railgroup
2401 Edmund Road
West Columbia
South Carolina 29169

CANADA
Railway Division
171 Eastern Avenue
Toronto,
Ontario

AUSTRALIA
Tamper (Aust.) PTY. LTD
P. O. Box 150
Melbourne
Victoria

Tamper

Div. Canron Corp.
2401 Edmund Road
West Columbia
South Carolina 29169
Tel. (803) 794-9160
Telex 573423

COPYRIGHT 1980
Reprints or unauthorized use of this material prohibited
without the written consent of TAMPER
Patents pending throughout the world.

HOW TO USE THE MANUAL

Check the Table of Contents for the section and description of items pertaining to your machine.

- how to find a part -

Example: Cable, (Solenoid to Starter) needs to be replaced.

To find this part number, it's description, section number and where it's located in the manual; turn to the Table of Contents and find the Engine and Transmission Assembly, Section B-78, drawing number 0-2100831-0.

Now turn to Section B-78 in your manual. On the drawing you will see an illustration of the Engine.

There is a circled number pointing to item #36. On the parts list the part number is 0-3180007-0-01 Cable (Solenoid to Starter).

The information contained herein is based on data available at the time of printing.

NOTE: Disregard items shown on drawings but not called up on the parts list.

REPAIR PARTS

ORDER INSTRUCTIONS

Please follow these simple steps to insure expeditious identification and shipment of replacement parts:

1. Find required part on drawing and accompanying material list.
2. Give Tamper serial number of your Motor Car (TMC-6), you will find this on the first page of this manual or on the Control Panel.
3. Give section number of required part.
4. Give part number of required part.
5. Give description of part and quantity required.

Example:

Serial Number	Section	Part Number	Description	No. Required
1074407	B-78	0-3180007-0-01	Cable, Solenoid to Starter	1

6. State definitely whether parts are to be shipped via express, freight, or parcel post.

Parts Returned for Credit:

Before returning any parts, write a letter to the company giving an exact list and description of the material, why you wish to return same, whether for repair, credit or replacement, and also the model and serial number of the machine from which the parts were taken. If authority is granted for their return, transportation charges must be prepaid, unless otherwise authorized.

Released March 1980

LIGHT SECTION MOTOR CAR

TMC-6

TABLE OF CONTENTS

Cab Components		
A-120	0-2010546-0-02	Main Frame and Suspension Assy.
A-121	0-2201345-0-01	Instrument Panel Assembly
A-125	0-2100962-0-02	Bumper Assembly
A-126	0-2100974-0-01	Control Installation
Power Plant		
B-78	0-2100831-0-02	Engine and Transmission Assy.
B-79	0-2201344-0-01	Fuel Tank Assembly
B-80	0-2302899-0-01	Fuel Line Assembly
Drive Train		
C-132	0-2201341-0-03,04	Axle Assembly
C-134	0-2201544-0-01	Rail Sweep Mount Assembly
C-135	0-2201346-0-01	Rail Sweep Assembly
C-136	0-2100973-0-01	Engine and Drive Assembly
C-137	0-2010734-0-01	Brake Assembly
Electrical		
L-396	0-2100975-0-01	General Electrical
L-397	0-1201576-0-01	TMC-6 Schematic

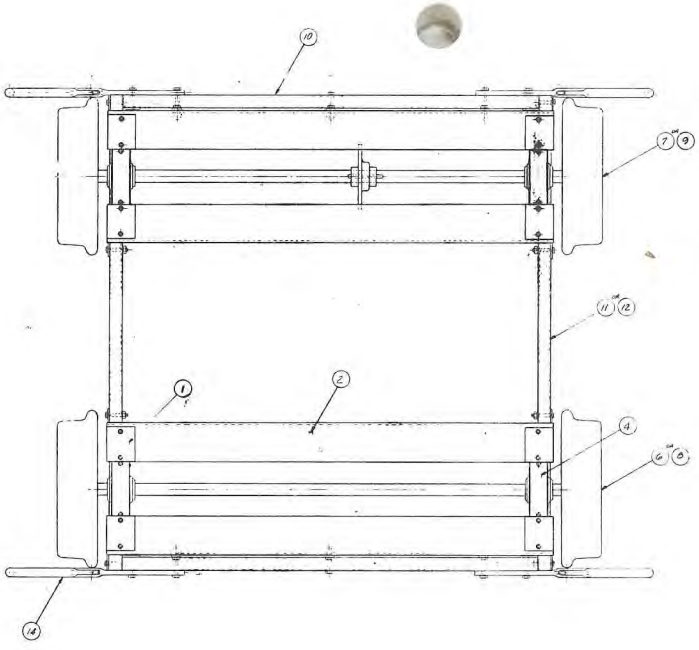
TMC-6 MAIN FRAME AND SUSPENSION ASSEMBLY

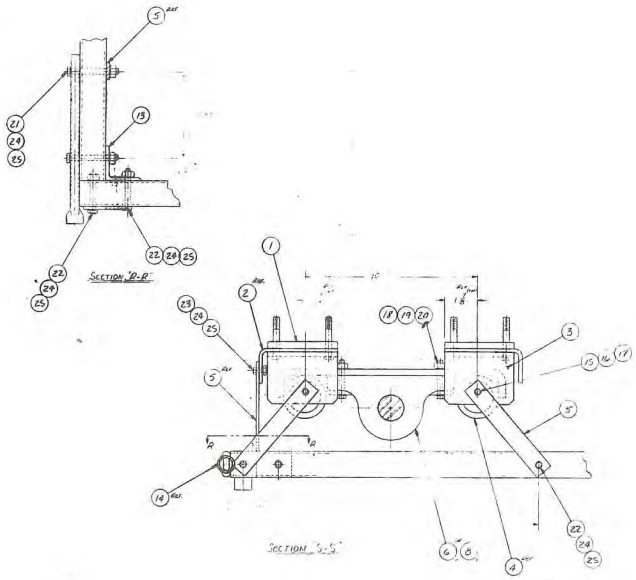
SECTION A-120

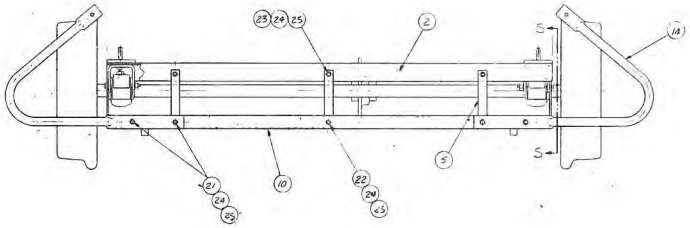
DRAWING NUMBER 0-2010546-0-02

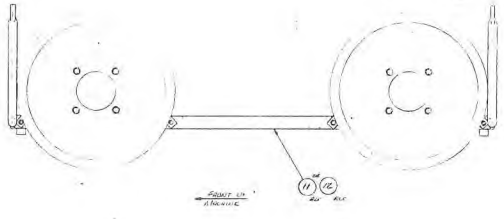
ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	8	0-1405494-0-01	Cushion Pad
2	4	0-1302284-0-02	Cross Member
3	8	0-2405475-0-01	Clevis Weldment
4	4	0-2302679-0-01	Suspension Assembly
5	14	0-1404341-0-02	Brace
8	1	0-2201341-0-03	Axle Assembly (Front)(See Section C-132)
9	1	0-2201341-0-04	Axle Assembly (Rear)(See Section C-132)
10	2	0-2302291-0-01	Derail Guard (Short)
12	2	0-1302442-0-01	Derail Guard (Long)
13	4	0-1404340-0-01	Angle Plate
14	4	0-2201446-0-01	Skid Rail
15	8		Hex Head Capscrew 7/16 - 14 X 4 Long
16	8		Flatwasher 7/16
17	8	L411324	Esna Nut 7/16 - 14
18	8		Hex Head Capscrew 1/2 - 13 X 2 1/2 Long
19	8		Flatwasher 1/2
20	8	L40767	Esna Nut 1/2 - 13
21	8		Hex Head Capscrew 3/8 - 16 X 2 3/4 Long
22	14		Hex Head Capscrew 3/8 - 16 X 2 1/2 Long
23	6		Hex Head Capscrew 3/8 - 16 X 1 Long
24	28		SAE Washer 3/8
25	28	L40387	Esna Nut 3/8 - 16

For Complete TMC-6 Main Frame and Suspension Assembly, Order 0-2010546-0-02









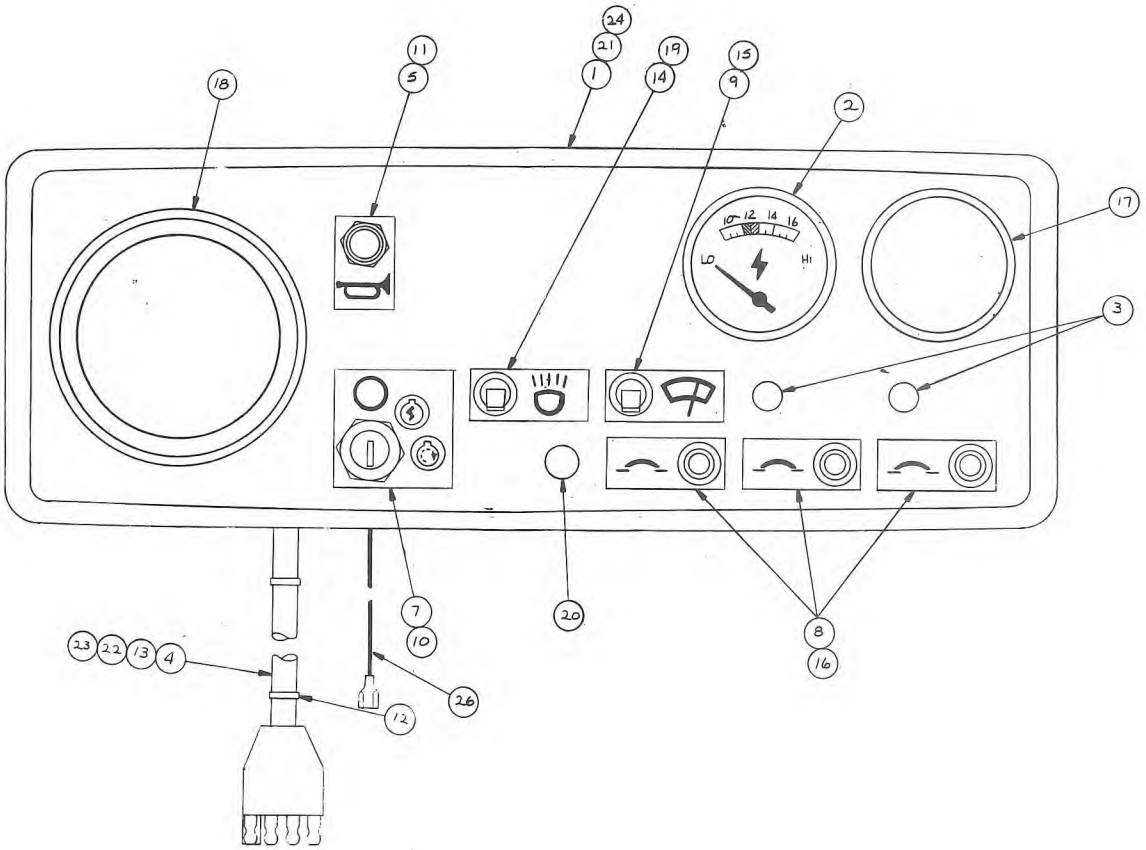
INSTRUMENT PANEL ASSEMBLY

SECTION A-121

DRAWING NUMBER 0-2201345-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-1201394-0-01	Control Panel Cutout
2	1	0-3191001-0-01	Volt Meter
3	2	0-3274000-0-00	Hole Plug
4	1	0-2303136-0-01	Instrument Panel Harness
5	1	0-3117009-0-00	Horn - Pushbutton
6	1	0-1201571-0-01	Wiring Diagram (See Section L-393)
7	1	0-3114002-0-01	Starter - Stop Switch
8	3	0-3105015-0-02	Circuit Breaker 15 AMPS
9	1	0-3111002-0-00	On-Off Toggle Switch
10	1	0-1404917-0-01	Starter Nameplate
11	1	0-1404918-0-01	Horn Nameplate
12	15	L420491	Tie Rap
13	3	L422496	Terminal Lug
14	1	0-1404921-0-01	Lights Nameplate
15	1	0-1404922-0-01	Wiper Nameplate
16	3	0-1404923-0-01	Circiut Breaker Nameplate
17	1	0-1405045-0-01	2" Hole Plug
18	1	0-1405045-0-02	3" Hole Plug
19	1	0-3111003-0-00	Switch DPDT
20	1	L422953	Hole Plug
21	1	0-3211009-0-02	#14 AWG Wire Green 117"
22	15	L422502	Terminal Lug
23	5	L422500	Terminal Lug
24	5	0-3255012-0-01	Terminal Lug, Piggyback
26	1	0-2405746-0-01	Magneto Ground Cable

For Complete Instrument Panel Assembly order 0-2201345-0-01



TMC-2 AND TMC-6 HEAT GUARD INSTALLATION

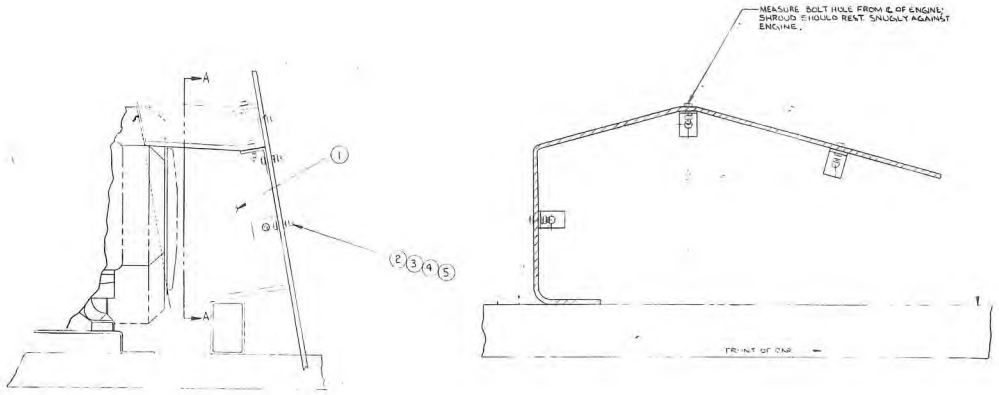
SECTION A-124

DRAWING NUMBER 0-2010723-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-2201624-0-01	Heat Guard Assembly
2	3		Hex Head Bolt 1/4 - 20 X 1 Long
3	3		Washer,Flat 1/4
4	3		Washer,Lock 1/4
5	3	L41157	Nut, Esna 1/4 - 20

For Complete TMC-2 and TMC-6 Heat Guard Installation, Order 0-2010723-0-01

SECTION A-124



SECTION A-A

SECTION A-124

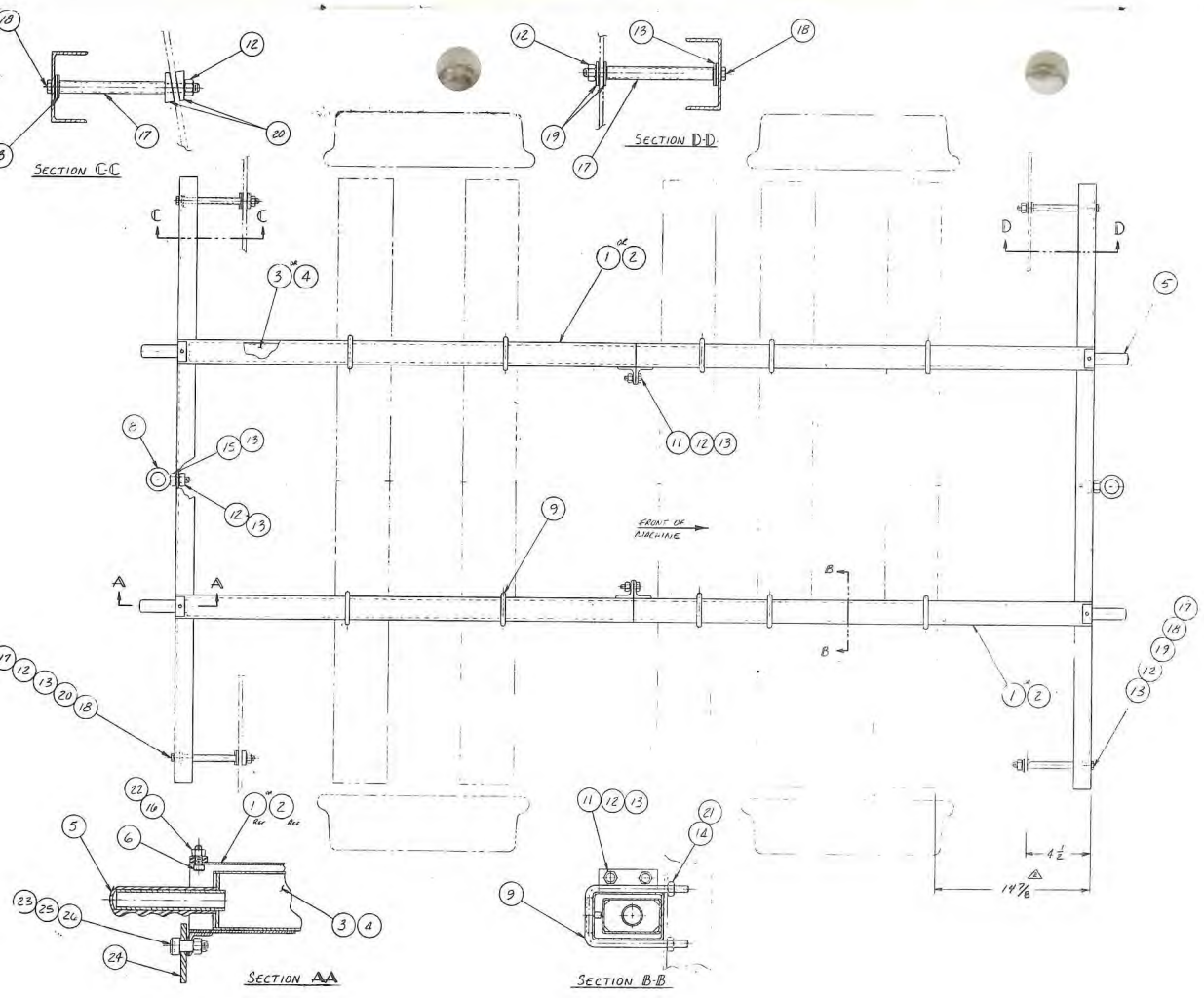
TMC-6 BUMPER ASSEMBLY

SECTION A-125

DRAWING NUMBER 0-2100962-0-02

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
2	2	0-2201540-0-02	Bumper Weldment
4	2	0-2302888-0-02	Bumper Tube Weldment
5	4	L40081	Handle Bicycle Grip
6	4		Nylok Socket Head Capscrew 1/4 - 20 X 3/4 Long
8	2		Eye Bolt 3/8 - 16 X 1 1/4 Long
9	10	0-1405651-0-01	U-Bolt
11	4		Hex Head Capscrew 3/8 - 16 X 1"
12	10	L40387	Esna Nut 3/8 - 16
13	16		Flatwasher 3/8
14	20	L41582	Exna Nut 5/16 - 18
15	2		Jam Nut 3/8 - 16
16	4		Jam Nut 1/4 - 20
17	4	0-1100962-0-17	Spacer, Round Mechanical Tubing 1/2 O.D. X 17 Ga. X 4 Long
18	4		Hex Head Capscrew 3/8 - 16 X 5 1/2 Long
19	4		Fender Washer 3/8
20	4		Bevel Washer 3/8
21	20		Flatwasher 5/16
22	4		Flatwasher 1/4
23	4		Socket Head Capscrew 1/2 - 13 X 1 1/4 Long
24	4	0-1406008-0-01	Swing
25	4		SAE Flatwasher 1/2
26	4	L40767	Esna Nut 1/2 - 13

For Complete TMC-6 Bumper Assembly, Order 0-2100962-0-02



SECTION A-125

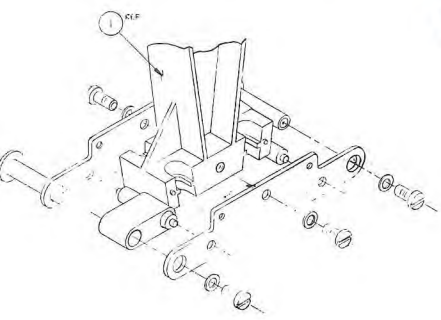
TMC-6 CONTROL INSTALLATION

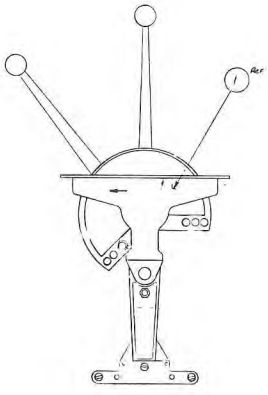
SECTION A-126

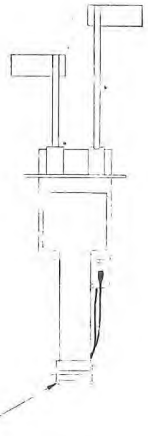
DRAWING NUMBER 0-2100974-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-3613026-0-01	Twin Lever Control
2	1	0-3613028-0-02	Choke Cable
3	1	0-1405663-0-01	Cable Adaptor Kit
4	1	0-1405664-0-01	Neutral Safety Switch
7	1	0-1405761-0-01	Throttle Nameplate
8	1	0-1405762-0-01	Shifter Nameplate
9	2	Y710949-019	Arrow Nameplate

For Complete TMC-6 Control Installation, Order 0-2100974-0-01

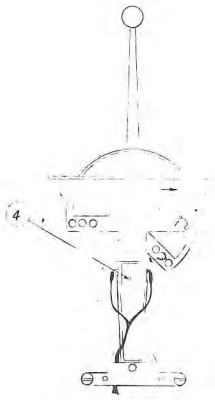




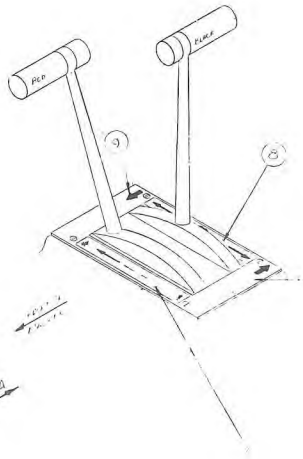


VIEW A

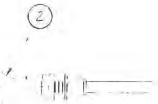
VIEW B



VIEW C



VIEW A



SECTION A-126

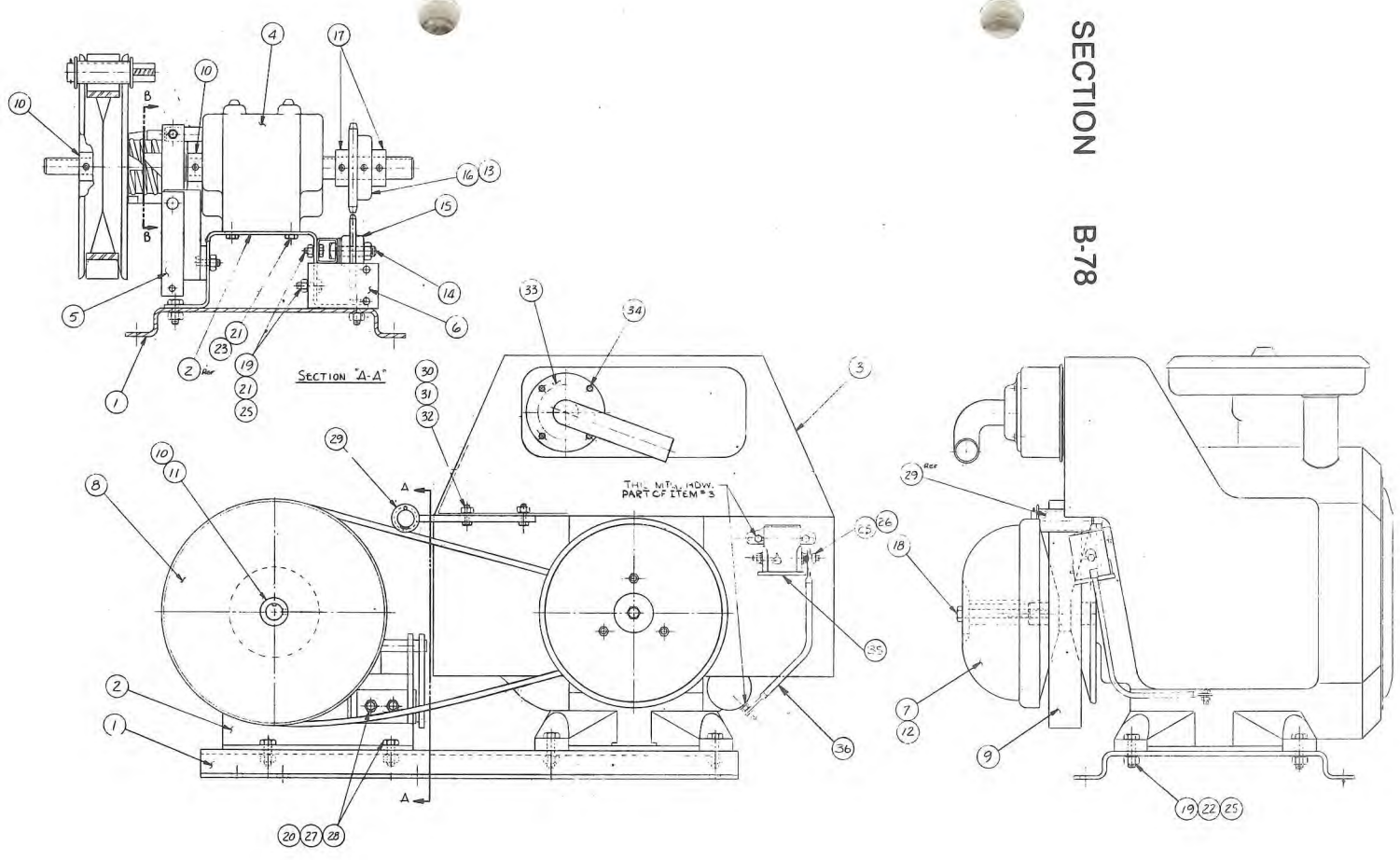
TMC-2 - TMC-6 ENGINE AND TRANSMISSION ASSEMBLY

SECTION B-78

DRAWING NUMBER 0-2100831-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-1302396-0-01	Base Plate
2	1	0-1302410-0-01	Transmission Mount
3	1	0-3512002-0-01	Engine
4	1	0-3523018-0-01	Transmission
5	1	0-2201413-0-01	Shifter Weldment
6	1	0-1405053-0-01	Cable Support Bracket
7	1	0-3525007-0-01	Driver Pulley
8	1	0-3525006-0-01	Driven Pulley
9	1	0-3622013-0-01	Belt
10	2	0-3012005-0-03	Set Collar 3/4
11	1	Z753210-068	Key
12	1	Z753210-067	Key
13	1	Z753210-057	Key
14	1	0-1302603-0-01	Chain Tensioner Frame
15	1	0-3625023-0-01	Idler Sprocket
16	1	0-3625024-0-01	Drive Sprocket
17	2	L420282	Set Collar 1"
18	1		Hex Head Capscrew 3/8 - 24 X 4" Long
19	9	L41582	Esna Nut 5/16 - 18
20	6	L40387	Esna Nut 3/8 - 16
21	10		Hex Head Capscrew 5/16 - 18 X 3/4 Long
22	4		Hex Head Capscrew 5/16 - 18 X 1 1/2 Long
23	6		Lockwasher 5/16
24	1		Scckethead Capscrew 5/16 - 18 X 1 3/4 Long
25	9		Flatwasher 5/16
26	2		Jam Nut 5/16 - 18
27	6		Hex Head Capscrew 3/8 - 16 X 1" Long
28	6		Flatwasher 3/8
29	1	0-2405678-0-01	Roller Assembly
30	2		Hex Head Capscrew 1/4 - 20 X 1" Long
31	2		Flatwasher 1/4
32	2	L41157	Esna Nut 1/4 - 20
33	1	0-1405665-0-01	Exhaust Connector
34	4		Slotted Hex Washer Head Self Tap Screw #8 - 32 X 3/8
35	1	L421879	Engine Solenoid
36	1	0-3180007-0-01	Cable,Solenoid To Starter

For Complete TMC- TMC-6 Engine and Transmission Assembly, Ord -2100831-0-01



SECTION B-78

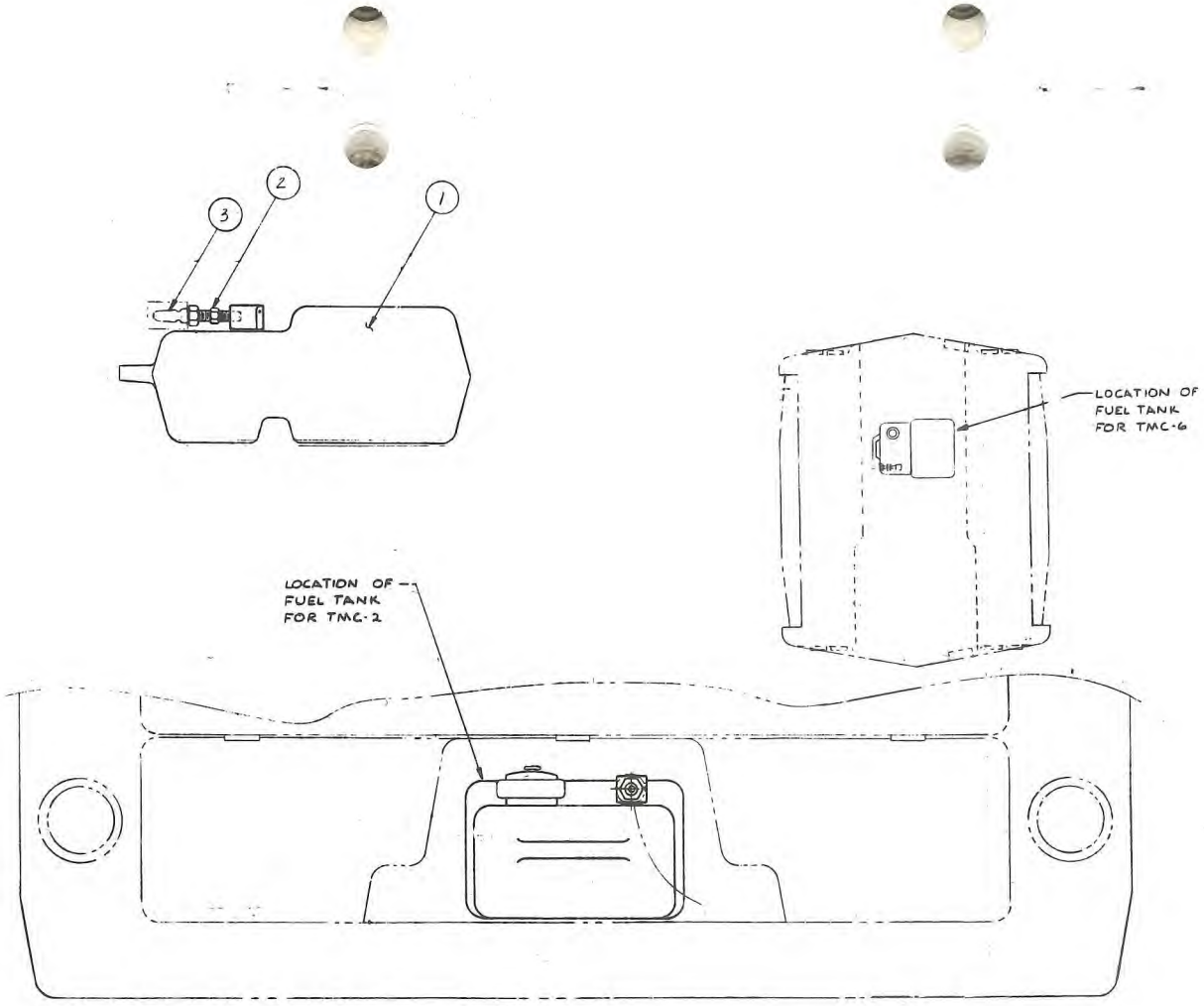
TMC-2 - TMC-6 FUEL TANK ASSEMBLY

SECTION B-79

DRAWING NUMBER 0-2201344-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-3510005-0-01	Six Gallon Portable Fuel Tank
2	1	L41079	Nipple
3	1	L41228	Plug

For Complete TMC-2 - TMC-6 Fuel Tank Assembly, Order 0-2201344-0-01



SECTION B-79

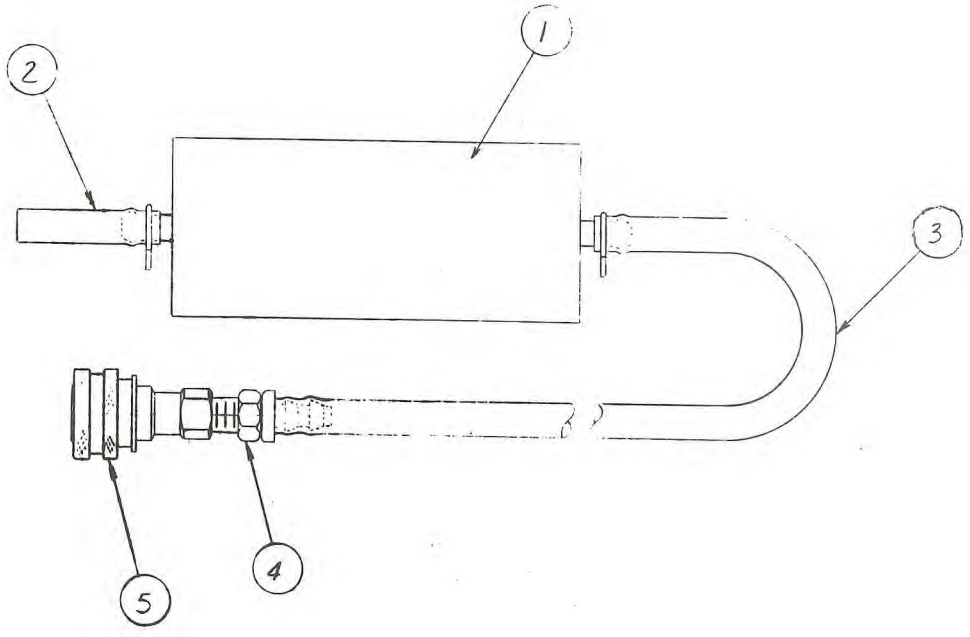
FUEL LINE ASSEMBLY

SECTION B-80

DRAWING NUMBER 0-2302899-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-1405173-0-01	In Line Fuel Filter
2	1	L423094	Hose 6 Long
3	1	L423094	Hose 84 Long
4	1	L423096	1/4 Hose End
5	1	L41227	Socket

For Complete Fuel Line Assembly, Order 0-2302899-0-01



SECTION B-80

TMC-2 - TMC-6 FRONT AND REAR AXLE ASSEMBLY

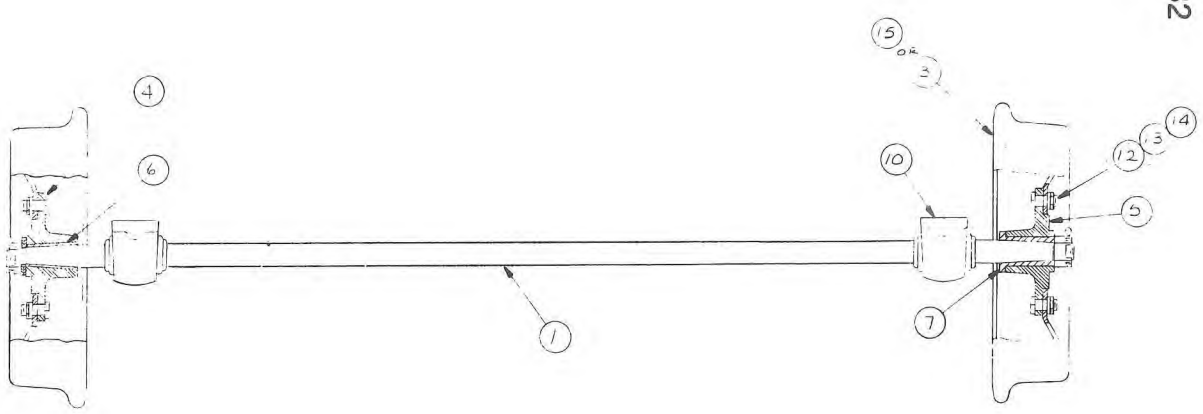
SECTION C-132 DRAWING NUMBER 0-2201341-0-01, 02

This is a tabulated parts list. Use 0-2201341-0-01 for Front Axle TMC-2
0-2201341-0-02 for Rear Axle TMC-2

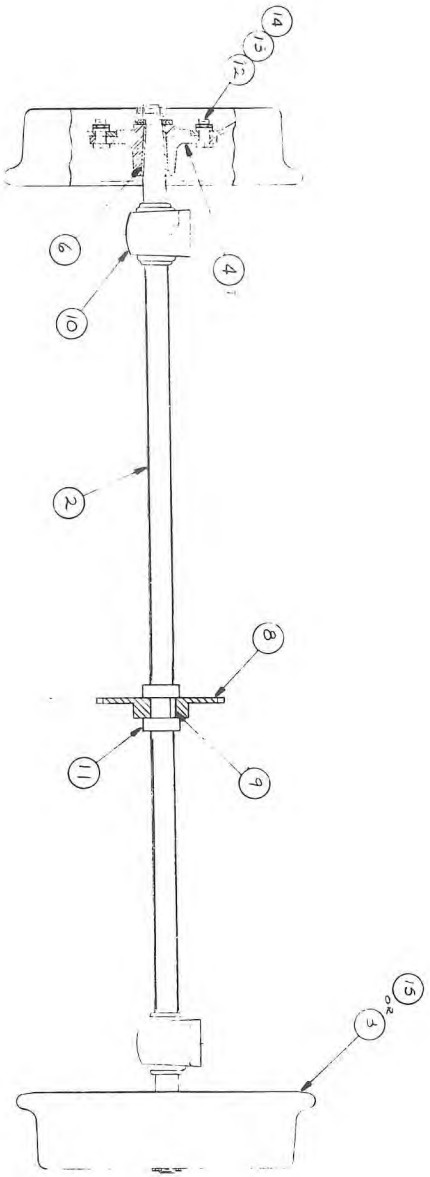
ITEM	QUANTITY 01	QUANTITY 02	PART NUMBER	DESCRIPTION
1	1	0	L40974	Front Axle
2	0	1	0-1404576-0-01	Rear (Drive) Axle
3	2	2	1-2	16" Dia Wheel 1/4 Thick
4	1	2	2-1	Insulated Hub
5	1	0	2-3	Loose Wheel Hub
6	1	2	PC 273	Insulation Assembly
7	1	0	22104A	Locse Wheel Bushing
8	0	1	0-3625025-0-01	Sprocket
9	0	1	Z753210-069	Key 3/8 X 3/8 X 1 1/4 Long
10	2	2	0-3652045-0-01	Pillow Block
11	0	2	0-3012005-0-04	Set Collar 1 7/16 Dia
12	8	8		Hex Head Capscrew 5/8 - 18 X 1 3/4 Long
13	8	8		Lockwasher 5/8
14	8	8		Hex Nut 5/8 - 18

For Complete TMC-2 Front and Rear Axle Assembly, Order 0-2201341-0-01 for Front Axle TMC-2
0-2201341-0-02 for Rear Axle TMC-2

SECTION C-132



SECTION C-132



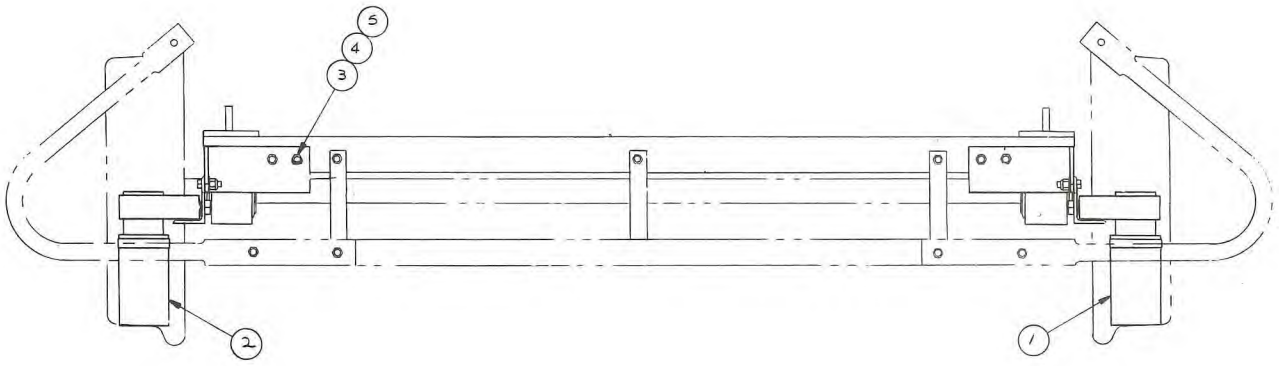
TMC-2 - TMC-6 RAIL SWEEP MOUNTING ASSEMBLY

SECTION C-134 DRAWING NUMBER 0-2201544-0-01,02

This is a tabulated parts list. Use 0-2201544-0-01 for Front Only (2 Rail Sweeps)
0-2201544-0-02 for Front & Rear (4 Rail Sweeps)

ITEM	QUANTITY 01	QUANTITY 02	PART NUMBER	DESCRIPTION
1	1	2	0-2201346-0-01	Rail Sweep Assembly (See Section C-135)
2	1	2	0-2201346-0-02	Rail Sweep Assembly (See Section C-135)
3	4	8		Hex Head Capscrew 3/8 - 16 X 1 1/8 Long
4	4	8	L40387	Esna Nut 3/8 - 16
5	4	8		Flatwasher

For Complete TMC-2 and TMC-6 Rail Sweep Mounting Assembly, Order 0-2201544-0-01 for
Front Only (2 Rail Sweeps)
0-2201544-0-02 for
Front & Rear (4 Rail Sweeps)



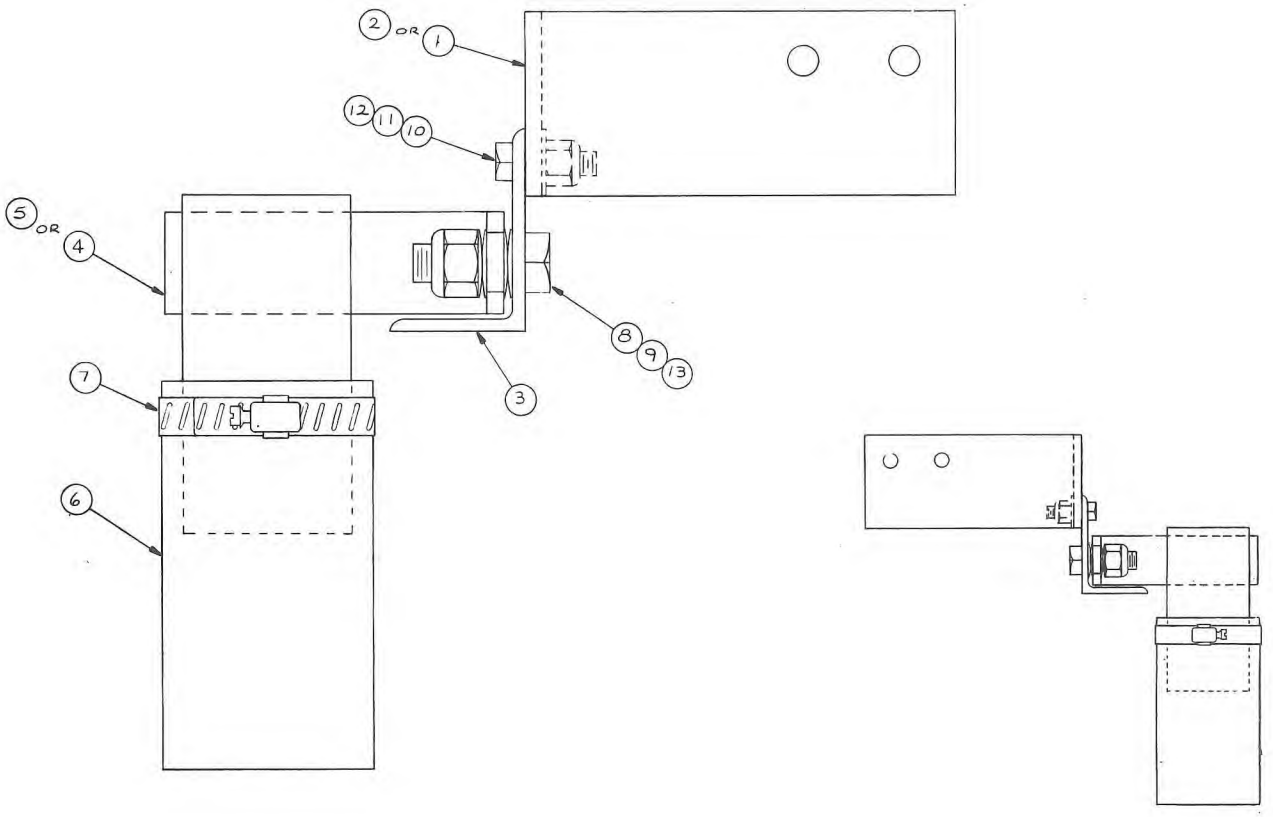
RAIL SWEEP ASSEMBLY (TMC-2 - TMC-6)

SECTION C-135 DRAWING NUMBER 0-2201346-0-01, 02

This is a tabulated parts list. Use 0-2201346-0-01 for Opposite
0-2201346-0-02 for As Shown

ITEM	QUANTITY 01	QUANTITY 02	PART NUMBER	DESCRIPTION
1	1	0	C-1405447-0-01	Rail Sweep Mount
2	0	1	0-1405447-0-02	Rail Sweep Mount
3	1	1	0-1404602-0-01	Pivot Mount
4	1	0	0-2302419-0-01	Rail Sweep Weldment
5	0	1	0-2302419-0-02	Rail Sweep Weldment
6	1	1	0-3305012-0-06	Hose 2 1/3 ID X 3 1/8 OD X 5 3/4 Long
7	1	1	L41594	Hose Clamp
8	1	1		Hex Head Capscrew 5/8 - 11 X 1 3/4 Long
9	1	1	L40006	Esna Nut 5/8 - 11
10	2	2		Hex Head Capscrew 3/8 - 16 X 1 1/8 Long
11	2	2	L40387	Esna Nut 3/8 - 16
12	2	2		Flatwasher 3/8
13	4	4	L411689	Spring Washer 5/8

For Complete Rail Sweep Assembly (TMC-2 - TMC-6), Order 0-2201346-0-01 for Opposite
0-2201346-0-02 for As Shown



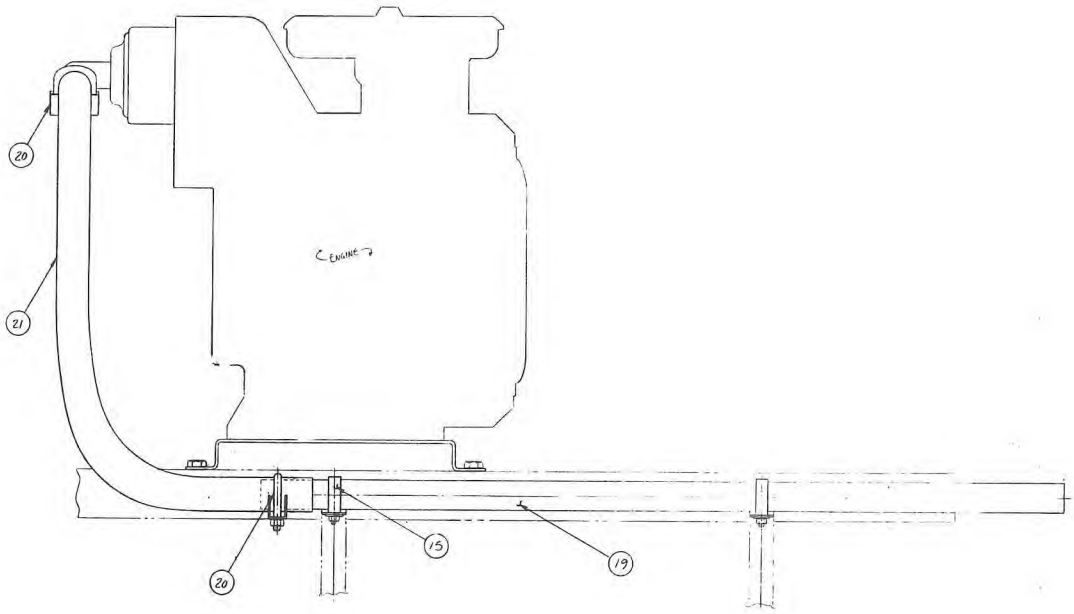
SECTION C-135

TMC-6 ENGINE AND DRIVE INSTALLATION

SECTION C-136 DRAWING NUMBER 0-2100973-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-2100831-0-01	Engine and Transmission Assembly (See Section B-78)
2	1	0-2303124-0-01	Padded Cross Member
3	1	0-3621013-0-04	Chain 81 1/2 Long (130 Pitches)
4	1	0-3621014-0-03	Connecting Link
5	1	L40016	Offset Link
6	1	X768469-021	Shift Cable, Push-Pull
7	1	0-1405046-0-01	Clamp and Shim Kit
8	1	L420854	Clevis Assembly
9	1		Cotter Pin 1/16 X 1/2 Long
10	1	0-1406014-0-02	Throttle Cable
11	6		Hex Head Capscrew 3/8 -16 X 1" Long
12	6		Flatwasher 3/8
13	6	L40387	Esna Nut 3/8 - 16
14	2	0-1406029-0-01	Hanger
15	2	L424470	Hose Clamp
16	2		Hex Head Capscrew 1/4 - 20 X 1" Long
17	4		Flatwasher 1/4
18	2	L41157	Esna Nut 1/4 - 20
19	1	0-1100973-0-19	Exhaust Pipe (Round Mechanical Tubing 1 1/4 O.D. X 16Ga. 34 Long.
20	2	0-3012008-0-04	Muffler Clamp
21	1	0-3612000-0-04	Flexible Metal Hose 27 Long

For Complete TMC-6 Engine and Drive Installation, Order 0-2100973-0-01



View 'B'

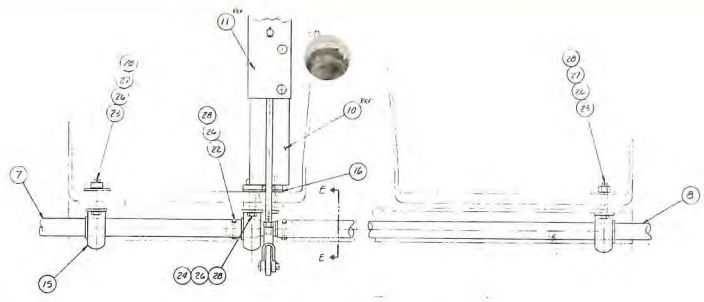
TMC-6 BRAKE ASSEMBLY

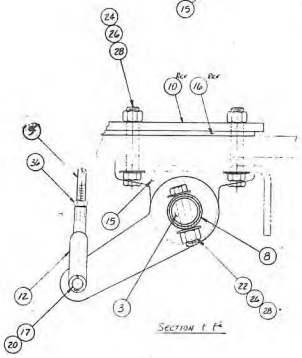
SECTION C-137

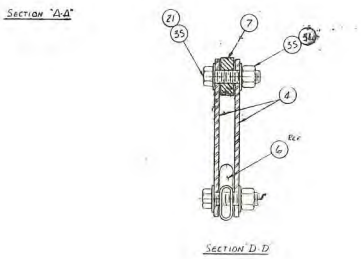
DRAWING NUMBER 0-2010734-0-01

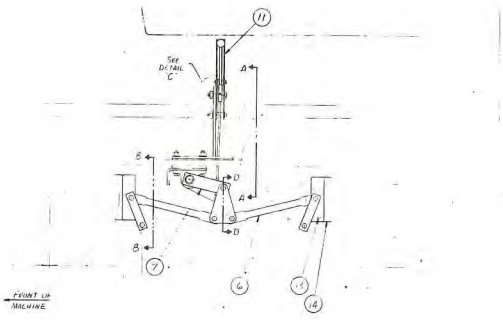
ITEM	QUANTITY	PART NUMBER	DESCRIPTION
3	1	0-2302472-0-01	Brake Pivot Weldment
4	4	0-1404703-0-01	Brake Arm Pivot
5	8	0-1404702-0-01	Brake Shoe Pivot
6	4	0-1404701-0-02	Brake Arm
7	1	0-2302535-0-01	Brake Lever Weldment
8	1	0-2302535-0-02	Brake Lever Weldment
9	1	0-1404815-0-02	Brake Linkage Rod
10	1	0-2405770-0-01	Brake Mount Weldment
11	1	L423682	Hand Brake
12	2	L423620	Clevis
13	4	0-1302539-0-01	Brake Shoe Block
14	4	0-1302719-0-01	Brake Shoe
15	3	0-3652044-0-01	Pillow Block
16	1	0-1405496-0-01	Brake Insulator
17	1	L423621	Clevis Pin
18	2	Z753146-029	Spacer
19	4	0-1406006-0-02	Spacer
20	1		Cotter Pin 3/32 X 1/2 Long
21	6		Hex Head Capscrew 1/2 - 13 X 1 1/2 Long
22	2		Hex Head Capscrew 3/8 - 16 X 1 3/4 Long
23	4		Hex Head Capscrew 3/8 - 16 X 2 Long
24	4		Hex Head Capscrew 3/8 - 16 X 2 1/4 Long
26	12		Flatwasher 3/8
27	4		Fender Washer 3/8
28	10	L40387	Esna Nut 3/8 - 16
29	10		Flatwasher 5/16
30	10	L40388	Esna Nut 5/16 - 18
31	14	L40767	Esna Nut 1/2 - 13
32	4		Hex Head Capscrew 1/2 - 13 X 2 1/2 Long
33	2		Hex Head Capscrew 5/16 - 18 X 2 Long
34	8		Square Head Bolt 5/16 - 18 X 2 1/4 Long
35	28		Flatwasher 1/2
36	2		Jam Nut 5/16 - 24
37	4	0-1406006-0-01	Spacer
38	4		Hex Head Bolt 1/2 - 13 X 7 Long

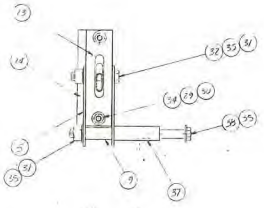
For Comple TMC-6 Brake Assembly, Order 0-2010734-0-01

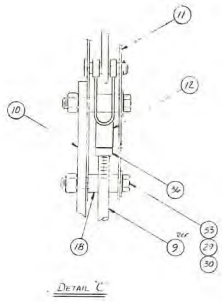




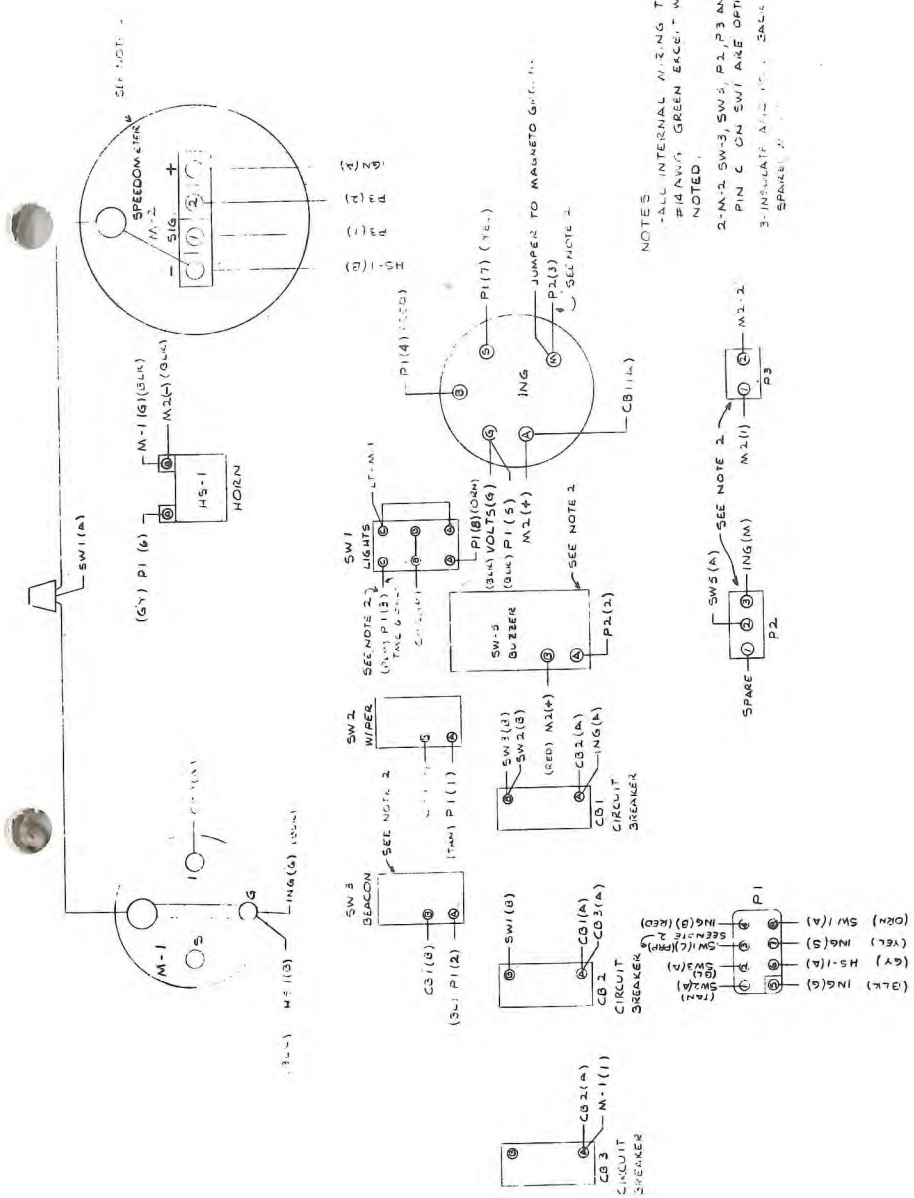








SECTION L-393



TMC-6 GENERAL ELECTRICAL ASSEMBLY

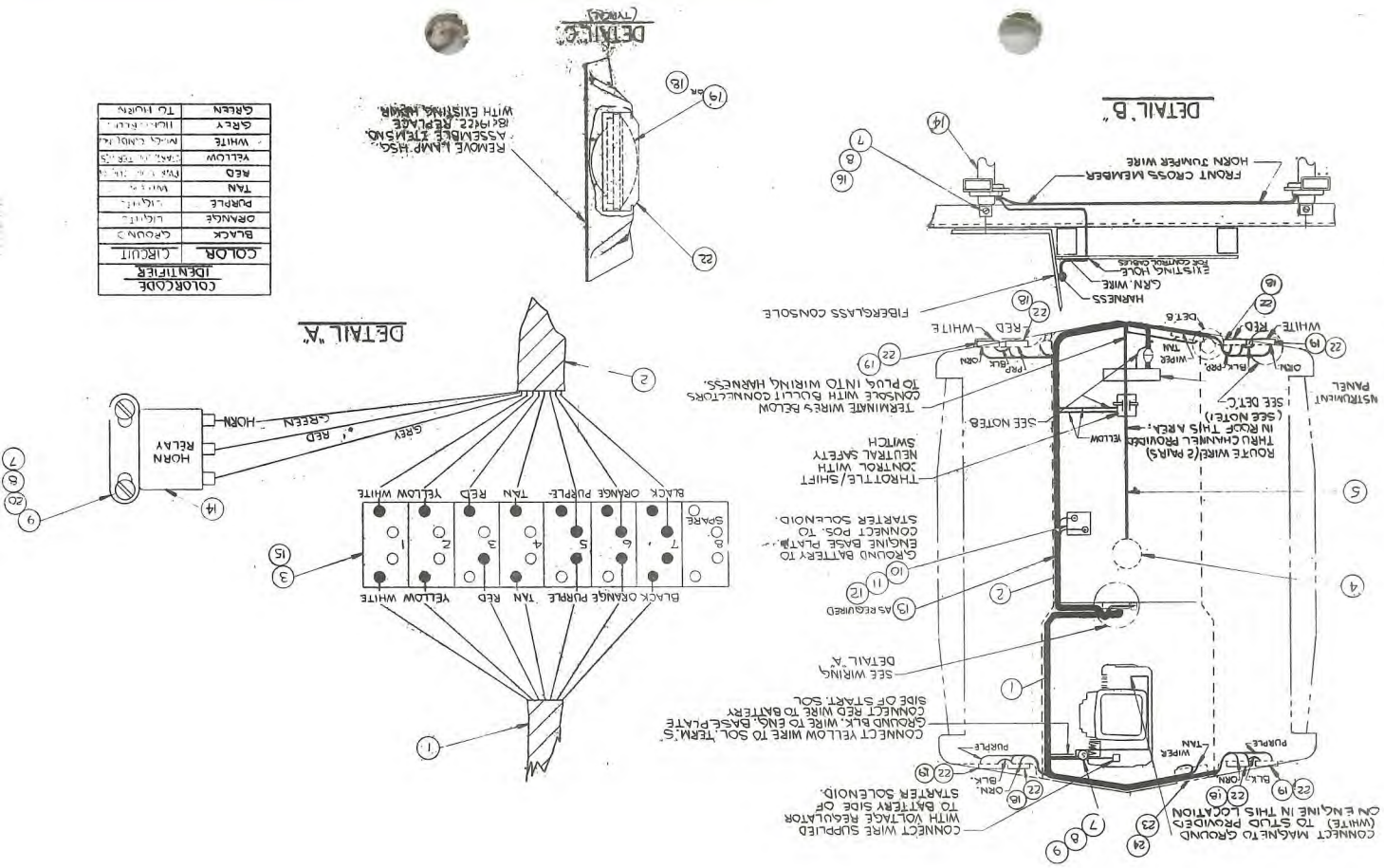
SECTION L-396

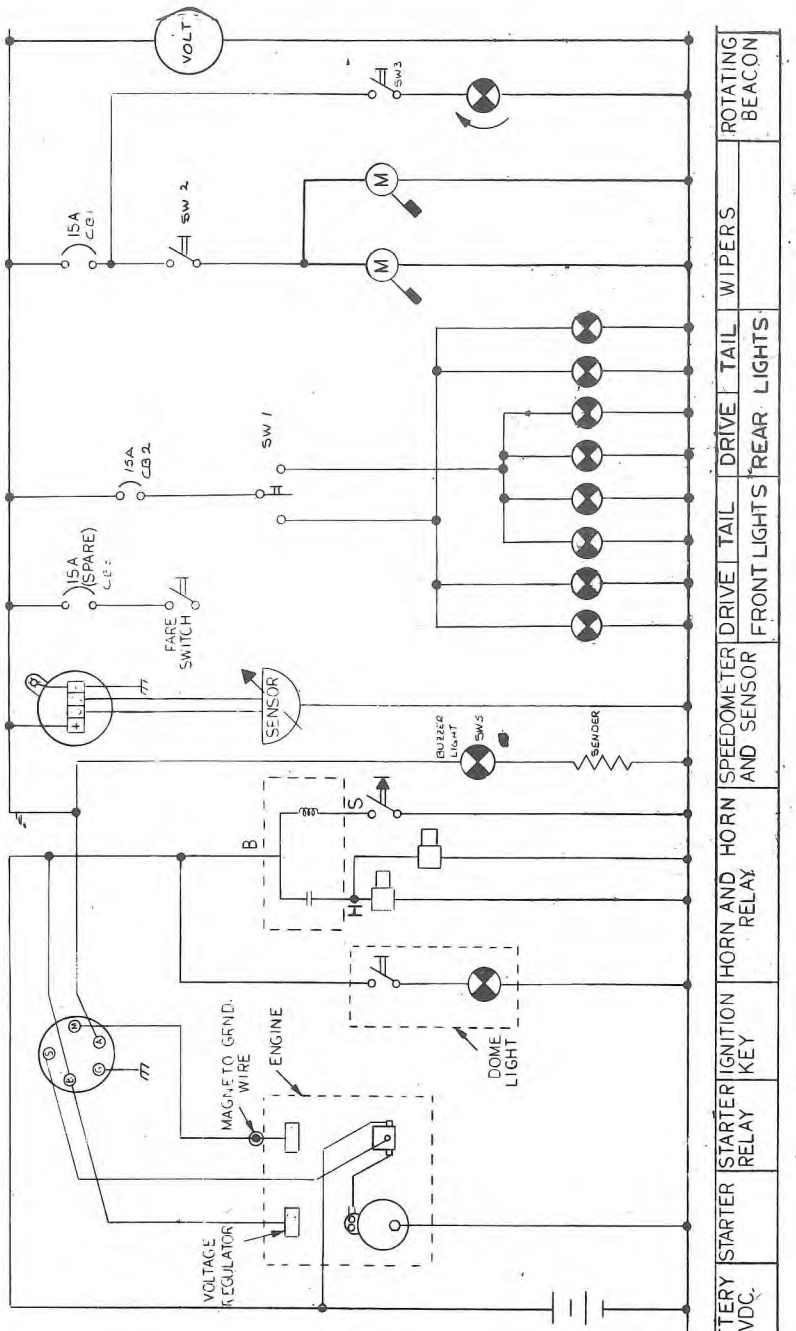
DRAWING NUMBER 0-2100975-0-01

ITEM	QUANTITY	PART NUMBER	DESCRIPTION
1	1	0-1406054-0-01	Wiring Harness
2	1	0-1101007-0-01	Wiring Harness
3	1	0-3254002-0-05	Terminal Strip (8)
4	4	L40835	Marr Connector
5	1	0-3212002-0-01	Primary Wire 15 Ft.
7	6		5/16 Lockwasher
8	6		5/16 - 18 Hex Nut
9	4		5/16 Flatwasher
10	1	0-3180006-0-01	Battery Box
11	1	0-3181001-0-01	Battery 12V
12	2	0-3180008-0-02	Battery Cable
13	20	L420491	Tie Wraps
14	1	L40844	Horn Set
15	2	L425004	3/16 Pop Rivets
16	2		5/16 - 18 X 1 1/2 Pan Head Machine Screw
17	8	0-3100013-0-01	Sealed Beam Mount Ring
18	4	0-3101020-0-01	Tail Light Sealed Beam (Red)
19	4	L41159	Sealed Beam (Clear)
20	4		5/16 - 18 X 1 Flat Head Machine Screw
21	1	0-1201576-0-01	Schematic (See Section L-397)
22	7	L423662	Bullet Connectors
23	2	0-3502005-0-01	Wiper Arm
24	2	0-3502006-0-01	Wiper Blade

For Complete TMC-6 General Electrical Assembly, Order 0-2100975-0-01

SECTION L-396




VOLT
15A CB1
SW 2
SW3
15A CB2
SW 1
15A (SPARE) CB3
FARE SWITCH
SENSOR
BUZZER
LIGHT
SW5
SENDER
B
S
H
MAGNETO GRND. WIRE
ENGINE
DOME LIGHT
VOLTAGE REGULATOR
BATTERY 12 VDC.
STARTER
STARTER RELAY
IGNITION KEY
HORN AND HORN RELAY
SPEEDOMETER AND SENSOR
DRIVE TAIL FRONT LIGHTS
DRIVE TAIL REAR LIGHTS
WIPERS
ROTATING BEACON

NOTES