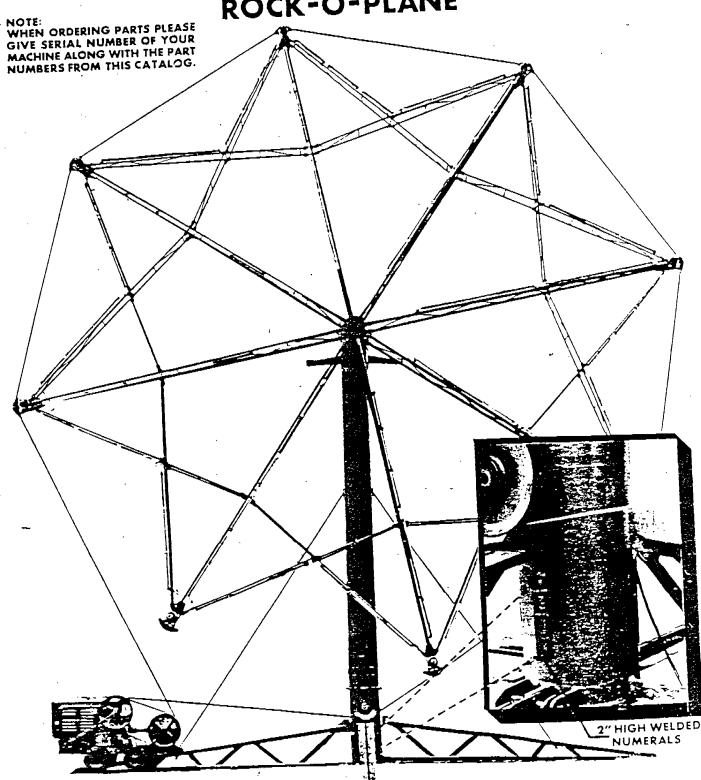


MFG: EYERLY

NAME: ROCK-O-PLANE

TYPE: NON-KIDDIE

# LOCATION OF SERIAL NUMBERS ON ROCK-O-PLANE

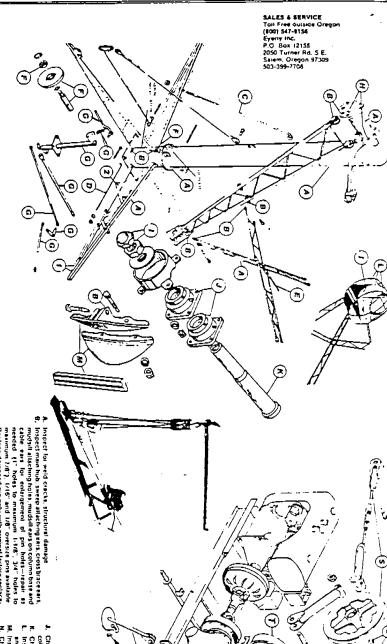


SERIAL NUMBERS ARE FROM 6000 & UP AND ARE 2"HIGH WELDED NUMERALS ON COLUMN AS INDICATED.



#### **ROCK-O-PLANE**

inspection check list



P.O. Box 12155 2050 Turner Rd. S.E. Salem Gregori 97309 503-373-776 SALES & SERVICE
Toll Free outside Oregon
(800) 347-3138
Eyerly Inc.

NOVEMBR 1827 PRINTED RVD S A

į

Decessary

Replace danaged pronly with original kelory replacement pur langued for yropes safelies, not rails. Do not use harpon; for safelies in muchall prin as pur colates and purhes teeper out.

C. Orieck sway brace rods for straightness, condition of hirears and head Replace if necessary, out as et to be evenly lightned.

D. Inspect he rods for danaged ends and threads. Replace if necessary, out as et to be evenly lightned.

E. Check condition of cross brace pins for enlargement.

ç

wear, missing retainers etc.

F. Inspect condition of column offer tube, shall and sheave check for bearing play flepare as needed. Sheave check for bearing play flepare as needed to inspect control stand and independent control standard flepare in the land to the processing of the standard flepare in the land to the standard flepare the st

I, Inspect case for broken or worn lobes, broken screen, bent automatic seturn ber, fost or broken springs, anlarged attaching hotes, worn bolls, sleby key warring end of bar which settings door, and worn or dismaged door safety key inspect can hab for proper spride position Sprindle should not be flush with more hab lace inspect bakes to flush with more hab lace inspect to have drawn and brake hand for condition Molectines not brake strum and brake hand for condition Molectines and strum and brake should not trape to the strum and brake should not trape to be strum and brake should be should not be strum and brake should be should not be strum and brake should not be some strum.

collars for tightness
Check spindle for condition
Inspect condition of door latch and hinges. Remove play Check for bearings lurning in housing, condition and lock

and alian as necessary.

M. Inspect condition of cable ears and packing.

N. Check lence for condition—repair broken members as

needed

P. Check plaiform for structural condition. Repair \$1
P. Check model for deterioration and replace as needed. Check model for deterioration and replace as needed necessary frapped (cheas and repair or replace as needed.

R. Inspect drive cable for alignment, corrosson, broken stands, oil (I) Abscrate and the needed.

Substitute with pine tar)

Subspect condition of drive lider wheel and bearings.

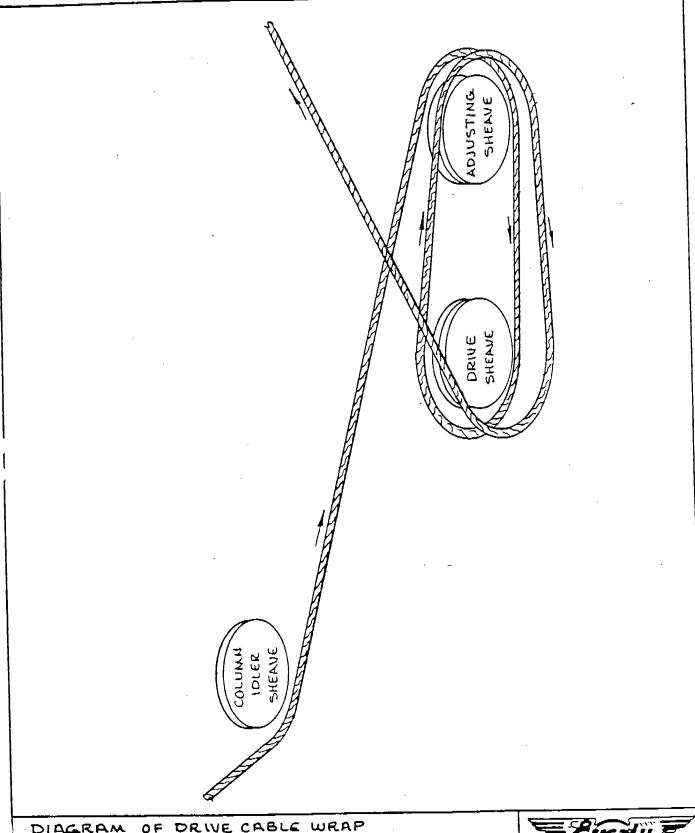
Check cable lession unit for proper operation.

Check braite and inskips for condition, effectiveness and operation. Replace brake lining and repair linkage as

néedad .
Check condition of drive wheel liner. If uncarnity worn .
Check condition of mole base allacting finite, pms. .
Lumbuckles and jack slands—repor or replace as

Blocking
Blocking
Blocking
Rude center must be floated at all times, executy distribute
Rude center must be floated at all times andselved by 1
weight on outer and of modell at area indexled by 1
Counter blocking located at 2 should be imper light and
check floate to perent weight from transferring to quarter
blocks due to settling of outer blocks. Note, Blocking
blocks due to settley.

Maximum passenger weight per car 340 lbs. Maximum RPM is



יוייישי



INDEX

	PAGE
SPACE REQUIREMENTS & FENCE SET-UP	1
SET-UP INSTRUCTIONS	2 & 3
LUBRICATION INSTRUCTIONS	4 & 5
HYDRAULIC SYSTEM DIAGRAM	6 & 7
SIGN WIRING DIAGRAM	8
WIRING DIAGRAM (Lights)	9
WIRING DIAGRAM (Running Lights)	10
DIAGRAM OF AIR BRAKE CONTROLS	11
MUD SILL & FRONT LEG HYD. CYLINDER ASSEMBLY	12 & 13
FRONT LEG ASSEMBLY	14
HYDRAULIC LIFT CYLINDER ASSEMBLY	15
HYDRAULIC PUMP ASSEMBLY	16 & 17
HYDRAULIC OIL FILTER ASSEMBLY	18
TRIPLE VALVE CONTROL ASSEMBL	Y 19
TRIPLE VALVE ASSEMBLY	20 & 21
FRONT LEG CONTROL VALVE ASSEMBLY	22 & 23
THROTTLE CONTROL ASSEMBLY	24
CLUTCH SHAFT ASSEMBLY	25
HYDRO-SHEAVE ASSEMBLY	26
SPRING LOADED IDLER SHEAVE ASSEMBLY	27
BRAKE CONTROL ASSEMBLY	28 & 29
DRIVE SHEAVE ASSEMBLY	30 & 31
CABLE ADJUSTING SHEAVE ASSEMBLY	32

EX	PAGE
CABLE TENSION ADJUSTING SHEAVE ASSEMBLY	33
WHEEL ASSEMBLY	34 & 35
CROSS BRACE ASSEMBLY	36 & 37
CABLE BINDER & MASTER LINK ASSEMBLIES	38 & 39
WHEEL HUB ASSEMBLY	40 & 41
	42
CAR SPINDLE ASSEMBLY	43
CAR ASSEMBLY	44 & 45
FRAME & COLUMN ASSEMBLIES	46 & 47
BUNKER ASSEMBLY	48 & 49
SPRING SUSPENSION & TIRE ASSEMBLY	50 & 51
STANDARD AXLE & BRAKE ASSEMBLY	52 & 53
AIR CHAMBER ASSEMBLY	54
MUD SILL ASSEMBLY	55
CONTROL STAND ASSEMBLY	56 & 57
	58
LOADING PLATFORM & FENCE ASSEMBLY	59
LIGHT RING ASSEMBLY	60 & 61
SIGN SUPPORT ASSEMBLY	62
SIGN ASSEMBLY	63
FLUORESCENT FIXTURES	64
FLUORESCENT FIXTURES COMPONENTS	65
TICKET BOOTH ASSEMBLY	66

TELEPHONE 399-7709 AREA CODE 303

CABLE ADDRESS IRLYRIDE SALEM

P. O. Box 12441 SALEM, DREGON 97309 LEE U. EYERLY 1092-1963

JACK V. EYEF PRESIDENT

Door Modification Bulletin RE:

Eyerly ROLL-O-PLANE, ROCK-O-PLANE, FLY-O-PLANE and LOOP-O-PLANE amusement rides, all models and production

series. Drawing L-8-78

#### Gentlemen:

Enclosed is Drawing L-8-78, pertaining to a recommended door modification to the rides indicated above.

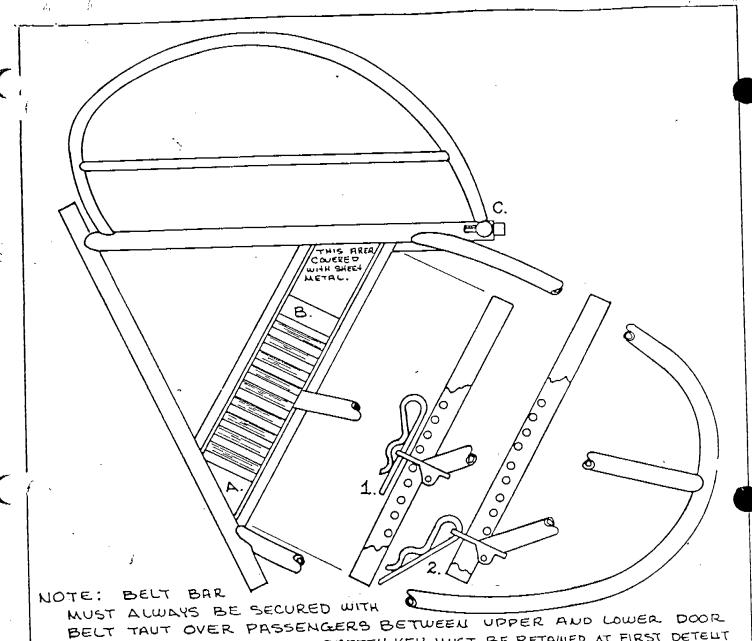
The modification to the door is hereby recommended and approved providing the instructions shown on this drawing are followed.

Sincerely,

EYERLY AIRCRAFT COMPANY

Jon V. Eyerly Vice President

Enc.



MUST ALWAYS BE SECURED WITH
BELT TAUT OVER PASSENGERS BETWEEN UPPER AND LOWER DOOR
LADDER RUNGS. SPRING SAFETY KEY MUST BE RETAINED AT FIRST DETELT
(FIG. 1.). IF BELT BAR IS IMPROPERLY SECURED BELOW BOTTOM RUNG (POINT A)
OR ABOVE TOP RUNG (POINT B.) IN DOOR LADDER AND IF SAFETY KEY IS
IMPROPERLY THROUGH BELT BAR PAST DETENT TO THE TOP OF THE LOOP
(FIG. 2.) AND IF SEPARATE DOOR LATCH (FIG. C.) IS NOT PROPERLY FASTENED,
DOOR MAY OPEN.

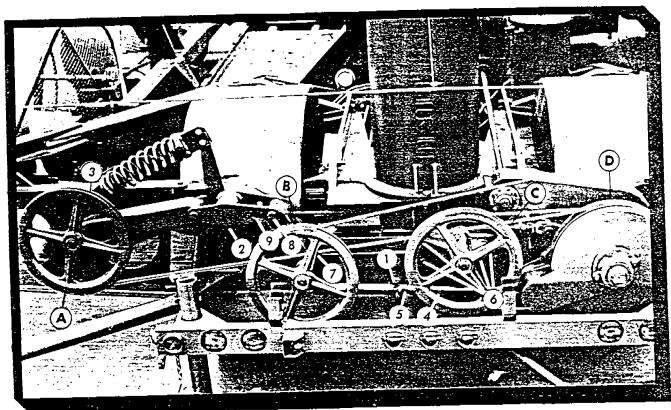
FACTORY APPROVED AND RECOMMENDED MODIFICATION:
INSTALL GUSSETS (1/8" MATERIAL) AT POINTS A & B COMPLETELY
FILLING AREA TO WITHIN 1/2" OF NEAREST CADDER RUNG, ATTACK BY WELDING.

THIS INSTRUCTION MAY ALSO BE USED WITH FLY-O, ROCK-O F ROLL-O-PLANE CAR DOORS

, —	OOR MOD	FICATION	BULLET	M	Series Series
DRAWN BY:	SCALE:	NO. REG'D.:	MATERIAL:	~	-
DATE: 4-6-78	NEXT ASSY.:	SDS. NO			Drg. No. L-8-78



## INSTRUCTIONS FOR ADJUSTING PORTABLE ROCK-O-PLANE CABLE



- 1. Before adjusting Cable make sure Sheaves A & B are parallel to Sheave D. Sheave C is offset l" from top to bottom to allow the Cable to change grooves in Sheave D.
- 2. To adjust Cable tension always begin with adjustments in their closest position to the Drive Sheave D. The illustration shows all adjustments in this position.
- 3. Correct Cable tension is achieved by turning the Adjusting Screw (1) until points (2) & (3) do not make contact with Stops, without load, when running.
- 4. When point (2) makes contact and there is no more adjustment in the Adjusting Screw (1), turn Adjusting Screw in until it stops, then remove Bolt (4) and slide Inner Tube (5) out to the next Hole. There is one more hole to provide further adjustment. Adjust Cable as

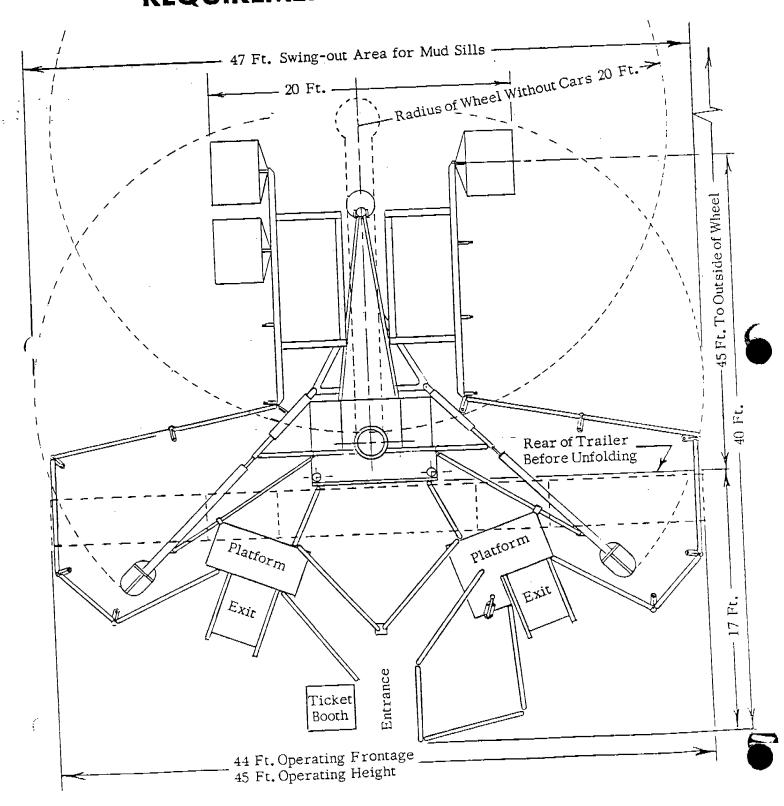
outlined in No. 3.

- 5. Should cable slack become more than Adjusting Screw Assembly can remove, place Adjusting Screw (1) and Inner Tube (5) back to their original position. Then loosen Bolts (6) and slide Shieve (C) to the left by tightening Nut (7). Secure Bolts (6) and adjust Cable as outlined in No. 3. Another set of holes are also provided in this adjustment and can be used when necessary. Above procedures provide proper Cable tensioning under normal conditions.
- 6. A third adjustment can be made under extreme conditions. All previous adjustments should be returned to their original positions. Remove Bolt (8) and install at (9) then follow procedures as outlined in No. 3 through No. 5.

NOTE: INSTALLATION OF A NEW CABLE REQUIRES THAT ALL SLACK ADJUSTMENTS BE RESTORED TO THEIR ORIGINAL POSITION. THE NEW CABLE SHOULD BE WIPED FREE OF OIL WITH A RAG AND IF POSSIBLE, ALLOWED A BREAK-IN PERIOD OF 1 TO 2 HOURS OF UNLOADED OPERATION. DURING THIS PERIOD GRADUALLY RE-ADJUST THE TENSION AS OUTLINED IN STEPS 3, 4 & 5 TO COMPENSATE FOR STRETCHING OF THE CABLE. SPARE CABLES SHOULD BE PRE-STRETCHED, AS OUTLINED ABOVE, BE-FORE BEING PLACED IN SERVICE.

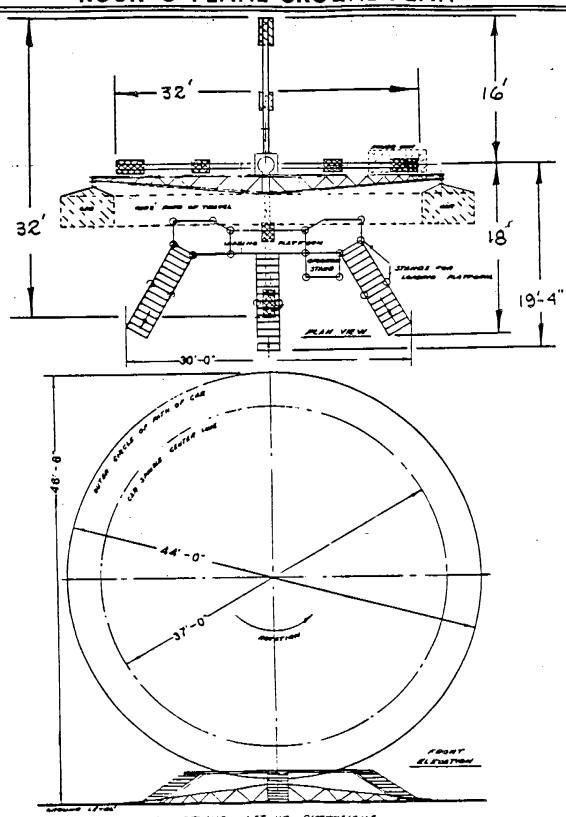


# PORTABLE ROCK-O-PLANE SPACE REQUIREMENTS & FENCE SET-UP



CUENTY

### ROCK-O-PLANE GROUND PLAN

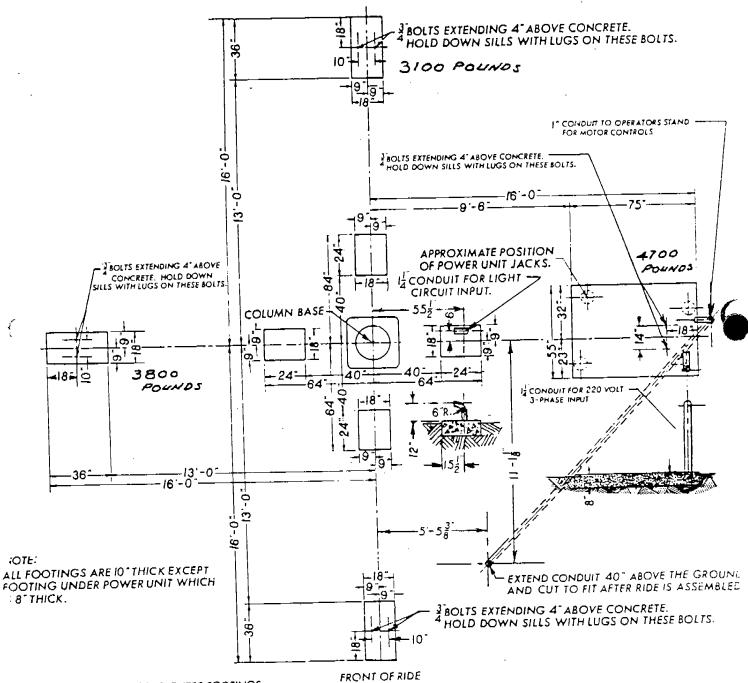


Eyerly Aircraft Co.



### CONCRETE FOOTINGS FOR ROCK-O-PLANE





THE VATION OF THE FOUR OUTER FOOTINGS

TILD BE TWO INCHES HIGHER THAN THE FOUR

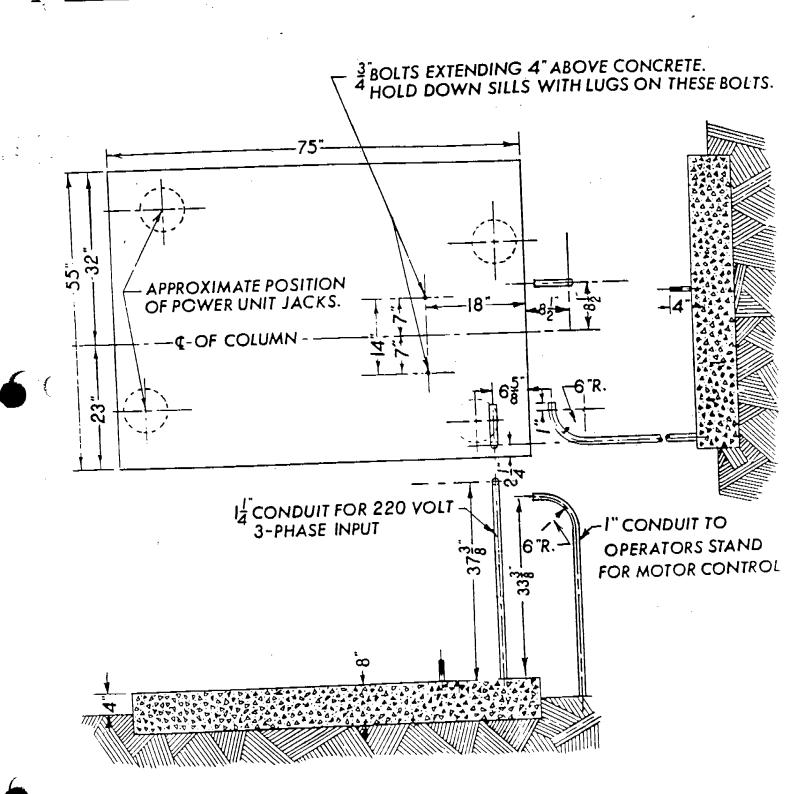
MEDIATE FOOTINGS.

4400 POUNGS



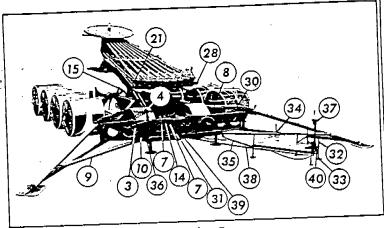


## OFTAIL OF FOOTING UNDER ROCK-O-PLANE POWER UNIT





### PORTABLE ROCK-O-PLANE SET-UP INSTRUCTIONS



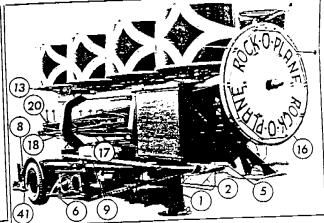
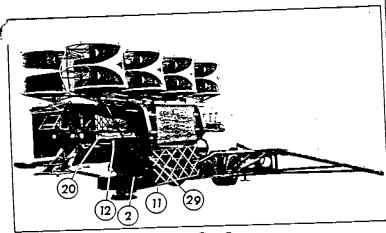


FIG.1

FIG. 3



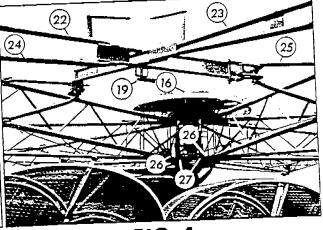
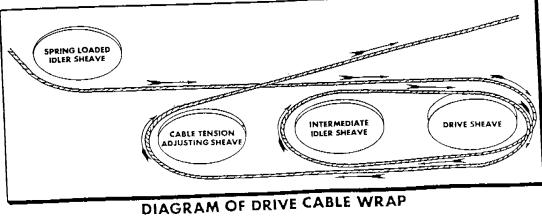


FIG. 2

FIG. 4





## PORTABLE ROCK-O-PLANE SET-UP INSTRUCTIONS

- (1) Place ride on desired location according to set-up and ground plan.
- (2) Remove splash board by removing the two safety pins from the upper right and left corners and from the attachment at the bottom which is secured to the front leveling cylinder (1) Fig. 3. CAUTION: BE SURE VALVE CONTROL LEVERS ARE IN NEUTRAL POSITION.
- (3) Check to see that the pump belt is on and then start engine.
- (4) Move front valve lever (2) Fig. 2 & 3 down to raise front of ride and remove truck. You are now ready to assemble the ride.
- (5) Remove 3/4" pin and fold down cable idler arm with spring (3) Fig.1 which is located on rear left side. Secure in operating position by pinning spring bracket to idler arm bracket (4) Fig.1 with two 3/4" pins.
- (6) To assemble the two rear sills, remove safety chain (5) Fig. 3 and small hair pins, located on each side of fifth wheel, and remove gate transport pins (6) Fig. 3, located on each side about 3 feet in front of rear wheels. Pull gates out to about a 60 degree angle. By moving outer rear hydraulic levers (7) Fig. 1 forward, raise sills from transporting pin and swing them around until gate ears line up with ears (8) Fig. 3 on back of ride. Pin and secure. Remove mud sill bracetube (9) Fig. 1 & 3 from transport position and place in slotted ear (10) Fig. 1 located at lower gate ear. Place chain attached wedge in slot just behind slotted ear. CAUTION: DO NOT DRIVE WEDGE INTO SLOT UNTIL RIDE HAS BEEN LEVELED.
- (7) Remove fence sections (11) Fig. 2 from transport position and stack about 15 Ft. from ride. Remove platforms, platform ramps and ramp fence from back of ride and remove all parts, loose tools and other objects from inside of column.
- (8) At this stage, the cars may be lowered, provided all obstacles which damage the cars as they are lowered, have been removed from the area. Remove the column pin located on top of front leveling cylinder. Next, remove the two 3/4" pins (12) Fig. 2 attaching the bunkers to the column. Located on the engine side, between the two rear cars, is the over-center bunker lock (13) Fig. 3. Remove the safety pin and use the pipe lever supplied to pull handle out and up until lock pin and use the pipe lever supplied to pull handle out and up until lock pin out of the slot in the middle. NOTE: MAKE SURE HANDLE STAYS IN UPRIGHT POSITION OR IT WILL RELOCK. Raise the column very slowly by depressing the center rear valve lever (14) Fig.1 to lower the cars. When the cars reach the lowest position and stop, raise the column another six inches. Located behind the front leveling cylinder is the car bunker raising linkage (15) Fig. 1 To release this linkage, remove the two 1"pins and let it hang loose between the base channels. Lower the column back to the base.
- (9) In order to make the wheel assembly easier, you should level the sweeps both lengthways and sideways. To do this, raise the rear sills and lower the front leveling cylinder (1) Fig. 3. CAUTION: BE VERY CAREFUL AND WATCH THE FRONT CARS AS THEY CAN HIT THE GROUND. After you have leveled the sweeps, raise the sign (16) Fig. 3 & 4 into operating position.
- (10) To fold out the sweeps, you must first fold down the sweep transporting support (17) Fig. 3. To do this, remove the 3/4"pin, located on the column just above the left rear bunker support. Place the pipe lever on angled shair, located at end of sweep support, and pull up. CAUTION: BE SURE SOMEONE IS HOLDING ON TO THE SWEEPS AS THEY MIGHT SWING. Be sure sweep support folds down to column. You now remove the come-a-long (18) Fig. 3, which is hooked to the bottom side of the sweeps. CAUTION: THE OVER-CENTER CAR BUNKER LOCK (13) Fig. 3 MUST BE IN LOCKED POSITION BEFORE FOLDING OUT THE SWEEPS. Swing the right and left outer sweeps out at the same time, being carreful that the weight is equal on both sides at all times. Pull the sweeps around until the wheel is formed. Located at the center of each cross brace is a spring loaded pin (19) Fig. 4 with a lever. Line up the holes in the cross braces until the spring loaded pin can be inserted by folding the lever side-

ways. To assemble the master cross brace, you must first remove the rim safety cable (20) Fig. 2 from the transporting position and hook it into the eye (21) Fig. 1 at the end of the outer sweep. DO NOT SECURE AS IT WILL STRETCH THE CABLE. Now take the two long outer cross braces (22 & 23) Fig. 4 and place narrow one (23) through the wide one (22) until the pin holes line up. DO NOT SECURE SPRING LOADED PIN. Next, take the two short inner braces (24 & 25) Fig. 4 which have over-center locks on them and pin to each of the long outer braces. By using the pipe lever, pry the locks over center and insert safety pins. Remove the two cables (26) Fig. 4 attached to the inner end of outer sweeps, cross them and secure to the two hooks (27) Fig. 4 protruding from bottom center hub plate. The rim safety cable can now be secured.

- (11) You are now ready to level the ride for operation. You do this by levels located by the front leveling cylinder valve (2) Fig. 2 & 3 and by the cluster of three hydraulic levers (14 & 7) Fig. 1 in the back. The base should be raised high enough so there is no weight resting on the axle spring. The rear wheels need not be off the ground to do this.
- (12) Remove the cable shoes (28) Fig. 1 from the storage bin under the column base plate and pin to the sweeps. Make sure that all loose tools and other objects are removed from the fifth wheel plate and from the column. The mud sill safety chain (5) Fig. 3 should be put through the hole in the middle of the fifth wheel support plate and the caps connected to the air brake lines.
- (13) After checking for any overhead obstructions, such as power lines, overhead lights, etc., raise the column to a vertical position and secure to base plate with the 1" bolt supplied. Place sway brace hooks in slots (29) Fig. 2 in sides of column and secure sway brace rods to brackets (30) Fig. 1 on top of small mud sill gates.
- (14) To install drive cable, loop the cable over one cable shoe and secure in place with a piece of rope or wire. Then rotate the wheel and guide one side of the cable into the shoes while guiding the other side past the front of the wheel. The cable must be wrapped onto the drive as shown by the illustration. Tighten the cable until the slack is removed by unscrewing the tension member (31) Fig. 1 which extends from the drive wheel bracket to the inner left idler arm. The tension is adjusted properly when the spring plunger moves back and forthapproximately five eights of an inch while operating. Excessive tension is unnecessary and shortens the life of the cable. Never use any kind of mineral oil to lubricate the cable as this causes a rapid deterioration of the rubber in the cable shoes and the drive liner.
- (15) Remove all platform adjuster tubes (32) Fig. 1 and feet (33) Fig. 1 from belly pan in the middle of the base and place at back of ride. By using one of the adjuster tubes, locate the platforms so the corners will attach to the mud sill brace tubes in the hole (34) Fig. 1 provided. Place all other adjuster tubes with bases in holes provided provided. Place all other adjuster tubes with bases in holes provided on platform. Place platform spacer bars (35) Fig. 1 in hooks (36) Fig. 1 at each end of bumper by holding in a vertical position with the welded pin down. Then fold down and pin to platform and secure. Level platforms at same level where they hook to mud sill brace tubes. Remove control stand (37) Fig. 1 from belly pan, place in position on platform and secure with two 3/4" pins. Attach control rod (38) Fig. 1 to bottom lever of control stand and to bell crank (39) Fig. 1 located in rear pan. Connect emergency brake cable (+0) Fig. 1 to bell crank (41) Fig. 3 under right side of rear pan.
- (16) Install the cars on the spindles. Secure in place with the large washer, followed by the thick nut and lock with the chrome cap nut.
- (17) Set up fence and ticket booth according to the diagram.
- (18) Remove the belt from the hydraulic pump and hang on the clips provided on the bunker support.
- (19) Before operating, check all pins for safeties.



#### ROCK-O-PLANE ASSEMBLY INSTRUCTIONS

LOCATING THE COLUMN BASE: Move the column toward the rear of the truck until the rear dolly is near the edge of the truck bed. Remove the bolts from the column joint allowing the base to swing down to the ground. If the base still clears the ground, then the column may be rolled back until the rear dolly wheel drops off the truck.

(

INSTALLING THE MUD SILLS: When facing the wheel on the front side, the heavy mud sill belongs on front. The one with the fittings for the power unit goes on the right hand side. The two identical sills belong on the rear and left hand side of the column. Use the one inch taper point pins for attaching the sills to the column. A special long pin is provided for the bottom of the front mud sill. After attaching the sills, block them up until the column is in a vertical position with most of the weight on the blocks at the outer end of the sills. Additional blocks should be located at about the center of each mud sill.

LOCATING THE POWER UNIT: Back the power unit onto the right hand sill until the pins can be driven through the ears connecting the motor frame to the mud sill. To avoid having to jack the frame until it is level, a plank can be laid on the mud sill to form a ramp for the front wheel. Four adjustable legs are provided for supporting the power unit and there are four turnbuckles for anchoring it to the mud sill.

ASSEMBLING THE WHEEL: The wheel sweeps are held in place by the same type of drive pins as are used on the mud sills. When two sweeps have been attached, a pair of X-braces may be pinned between them with the 3/4 inchtaper point pin. To check on the correct position of the X-braces, see that the light stringer clips are on the top or face side of the wheel. The adjustable X-braces should be installed last and any slack is taken up with the turnbuckles which are a part of these braces.

INSTALLING THE LIGHT STRINGERS AND SIGN: By pushing on the end of the bolt in the light stringers, the spring can be compressed allowing the bolt head and washer to slide under the clip provided on the wheel sweeps and braces. The six foot stringers belong on the outer end of the sweeps and on the X-braces with the eight foot stringers next to the sign on the sweep. With the sign unfolded, lay it back side down on the center of the wheel with each bracket on the back side directly above a sweep. With the finger clamp straddling the pipe, hook the tips into the hole in the sign bracket and tighten the bolt.

RAISING THE WHEEL: A power winch with the aid of two double and a single block is the best method of raising the wheel; but a hand winch will do the job. (See the sketch showing details for the block and rope arrangement.) The gin pole made of four inch pipe is attached to the column just above the flanged coupling and is held in a vertical position by a 7/8 inch rod bolted or pinned at the other end to an ear provided on the column. The hydraulic jack at the base of the column is primarily for tipping the column back when the wheel—ls being towered. It can also be used to let the wheel drop into place gently as the column reaches the upright position when it is being raised. To do this, the jack should be extended about five inches above the edge of the column before raising, then, by operating the control vaive, the column can be eased gently into the upright position; however, this requires extreme caution in operating the valve.

INSTALLING THE BRACES ON THE COLUMN: Three rods are provided to hook into the three keyholes on the sides and rear of the column and to slip through holes in the side and rear mud sills. Secure in place by tightening nuts on the lower end of these rods.

SETTING UP THE LOADING PLATFORM: The loading platform consists of two elevated end sections with a connected cat-walk and a ramp up to each of these three sections. A T-shaped member with a base plate is provided for bolting to the front mud sill and supporting the center portion of the platform which is supported on the end by legs to the ground. These legs are adjustable by means of a short piece of pipe which slips over the upper end of the leg and is attached to the platform by rail post which extends through a tube of the platform into the adjusting pipe. Hook the end sections to the center section and support at the outer end with legs. The ramps are hooked to the platform and supported in the center with short adjustable legs. The tie rod is bolted to the right hand mud sill and to the base of the control stand.

INSTALLING THE CONTROLS: Bolt the control stand to the operator's platform with the brake handle pointing toward the front when it is engaged in the ratchet. Plug the small cord from the motor into the receptacle at the base of the control stand. Connect the long brake rod from the bell crank on the mud sill to the control stand and the short one to the brake lever on the motor.

INSTALLING THE DRIVE CABLE SHOES: The drive cable shoes are attached to the ends of the sweeps by slipping the pins into the holes provided in the sweep and at the same time lifting them up where the taper pin can be driven in holding them in place.

PUTTING ON THE DRIVE CABLE: Loop the cable over the cable shoe and secure in place with a piece of rope or wire, rotate the wheel and guide one side of the loop into the shoes while the other side swings past the front of the wheel. The cable must be wrapped onto the drive wheel as shown by the illustration. Tighten the cable only tight enough to remove the slack. While the machine is running, sufficient cable tension can be obtained by tightening the turn-buckle by hand without the aid of any tools provided the threads are clean and lubricated. Excessive tension is unnecessary and shortens the life of the cable. Never use any kind of mineral oil to lubricate the cable as this causes a rapid deterioration of the rubber shoes and liners.

INSERTING THE CAR SPINDLES: Slide the car spindles in bearings on the ends of the sweeps from the inside and lock the set screws in the bearings.

PUTTING ON THE CARS: By leaving the outside rail off the exit ramps, the cars can be carried up and slid onto the spindles by two men. Secure in place with the large washer followed by the thick nut, and lock with the cap nut.

Some operators may find it more convenient to assemble the Rock-O-Plane in a different order than described in the preceding text; for instance, those with limited lifting power may find it better to assemble the wheel after the column has been raised. The hoisting of the aweeps and the X-braces can be done by throwing a rope over the wheel hub and using a hoisting drum or 'higger-head' on the power unit. A block and tackle or a truck can be used for rotating the wheel he it is being assembled.

#### **OPERATING THE ROCK-O-PLANE**

To start the gasoline engine, press the button on the control stand. The button with the guard is for starting and the other is for stopping the engine.

All that is necessary for starting the ride is to release the brake lever. The wheel should be operated at not more than nine revolutions per minute. The governor on the motor is adjusted at the factory for the proper speed. One of the reasons for installing the starter on the ride is to make it convenient to stop the motor rather than let it idle for a long period of time. This, besides being a saving on fuel eliminates any overheating of the hydraulic coupling; however, it is not necessary to stop the motor when loading the cars. Idling speed of the engine should be kept as low as possible

to avoid overneating of the fluid couplings.

To operate the electric model, the switch on the control stand is turned to the "automatic" position which brings the switch on the brake lever into operation. The ride can now be fully controlled by the brake lever. In an emergency, the ride can be operated with the control stand switch.

The safety belts in the cars should be left slack enough to clear the bar about two inches when pulled toward the bar at the center. A safety clip is provided for inserting in the hasp in the end of the safety bar to insure against the door coming open when the ride is in operation.

#### LUBRICATION

All moving joints and sliding parts of the safety bar and its tie rod should be kept oiled. All bearings on the Rock-O-Plane are of the anti-friction type with adequate seals provided. Lubricating these bearings with a grease gun loaded with ball bearing grease every one hundred hours of operating should be sufficient. The hydraulic coupling or fluid drive unit should have its oil level maintained at a point where it will operate with an unbalanced load and will also idle without excessive drag. This unit requires special oil which may be obtained at any garage handling Chrysler products. If any lease

was swith should be taken to one of these garages for maintenances as it requires special tools to replace the seal.

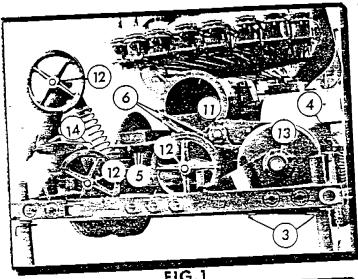
Read your instruction book for the Allis-Chalmers power unit for lubrication and maintenance information.

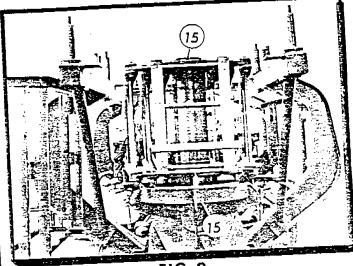
Do not lubricate the drive cable with any kind of mineral oil as this causes rapid deterioration of the rubber shoes and drive wheel liners.

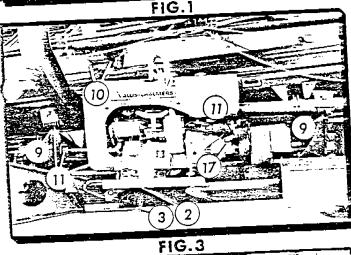


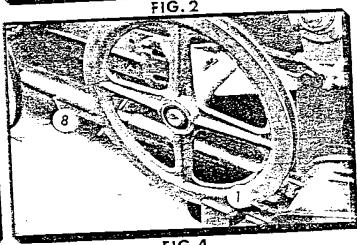


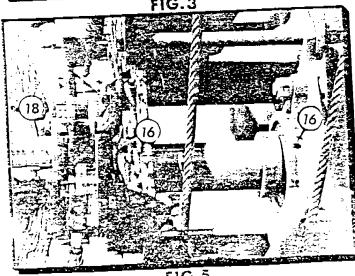
## LUBRICATION INSTRUCTIONS











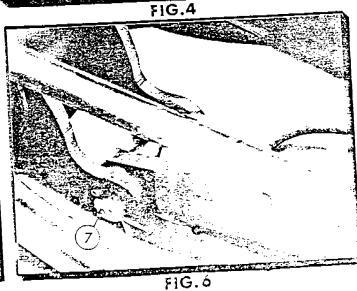
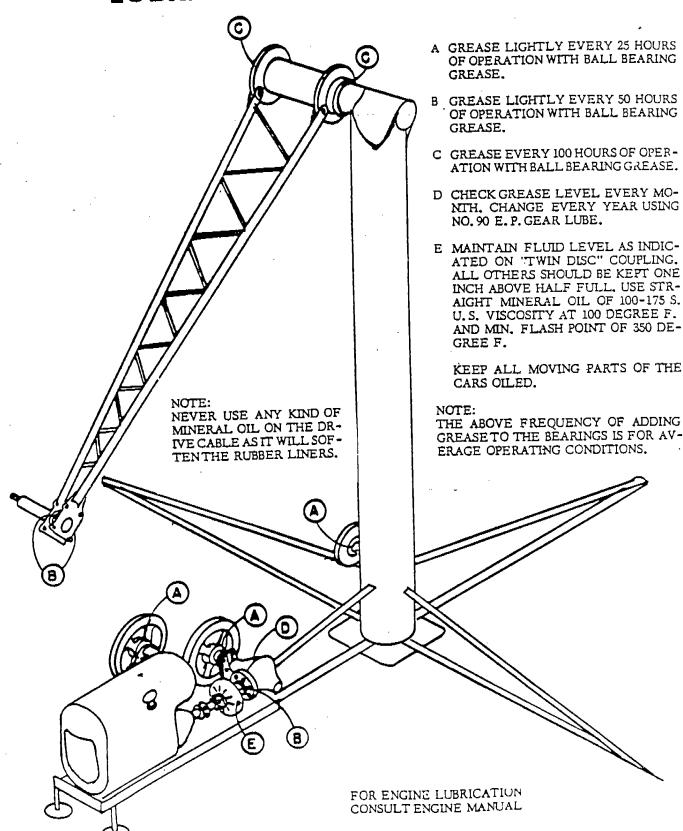


FIG.5



### LUBRICATION INSTRUCTIONS





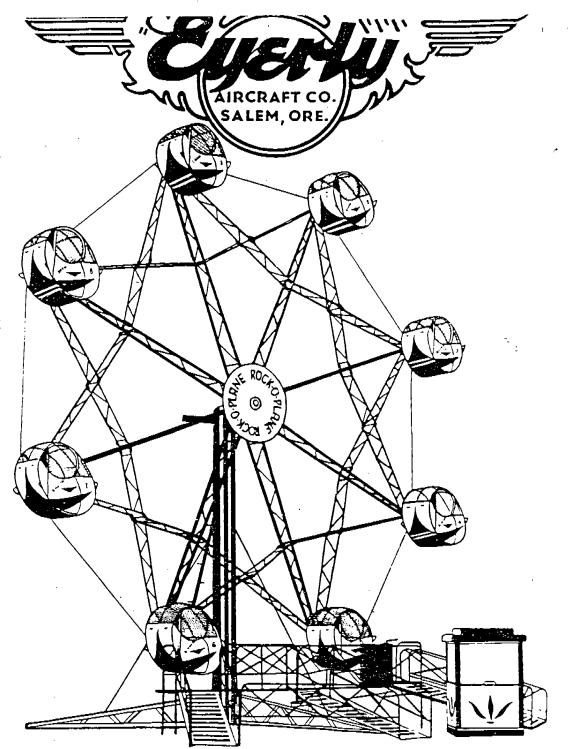
LUBRICATION INSTRUCTIONS

REF!	<b>LUBRICATION II</b>	ì	TYPE OF BEARING	WHEN TO .
NO.	NAME OF PART	FIG.		
1	CLUTCH BRAKE LEVER	4	BRONZE	A
2	CLUTCH LEVER	3	BRONZE	A
3	ROD ENDS	1 & 3	MONO BALL	С
4	OUTER HYD. CONTROL BEARINGS	1.	BRONZE	С
5	INNER HYD. CONTROL BEARINGS	1	BRONZE	В
6	COLUMN HINGE PINS	1	HARD CHROME	В
7	LONG CYLINDER PIN	6	HARD CHROME	В
	CABLE TENSION ADJUSTMENT	4	BRONZE	В
8	CAR BUNKER SUPPORTS	3	STEEL	В
9	SWEEP SUPPORT BEARING	3	BRONZE	В
10	COUNTERSHAFT BEARINGS	1 & 3	ANTI-FRICTION	D
11		1 1	ANTI-FRICTION	D
12	IDLER SHEAVE BEARINGS		ANTI-FRICTION	D
13	DRIVE SHEAVE BEARINGS	1	ANTI-FRICTION	D
14		<del></del>	- ANTI-FRICTION	
15	WHEEL HUB BEARINGS	2		
16	CAR SPINDLE BEARINGS	5	ANTI-FRICTION	
17	ENGINE CLUTCH SHAFT BEARING	3	ANTI-FRICTION	
18	BRAKE CONTROL BEARING	5	STEEL	E
18	BRAKE CONTROL BEARING	5	STEEL	

USE A MULTI-PURPOSE WATER RESISTANT GREASE WITH AN ACCEPTED EXTREME PRESURE ADDATIVE.

- DAILY OR EVERY EIGHT HOURS DURING HEAVY OPERATIONS. (A)
- EVERY SET-UP (B)
- APPLY LIGHT OIL EVERY SET-UP (C)
- EVERY THREE MONTHS \* (D)
- OIL DAILY (E)
  - KEEP LIGHT RINGS FREE OF ALL GREASE & FOREIGN MATERIALS. KEEP ALL MOVING PARTS OF CAR & CONTROL STAND LUBRICATED.
  - \*NOTE: THE ABOVE FREQUENCY OF GREASING THE BEARINGS IS FOR AVERAGE OPERATING CONDITIONS WITH SEALS INTACT.

SEE ALLIS-CHALMERS OPERATION & MAINTENANCE MANUAL FOR SERVICE OF G-138 ENGINE.



## ROCK-O-PLANE PARTS CATALOG



P.O. BUX 12155 2050 TURNER RD., S.E. SALEM, OREGON 97309 (503) 399-7706

SALES AND SERVICE

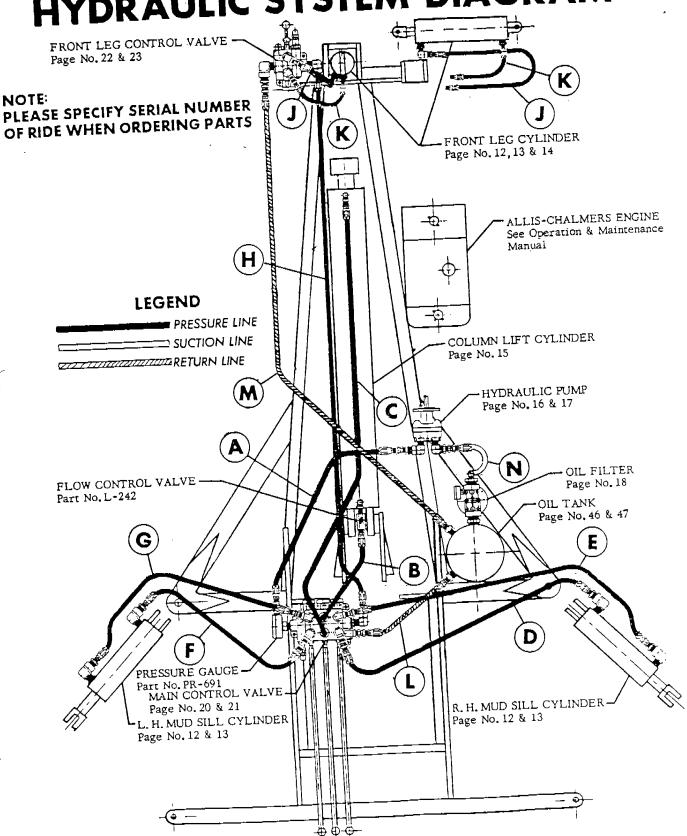
#### PORTABLE POCK-O-PLANE

#### INSTRUCTIONS FOR MAINTAINING THE HYDRAULIC SYSTEM

- CHECK FLUID SUPPLY LEVEL. 1.
  - A. EACH TIME THE RIDE IS SET UP.
  - BRING UP TO CORRECT LEVEL APPROXIMATELY 3" TO 4" FROM TOP OF TANK WITH CYLINDERS RETRACTED WITH A TURBINE TYPE OIL WITH OXIDATION, CORROSION AND FOAM INHIBITORS.
- 2. CHECK FOR EXTERNAL LEAKS. A. KEEP SURVEILLANCE CHECK.
- CHANGE HYDRAULIC FLUID. A. IF COLOR CHANGES (DRAIN TANK).
  - B. ONCE A YEAR DRAIN SYSTEM.
- FILTER 4.
  - A. CHANGE OR CLEAN EACH SEASON.
  - IF PRESENCE OF WATER OR EMULSIFICATION OF OIL IS NOTED COMPLETELY DRAIN AND FLUSH SYSTEM.
- TO MINIMIZE MOISTURE ACCUMULATION BE CERTAIN OIL RESERVOIR AND CYLINDER ARE FULL DURING PERIODS OF EXTENDED STORAGE. 5.
- DRAINING SYSTEM
  - A. RETRACT ALL CYLINDERS.
  - DRAIN OIL RESERVOIR.
  - REPLACE FILTER.
  - FILL OIL RESERVOIR WITH PROPER OIL (SEE 1-8). С.
  - REMOVE THE HYDRAULIC LINE FROM THE HEAD END OF THE COLUMN LIFT ο.
  - EXTEND THE LIFT CYLINDER AND DISCARD THE OIL PETURNING FROM THE
  - PE-CONNECT THE HYDRAULIC LINE TO THE HEAD END OF THE CYLINDER. HEAD END.
  - PETRACT THE LIFT CYLINDER AND CYCLE SEVERAL TIMES TO ELIMINATE G. н. AIR IN THE SYSTEM.
  - CHECK RESERVOIR TO MAINTAIN ADEQUATE OIL.
  - USE THE SAME PROCEDURE FOR RIGHT HAND AND LEFT HAND MUD SILL
    - CYLINDERS AND THE FRONT LEG CYLINDER.
  - K. IF THE SYSTEM IS TO BE FLUSHED OPERATE ALL CYLINDERS FOR 15 TO 20 MINUTES THEN PEPEAT STEPS A TO J.



## HYDRAULIC SYSTEM DIAGRAM





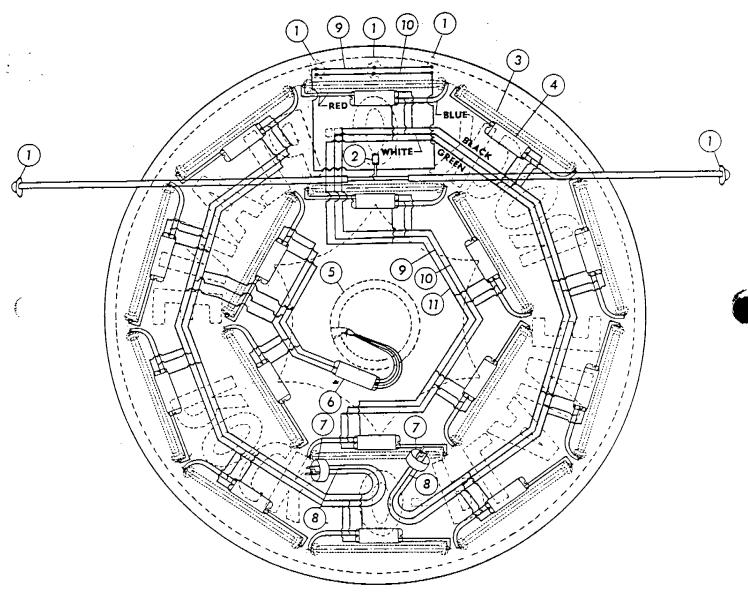
### HYDRAULIC SYSTEM DIAGRAM

ì	_	HIDRACLIC 5	INO.	<b>,</b> !	PART	NAME OF PART	ZO.
REF	PART NO.	NAME OF PART	9.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00	REF.	<u>NO.</u>		十一
A	PR-694	1/2" HOSE ASSEMBLY (Pump to Main Control Valve) (57-1/2" Long)	1	н	PR-701	1/2" HOSE ASSEMBLY (Main Control Valve to Front Leg Control Valve) (113" Long)	1
В	PR-695	1/2"HOSE ASSEMBLY (Bottom of Column Cylinder to Main Control Valve) (48" Long)	1	J	PR-702	5/16" HOSE ASSEMBLY (Bottom of Front Leg Cylinder to Control Valve) (36" Long)	1
c	PR-696	1/2" HOSE ASSEMBLY (Top of Column Cylinder to Main Control Valve) (9 Ft6" Long)		K	PR-703	5/16" HOSE ASSEMBLY (Top of Front Leg Cylinder to Control Valve) (15" Long)	1
, <del>_</del>	PR-697	1/2" HOSE ASSEMBLY (Bottom of R. H. Mud Sill Cylinder to Main Control Valve) (90-1/2"Long)		L	PR-704	1/2" HOSE ASSEMBLY (Main Control Valve to Oil Tank) (57-1/2" Long)	1
<u>.</u> E	PR-698	1/2" HOSE ASSEMBLY (Top of R. H. Mud Sill Cyl-	$\frac{1}{1}$	M	PR-705	1/2"HOSE ASSEMBLY (Front Leg Control Valve to Oil Tank) (145" Long)	1
F	PR-699	inder to Main Control Valve) (108" Long)  1/2" HOSE ASSEMBLY (Bottom of L. H. Mud Sill	1	N	PR-682	1/2" HOSE ASSEMBLY (Pump to Oil Filter) (15" Long)	1
-	PR-700	Cylinder to Main Control Valve) (55" Long)  1/2" HOSE ASSEMBLY (Top of L. H. Mud Sill Cylinder to Main Control Valve) (71-1/2" Long)	1		<u> </u>		



### SIGN WIRING DIAGRAM

NOTE: PLEASE SPECIFY SERIAL NUMBER OF RIDE WHEN ORDERING PARTS



NO. 1 MARKER LIGHT (KD524A-12) NO. 2 PLUG (12 VOLT) (#215 POLLOCK) NO. 3 FLHORESCENT LAMP (F15T12)

NO. 4 FLUORESCENT BALLAST (GE-6G3560)

NO.5 CIRCLINE LAMP (FC12T10CW)

NO. 6 CIRCLINE BALLAST (RLOCS-140)

NO.7 PLUG (110 VOLT) (7572)

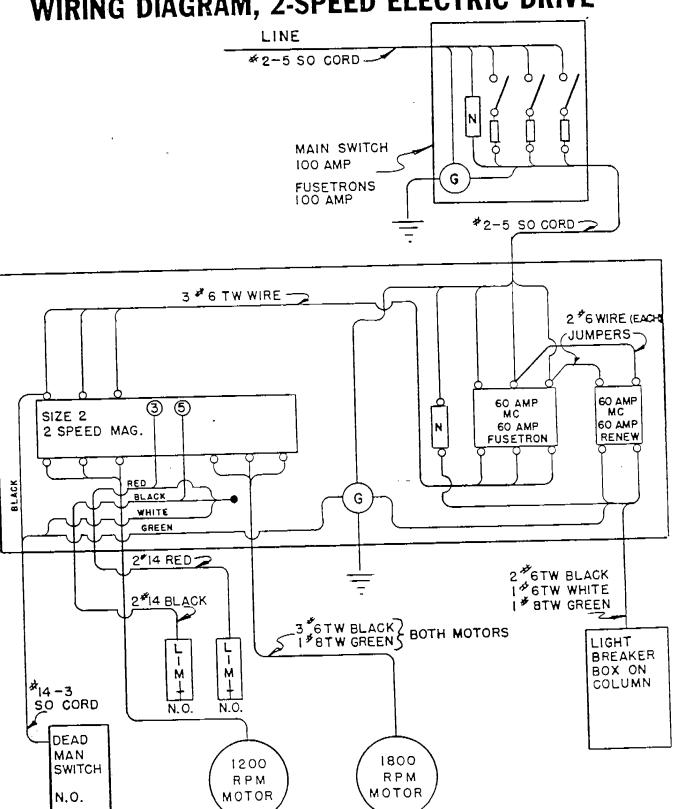
NO.8 CORD (#16/3 SJ) NO.9 WIRE (WHITE #16)

NO. 10 WIRE (BLACK #16)

NO. 11 WIRE (GREEN =16)



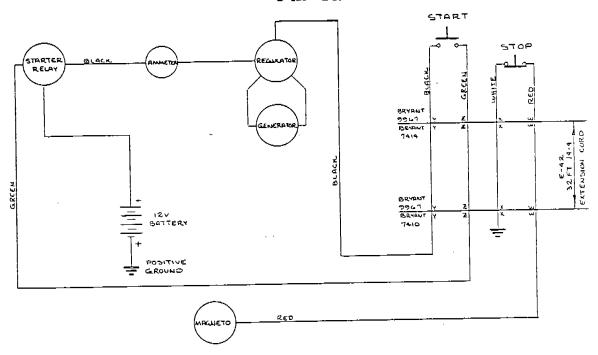
### WIRING DIAGRAM, 2-SPEED ELECTRIC DRIVE





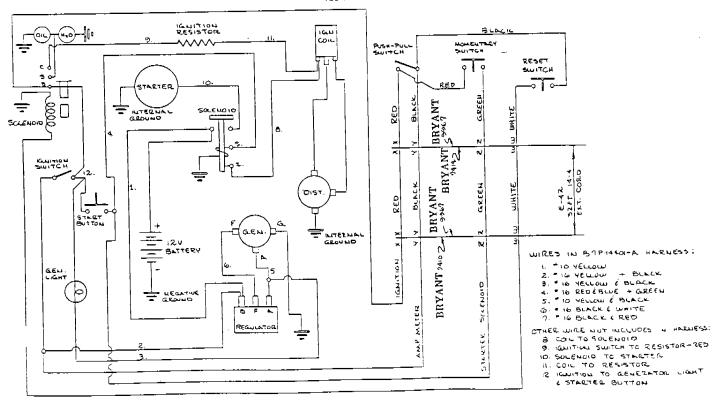
### GAS DRIVE WIRING DIAGRAM

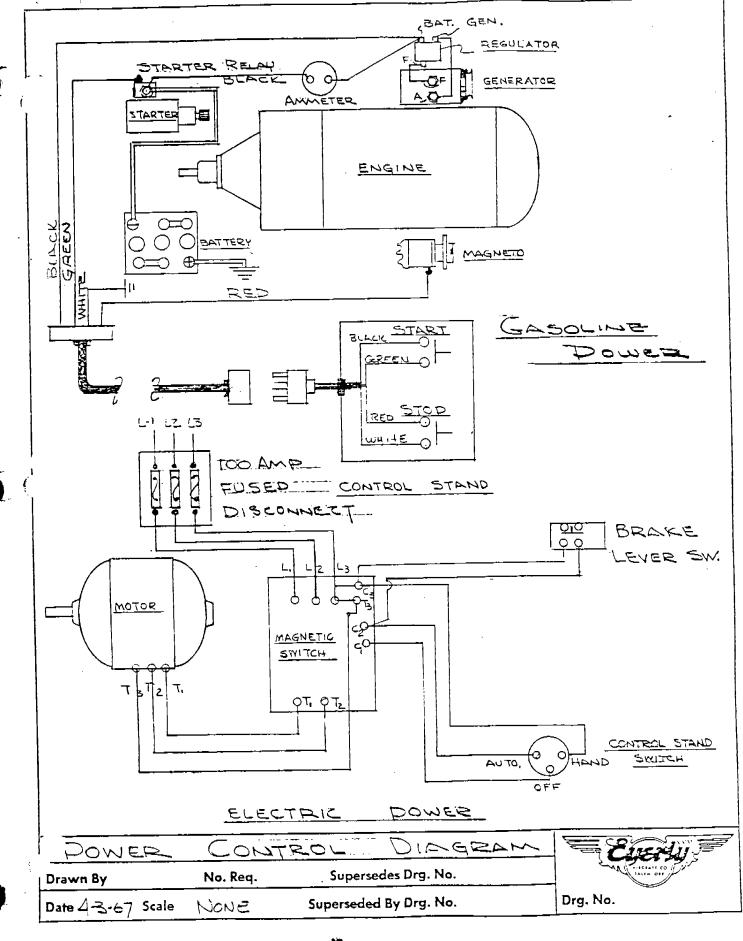
(Allis-Chambers W/Magneto) B-125 G-138



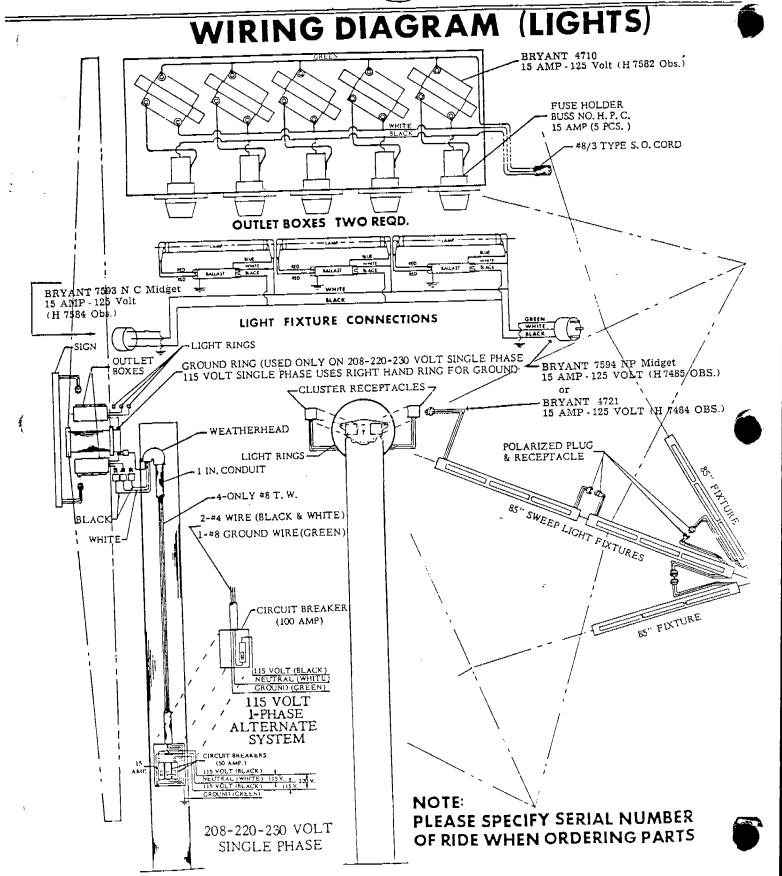
### FORD POWER UNIT-w/DISTRIBUTOR

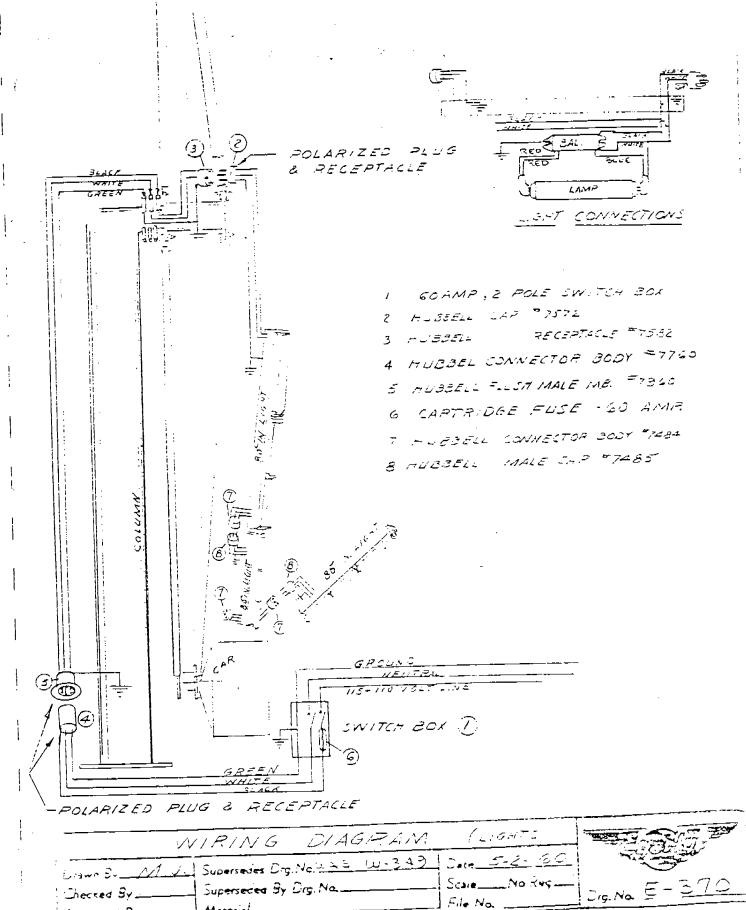
(134 & 172 Cu. In.)











Macarial\_

Approved By -



### 10 WIRING DIAGRAM OF RUNNING LIGHTS 909 909 NOTE: PLEASE SPECIFY SERIAL NUMBER OF RIDE WHEN ORDERING PARTS YELLOW 2 WIRE 14 GAGE CORD Lto marker lights on sign #1 WHITE (Ground) WIRE 10-12 GAGE CORD. BLUE BROWN WIRES BLOCKED OFF. #6 BROWN (Not Used) #2 BLACK 5 GREEN #3 YELLOY #7 BLUE (Not Used) BLACK 3 WIRE 14 GAGE CORD 3 WIRE 14 GAGE CORD BLACK GREEN WHITE MARKER LIGHTS STOP & TAIL LIGHTS LICENSE PLATE LIGHT RIGHT TURN LIGHT

MARKER LIGHT-

STOP & TAIL LIGHTS

LEFT TURN LIGHT

MARKER LIGHT

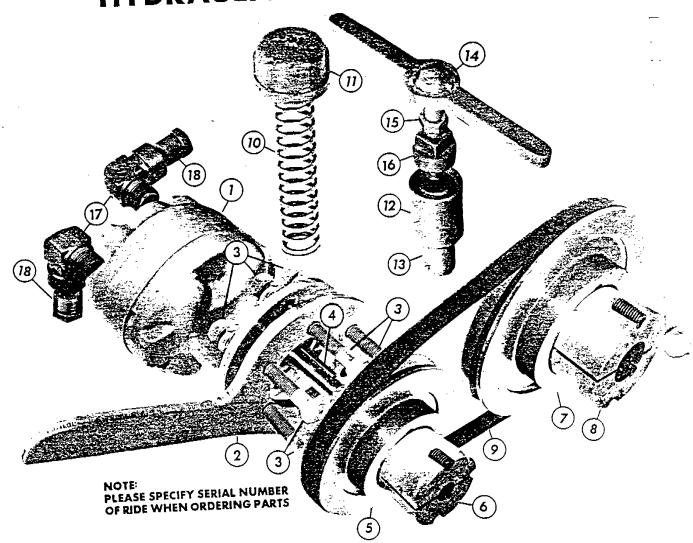


# DIAGRAM OF AIR BRAKE CONTROLS

								<u> </u>					
				- <del>(</del>					• *				
REI NO	F.I	PART NO.	NAME OF PART R	<u>192</u>				OTE:					
1	7	L-456	AIR COUPLER	2			\ D	LEASI	E SPE	CIFY	SERIA	AL NL	IMBER'
2	1	L-456D	AIR COUPLER DUMMY	2		11 11		F RID	E WH	EN O	RDE	RING	PARTS
3	1	PR-66	PIPE (1/2")	2_									
4		PR-66A	ELL (1/2")	2	5			_					
5	,	PR-66B	PIPE BUSHING (1/2"to 1/4")	2				∕ ]					
-	5	L-453	REMOTE CONTROL VALVE	1				- n					
_	7	L-325	AIR CHAMBER	2	_			.					
(	J	PR-737	AIR HOSE ASSEMBLY	2		11				ιττ		4/7/	Design of
_	9	PR-738	AIR HOSE ASSEMBLY	2	_			===	1				
-	*	L-453F	STREET ELL (1/4" Brass)	3	_			/ =/=)			9		
	*	PR-739	PIPE BUSHING (3/8" to 1/4")	1	_	14 ' 11 11 11 11 11 11 11 11 11 11 11 11 11		/	-	L.			2
-	*	PR-740	PIPE COUPLING (3/8")	1	_ 4	11		<u>X</u>		=			
-	*	PR-76	2 HYD. NIPPLE (3/8" Air Fitting)	1	_ ///	1				-			
-	*	Not Illust	trated.		W M	1		11/11		<u>`</u>			
			-	(		<i>≱</i>	¦	#1	<u>-</u> }-				
				-	_ \								
					_ 6				)				
					(7)	TIL-	<del>- 1-</del>						
				÷		<u> </u>	<del>///</del>			-			
				-€			+>						
			•	_				4)-(5)	/ <u>                                    </u>				
				ŀ	<u> </u>				, <u></u>				



## HYDRAULIC PUMP ASSEMBLY





### HYDRAULIC PUMP ASSEMBLY

REF.	PART NO.	NAME OF PART	NO. REQ.
1	PR-789	PUMP ASSEMBLY	1
2	L-371	PUMP MOUNTING PLATE	1
3	L-371A	MOUNTING BOLT ASSEMBLY	6_
4	L-249B	PUMP SHAFT KEY	1
5	L-250	PUMP SHEAVE	1
6	L-250A	PUMP SHEAVE BUSHING	1
7	L-249	COUNTERSHAFT SHEAVE	1
ã	PR-33A	COUNTERSHAFT SHEAVE BUSHING	1
ò	L-251	PUMP BELT	1
10	L-372	BELT TENSION SPRING	1

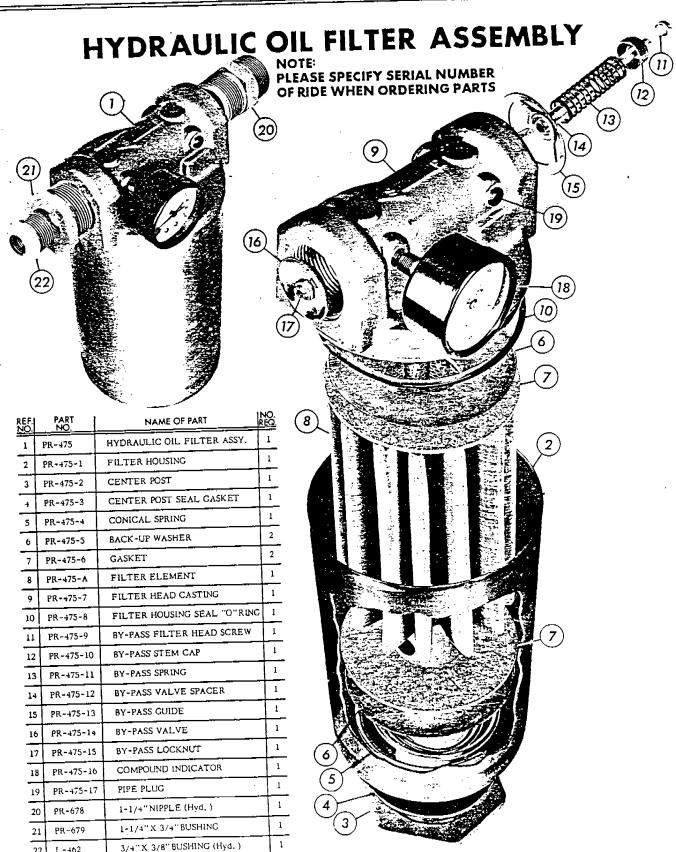
REF.	PART NO.	NAME OF PART	NO.
11	L-373	BELT TENSION SPRING CAP	1
12		PIPE COUPLING (1")	1
13	PR-784	SPACER	1
14	PR-786	BELT TIGHTENER HANDLE	1
15	-	NUT (1/2" 13 NC)	1
16	PR-788	MODIFIED PIPE PLUG	1
17	PR-763	3/4" STREET ELL (Hyd.)	2
18	L-462	3/4"X 3/8" BUSHING (Hyd.)	2
*	L-33B	COUNTERSHAFT KEY	1

<sup>\*</sup> Not Illustrated.

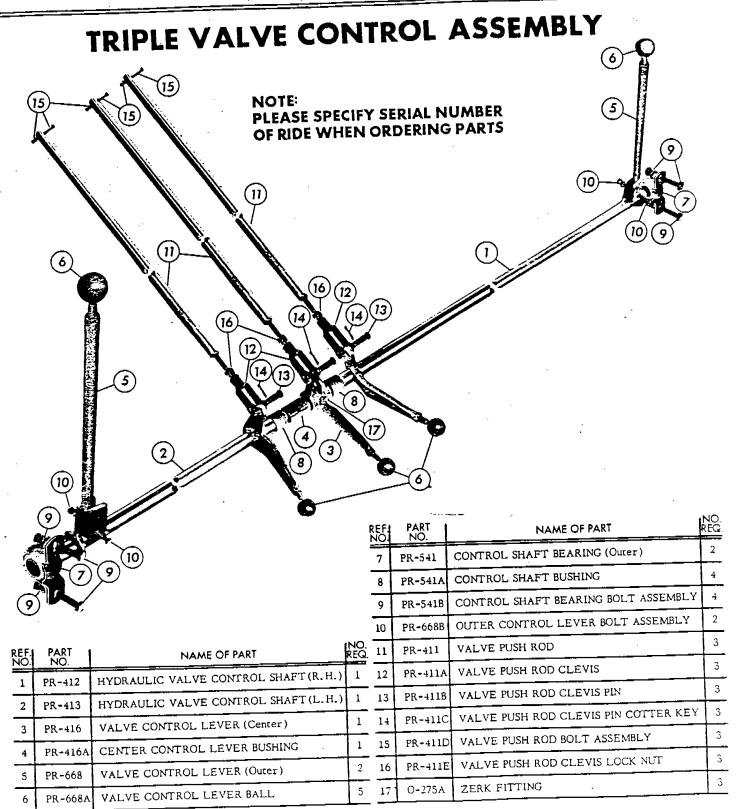
NOTE:

Should major repairs become necessary on this unit, we recommend that you return it to us for replacement on an exchange basis.



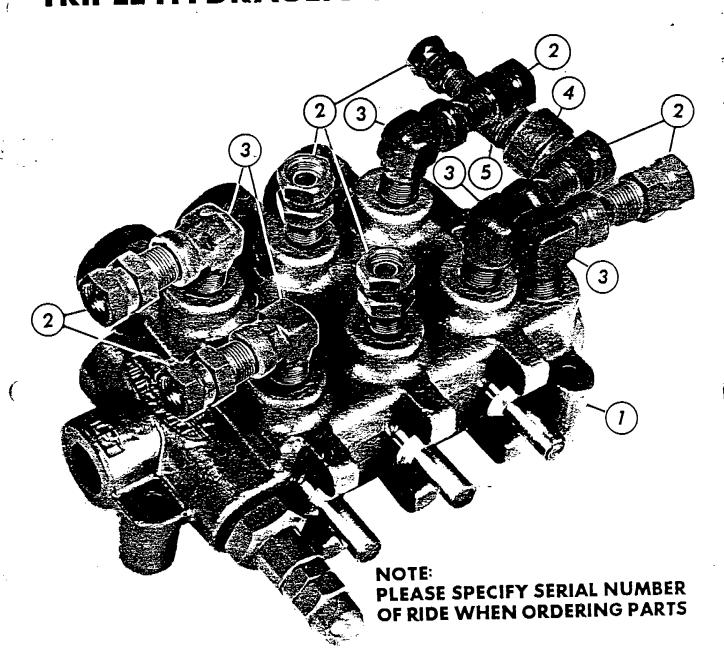








## TRIPLE HYDRAULIC VALVE ASSEMBLY





## TRIPLE HYDRAULIC VALVE ASSEMBLY

REF.	PART NO.	NAME OF PART	20. REG.
1	PR-76	CONTROL VALVE ASSY. (3 Spool)	1
2	PR-680	3/8"HOSE SWIVEL (Hyd.)	8
3	PR-500	3/8"STREET ELL(Hyd.)	5_

REF.	PART NO.	NAME OF PART	ZO. REQ.
4	PR-763	3/4"STREET ELL(Hyd.)	1
5	L-462	3/4"X3/8"BUSHING(Hyd.)	1



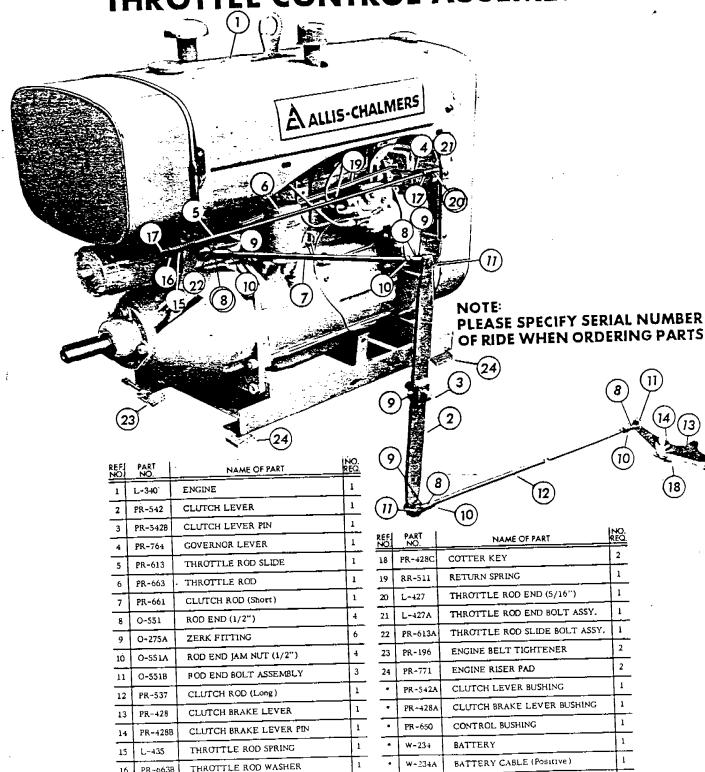
## FRONT LEG CONTROL VALVE ASSEMBLY

1	REF NO:	PART NO.	NAME OF PART	NO. REQ.
Ξ	1	L-241	CONTROL VALVE ASSY.	1
-	2	PR-763	3/4"STREET ELL(Hyd.)	2
. •	3 .	L-462	3/4" X 3/8" BUSHING (Hyd.)	2
-	4	PR-680	3/8"HOSE SWIVEL (Hyd.)	2

	REF.	PART NO.	NAME OF PART	NO. REQ.
•	5	PR-500	3/8"STREET ELL(Hyd.)	2
	6	PR-690	3/8"X1/4"BUSHING(Hud.)	.2
	7	PR-689	1/4"HOSE SWIVEL(Hyd.)	2



#### THROTTLE CONTROL ASSEMBLY



2

W-234B

BATTERY CABLE (Negative)

THROTTLE ROD NUT

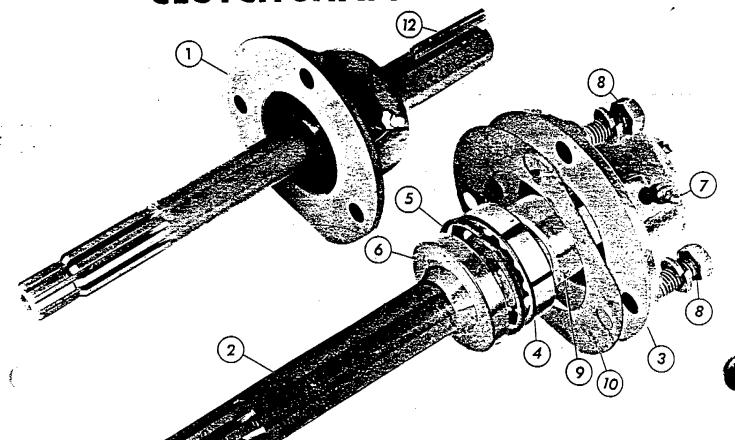
PR-063B

16

<sup>·</sup> Not Illustrated.



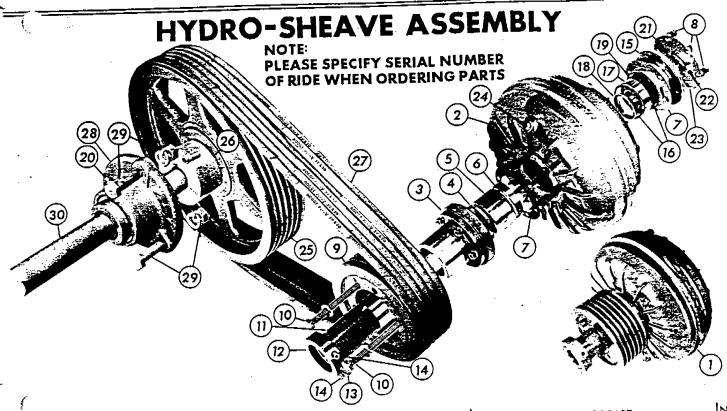
### **CLUTCH SHAFT ASSEMBLY**



NOTE:
PLEASE SPECIFY SERIAL NUMBER
OF RIDE WHEN ORDERING PARTS

PART	NAME OF PART	NO.	REF.	PART NO.	NAME OF PART
L-472	CLUTCH SHAFT ASSEMBLY	1	7	O-275	ZERK FITTING
L-476F	CLUTCH SHAFT	1	8	L-476B	CAP SCREW & LOCKWASHER
L-476	BEARING HOUSING	1	9	L-476G	SPACER SLEEVE
W-241	BEARING (Outer)	1	10	L-476A	BEARING HOUSING GASKET
L-476D	BEARING SNAP RING	1	11	L-476H	PILOT BEARING
L-476E	BEARING OIL SEAL	1	12	PR-765	CLUTCH SHAFT KEY
	PART NO.  L-472  L-476F  L-476  W-241  L-476D	PART NO. NAME OF PART  L-472 CLUTCH SHAFT ASSEMBLY  L-476F CLUTCH SHAFT  L-476 BEARING HOUSING  W-241 BEARING (Outer)  L-476D BEARING SNAP RING	PART NO.         NAME OF PART         NO. REQ.           L-472         CLUTCH SHAFT ASSEMBLY         1           L-476F         CLUTCH SHAFT         1           L-476         BEARING HOUSING         1           W-241         BEARING (Outer)         1           L-476D         BEARING SNAP RING         1	PART NO.         NAME OF PART         NO. REF. REQ. NO.           L-472         CLUTCH SHAFT ASSEMBLY         1         7           L-476F         CLUTCH SHAFT         1         8           L-476         BEARING HOUSING         1         9           W-241         BEARING (Outer)         1         10           L-476D         BEARING SNAP RING         1         11	PART NO.         NAME OF PART         NO. REG. NO.         PART NO.           L-472         CLUTCH SHAFT ASSEMBLY         1         7         O-275           L-476F         CLUTCH SHAFT         1         8         L-476B           L-476         BEARING HOUSING         1         9         L-476G           W-241         BEARING (Outer)         1         10         L-476A           L-476D         BEARING SNAP RING         1         11         L-476H



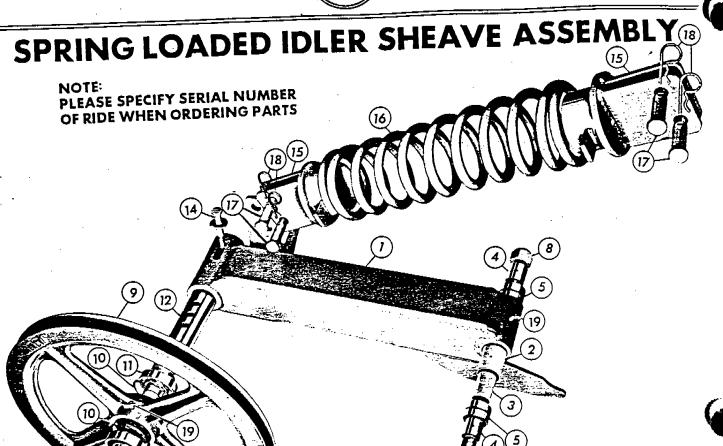


RI	F.	PART NO.	NAME OF PART	NO. REQ.	
=	1	PR-40	HYDRO-SHEAVE ASSEMBLY (Less Sheave)	1	
	2	PR-561	HOUSING & IMPELLER ASSEMBLY	1	
-	3	PR-562	SHEAVE HUB	1	
-	4	PR-563	OIL SEAL (Outer)	1	
-	5	PR-564	NEEDLE BEARING	1	
-	6	W-329	OIL SEAL (Inner)	1	
•	7	W-260	IMPELLER GASKET	2	
•	8	L-284C	NUT & LOCKWASHER ASSEMBLY (Sheave Hub & Bearing Carrier)	12	
•	9	PR-41	SHEAVE	1	
	10	PR-565	CAP SCREW ASSEMBLY (Sheave)	3	_
	11	PR-566	SHAFT	1	_
	12	PR-567	CLAMP RING	1	_
	13	PR-568	SET SCREW (Long)	1	_
į	4	PR-569	SET SCREW (Short)	2	_
	15	W-259	BEARING CARRIER	1	_
	16	W-266	SNAP RING	2	_
	_				

REF NO.	PART NO.	NAME OF PART	NO. REQ.
17	W-258	BEARING	1
18	PR-570	SPACER	1
19	W-328	"O" RING	. 1
20	O-275	ZERK FITTING	3
21	W-273	LOCKWASHER	1
22	W-264	NUT	1
23	PR-571	COVER PLATE	1
24	PR-572	PIPE PLUG	2
25	PR-33	COUNTERSHAFT SHEAVE	1
26	PR-33A	COUNTERSHAFT SHEAVE BUSHING	1
27	PR-36	"V" BELT (3V-630)	6
28	PR-45	COUNTERSHAFT FLANGE UNIT	3
29	PR-45B	FLANGE UNIT BOLT ASSEMBLY	9
30	PR-44	COUNTERSHAFT	1
-	PR-33B	COUNTERSHAFT SHEAVE KEY	1
_	W-263	IMPELLER KEY	1
_	_		

<sup>\*</sup> Not Illustrated



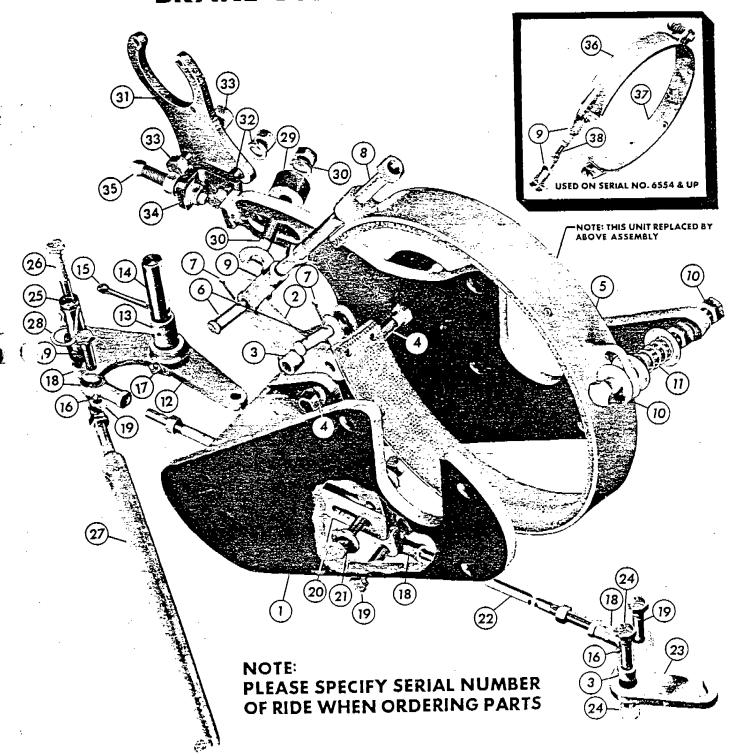


1	PART 1	NAME OF PART	NO.
1	PR-12	IDLER ARM	1
2	PR-552	IDLER ARM BEARING SPACER (Outer)	1
3	PR-551	IDLER ARM BEARING SPACER (Inner)	1
4	PR-511	IDLER ARM BEARING INNER SLEEVE	2
5	PR-511A	IDLER ARM BEARING OUTER SLEEVE	2
	PR-601	IDLER ARM BEARING THRUST COLLAR	1
<del></del>	PR-657	IDLER ARM BOLT	1
·	PR-657A	IDLER ARM BOLT NUT	1
9	PR-310	SHEAVE	1
10	W-242	SHEAVE BEARING SNAP RING (Inner)	2

	EF.	PART NO.	NAME OF PART	NO.S
=	11	W-241	SHEAVE BEARING	2
•	12	W-27	SHEAVE SHAFT	1
•	13	W-240	SHEAVE BEARING SNAP RING (Outer)	1
	14	W-27A	SHAFT RETAINER BOLT ASSEMBLY (Bolt, 2 Flat Washers, Lockwasher & Nut)	1
	15	PR-313	IDLER SPRING BASE	2
_	16	PR-510	IDLER SPRING	1
	17	W-83	TAPER PIN (3/4")	÷
_	18	<del></del> -	TAPER PIN SAFETY KEY	÷
_	19	} <u> </u>	ZERK FITTING (Straight)	ر ح
		10 2707		4



#### **BRAKE CONTROL ASSEMBLY**



1

1

1

1

1

1

1



### BRAKE CONTROL ASSEMBLY

	REF!	PART	NAME OF PART	NO. REQ.	REF.	PART NO.	NAME OF PART	NO. REQ.
=	NO.	NO.	DRIVE UNIT ASSEMBLY	1	21	PR-544A	BRAKE LINK BOLT ASSEMBLY	1
_	1	PR-10		1	22	PR-665	BRAKE ROD	1
	2	PR-245	BRAKE LEVER		23	PR-549	FOOT BRAKE BELL CRANK	1
	3	PR-650	BUSHING				CRANK POLT	
•	4	PR-245A		1	24	PR-549A	ASSEMBLY	1
	5	PR-61	BRAKE BAND (Replaced By No. 36 PR-796 (See Note (A) Below)	1	25	PR-527	CONTROL ROD ANCHOR	1
	6	O-294A	CLEVIS PIN (See Note (D))	2 or 3	•	PR-527A	CONTROL ROD ANCHOR BOLT ASSEMBLY	1
	7	O-294B	CLEVIS PIN COTTER (See Note (D))	2 or 3	3 <del></del> 27	PR-635	CONTROL STAND ROD ASSY.	1
	8	PR-617	BRAKE BAND ROD ASSEMBLY (Use With PR-61 Brake Band)	1	28	W-83A	SAFETY KEY	1
		0-294	BRAKE BAND ROD CLEVIS	1 or	29	PR-612	DRIVE UNIT SPACER BLOCK	1
	9	0-294	(See Note (C) Below)	2	30	PR-612/	DRIVE UNIT SPACER BLOCK	
	( -	PR-61B	BRAKE BAND GUIDE BOLT ASSY.	1	_		BOLT ASSEMBLY	+-
	11	PR-61C	BRAKE BAND GUIDE BOLT SPRING	3 I	31	PR-621	BOLT ADJUSTING PLATE (Upper)	<del>                                     </del>
	12		CLUTCH BRAKE LEVER	1	32	PR-621	BOLT ADJUSTING PLATE BOLT ASSEMBLY (Long)	
	13	PR-428.	A CLUTCH BRAKE LEVER BUSHING	1	33	PR-621	A BOLT ADJUSTING PLATE BOLT	T.
	14	PR-428	B CLUTCH BRAKE LEVER PIN	1	0.		ASSEMBLY (Short)	4
	_		The second secon		3-	PR-410	BELT TIGHTENER BRACKET	_ _
	15	, FK-425	COTTER PIN	1	- 3	5 PR-410	A BELT TIGHTENER SCREW ASSY.	
	16	O-275	ZERK FITTING	3	- - 3	6 PR-798	BRAKE BAND (Lined)	
	1	7 O-275E	ZERK FITTING (Angle)	1			(See Note (B) Below)	_+
	_ 1	8 O-551	CONTROL ROD END (1/2")	1	3	7 PR-61.		$\dashv$
	1		B CONTROL ROD END BOLT ASSY	. 3	- <del>-</del>	8 PR-79	7 BRAKE BAND ROD w/NUTS (See No. (B) Use With PR-796 Brake Band)	ote
	_	0 PR-54	4 BRAKE LINK	1				
	_						ONE OF EVILLA RECUIRED	PRJ

<sup>(</sup>A) REPLACEMENT BRAKE BAND, PART NO. PR-796, FOR MACHINES PRIOR TO SERIAL NO. 6554 REQUIRES CHANGE OVER PART NO'S. O-294, O-294A & PR-797.

PR-796 Brake Band) 6554 AND LATER. ONE CLEVIS IS REQUIRED PRIOR TO SERIAL NO. 6554 AND USING PR-61 BRAKE BAND.

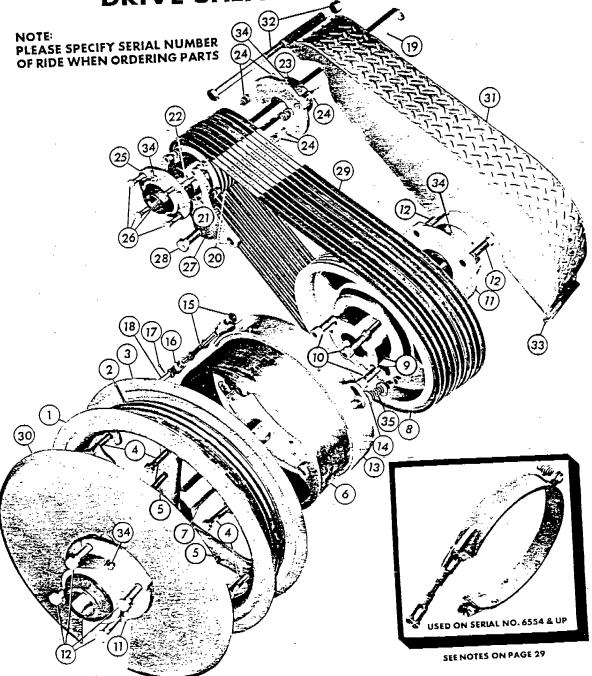
(D) THREE CLEVIS PINS & COTTERS ARE REQUIRED ON SERIAL NO. 6554 AND LATER, TWO CLEVIS PINS & COTTERS ARE REQUIRED PRIOR TO SERIAL NE 6554 AND USING PART NO. PR-61 BRAKE BAND.

<sup>(</sup>B) SERIAL NO. 6554 AND LATER.

<sup>(</sup>C) TWO CLEVISES ARE REQUIRED ON SERIAL NO.



DRIVE SHEAVE ASSEMBLY





#### DRIVE SHEAVE ASSEMBLY

REF NO	PART NO.	NAME OF PART	NO. REQ.
1	W-3	CABLE DRIVE WHEEL	1
2	W-4	CABLE DRIVE WHEEL BAND	1
3	W-3A	CABLE DRIVE WHEEL RING	1
4	W-3B	CABLE DRIVE WHEEL BOLT ASSEMBLY	8
5	PR-60A	BRAKE DRUM BOLT ASSEMBLY	4
6	PR-60	BRAKE DRUM	1
7	PR-46	CABLE DRIVE WHEEL SHAFT	1
8	PR-43	DRIVE UNIT SHEAVE (Large)	1
9	PR-43A	DRIVE UNIT SHEAVE BUSHING (Large)	1
10	PR-43C	DRIVE UNIT SHEAVE BUSHING LOCK SCREW	3
11	O-320	DRIVE SHAFT FLANGE UNIT	2
,12	O-320A	DRIVE SHAFT FLANGE UNIT BOLT ASSEMBLY	8_
13	**PR-61	BRAKE BAND (With Lining)	1
14	PR-61B	BRAKE BAND GUIDE BOLT ASSEMBLY	1
15	**PR-617	BRAKE BAND ROD ASSEMBLY	1
16	**O-294	BRAKE BAND ROD CLEVIS	1
17	**O-294B	BRAKE BAND ROD CLEVIS COTTER KEY	1
18	**O-294A	BRAKE BAND ROD CLEVIS PIN	1_
19	PR-44	COUNTERSHAFT	1
20	PR-42	DRIVE UNIT SHEAVE (Small)	1
21	PR-33A	DRIVE UNIT SHEAVE BUSHING (Small)	1

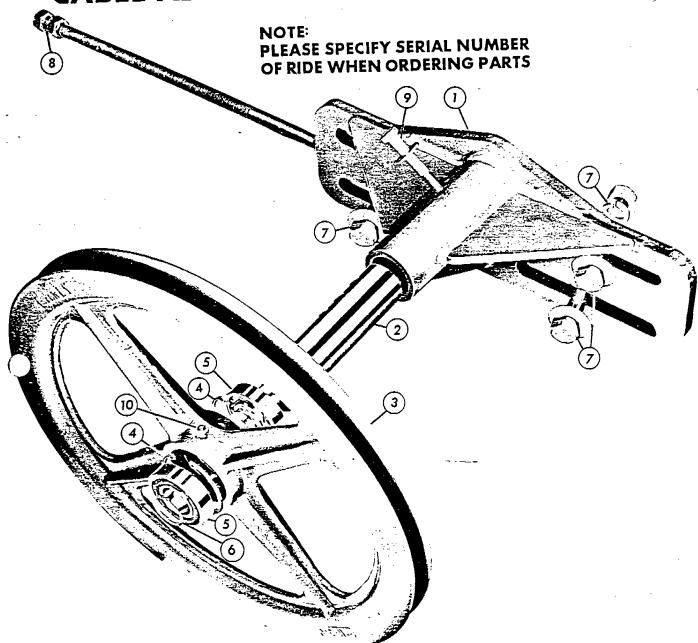
<sup>\*\*</sup> SEE NOTES ON PAGE 29

E,	ASSI	EMBLY	
REF NO	PART NO.	NAME OF PART	NO. REQ.
22	PR-33C	DRIVE UNIT SHEAVE BUSHING LOCK SCREW	2
23	PR-45	COUNTERSHAFT FLANGE UNIT	1
24	PR-45B	COUNTERSHAFT FLANGE UNIT BOLT ASSEMBLY	3
25	PR-45A	COUNTERSHAFT FLANGE UNIT (Rear)	1
26	PR-45C	COUNTERSHAFT FLANGE UNIT BOLT ASSEMBLY	4
27	PR-621	BELT ADJUSTING PLATE (Upper)	1
28	PR-621A	BELT ADJUSTING PLATE BOLT ASSEMBLY (Short)	1
29	PR-73	DRIVE BELTS (Matched Set of Ten)	1
30	PR-408	DRIVE WHEEL GUARD	1
31	PR-429	REAR BELT GUARD	1
32	PR-429A	REAR BELT GUARD BOLT ASSEMBLY	1
33	PR-429B	REAR BELT GUARD COTTER KEY	1
34	O-275	ZERK FITTING	4
35	PR-61C	BRAKE BAND SPRING	1
*	PR-43D	DRIVE UNIT SHEAVE KEY (Large)	1
*	PR-33B	DRIVE UNIT SHEAVE KEY (Small)	1
*	PR-61A	BRAKE LINING	1
*	O-404	CABLE DRIVE WHEEL KEY	2
,	W-235	3/8" DRIVE CABLE	1

<sup>\*</sup> Not Illustrated.



### CABLE ADJUSTING SHEAVE ASSEMBLY



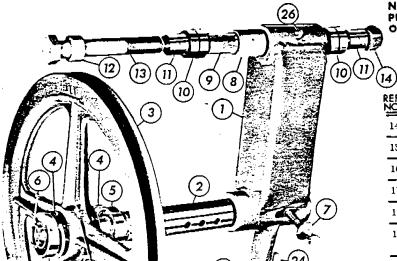
REF.	PART NO.	NAME OF PART	NO. REQ.
1	PR-423	CABLE ADJUSTING BRACKET	1
2	W-27	SHEAVE SHAFT	I
<del></del>	PR-310	SHEAVE	1
1	W-242	SHEAVE BEARING INNER SNAP RING	2
5	W-241	SHEAVE BEARING	2
6	W-240	SHEAVE BEARING OUTER SNAP RING	1
	<u> </u>	<u> </u>	

REF.	PART NO.	NAME OF PART	NO.
7	PR-528A	CABLE ADJUSTING BRACKET BOLT ASSY. (Bolt, Flat Washer, Lockwasher & Nut)	+
8	PR-528B	CABLE ADJUSTING BRACKET ADJUSTING NUT	2
9	W-27A	SHAFT RETAINER BOLT ASSEMBLY (Bolt, 2 Flat Washers, Lockwasher & Nut)	1
10	O-275	ZERK FITTING	1



# CABLE TENSION ADJUSTING SHEAVE ASSEMBLY

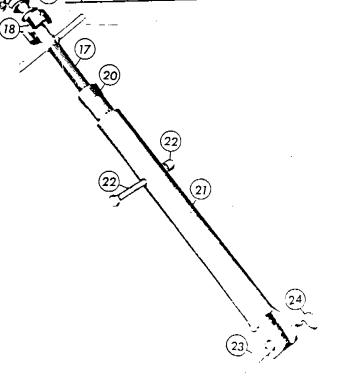
(25)



NOTE:
PLEASE SPECIFY SERIAL NUMBER
OF RIDE WHEN ORDERING PARTS

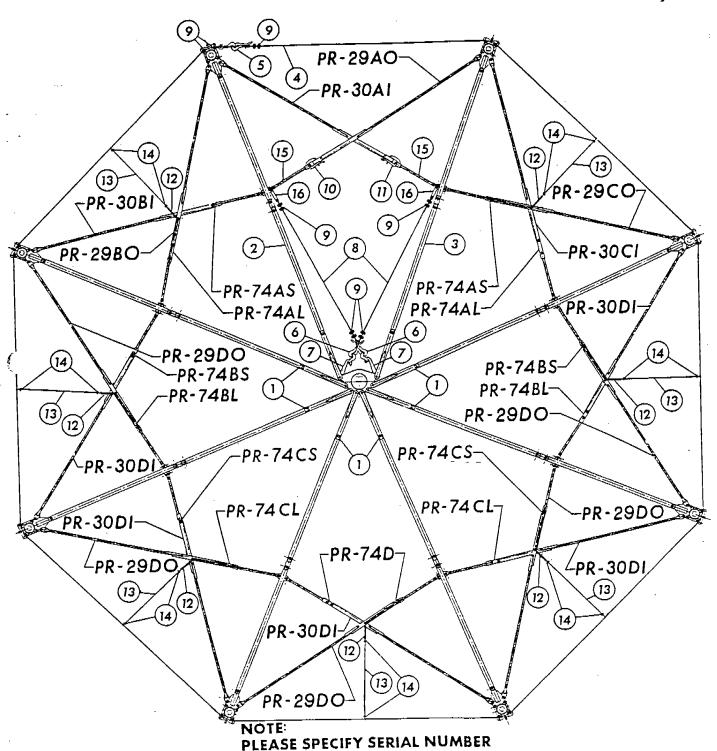
RE	F.	PART NO.	NAME OF PART	REQ.
=	4	PR-657A	TIGHTENER ARM BOLT NUT	1
_	15	PR-346	PRESSURE SPRING SLEEVE	1
-	16	F-252	PRESSURE SPRING	1
-	17	PR-347	PRESSURE ADJUSTER SCREW	1
-	18	PR-344	PRESSURE ADJUSTER GUIDE BUSHING	1
•	19	PR-344A	PRESSURE ADJUSTER GUIDE BUSHING CAP SCREW & LOCKWASHER	2
•	20	PR-349	PRESSURE ADJUSTER EXTENSION	1
•	21	PR-348	PRESSURE ADJUSTER BASE	1
•	22	PR-659	PRESSURE ADJUSTER BASE BOLT ASSY	1_
•	23	W-83	TAPER PIN (3/4")	2
	2-1	W-83A	TAPER PIN SAFETY KEY	_ \
	25	0-275	ZERK FITTING (Straight)	2
)	26	O-275B	ZERK FITTING (Angle)	1
/		J		

REF.		PART NAME OF PART				
=	=	PR-13	CABLE TIGHTENER ARM	1		
_	2	W-27	SHEAVE SHAFT	1		
_	3	PR-310	SHEAVE	1		
-	4	4 W-242 SHEAVE BEARING SNAP RING (Inner)		2		
-	5	W-241	SHEAVE BEARING	2		
-	6	W-240	SHEAVE BEARING SNAP RING (Outer)	1		
-	7	W-27A	27A SHAFT RETAINER BOLT ASSY.(Bolt, 2 Flat Washers, Lockwasher & Nut)			
-	8	PR-552	TIGHTENER ARM BEARING SPACER (Outer)	1		
•	9	PR-551	TIGHTENER ARM BEARING SPACER (Inner)	1		
•	10	PR-511	TIGHTENER ARM BEARING OUTER SLEEVE	2		
	11	PR-511A	TIGHTENER ARM BEARING INNER SLEEVE	2		
	12 PR-601 TIGHTENER ARM BEA COLLAR		TIGHTENER ARM BEARING THRUST COLLAR	1		
	13	PR-657	TIGHTENER ARM BOLT	1		





#### WHEEL ASSEMBLY



PLEASE SPECIFY SERIAL NUMBER OF RIDE WHEN ORDERING PARTS

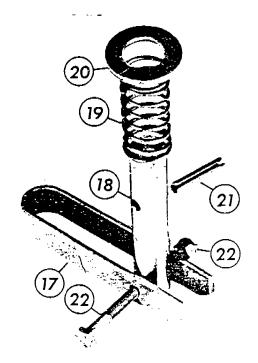


### WHEEL ASSEMBLY

		<del>-</del> -				
EF.	PART NO. NAME OF PART					
1	W-11 WHEEL SWEEP					
2	W-11A	WHEEL SWEEP	1			
3	W-11B	WHEEL SWEEP	1			
4	PR-513	SAFETY CABLE (3/8")	1			
5	PR-518A	CABLE BINDER (With Hook)	1			
6	PR-518	CABLE BINDER	2			
7	PR-517	BRACE CABLE HOOK	2			
8	PR-512	BRACE CABLE (3/8")	2			
9	PR-623	CABLE CLAMP (3/8")	26			
10	PR-319A	CROSS BRACE MASTER LINK ASSEMBLY (Outer)	1			
PR-319		CROSS BRACE MASTER LINK ASSEMBLY (Inner)	1			
	0   1   2   3   4   5   6   7   8   9   10	O. NO.  1 W-11  2 W-11A  3 W-11B  4 PR-513  5 PR-518A  6 PR-518  7 PR-517  8 PR-512  9 PR-623  10 PR-319A	NO.       NAME OF TAKE         1       W-11       WHEEL SWEEP         2       W-11A       WHEEL SWEEP         3       W-11B       WHEEL SWEEP         4       PR-513       SAFETY CABLE (3/8")         5       PR-518A       CABLE BINDER (With Hook)         6       PR-518       CABLE BINDER         7       PR-517       BRACE CABLE HOOK         8       PR-512       BRACE CABLE (3/8")         9       PR-623       CABLE CLAMP (3/8")         10       PR-319A       CROSS BRACE MASTER LINK ASSEMBLY (Outer)         7       PR-319       CROSS BRACE MASTER LINK			

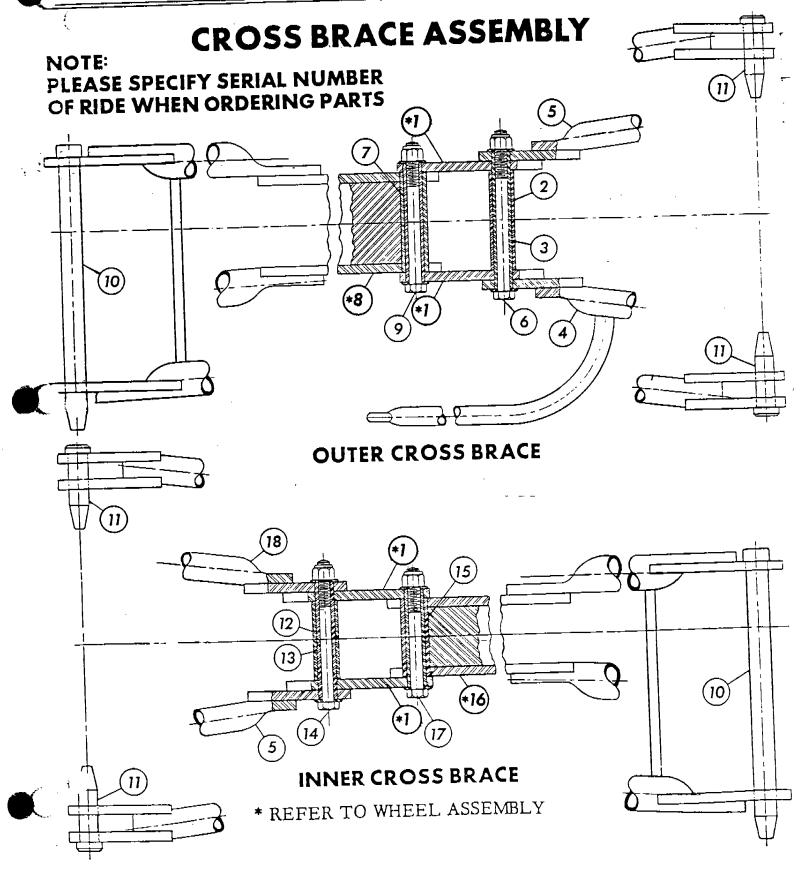
REF.	PART NO.		NO. REQ.			
12	PR-624	PR-624 SLACK CABLE SPRING				
13	PR-625	SLACK CABLE (1/8")	7			
14	PR-625A	CABLE CLAMP (Slack Cable) (1/8")				
15	PR-28D	CROSS BRACE (Short)	4			
16	PR-547	BRACE CABLE LINK	2			
17	PR-556	CROSS BRACE LOCK PIN LEVER	8			
18	PR-654	CROSS BRACE LOCK PIN	8			
19	PR-656	CROSS BRACE LOCK PIN SPRING	8			
20	PR-656A	LOCK PIN SPRING WASHER	8			
21	PR-655	ROLL PIN	8			
22	PR-5564	A LOCK PIN LEVER BOLT ASSY.				
*	PR-623.	A CABLE THIMBLE (3/8" Ex. Hvy.	; (			

NOTE: WHEN ORDERING PARTS REFER TO THE DIAGRAM TO DETERMINE THE PART NO. BY IT'S POSITION ON THE WHEEL.



<sup>\*</sup>Not Illustrated.







#### **CROSS BRACE ASSEMBLY**

	EF.	PART NO.		NO. REQ.			
. <b>=</b> . *	1	PR-74	CROSS BRACE LINK (Pr. R. H. & L. H. )	2			
	2	PR-558	OUTER CROSS BRACE SPACER				
-	3	PR-594 OUTER CROSS BRACE BUSHING (Long)					
-	4	PR-28A OUTER CROSS BRACE (Short, with Extension)					
-	5	PR-28C	CROSS BRACE (Short, R.H.)	2			
_	6	PR-594A	OUTER CROSS BRACE BOLT ASSEMBLY (Long 1/2" X 6-1/2")	1			
-	7	PR-560 OUTER CROSS BRACE BUSHING (Short)					
(	۔ ن	PR-29	OUTER CROSS BRACE (Long)	1			
•	9	PR-560A	OUTER CROSS BRACE BOLT ASSEMBLY (Short 1/2" X 6")	1			

REF.	PART NO.	NAME OF PART	NO. REQ.		
10	W-42	CROSS BRACE PIN (Long)	2		
11	W-83 CROSS BRACE PIN (Short)				
12	PR~559	INNER CROSS BRACE SPACER	1		
13	PR-595 INNER CROSS BRACE BUSHING (Long)				
14	PR-595A	INNER CROSS BRACE BOLT ASSEMBLY (Long 1/2"X 5-1/2")	1		
15	5 PR-596 INNER CROSS BRACE BUSHING (Short)				
*16	PR-30	INNER CROSS BRACE (Long)	1		
17	PR-596A	INNER CROSS BRACE BOLT ASSEMBLY (Short 1/2" X 5")	1		
18	PR-28B	INNER CROSS BRACE (Short, L.H.)	1.		

The No. Req. column indicates the number required for each pair of Cross Braces.

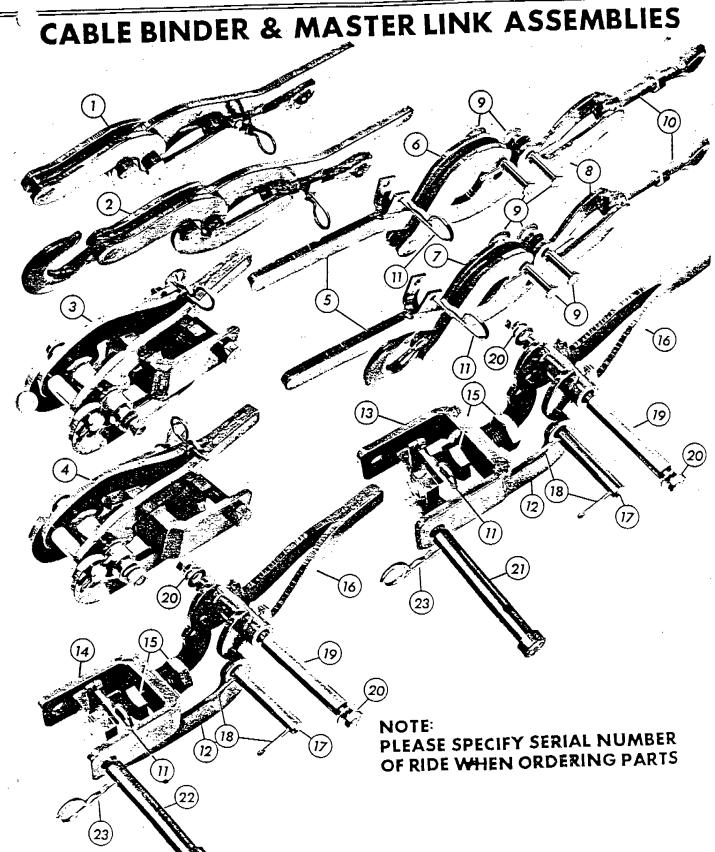
WHEN ORDERING CROSS BRACE LINKS (Part No. PR-74) AND INNER OR OUTER CROSS BRACES (Part No. PR-29 and 30) REFER TO WHEEL ASSEMBLY (Page 34) TO DETERMINE THE SUFFIX BY THEIR POSITION ON THE WHEEL.

THE "L" & "S" OF THE PR-74 SUFFIX INDICATES LONG OR SHORT LINKS.

THE "O" & "I" OF THE PR-29 AND PR-30 INDICATES OUTER AND INNER CROSS BRACES.









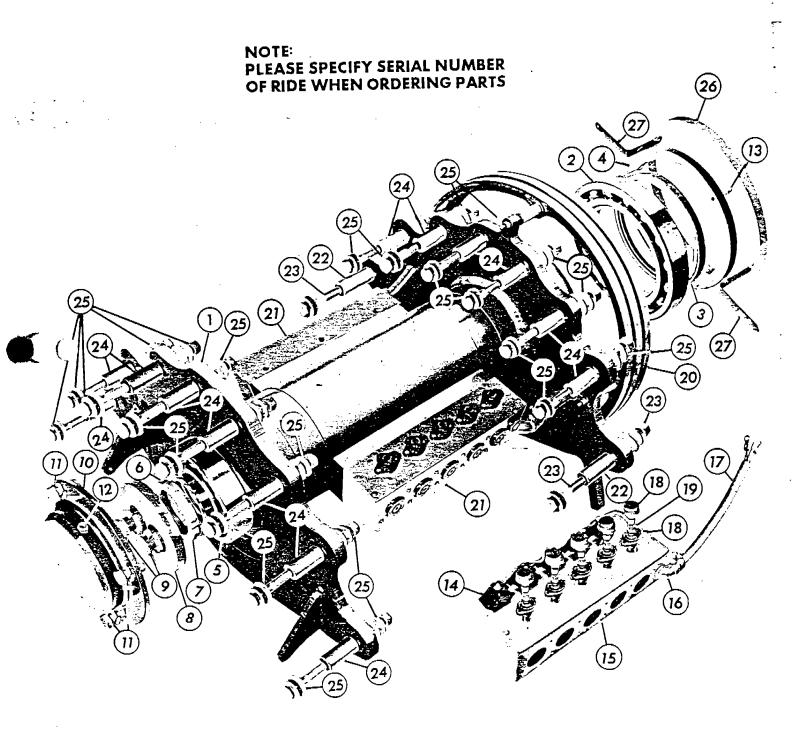
# CABLE BINDER & MASTER LINK ASSEMBLIES

悶	PART NO.	NAME OF PART	NO. REQ.
	PR-518	CABLE BINDER ASSEMBLY	2
2	2 PR-518A CABLE BINDER ASSEMBLY (With Hook)		1
3	PR-319	CROSS BRACE MASTER LINK ASSEMBLY (Inner)	1
4	4 PR-319A CROSS BRACE MASTER LINK ASSEMBLY (Outer)		1
5	PR-519	BINDER LEVER	3
6	PR-534	BINDER LINK	2
7	PR-534A	BINDER LINK (With Hook)	1
	PR-535	BINDER LINK (Adjustable)	3
<u> </u>	PR-597	BINDER LINK PIN ASSEMBLY	6
10	PR-536	BINDER EYE BOLT ASSEMBLY	3
 U	W-83A	SAFETY KEY	5

- Ri	탨	PART	PART NAME OF PART			
Ξ	2	PR-321	MASTER LINK HOOK	2		
_	13	PR-322	MASTER LINK CLEVIS (Wide)	1		
-	14	4 PR-322A MASTER LINK CLEVIS (Narrow)				
-	15 PR-322E MASTER LINK CLEVIS		MASTER LINK CLEVIS ADJUSTING NUT	4		
_	16	MASTER LINK LEVER	2			
-	17	PR-312	MASTER LINK PIN	2		
•	18	PR-312A	MASTER LINK PIN COTTER KEY	4		
•	19	PR-560	CROSS BRACE BUSHING	2		
	20	CROSS RRACE RUSHING BOLT		2		
	21	PR-456	CROSS BRACE PIN (Long)	1		
	22	PR-455	CROSS BRACE PIN (Short)	1		
	23	CARPEN VEV				



#### WHEEL HUB ASSEMBLY





### WHEEL HUB ASSEMBLY

	탪	PART NO.	NAME OF PART	NO. REQ.
Ξ	1.	PR-307A	WHEEL HUB.(Complete with Light Rings)	1
-	1	. PR-307	WHEEL HUB (Less Light Rings)	1
-	2	w-87	WHEEL HUB BEARING (Inner)	1
-	3	w-88	WHEEL HUB BEARING GREASE SEAL	1
-	4	W-51 WHEEL HUB BEARING GREASE SEAL RIN		1
-	5	5 RR-48A WHEEL HUB BEARING (Outer)		1
-	6	W-85	WHEEL SPINDLE LOCKWASHER	1
-	7	W-84	WHEEL SPINDLE NUT	1
-	8	W-278	SAFETY PLATE	1
	9	W-278A	SAFETY PLATE CAP SCREW	2
	10	W-298	WHEEL HUB CAP	1
1	W-298A		WHEEL HUB CAP BOLT ASSEMBLY	4
	12	O-275	ZERK FITTING	1
	13	O-275A	ZERK FITTING (1/4")	1
	14	E-72	LIGHT RECEPTACLE (Female)	10
	15	5 E-199 LIGHT RECEPTACLE BOX		2
	16	E-177	LIGHT CORD CONNECTOR	2
	_		<u></u>	

REF. PART		NAME OF PART	NO.	
17	E-178	LIGHT CORD	2	
18	E-200	FUSE HOLDER ASSEMBLY	10	
19	E-201	FUSE CARTRIDGE	10	
20	E-172	LIGHT RING ASSEMBLY	1	
21	E-198 LIGHT RECEPTACLE ASSEMBLY			
22	PR-593 SWEEP BUSHING (Long)		2	
. 23	PR-593A	SWEEP BUSHING BOLT ASSY. (Long)	2	
24	4 PR-557 SWEEP BUSHING (Short)		1-	
<b>2</b> 5	25 PR-557A SWEEP BUSHING BOLT ASSY. (Sho		14	
26	E-202	GROUND RING	1	
27	E-202B	GROUND RING CONDUCTOR STRIP	2	
*	E-202C	CONDUCTOR STRIP MACHINE SCREW	<sup>2</sup> (	
_	E-202A	GROUND RING MACHINE SCREW & NUT	4	
*	E-200A FUSE HOLDER MACHINE SCREW & NU		20	
*	* E-72A LIGHT RECEPTACLE MACHINE SCREW WASHER		20	
	E-198A	LIGHT RECEPTACLE METAL SCREW	12	



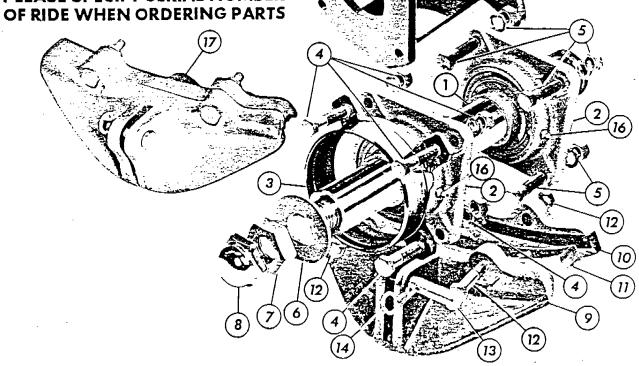
<sup>\*</sup> Not Illustrated.



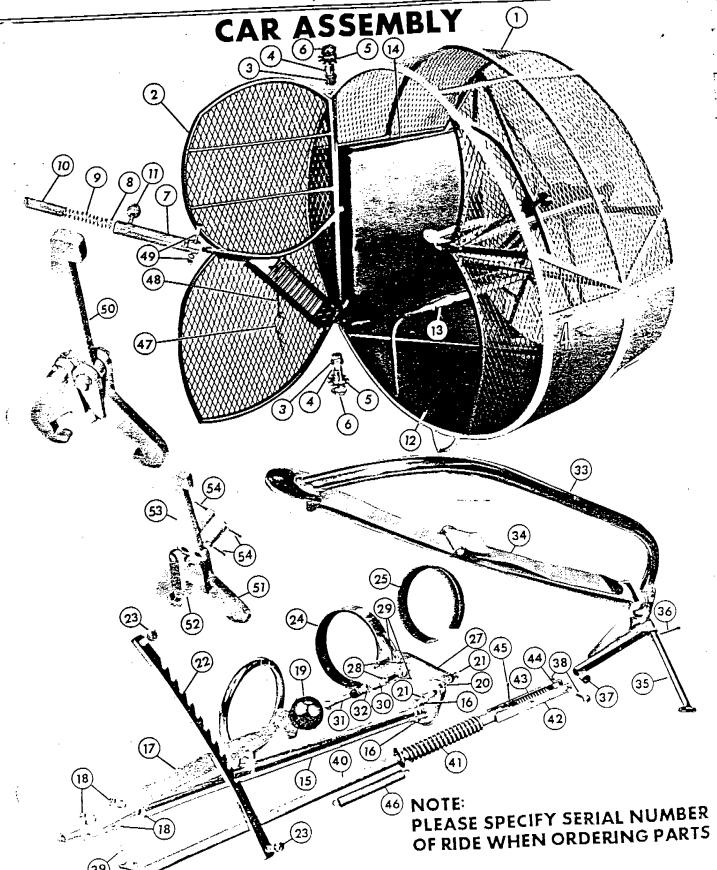
CAR SPINDLE ASSEMBLY

REF. PART NO. NO.					
1	W-101	CAR SPINDLE			
2	W-79	CAR SPINDLE BEARING	16		
3	W-99	CAR BRAKE DRUM	8		
4	W-79A	CAR SPINDLE BEARING BOLT ASSEMBLY (Long)	32		
5	W-79B	CAR SPINDLE BEARING BOLT ASSEMBLY (Short)	32		
6	W-81	CAR SPINDLE WASHER	8		
7	RR-259 CAR SPINDLE NUT W-82 CAR SPINDLE LOCKNUT		. 8		
8			8		
9	W-14A	CABLE SHOE (L. H.)	8		
10	W-14B	CABLE SHOE (R.H.)	8		
11	W-284	CABLE SHOE LINER	8		
12	W-55	CABLE SHOE BOLT ASSEMBLY	16		
13	W-83	CABLE SHOE PIN	8		
14	W-83A	W-83A CABLE SHOE PIN SAFETY KEY			
15	W-11	WHEEL SWEEP	8		
16	O-275	ZERK FITTING			
17	W-14 CABLE SHOE ASSEMBLY		8		

### NOTE: PLEASE SPECIFY SERIAL NUMBER









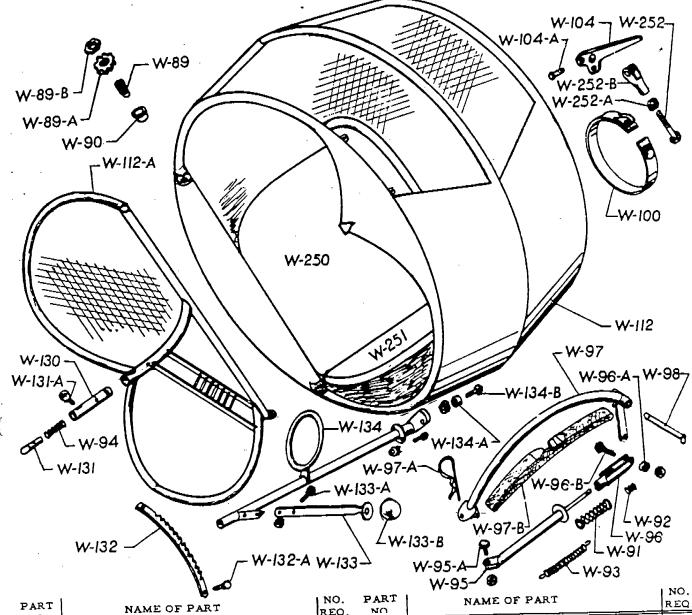
#### CAR ASSEMBLY

R	EF!	PART NO.	NAME OF PART	NO. EQ.	REF.	-	PART NO.	NAME OF PART	ZO. REQ.
=	1	W-112S	CAR ASSEMBLY (Complete)	1	30	0	-294	CAR BRAKE CLEVIS	1
_	2	W-112AS	CAR DOOR ASSEMBLY	1	31	W	/-305	CAR BRAKE ADJUSTING BOLT	1
_	3	W-90	CAR DOOR HINGE BUSHING	2	32	W	/-252A	CAR BRAKE ADJUSTING BOLT LOCKNUT	1
-	4	W-89	CAR DOOR HINGE PIN.	2	33	V	V-97	CAR BELT BAR	1
_	5	W-89A	CAR DOOR HINGE LOCKWASHER	2	34	V	<b>V</b> -97 <b>B</b>	CAR SAFETY BELT	1
-	6	W-89B	CAR DOOR HINGE NUT	2	35	v	v-98	CAR BELT BAR HINGE PIN	1
-	7	W-130	CAR DOOR LATCH TUBE	1	36	V	V-98A	CAR BELT BAR HINGE PIN COTTER KEY	1
-	8	W-130B	CAR DOOR LATCH TUBE WASHER	1	37	1	W-96A	CAR BELT TIE ROD CLEVIS SPACER	1
-	9	W-94	CAR DOOR LATCH SPRING	1	38	,	w-96B	CAR BELT TIE ROD CLEVIS BOLT ASSY.	1
-	10	W-131	CAR DOOR LATCH PLUNGER	1	39	,   ,	W+95A	CAR BELT TIE ROD HINGE BOLT ASSY.	1
•	11	W-131A	CAR DOOR LATCH KNOB ASSEMBLY	1	40	, ,	W-95	CAR BELT TIE ROD	1
-	12	W-364	CAR FLOOR BOARD	1	41	ı	W-91	CAR BELT TIE ROD PRESSURE SPRING	1
-	13	W-251	CAR SEAT UPHOLSTERY	1	42	2	W-96	CAR BELT TIE ROD CLEVIS	1
<b>(</b>	14	W-250	CAR SEAT BACK UPHOLSTERY	1	43	3	w-92	CAR BELT TIE ROD CUSHION SPRING	1
	15	W-134	CAR BRAKE ROD	1	4.	4	W-362	CAR BELT TIE ROD CLEVIS RETAINER	1
	16	W-134C	CAR BRAKE ROD BOLT ASSEMBLY	2	- <del>-</del>	5	W-362A	CAR BELT TIE ROD CLEVIS RETAINER COTTER KEY	ı
	17	W-133	CAR BRAKE LEVER	1	_ - 4	6	W-93	CAR BELT TIE ROD LIFT SPRING	1
	18	W-133A	CAR BRAKE LEVER BOLT ASSEMBLY	2	_	7	W-97A	CAR BELT BAR SAFETY KEY	1
	19	O-189	CAR BRAKE LEVER BALL	1	_	.8	W-97C	CAR BELT BAR SAFETY KEY STRAP	1
	20	W-302	CAR BRAKE CAM ROLLER	1	_	19	W-130A	LATCH TUBE BOLT ASSEMBLY	1
	21	W-134B	CAR BRAKE CAM ROLLER BOLT ASSY.	1	_	50	PR-756	CAR PULLER ASSEMBLY	1
	22	W-132	CAR BRAKE RATCHET	1	-	51	PR-757	CAR PULLER JAW	1
	23	W-132A	CAR BRAKE RETCHET BOLT ASSEMBLY	2	-	52	PR-759	CAR FULLER PLUNGER	1
	24	W-100	CAR BRAKE BAND ASSY. (With Lining)	1	_	53	PR-760	CAR PULLER LEVER	1
	25	W-100A	CAR BRAKE LINING	1	-	54	PR-761	THE PINE OF LOOK AND	1
	27	W-104	CAR BRAKE CAM LEVER	1		*	W-373	CAR COVER	1
	28	O-294A	CAR BRAKE CAM LEVER PIN	2		*	O-179	SEAT UPHOLSTERY CLAMP	+
	29	O-294B	CAR BRAKE CAM LEVER PIN COTTER KE	Y			1 5 4//		

<sup>\*</sup> Not Illustrated. \*\* Number Required Per Car.



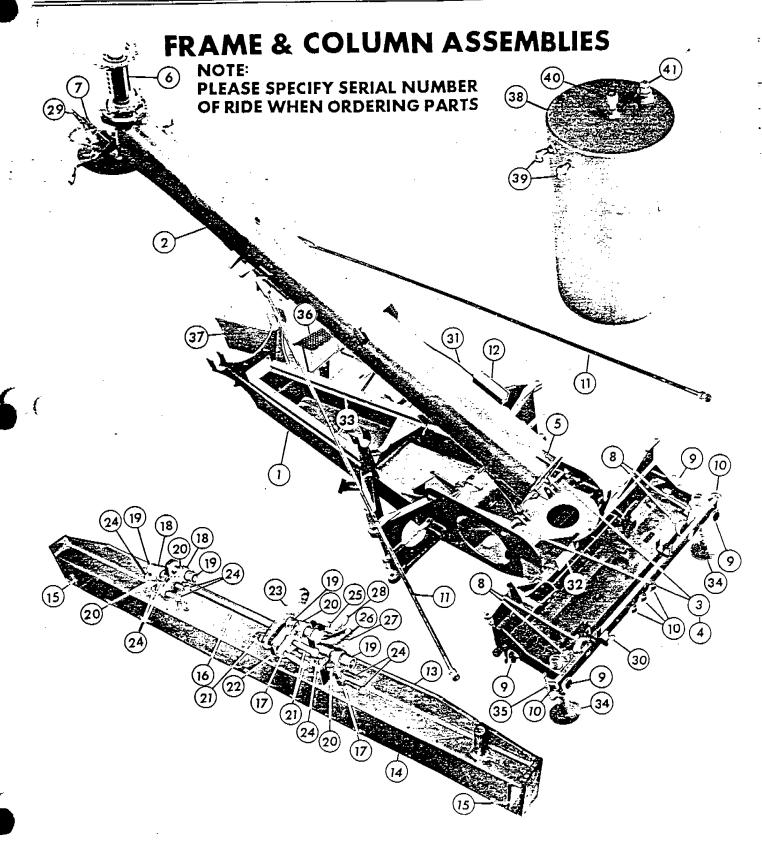




₩ -	
NAME OF PART	NO. REQ
PIN Car hinge	16
	16
	16
	16
SPRING, Belt pressure	8
SPRING, Belt cushion	8
	8
SPRING, Door latch	8
ROD, Belt tie	8
BOLT & NUT, Belt tie rod hinge	8
CLEVIS, Belt tie rod	8
SPACER, Clevis	
BOLT & NUT, Clevis	8
BAR, Belt	8
CLIP, Belt bar safety	8
BELT, Safety	
PIN. Bar hinge	8
BAND, Car brake	
LEVER, Car brake cam	
	PIN, Car hinge WASHER, Hinge lock NUT, Hinge BUSHING, Hinge SPRING, Belt pressure SPRING, Belt cushion SPRING, Belt lift SPRING, Door latch ROD, Belt tie BOLT & NUT, Belt tie rod hinge CLEVIS, Belt tie rod SPACER, Clevis BOLT & NUT, Clevis BAR, Belt CLIP, Belt bar safety BELT, Safety PIN, Bar hinge

	W-93~ •	
PART	NAME OF PART	NO. REQ.
	PIN, Cam lever	16
W-112	ASSEMBLY, Car	
W-112-A		8
W-112-A	TUBE, Door latch	8
11 22 2	PLUNGER, Door latch	8
W-131	KNOB, Door latch	8
	RATCHET, Car brake	8
W-132		16
	BOLT, Ratchet	8
W-133	LEVER, Car brake	16
	BOLT & NUT, Brake lever	- B
W-133-B	BALL, Brake lever	<del></del>
W-134	ASSEMBLY, Car brake rod	
W-134-A	ROLLER, Car brake cam	
W-134-B	BOLT & NUT, Cam	1 8
W-250	BACK, Car seat	
W-251	· · · · · · · · · · · · · · · · · · ·	
W-252	BOLT, Car brake adjustment	8
- <del>W 252</del> -4	NUT, Adjustment bolt lock	
W -232-F	CLEVIS, Car brake	
M - 535-E	, OLD VID, OLI VIE	







## FRAME & COLUMN ASSEMBLIES

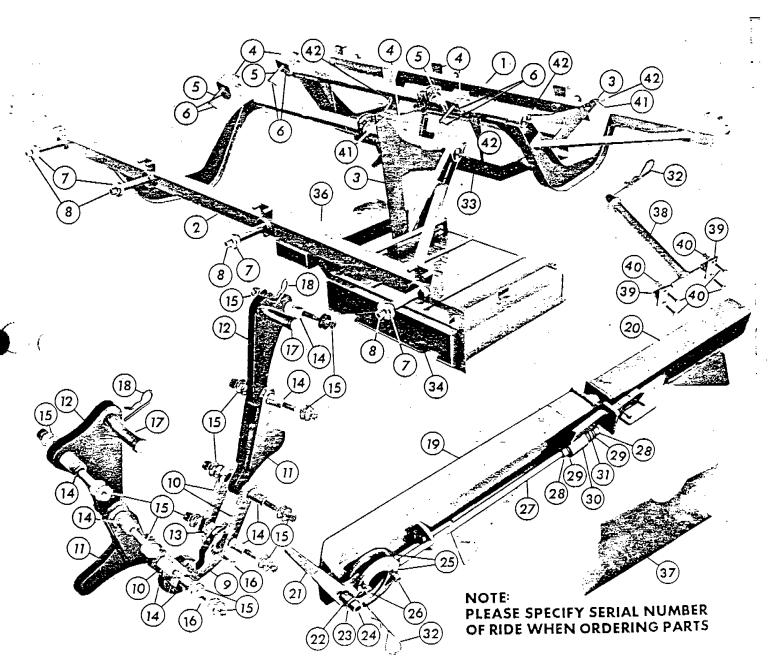
			F	RAME & COLL	원	•	REF
RE N	F.	PART NO.		NAME OF PART R	= ;=		
=== :		PR-1	FR	AME	1	•	33
	2	PR-24	CO	LUMN	1	•	34
_	3	PR-56	1	LUMN HINGE PIN		•	35
_	4	O-275B		LUMN HINGE PIN ZERK FITTING		-	36
-	5	PR-24A	CC	DLUMN HOLD_DOWN BOLT ASSEMBLY	1	-	37
-	6	PR-602	WI	HEEL HUB ASSEMBLY	1	_	38
-	7	L-487	1	R COUPLER	2	-	39
-	8	E-136	នា	OP, TURN & TAIL LIGHT ASSEMBLY	4	_	40
-	9	E-137R		EFLECTOR (Red)	4	_	41
-	10	E-135	A	RMORED MARKER LIGHT ASSEMBLY	5		_
•	11	PR-23		OLUMN TIE ROD ASSEMBLY	2	<u>-</u> -	-
	12	E-181	0	OLUMN CIRCUIT BREAKER ASSEMBLY	<u> </u>	<u> </u>	_
	13	PR-177	S	WEEP SUPPORT	-	1	_
	14	PR-177	'A S	WEEP SUPPORT PAD (Long)	$\perp$	1	_
	 15	PR-177	7B S	WEEP SUPPORT PAD (Short)	$\perp$	2	
	 16	PR-529	9 9	SWEEP SUPPORT LEVER	_	1	_
		PR-53	2 :	SWEEP SUPPORT BEARING (R.H.)	$\perp$	2	_
	18	PR-53	2A	SWEEP SUPPORT BEARING (L. H. )	$\perp$	2	_
	19	PR-53	2B	BUSHING	_	4	
	20	0-275	A	ZERK FITTING	4	4	
	2	PR-17	78.A	SWEEP SUPPORT LOCK PLATE BOLT ASS	Y	2	
	2	2 PR-7	13	SWEEP SUPPORT LOCK PLATE SPACER		1	
	_	3 PR-1	78	SWEEP SUPPORT PLATE	_	1	
	_	4 PR-1	77d	SWEEP SUPPORT BEARING BOLT ASSY.	_	6	_
	- 2	25 PR-7	14	SWEEP SUPPORT LOCK PLATE ROLLE	R	1	_
	-	26 PR-7	14A	SWEEP SUPPORT LOCK PLATE ROLLE BOLT ASSEMBLY	R	1	<del>-</del>
	-	27 W-8	3	SWEEP SUPPORT LOCK PLATE PIN		1	_
	-	28 W-8	3A	SWEEP SUPPORT LOCK PLATE PIN SAFETY KEY		]:	1
	•	29 L-4	56D	AIR COUPLER DUMMY			2
į		30 E-1	46	LICENSE PLATE LIGHT ASSEMBLY		1	1
ţ		31 PR-	618	CONDUIT ASSEMBLY		1	1
			6+4	HYDRAULIC CONTROL VALVE GUAF	RD		1
		* Not 11	lustr	rated.			

N	_	A5	<b>S</b>	EMBLIES	NO.	
ĘĘ,	P.	ART VO.		NAME OF PART	NO. REQ.	
33		476	OIL	LINE GUARD	2	•
34	PR	-323	STE	ADY FOOT	2	
35	PR	L-409	RE.	AR SUPPORT PIN ASSEMBLY	2	-
36	PF	₹-652	FR	ONT BELT GUARD	1	_
37	L	-288A	то	OL BOX (Plain)	1	_
38	PI	R- <del>1</del> 04	OII	TANK	1	_
39	P:	R-500	3/8	3"STREET ELL (Hyd.)	2	_
<del>1</del> 0	L	212 A	BB	EATHER	1	_
41	P	R-404B	1''	PIPE PLUG	1	_
	F	R-751	DF	RAIN PLUG (1/2"Pipe Plug)	1	
-	F	PR-652A	F	RONT BELT GUARD BOLT ASSEMBLY	1	l —
<del>-</del>	+;		C	ONTROL VALVE GUARD BOLT ASSY.	1	2
-	+,	PR-476A	0	IL LINE GUARD BOLT ASSEMBLY		6 —
_		PR-177I	o s	WEEP SUPPORT PAD SCREW ASSEMBLY	2	2
_	+-	E-137B	R	EFLECTOR MACHINE SCREW ASSY.		8_(
-		E-146A	L	ICENSE PLATE LIGHT BOLT ASSEMBL	Υ.	2
-	:+	PR-5	† F	ENDER		2
_	-	O-630	-   5	SPUD WRENCH (1-1/8")		1
-	_	O-228	-   5	SCREW DRIVER (6")		1
-	-	0-248		HAMMER (3# Cross Peen)		1
-	-	0-249	-	PLIERS (8")		1
-	*	O-486	+	DIAGONALS (7")		1
-	-	O-588	-+	DRIFT PUNCH (3/4")		1
•	-	O-2+7	-+	CRESCENT (8")		1
	-	0-247	<del></del>	CRESCENT (12")		1
		W-37	- +	CRESCENT (16")		1
		PR-73	-+	SOCKET (1-1/2", 3/4" Drive)		1
	_	PR-7		RATCHET (3/+")		1
	_	PR-7		SOCKET (1-5/8",3/4" Drive)		
•	<del>-</del>	0-22		ALLEN WRENCHES (Set of +)		
-	_	0-58		OIL CAN		
•	_	┿┈╌		BOX END WRENCH (1-1/2")		
-				HOSE CLAMP		
_		PR-		SISSOR TIGHTENING WRENCH		

<sup>•</sup> Not Illustrated.

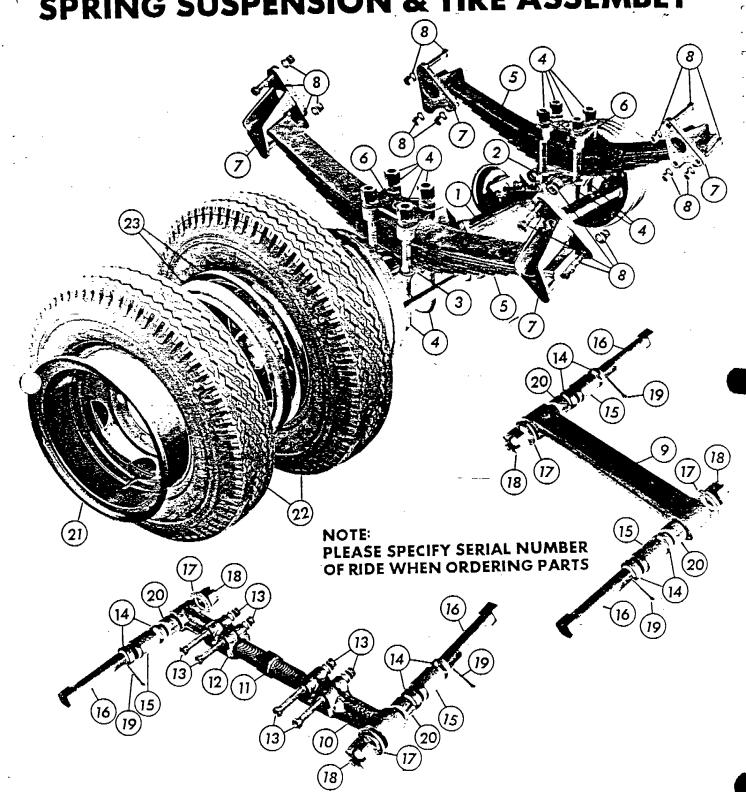


#### **BUNKER ASSEMBLY**





### SPRING SUSPENSION & TIRE ASSEMBLY



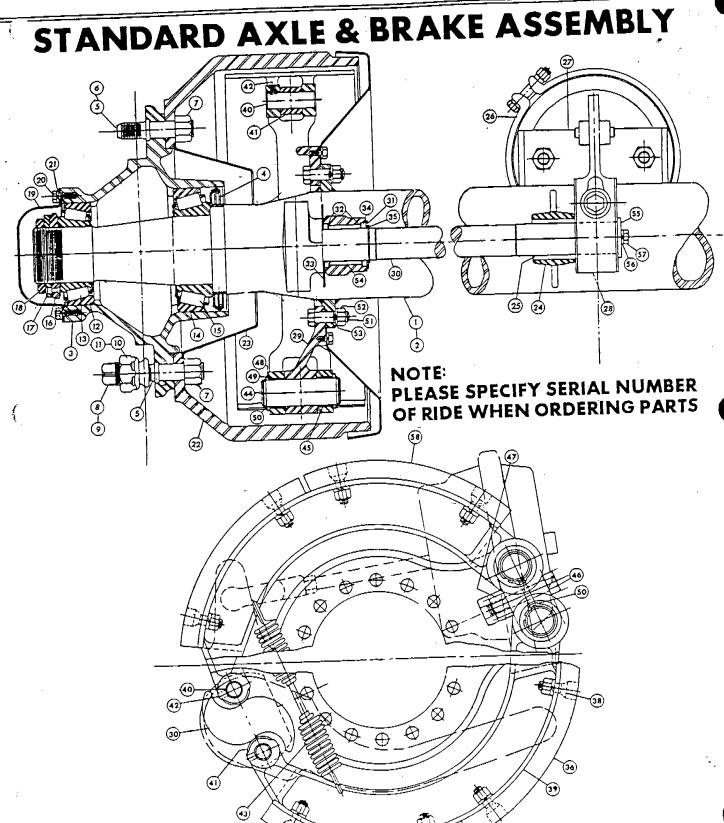


### SPRING SUSPENSION & TIRE ASSEMBLY

REF	PART NO.	NAME OF PART	NO. REQ.	REF	PART NO.	NAME OF PART	NO. REQ.
1	PR-18 (S-700)	AXLE(With Nuts & Washers 72"Track)	1	13	PR-725A	ADJUSTABLE TIE ROD BOLT ASSY.	4
2	PR-717R	SPRING SEAT (R.H.)	1	14	PR-728	RUBBER BUSHING CAP	. 8
-3	PR-717L	SPRING SEAT (L.H.)	1	15	PR-729	RUBBER BUSHING	4
4	PR-708	"U" BOLT ASSEMBLY	4	16	PR-730	TIE ROD BOLT	4
5	PR-22	SPRING	2	17	PR-730A	TIE ROD BOLT WASHER	4
6	PR-716	SPRING SEAT CAP	2	18	PR-730B	TIE ROD BOLT NUT	4
7	PR-3	SPRING BRACKET	4	19	PR-730C	TIE ROD BOLT COTTER KEY	4
8	PR-3A	SPRING BRACKET BOLT ASSEMBLY	12	20	PR-731	TIE ROD SLEEVE	4
9	PR-724	AXLE TIE ROD	1	21	PR-19	WHEEL	4
10	PR-725	ADJUSTABLE TIE ROD END (R. H.)	I	22	PR-20	TIRE	4
11	PR-726	ADJUSTING SCREW	1	23	PR-19A	WHEEL RIM	4
12	PR-727	ADJUSTABLE TIE ROD END (L.H.)	1	*	PR-21	TUBE	4

<sup>\*</sup> Not Illustrated.





Ó



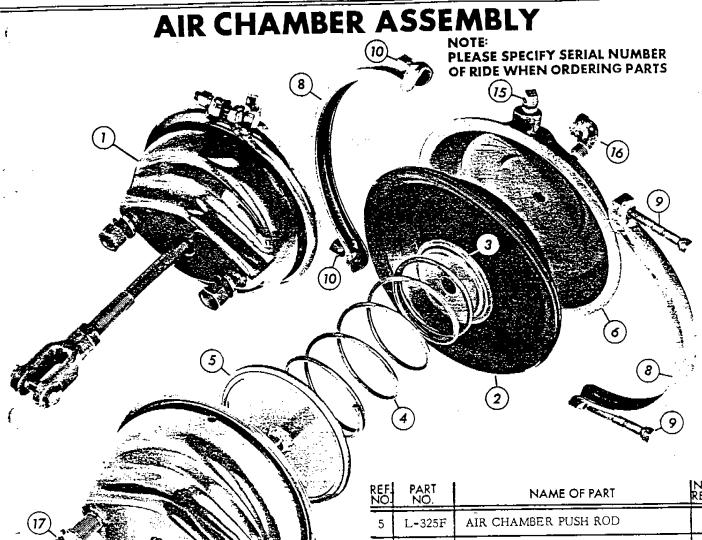
# STANDARD AXLE & BRAKE ASSEMBLY

Ę	盷		PART NO.	NAME OF PART	2 <u>8</u>	<u>.</u>	REI
7	=	S-7	00 (PR-18)	AXLE(With Nuts & Washers. 72" Track)	1	_	30
•	2	_	700-F	AXLE(With Brake Flanges Attached. 72" Track, 7" Brakes)	1	_	32
٠	3	A.	-170046-1	нив	2	_	3:
3	4	<u> </u>	- 150039	GREASE RETAINER ASSEMBLY	2	_	3
	_ <u>-</u>	<del>}</del>	3096	WHEEL STUD (R.H.)	10	)	3
	<u>-</u>	1	3097	WHEEL STUD (L.H.)	10	) <u> </u>	3
	$\frac{}{7}$	6	307	WHEEL STUD NUT	20	<u>)</u>	3
	-8	1	0708	INNER CAP NUT (R.H.)	19	0	3
	<u> </u>		.0709	INNER CAP NUT (L. H.)	1	0	-
	10	3	37891	OUTER CAP NUT (R.H.)	1	.0	:
	11	+-	37892	OUTER CAP NUT (L.H.)	1	10	_
	12	-	HM-212011	BEARING CUP (Outer)		2	
		-	HM-212049	BEARING CONE (Outer)		2	
,	1.	+	653	BEARING CUP (Inner)		2	
	1	+-	663	BEARING CONE (Inner)		2	
	_	6	A-150032-E	SPINDLE NUT (Inner)	$\perp$	2	
	_	7	A-150034	SPINDLE NUT LOCK		2	_
	1	8	A-150033	SPINDLE NUT (Outer)		2	_
	_	19	A-170074	HUB CAP		2	<b>-</b>
	-	20	6203	HUB CAP BOLT		12	_
	-	21	6501	HUB CAP BOLT LOCKWASHER		12	_
	-	22	UB-1180	BRAKE DRUM		2	_
	-	23	UB-1089	OIL SLING		2	_
	•	24	UB-1095	CAM SHAFT BRACKET (With Bushing)	)	2	
	•	25	UB-1179	CAM SHAFT BRACKET BUSHING	_	2	_
		26	UB-1052	AIR CHAMBER		1 2	·
		27	UB-1119	AIR CHAMBER BRACKET		2	!
		28	UB-1081	SLACK ADJUSTER		1.7	<u>_</u>
		29	UB-1131	SPIDER ASSEMBLY		<u> </u>	2
		_		ARD AVIE PART NUMBERS ARE INDICAT	ED	,	

	00	SPIDER ASSEMBLY	
אסו	E: STANDARI	AXLE PART NUMBERS ARE INDICATED	

	5 i	KAN	E ASSEMBL!	
REF.	1	PART I	NAME OF PART R	10. EQ.
30.	ī	JB-5006-2 L. H. & L. H.	CAM & SHAFT, 20-5/16" Under Head of Cam to end of Splines	l Ea.
31	1	JB-5015	CAM SHAFT RETAINER WASHER	2
32	1	JB-1017	CAM SHAFT RETAINER WASHER	4
33	,	UB-5014	CAM SPACER WASHER	2
34		UB-1014	CAM RETAINER FELT	4
35	+	UB-1019	CAM SHAFT LOCK RING	2
36	<del>,   -</del>	UB-5024	BRAKE LINING (Anchor Pin End)	4
37	,	UB-5025	BRAKE LINING (Cam End)	
3	8	6419	BRAKE LINING RIVET	32
3	9	UB-5027-1	BRAKE SHOE	-1
- <u>4</u>	<del>。</del>	UB-5009	BRAKE ROLLER SHAFT	1
4	1	UB-1006-1	BRAKE CAM ROLLER	1
. <del>-</del>	12	6801	ROLLER SHAFT SET SCREW	1 1
. <u>-</u>	13	UB-1021	BRAKE RETRACT SPRING	2
	44	UB-1008-2	ANCHOR PIN	-4
. <del>-</del>	45	UB-1024	BRAKE SHOE BUSHING	8
	46	6225	BRAKE SPIDER CLAMP BOLT	2
-	<del>1</del> 7	6343	-CLAMP BOLT NUT	2
	48	UB-1012	ANCHOR PIN FELT	8
<b>-</b> -	49	UB-1004	ANCHOR PIN RETAINER WASHER	8
-	50	UB-1013	ANCHOR PIN LOCK	8
-	<del></del>	6114	BRAKE MOUNTING BOLT	3
-	52	6304	MOUNTING BOLT NUT	3
_	53	6504	LOCKWASHER	] 3
<del></del>	54	UB-1178	BRAKE SPIDER BUSHING	_
<del>-</del>	55	UB-2215	CAM SHAFT WASHER	-
<u>-</u> -	56	6501	LOCKWASHER	
<u> </u>	57	6203	CAM WASHER SET SCREW	
2	58	3 UB-5021	SHOE & LINING ASSEMBLY, Complete with Linings, Bushings, Roller & Shart	•



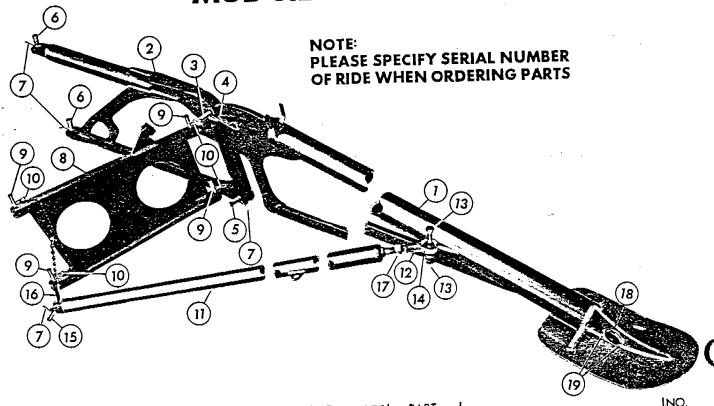


REF NO.	PART NO.	NAME OF PART	NO. REG.
1	L-325	AIR CHAMBER ASSEMBLY	2
	L-325D	AIR CHAMBER DIAPHRAGM	2
3	L <del>.</del> 325-I	AIR CHAMBER SPRING PLATE	2
4	L-325E	AIR CHAMBER RETURN SPRING	2

REF.	PART NO.	NAME OF PART	99
5	L-325F	AIR CHAMBER PUSH ROD	2
6	L <b>-</b> 325C	AIR CHAMBER (Rear Half)	2
7	L-325P	AIR CHAMBER (Front Half)	2
8	L-325K	AIR CHAMBER CLAMP	4
9	L-325A	AIR CHAMBER CLAMP BOLT	4
10	L-325H	AIR CHAMBER CLAMP NUT	4
11	L-325O	CLEVIS LOCK NUT	2
12	L-325M	CLEVIS	2
13	L-325G	CLEVIS PIN	2
14	L-325N	CLEVIS PIN COTTER KEY	2
15	L-325J	PIPE PLUG	2
16	L-325L	STREET ELL	2
17	L-325B	AIR CHAMBER NUT & LOCKWASHER	4



#### MUD SILL ASSEMBLY



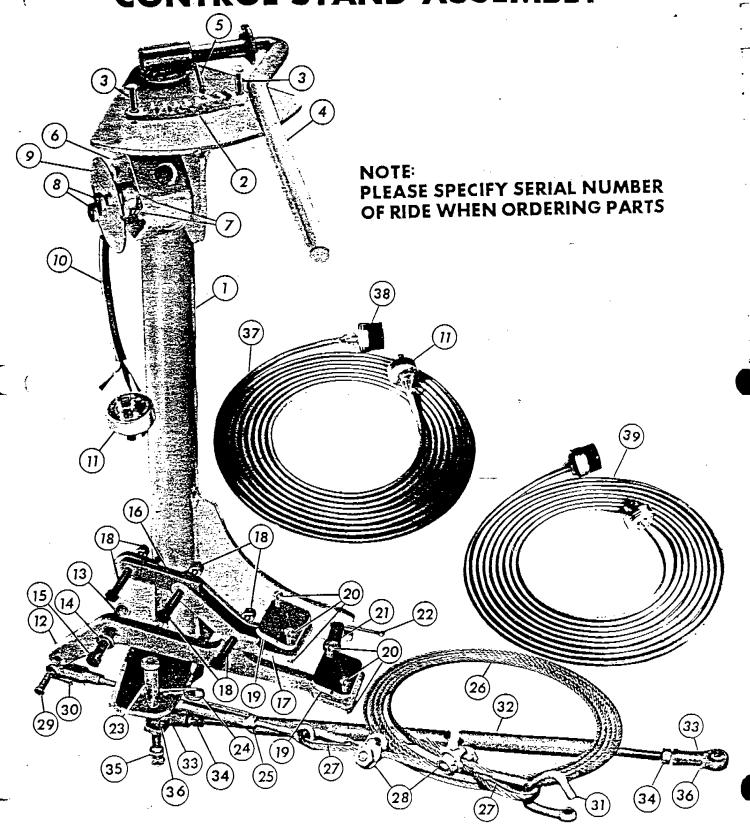
REF.	PART NO.	NAME OF PART	NO. REQ.
1	PR-6	OUTER MUD SILL (R.H.)	1
2	PR-138	INNER MUD SILL (R.H.)	1
3	PR-653	MUD SILL LOCK PIN	2
4	W-97A	MUD SILL LOCK PIN SAFETY KEY	2
5	PR-674	MUD SILL HINGE PIN	2
6	PR-185	INNER MUD SILL PIN	4
7	PR-185A	COTTER KEY	6
8	PR-146	MUD SILL GATE (R.H.)	1
9	O-26	UNIVERSAL TAPER PIN	8
10	O-26A	UNIVERSAL TAPER PIN SAFETY KEY	8
11	PR-142	MUD SILL BRACE ROD	2

*	Not	Illustrated.	
---	-----	--------------	--

1	DART I	Ú ,	NO.
REF.	PART NO.	NAME OF PART	ŘEQ.
12	PR-675_	_MUD SILL BRACE ROD END	· 2
13	PR-675A	MUD SILL BRACE ROD END BOLT ASSEMBLY	2
14	O-275A	ZERK FITTING	2
15	PR-710	MUD SILL BRACE ROD PIN	2
16	PR-646	WEDGE ASSEMBLY	2
17	PR-675B	MUD SILL BRACE ROD END LOCK NUT	2
18	PR-711	REFLECTOR	2
19	PR-711A	REFLECTOR MACHINE SCREW ASSEMBLY	4
*	PR-7	OUTER MUD SILL (L. H.)	1
*	PR-138A	INNER MUD SILL (L. H.)	1
*	PR-146A	MUD SILL GATE (L.H.)	1



#### CONTROL STAND ASSEMBLY





### CONTROL STAND ASSEMBLY

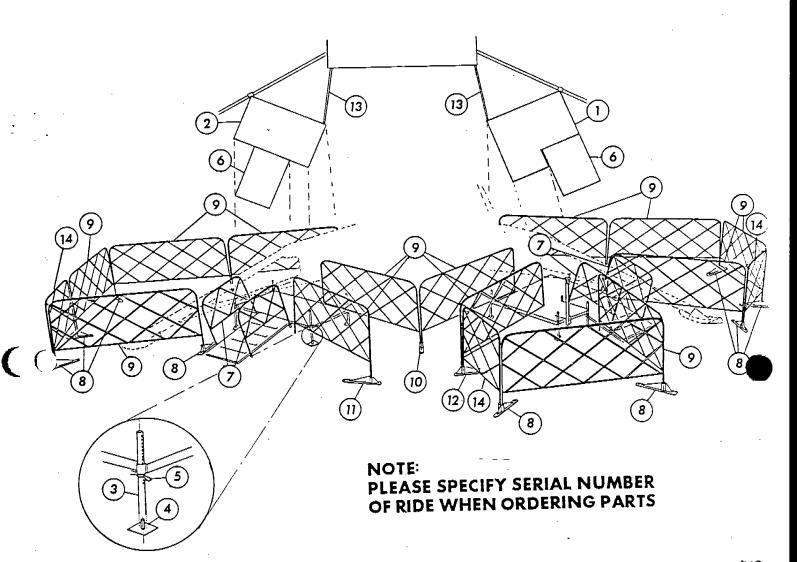
REF.	PART NO.	NAME OF PART	70. EG.
1	PR-633	CONTROL STAND	1_
2	RR-117	RATCHET SEGMENT	1
3	RR-117A	RATCHET SEGMENT BOLT ASSEMBLY	2
4	O-192	CONTROL STAND HANDLE	1
5	O-192A	CONTROL STAND HANDLE COTTER KEY	1
6	E-185	OUTLET BOX	1
7	E-30	START & STOP SWITCH	2
8	E-30A	START & STOP SWITCH MOUNTING NUT	2
9	E-186	OUTLET BOX COVER	1
10	E-39	MOTOR CORD LEAD	1
11	E-40	MALE PLUG	2
12	PR-257	FOOT BRAKE LEVER	1
13	3 PR-650	BUSHING	1
1	4 PR-257	A FOOT BRAKE LEVER WASHER	2
13	5 PR-257	B FOOT BRAKE LEVER BOLT ASSEMBLY	1
1	6 PR-259	TRIP BRAKE LOCK	1
1	7 PR-25	FOOT BRAKE RELEASE LEVER	1
1	.8 PR-25	BA FOOT BRAKE RELEASE LEVER BOLT ASSEMBLY	3
1	19 PR-25	7D FOOT BRAKE LEVER PAD	2
-	20 PR-25	7C BRAKE LEVER PAD SCREW ASSEMBLY	4

REF NO	PART NO.	NAME OF PART	70. REQ.
21	L-378	CONTROL STAND MOUNTING PIN	1
22	PR-633B	CONTROL STAND MOUNTING PIN COTTER KEY	1
23	W-83	TAPER PIN (3/4")	2
24	W-83A	TAPER PIN SAFETY KEY	2
25	PR-787	BRAKE CABLE TURN BUCKLE	1
26	PR-715	BRAKE CABLE (3/16"X 130")	1
27	RR-187B	CABLE THIMBLE (3/16")	2
28	RR-185A	BRAKE CABLE CLAMP (3/16")	2
29	PR-411B	CLEVIS PIN	1
30	PR-411C	CLEVIS PIN COTTER KEY	1
31	PR-715C	COLD SHUT (1/4")	1
32	PR-522	CONTROL ROD	1
33	O-551	CONTROL ROD END	2
34	O-551A	CONTROL ROD END LOCK NUT	2
35	PR-633A	CONTROL ROD END BOLT ASSEMBLY	2
30	6 O-275A	ZERK FITTING	2
3	7 E-194	MOTOR CORD	1
3	8 E-41	FEMALE PLUG	1
3	9 E-194A	MOTOR CORD ASSEMBLY	1
	* E-33	CORD CONNECTOR (1/2") (#6623)	1

<sup>\*</sup> Not Illustrated.



### LOADING PLATFORM & FENCE ASSEMBLY

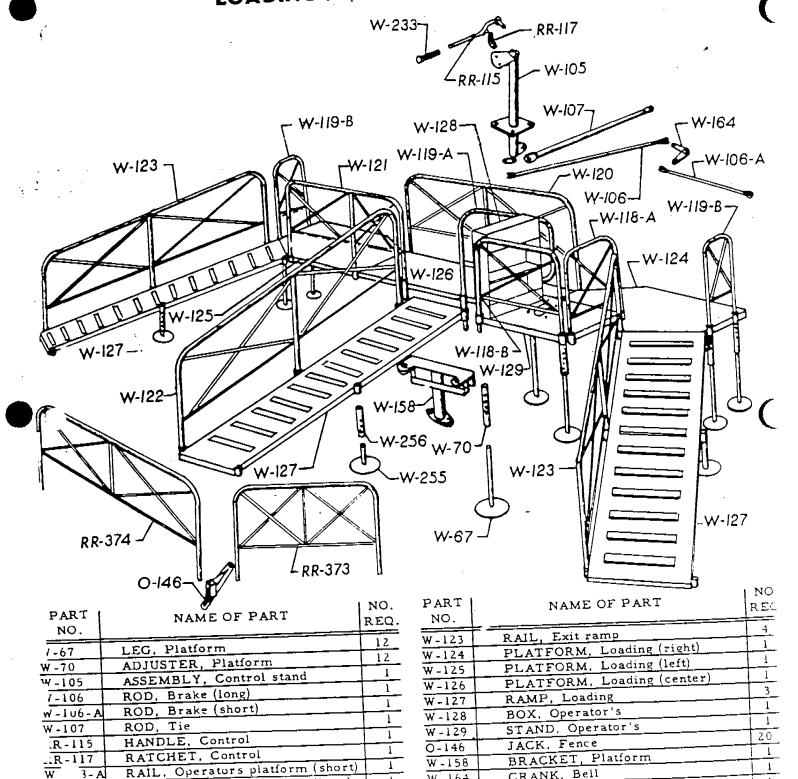


PART NO.	NAME OF PART	ZO. REG.
PR-298	LOADING PLATFORM (R. H.)	1
PR-297	LOADING PLATFORM (L. H.)	1
PR-398	LOADING PLATFORM JACK TUBE	10
PR-397	LOADING PLATFORM JACK BASE	8
W-97A	LOADING PLATFORM JACK PIN	10
PR-174	LOADING RAMP	2
PR-473	LOADING RAMP FENCE	4
	PR-298 PR-297 PR-398 PR-397 W-97A PR-174	PR-298 LOADING PLATFORM (R. H.)  PR-297 LOADING PLATFORM (L. H.)  PR-398 LOADING PLATFORM JACK TUBE  PR-397 LOADING PLATFORM JACK BASE  W-97A LOADING PLATFORM JACK PIN  PR-174 LOADING RAMP

REF.	PART NO.	NAME OF PART	NO. REG
8	O-146	FENCE JACK	18
9	O-542	FENCE SECTION (Long)	15
10	PR-794	INNER FENCE JACK	1
11	PR-793	OUTER FENCE JACK (L. H.)	1
12	PR-792	OUTER FENCE JACK (R.H.)	1
13	PR-642	PLATFORM BRACE	2
14	O-543	FENCE SECTION (Short)	







3-A

- 18-B

119 - A

W-119-B

V-120

V-121

W = 122

RAIL. Operators platform (long)

RAIL, Loading platform (R.F.)

RAIL, Loading platform (end)

RAIL, Loading platform (rear)

RAIL, Loading platform (L.F.)

RAIL, Loading ramp

CRANK, Bell

FOOT, Ramp

FENCE (short)

FENCE (long)

GRIP, Rubber hand

ADJUSTER, Ramp foot

W-164

W - 233

w -255

W-256

RR-373

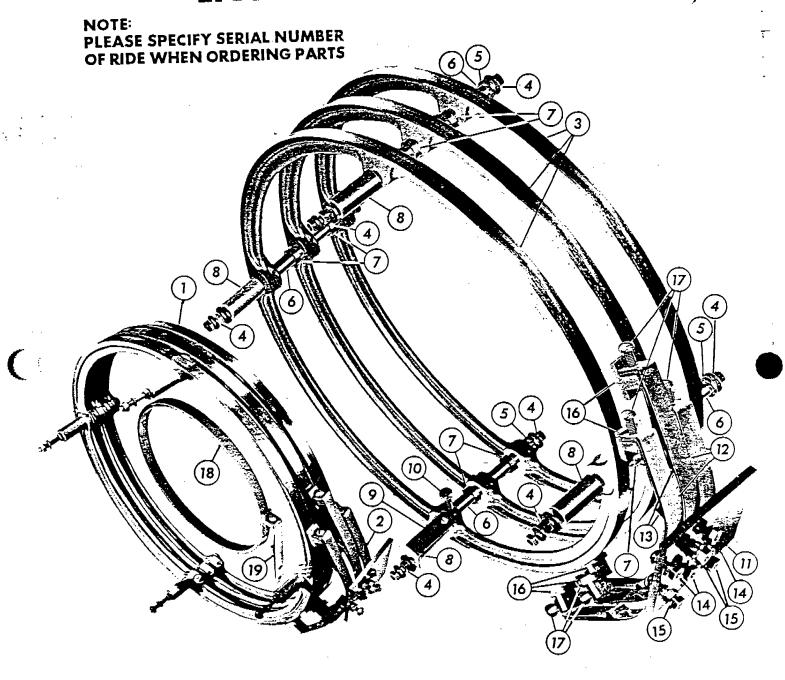
RR-374

1

2

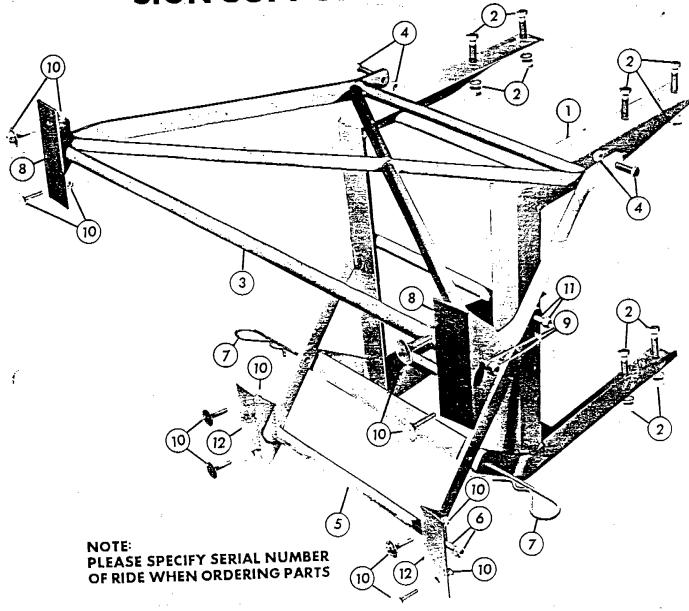


### LIGHT RING ASSEMBLY





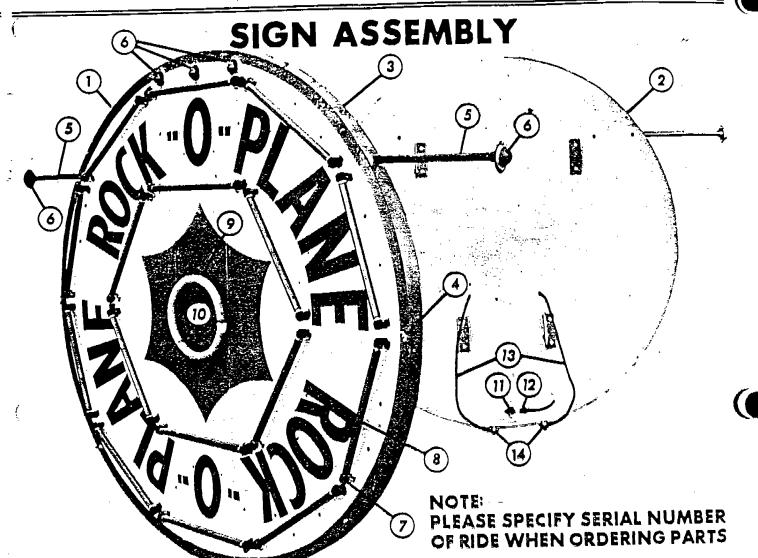
### SIGN SUPPORT ASSEMBLY



REF	PART NO.	NAME OF PART	
1	PR-341	SIGN BRACKET	1
2	PR-341A	SIGN BRACKET BOLT ASSEMBLY	8
3	PR-338	SIGN HINGE	1
•	PR-338A	SIGN HINGE BOLT ASSEMBLY	2
5	PR-342	SIGN HINGE (Front)	1
6	PR-749	SIGN HINGE ROD ASSEMBLY (Lower)	1

REF.	PART		NO. REG.
7	W97A	SAFETY KEY	2
8	PR-340C	SIGN HINGE ANGLE (Upper)	2
9	PR-748	SIGN HINGE ROD ASSEMBLY	1
10	PR-340A	SIGN HINGE ANGLE BOLT ASSEMBLY	8
11	PR-779	SIGN HINGE ROD ASSEMBLY (Middle)	1
12	PR-3+0B	SIGN HINGE ANGLE (Lower)	2





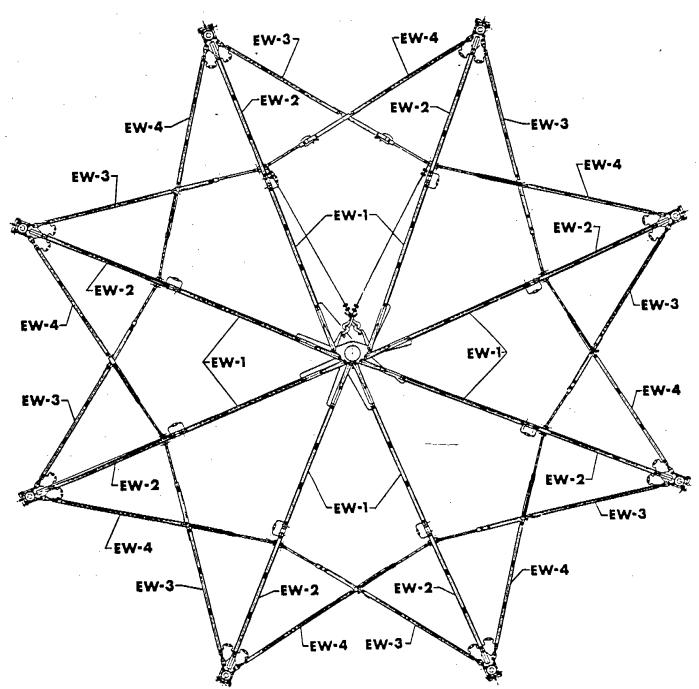
PART NO. NAME OF PART		20G
PR-741	SIGN FACE PANEL ASSEMBLY	1
PR-742	SIGN BACK PANEL	1
PR-743	SIGN BAND	1
PR-744	FACE PANEL BOLT ASSEMBLY	6
PR-437	CLEARANCE LIGHT ARM	2
E-132	CLEARANCE & MARKER LIGHTS	5
E-4	FLUORESCENT LAMP HOLDER	32
E-153	FLUORESCENT LAMP(Specify Color)	16
E-148	CIRCLINE LAMP	1
	PR-742 PR-743 PR-744 PR-437 E-132 E-4 E-153	PR-741 SIGN FACE PANEL ASSEMBLY PR-742 SIGN BACK PANEL PR-743 SIGN BAND PR-744 FACE PANEL BOLT ASSEMBLY PR-437 CLEARANCE LIGHT ARM E-132 CLEARANCE & MARKER LIGHTS E-4 FLUORESCENT LAMP HOLDER E-153 FLUORESCENT LAMP (Specify Color)

No.	PART I	NAME OF PART	ZO.
10	E-149	CIRCLINE LAMP CLIP	6
11	E-196	MARKER LIGHT PLUG (Male)	1
12	E-197	MARKER LIGHT PLUG (Female)	1
13	E-195	FLUORESCENT LIGHT CORD	2
14	E-3	FLUORESCENT LIGHT PLUG (Male)	2
•	PR-437A	CLEARANCE LIGHT ARM BOLT ASSY	. 4
+	E-11	BALLAST	16
•	E-147B	CIRCLINE BALLAST	11
-	PR-334	SIGN ASSEMBLY	7

<sup>\*</sup> Not Illustrated.



### **FLUORESCENT FIXTURES**



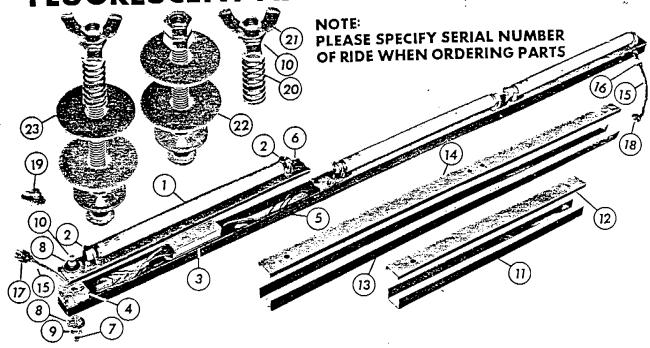
DETERMINE THE PART NUMBER OF THE LIGHT IXTURE REQUIRED BY IT'S POSITION ON RIDE

REFER TO NEXT PAGE FOR PART NUMBERS WHEN CRDERING COMPONENT PARTS

NOTE:
PLEASE SPECIFY SERIAL NUMBER
OF RIDE WHEN ORDERING PARTS



# FLUORESCENT FIXTURE COMPONENTS

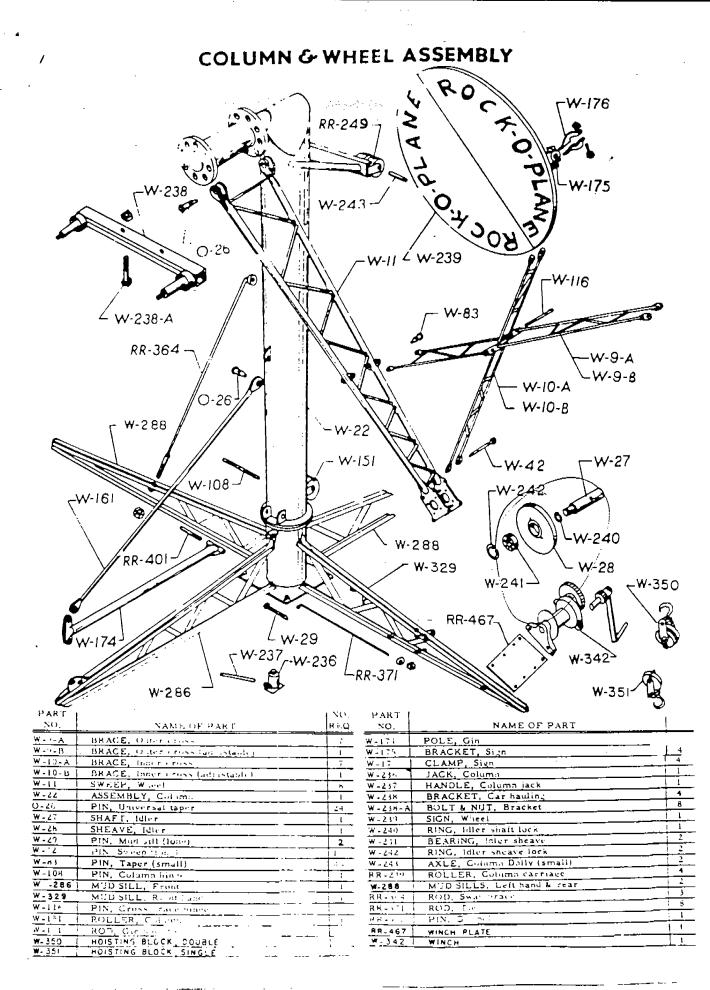


REF.	PART NO.	NAME OF PART	
	E-IC	FLUORESCENT LAMP (Green)	
1	E-160	FLUORESCENT LAMP (Gold)	-
1	E-1R	FLUORESCENT LAMP (Red)	-
2	E-4	FLUORESCENT LAMP HOLDER	6
3	E-11	BALLAST	3
4	E-10	BLOCK (Box End)	2
5	E-15	BOX (Three Lamp Fixture)	1
6	E-8	BOX COVER (Three Lamp Fixture)	1
7	E-14	MOUNTING BOLT	2
8	E-12	WASHER (Flat)	1
9	E-13	WASHER (Curved)	2
10	E-6	MOUNTING NUT (Standard Ride)	2
11	E-22	BOX (Two Lamp Fixture)	1
12	E-21	BOX COVER (Two Lamp Fixture)	<u> </u>
13	E-16	Box (One Lamp Fixture)	
14	E-19	80X COVER (One Lamp Fixture)	
15	E-2	FLUORESCENT FIXTURE CORD (9")	
15	E-2A	FLUORESCENT FIXTURE CORD (15")	
15	E-2B	FLUORESCENT FIXTURE CORD (18")	
15	E-2C	FLUORESCENT FIXTURE CORD (22")	<u> </u>

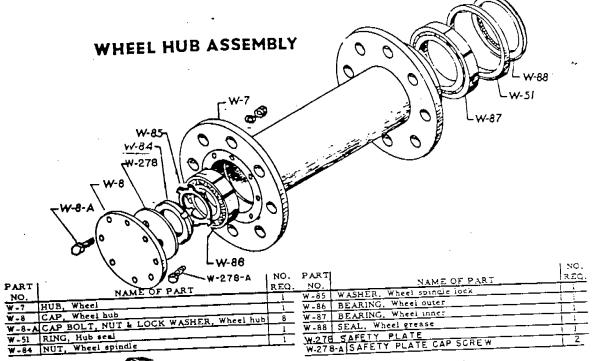
NOTE: The "No. Req." Column Indicates the Number of Each Part Required for a Three Lamp Fixture.

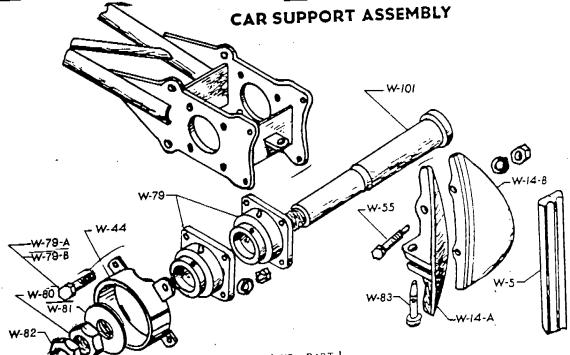
REF.	PART NO.	NAME OF PART	NO. REQ.
15	E-2D	FLUORESCENT FIXTURE CORD (24")	
15	E-2E	FLUORESCENT FIXTURE CORD (26")	
15	E-2F	FLUORESCENT FIXTURE CORD (28")	
15	E-2G	FLÜORESCENT FIXTURE CORD (32")	
15	E-2H	FLUORESCENT FIXTURE CORD (36")	
15	E-2J	FLUORESCENT FIXTURE CORD (40")	_
15	E-2K	FLUORESCENT FIXTURE CORD (48")	
15	E-2L	FLUORESCENT FIXTURE CORD (53")	
15	E-2M	FLUORESCENT FIXTURE CORD (63")	
16	E-9	CORD GRIP	2
17	E-20	MALE CAP (Midget)	1
18	E-17	CONNECTOR BODY (Midget)	1
19	E-3	MALE CAP	1
20	E-7	SPRING (Mounting)(Standard Ride)	2
21	E-5	WING NUT (Mounting Bolt) (Standard Ride)	2
22	E-148	MOUNTING BOLT ASSY.(Permanent Ride	1
23	E-14A	MOUNTING BOLT ASSY, (Standard Ride	
•	E-11A	MACHINE SCREW ASSEMBLY	$\perp$
•	E-8A	SHEET METAL SCREW (Box Cover)	

<sup>\*</sup>Not Illustrated. - Specify Number Required.



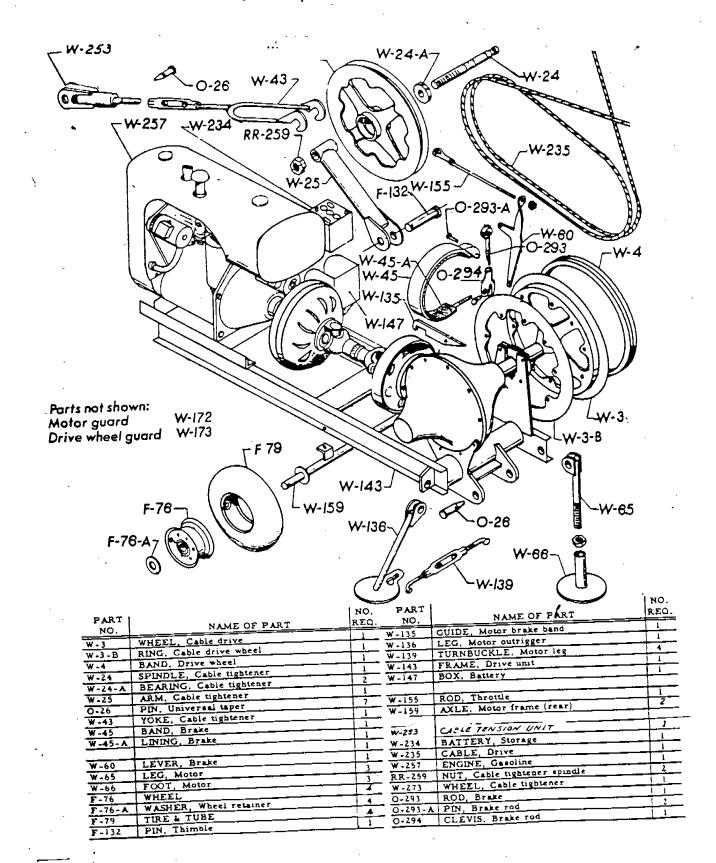
and the second



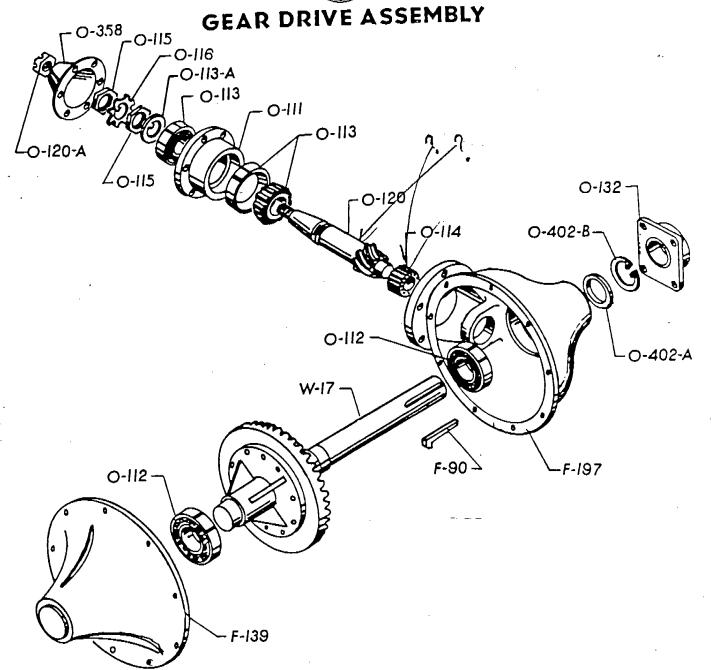


	NO	PART	REQ.
	l	NO	NAME OF PART
NO. NAME OF PART	8	W-79-A	The state of the s
W-5 LINER, Shoe	8	w - 79 - B	IBOLT, NUT & L. W., Car spinion
W 14-A SHOE, Cable (left)	Б_	W-60	NUT, Car spindle
W-14-B SHOE, Cable (right)	8	W - 81	WASHER, Car spindle
W-44 DRUM, Car brake Cable shop	16	W-82	NUT, Car spindle lock 3
W-44 BOLT, NUT, L. W., Cable shoe	н	W-83_	PIN, Cable block
W-101 SPINDLE, Car	16_		
W-79 BEARING, Car soundle			

#### POWER UNIT ASSEMBLY







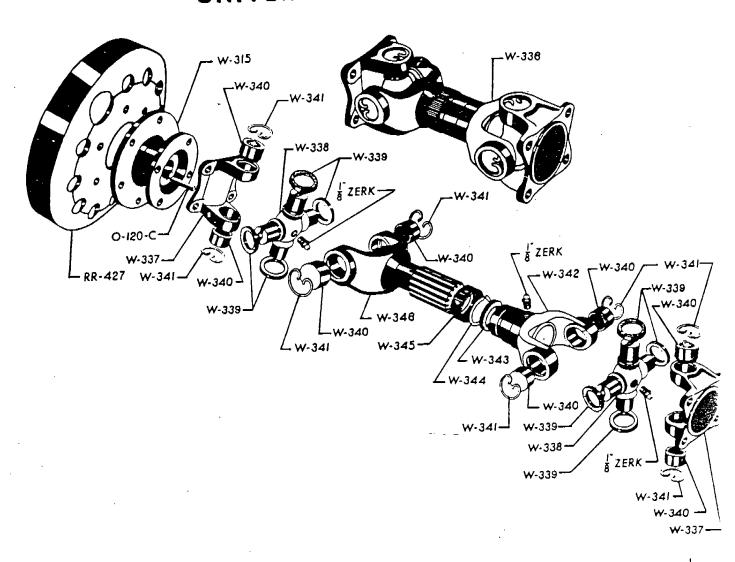
NAME OF PART	NO. REQ.
E. Gear drive	1
	2
	1
ARING, Pinion	2
SHER, Pinion bearing	
ARING, Pinion pilot	1
CK WASH. Pinion bearing nut	1
	E, Gear drive  I, Axle EMBLY, Pinion sleeve ARING, Drive shaft ARING, Pinion SHER, Pinion bearing ARING, Pinion pilot T, Pinion bearing

NAME OF PART	NO. REQ.
PINION	1
NUT, Pinion	$\frac{1}{1}$
BEARING, Drive shaft	1 · 1
	<del> </del>
HOUSING, Lower	<del></del>
PLATE, Pinion cover	<del>-   ].</del>
SEAL, Housing bell grease	
RING, Housing Bell loc-	
	PINION NUT, Pinion



## ROCK-O-PLANE PARTS CATALOG

### UNIVERSAL ASSEMBLY



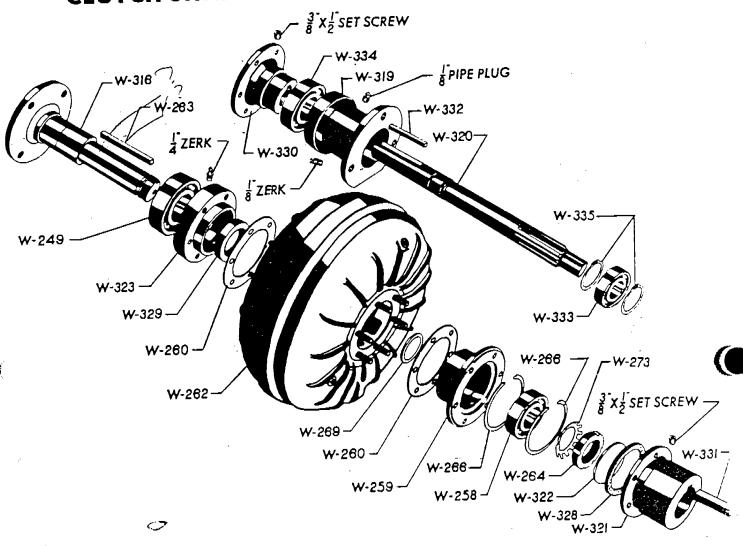
			1		I NO.
PART	TANKE OF BART	NO. REQ.	PART NO	NAME OF PART	REC
NO.	NAME OF PART	+==	W-346	YOKE SHAFT	<del></del>
0-120-C	KEY, Brake drum flange	1-1-	RR-427	DRUM Brake	<del></del>
W-315	FLANGE, Brake drum	<del>                                     </del>	•	CAP SCREW, Brake drum (3/8" X 1-1/4" N.F. Thd.)	6
W-336	UNIVERSAL ASSEMBLY	2_		LOCKWASHER, Brake drum (3/8")	1 6
<u> W - 337</u>	FLANGE YOKE	2	*	NUT, Brake drum (3/8" N.F. Thd.)	6
W - 338 W - 339	JOURNAL CROSS GASKET & RETAINER, Journal cross	8_		T CODEW TINIVERSAL VOKE (11011)	1
W-340	AFARING Journal cross	- <del>8</del> -	·	$(7/16" \times 3/4" \times 1.1.9.1$	<del></del>
W-341	SNAP RING, Journal cross bearing	1 1	•	CAP SCREW, Universal yoke (rear) (7/16" X 1-1/4" N.F. Thd	) 4
W - 342		1		VOKE (rear) 17/16	1 1 4
W-343 W-344	WACUED	++-	. <del></del>	NUT Univ. voke (rear) 7/16" N. F. Thc.	<u>: : +</u>
	DUST CAP		. <del></del>	<u> </u>	

<sup>·</sup> not illustrated



### ROCK-O-PLANE PARTS CATALOG

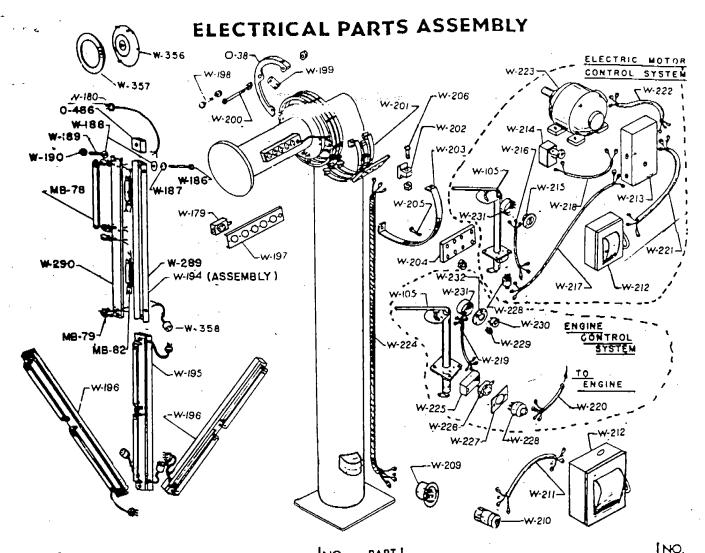
### CLUTCH SHAFT & FLUID COUPLING ASSEMBLIES



1	1	NO.	PART	NAME OF PART
PART NO.	NAME OF PART	REO.	NO.	SHAFT, Clutch
317 350	BEARING, Fluid coupling (outer) BEARING, Fluid coupling (inner)	1	₩ - 321	HUB, Electric motor
W - 259	CARRIER, Fluid coupling bearing (inner)	2	W 173	CARRIER, Fluid coupling bearing (out: SEAL, Fluid coupling (inner)
W - 262	HOUSING & IMPELLER ASSY. Fluid Coupring	1	W - 329	SEAL, Fluid coupling (outer)
W - 263 W - 264	NIIT Fluid coupling shaft	2	• W - 331	
<del>- 3/</del> 0	SNAP RING, Fluid coupling bearing SPACER, Fluid coupling bearing	1	W . 113	KEY, Clutch shaft BEARING, Clutch shaft (inner)
W - 273	LOCKWASHER, Fluid coupling shall had	1	111 2 2 4	BEARING, Clutch shaft (outer) SNAP RING, Clutch shaft bearing
W-319	HOUSING, Clutch shaft bearing			<del></del>

NO.

<sup>\*</sup>Used with electric power only.



PART NO.	NAME OF PART	NO. REG.
O-38_	LIGHT RING (Half)	6
W-105	CONTROL STAND	1
W-179	RECEPTACLE	10
W-180	RECEPTACLE CAP	3.4
O-406	BOX END (Fluorescent Fixture)	6+
MB-78	FLUORESCENT TUBE	96
MB-79	FLUORESCENT TUBE SOCKET	192
MB-82	FLUORESCENT BALLAST	96
W-186	BOLT Stringer	64
W-187	BEVEL WASHER	64
W-188	FLAT WASHER	64
W-189		64
W-190		64
₩ <b>-</b> 356		1
W-357	SIGN LIGHT TUBE	
<del>W-</del> 358		24
<u>W-194</u>		8
W-195		8
W-196		16
W-197		8
W-198	BOLT, Light Ring Bracket	
W-199	LIGHT RING BRACKET	4
W-200		1
W-2()		
W-202		6
W - 20		3
W-20	4 BRUSH INSULATOR BLOCK	$\frac{1}{6}$
<b>W</b> = 20	5 BRUSH BOLT & NUT	

PART NO.	NAME OF PART					
W-206	PAD BOLT & NUT	6_				
W-289	LIGHT BOX	32				
W-290	LIGHT_BOX_COVER	32				
W-209	COLUMN RECEPTACLE	1				
W-210	COLUMN RECEPTACLE CAP	1				
W-211	LEAD (Column to Switch)	1				
W-212	MAIN SWITCH	1				
W-213	MAGNETIC SWITCH	1				
W-214	BRAKE LEVER SWITCH	1				
$\overline{W - 215}$	SELECTOR SWITCH	1				
W-216	I FAD (Control Stand (Electric Power)	<del>  1</del>				
W-217	LEAD (Control Stand to Magnetic Switch	1) 1				
W-218	LEAD(Brake Lever Switch to Magnetic	1				
	Switch	1 1				
W-219	LEAD(Control Stand(Gas Power)	1				
W-220	LEAD(Control Stand to Engine)	1				
W-221	[LEAD (Main Switch to Magnetic Switch)	1				
W-222	LEAD(Magnetic Switch to Motor)	1				
$\overline{W - 223}$		1				
W-224	LEAD (Column)	1				
W-225	CONTROL STAND RECEPTACLE BOX	1				
W-226	CONTROL STAND RECEPTACLE	1				
W-227	TBOX CÔVER	1				
W-228	I DECEDIACI E CAP					
W-229	START & STOP PUSH BUTTON SWITCH					
_ <del>W=</del> ⊇3	NAMMETER	1				
$\overline{W-23}$	UPPER CONTROL STAND BOX	1				
W-23	UPPER BOX COVER	1				



# DEPARTMENT OF AGRICULTURE WEIGHTS AND MEASURES DIVISION 106 WEST SECOND STREET FRANKFORT, KENTUCKY 40601

November 13, 1991

TO:

ALL AMUSEMENT RIDE INSPECTORS

ALL AMUSEMENT RIDE OWNERS/LESSORS/OPERATORS

SUBJECT:

Correct Door-Lap Bar, etc. Safety Key

There has been incidents that possibly involve item or items of equipment as designed by the original manufacturer of listed rides that have not been used or have been used incorrectly and that the possibility of a lack of knowledge has reflected to cause some of the problems.

Eyerly Rides: Fly-O-Plane

Loop-O-Plane Rock-O-Plane Roll-O-Plane Side Winder

Items of concerned by original MFG Part #W-97A Clip, Belt-Bar Safety Key.

Correct Clip (safety key) is of the design of an R-Pin but it is not an R-Pin. This Special Design and its type of steel, it is designed to function as a Safety Key on Lap Bars and Lap Belts on the securing of doors on the above listed rides. See Attachment #1.

The hole in the end of lap belt for part number L-421,-W-97, etc. will not be less than 3/8" from inside of hole to outside of metal for retaining pin in hole.
Attachment #12

Note on Attachment #2, paragraph U. it states that should the secondary safety pin hole becomes enlarged, weld up with mild steel rod and redrill to fit pin.

.

Be it is noted on Attachment #3 is illustrated showing a Safety Belt (F-215) without the bar. To the best of our knowledge, Eyerly Manufacture Rides up to 1944 and 1948 the manufacturer had two design carriers for the above listed rides and the buyer had the option on which carrier he desired. As best as known the carriers that were designed with belts usage could not be modified to incorporate their safety belt bar. As to last knowledge as to Mr. Eyerly in 1987 there was at least 50 of these rides still operating.

Note Attachment #5 (item 31), Attachment #9 (item 3), illustrates leather strap that is permanent attached to carrier to hold key while loading and unloading. This strap or similar material must be used to hold safety key. This is to remind operators to install in the lap bar end or belt hole and not to keep in their pocket. Also, if not installed pin will still be attached and not lost and could be seen flying around. Stop ride immediately and install properly. Refer to Attachment #11.

In Attachment #7, item W-97-B and Attachment #12 on item W-97-B and item #34, shows proper way to install safety belt on safety bar.

Attachment #7, item W-131, Attachment #10, item #10 is plunger-door, latch. Attachment #8 item #12 is the other style plunger-door latch.

Inspect - make sure spring W-94, Attachment #7 or Spring #11, Attachment #8, or #10 operate correctly. Insure that plunger end goes in to frame tubing at least to the end of the slanted part/or round part towards the knob W=131-A, Attachment #7, or knob #13 Attachment #8 or #10, Attachment #10.

Sincerely,

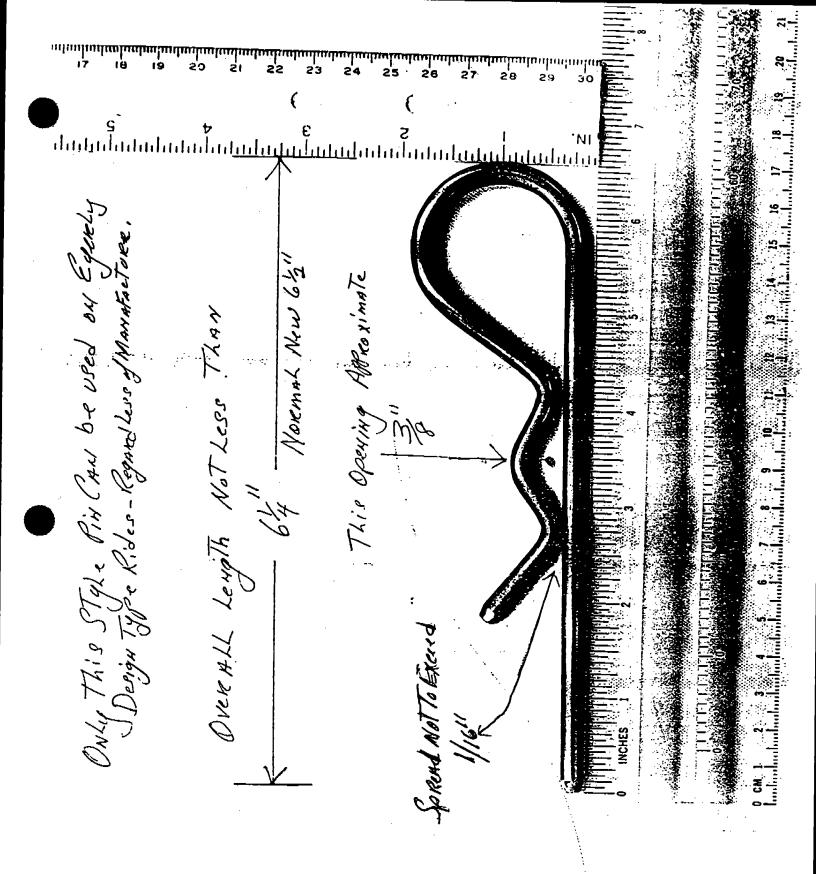
Carl Dills, Assistant Director

MARIAN

Division of Weights and Measures

CD/jg

cc: Attachments



KY DEPT OF AGRICULTURE I Division of Weight & Messures

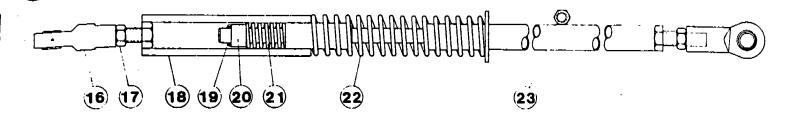
Amusement may a Attraction of Control of Section of St.

196 W. Second Min-Frankfort, Kentucky (1964)

ATTACK MUNIT #

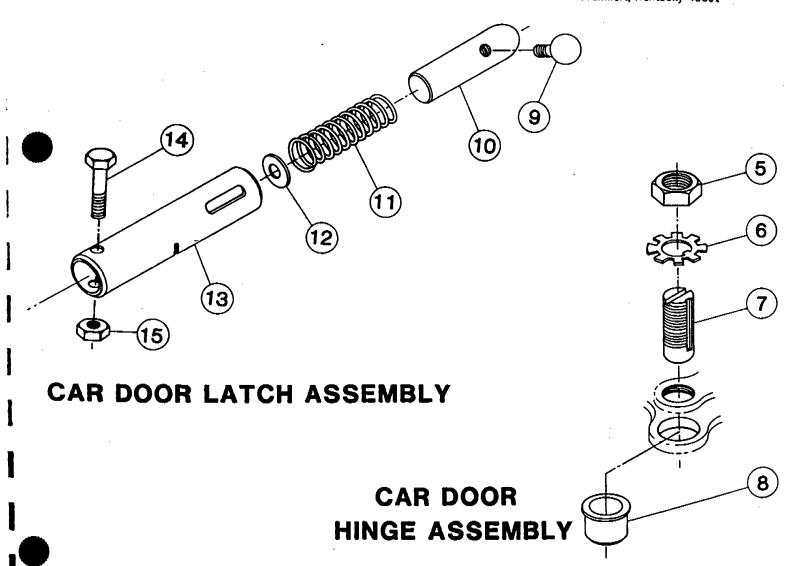
#### CAR ASSEMBLY

Side Winder



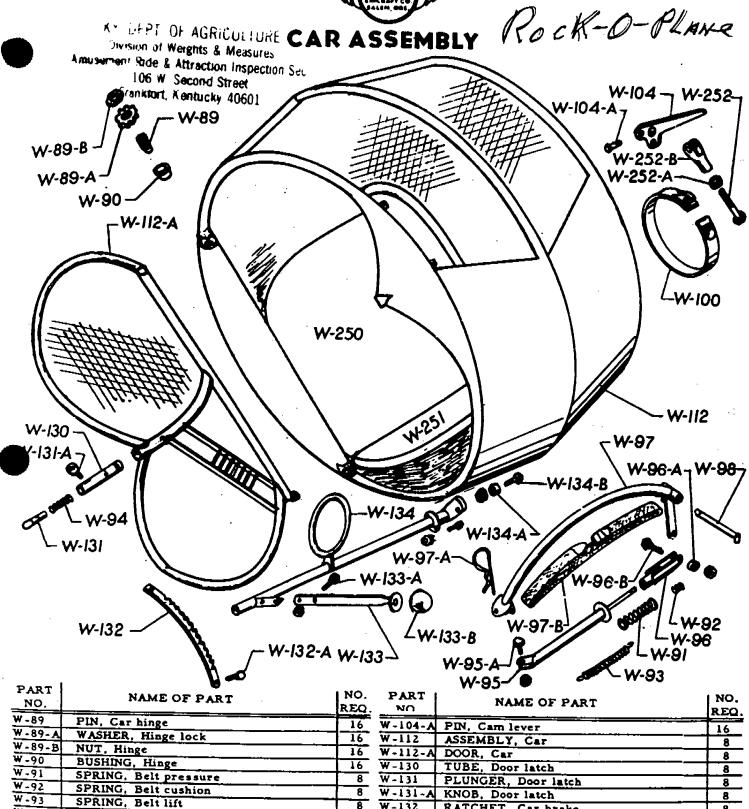
#### TIE ROD ASSEMBLY

KY DEPT OF AGRICULTURE
Division of Weights & Measures
Amusement Ride & Attraction Inspection Sec
106 W Second Street
Frankfort, Kentucky 40601



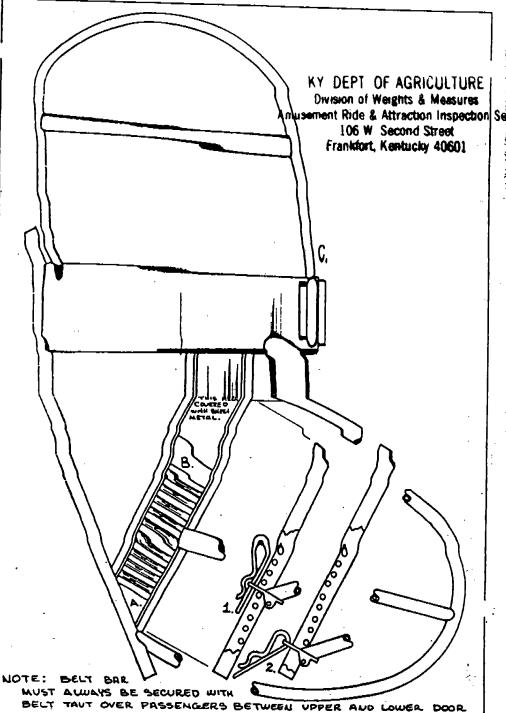
Attachment #10





	KEQ.	NO		REQ.
W-89 PIN, Car hinge	16	W-104-A	PIN, Cam lever	16
W-89-A WASHER, Hinge lock	16	W-112	ASSEMBLY, Car	<u> </u>
W-89-B NUT, Hinge	16	W-112-A	DOOR, Car	
W-90 BUSHING, Hinge	16	W-130	TUBE, Door latch	8
W-91 SPRING, Belt pressure	8		PLUNGER, Door latch	8 8
W-92 SPRING, Belt cushion	8		KNOB, Door latch	
W-93 SPRING, Belt lift	8	W-132	RATCHET, Car brake	8 8
W-94 SPRING, Door latch	8	W-132-A	BOLT, Ratchet	
W-95 ROD, Belt tie	8	W-133	LEVER, Car brake	16
W-95-A BOLT & NUT. Belt tie rod hinge	8	W-133-A	BOLT & NUT, Brake lever	
-96   CLEVIS, Belt tie rod	<del>-   8</del>	W-133-B	BALL, Brake lever	16
-96-A SPACER, Clevis	8	W-134	ASSEMBLY, Car brake rod	8
96-B BOLT & NUT, Clevis	——————————————————————————————————————	W-134-A	ROLLER, Car brake cam	
-97 BAR, Belt	- A	W-134 B	BOLT & NUT. Cam	- B
W-97-A CLIP, Belt bar safety	-   -			8
T-97-BI BELT Safety	8		BACK, Car seat	- 8
W-98   PIN Bar hims	-   <u>8</u>		BOTTOM, Car seat	
W-100   BAND Car backs	——— — <u>—</u>		BOLT, Car brake adjustment	8
W-104 LEVER, Car brake cam	- 8	W 353 D	NUT, Adjustment bolt lock	8
		W - 626-B	CLEVIS, Car brake A The mich	<del>//_/78</del>
			Fr 1870- CONT	<del></del> /

. · . 



MUST ALWAYS BE SECURED WITH

BELT TAUT OVER PASSENGERS BETWEEN UPPER AND LOWER DOOR

LADDER RUNGS. SPRING SAFETY KEY MUST BE RETAINED AT MIRST DETENT

(FIG. 1.). IF BELT BAR IS IMPROPERLY SECURED BELOW BOTTOM RUNG (POINT A)

TOR ABOVE TOP RUNG (POINT B.) IN DOOR LADDER AND IF SAFETY KEY. IS

IMPROPERLY THROUGH BELT BAR PAST DETENT TO THE TOP OF THE LOOP

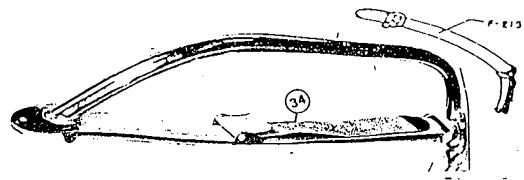
(FIG. 2.) AND IF SEPERATE DOOR LATCH (FIG. C.) IS NOT PROPERLY FASTENED,

DOOR MAY OPEN.

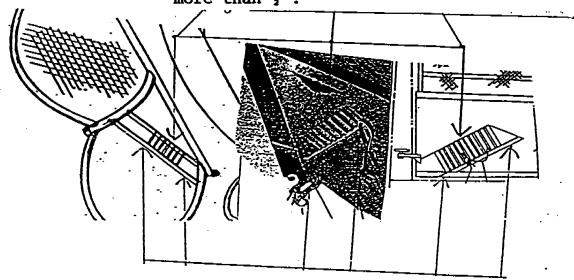
FACTORY APPROVED AND RECOMMENDED MODIFICATION:
INSTALL GUSSETS (""MATERIAL") AT POINTS A & COMPLETELY FILLING
FILLING AREA TO WITHIN "2" OF NEAREST CADDER RUNG, ATTACK BY WELDING.

THIS INSTRUCTION MAY ALSO BE USED WITH FLY-D, ROCK-O ! ROLL-O-PLANE CAR DOORS.

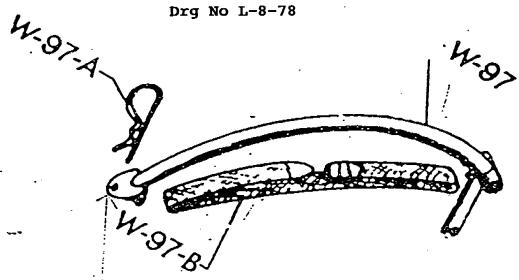
DOOR MODIFIC	ATION BULLETIM	COV
DRAWN BY TECALE NO	REO'D:   MATERIAL	CHENU
	<u> </u>	
4-6-78 NEXT 488Y:	101 NO	Ja 41
4-6-78   ~	400 BY NO	Drg. No. L-8-78



Spacing on installed bar on door(s) not more than ½".



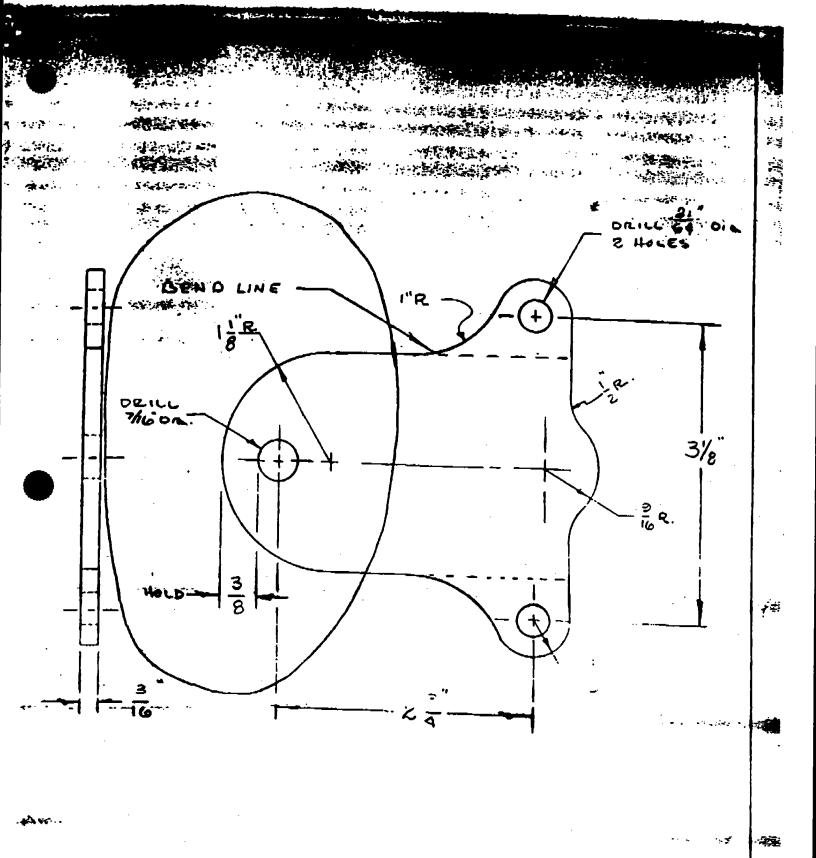
Upper and Bottom Filler Plate Door Modification Bulletin dated 4-6-78 Drg No L-8-78



Space between inside of hole to outside of metal no less than 3/8"

KY DEPT OF AGRICULTURE
Division of Weights & Measures
Assusement Ride & Attraction Inspection Sec
106 W Second Street

106 W Second Street Frankfort, Kentucky 40601 AHACHMENT 12



\* WAS DRILL 11 \$2 11/1/ 2-3-75

٤ ٤	おモレヤ	BAR B	RACKET
AWN BY:	FULL	NO. REO'D.	BURN FROM 3/16" MSPE
14-71	W-97	SDS. NO	EFF WAN.





### OREGON RIDES INC.



MEMBER

#### R-O C K - O - P L A N E CHECKLIST

(Device) Name			Serial #			
Inspection	Date			spected By	<del></del>	
available f	er to the proper fact splanation of Inspect rom us) In addition d be checked:	ory Parts ion and Ma to your ro	Catalog	and Operating Instru	uction Manual for	
DESCRIPTION	WHAT TO CHECK	OK/ /BY	DATE	NOTES AND REMA	RKS	
1. Mudsills			<u> </u>			
2. Sweeps	Check for cracks or structural damage			NotifyO.R.I. if are discovered.	damage or cracks	
3. Column						
4. Car Hubs	Looseness on spindle when lock nuts are set.			If spindle turns i lock nuts are tigh hub kit # W-423. R inner nut and wash damaged.	t, install car eplace tapered	
5. Car Spindle	Visually check for wear or damage			If spindle is worn welded on, replaced ABSOLUTELY NECESSA	ment is	
6. Car Brake	Drum wear, worn boits, enlarged boit holes.			Any looseness requidrum replacement.	res drum bolt or	
7. Door Latch & Hinge	Correct alignment			Align and remove pl and parts manual)	ay (See operating	
8. Mudsill Tie Rods	Bent or cracking at the head. damaged threads.			Replace if any of t exist.	hese conditions	
9. All pins & Safeties	pins should fit snug. safeties should be tight			Replace If loose or factory pins ONLY.	damaged with	
10. Cars	Broken or worn tubes, loose or cracked screen			Notify O.R.I.for reon tubing. Repair or	epair procedures replace screen.	

P.O. Box 9066 • Brooks, Oregon 97305 Office: (503) 760-1511 • Parts & Shop: (503) 390-9015 • FAX: (503) 390-4858

DESCRIPTION	WHAT TO CHECK	OK/ /BY	DATE	NO.ES AND REMARKS
11.Automatic Belt Bar Assembly	Condition of all fasteners, lost or broken springs, belt bar door key hole for wear. (Max. from out = side of hole to end of bar,3/8") Worn or damaged door keys, missing door key straps, restraint belt condition.			Replace worn belts. Enlarged holes should be weld-filled an redrilled. Install new fasteners keys and straps as required.
12. Car Brake Lever and Ratchet;	Visually and mechanically check for wear's positive locking.			If brake lever fails to hold positively, replace worn components with new factory part
13. Car Brake Band	Check lining for wear & holding ability. Check cam & rollers for excessive wear, Worn bolts & enlarged holes.			If holding ability is not adequa check all components, replace as necessary.
14. Drive Cable	Check for broken strands and kinks.	·		Replace rable if any of these conditions exist. Always keep a spare cable on hand.
15. Drive Wheel Liner	Check for wear or, deterioration			Replace liner if excessive wear deterioration exists. Always kee a spare liner on hand.
	Check for wear or deterioration.			If cable runs to one side, repla rubber liners & check for proper cable alignment.
Cross Braces	Check that pins are snug & holes are not worn over-size.			If any looseness is found, pin holes should be reamed & factory oversized pins installed.
Floorboards	Check for loose bolts, broken or cracked seats, general condition			if any of these conditions exist repair or replace as necessary,
Components	Worn or bad cords or plugs, light & brush assemblies.			If any worn or unsafe condition exist, repair or replace with correct type & size wire or cable Replace brushes or light rings is worn excessively.

· · <u>•                                  </u>				
DESCRIPTION	WHAT TO CHECK	0K/ /8Y	DATE	NOTES AND REMARKS
20. Column Cabl Idler	e Alignment, looseness, worn parts.			Repair or replace as necessar
21. Fluid Clutch	Looseness & leal	k-	-	Tighten all bolts/nuts. Replaces
22. Universal Joints	Alignment & worm			Repair or replace as needed.
23. Brake Drum & Band	Excessive wear, and lining condition.	-		Repair or replace as needed.
24. Rear end Pinion;	Oil leakage and looseness.			Replace seal. Tighten pinion bearing, locknuts.
25. Control Stand	Condition of ratchet lug.			If handle will no longer lock place, grind lug or replace winnew handle. Ratchet quadrant canot be ground, Replace.
26. Platform ε Ramps	Damage or excess- ive wear.			Repair or replace as necessary.
ADDITIONALLY FOR	PORTABLE MODEL	.d	<del></del>	
& Scissor	Damage or excess- wear, loose pins, & enlarged holes			Oversize or replace as necessar
Transport Cable	Over-all safe condition. Excessive stretch.			If unsafe condition or excessive stretch exists. Replace.
O. All over - Center attaching locks	Vear & proper odjustment.			Replace excessively worn parts. Adjust for positive locking.
. Cross cables i	mproper adjust- ent, worn parts,			Adjust or replace for proper tension.
. Fifth wheel Co	racks or struct~		-	If these conditions exist, notify O.R.I.
column	- ".		I	J. K. I .

DESCRIPTION	1 100 x 70 cusck	<del>-</del>	1 0ATC	
, A	WHAT TO CHECK	OK/ /BY	DATE	NOTES AND REMARKS
33. Drive cable adjust assy	Interior missing parts, excessive wear, broken internal spring.			Repair or replace as necessary.
34. Drive Wheel Belts	Hardness, cracks, deterioration or missing.			Replace if any of these conditions exist.
35. Countershaft & Bearings	Alignment, loose bearings, general condition.		<b></b>	Repair or replace as necessary
36. Control Stand Brake Controls	Over-center locking cable, for wear or improper operation.		· ,·	Repair or replace as necessary.
37. Drive Wheel Brake and Related Linkage	Excessive drum wear, lining, unsound linkages.		:	Repair or replace with factory parts. Replace worn bolts.
<del></del>				<del> </del>

#### NOTE;

When ordering parts please give serial number of your machine along with part numbers from the Parts Catalog and Operating Instruction Manual.