

### Service Manual Service Manual Keysheet - YC18,24,28,38,48

Area 1		Area 17
Drive Axles — SMI Steering Controls — SMI Power Steer Cylinder — SMI Rear Steer Indicator — SMI Power Steer System — SMI Choke & Throttle Controls — SMI Electric Schematic — SMI Four Speed Trans — SMI Trouble Shooting Power Shift Trans	-5-2.0  -7-7.0  -9-14.0  -9-17.0  -14-5.0  -15-11.0  -18-9.0  -18-21.0	Hyd. Boo Shooting Two Powe Boom———————————————————————————————————
mission & Torque Convertor SM1 Power Shift Trans- mission SM1 Hdydrovac SM1	-18-22.0 -18-23.0	placemen Boom Ext System —
Hdydrovac — SMI Brake System — SMI Rear Axle Support — SMI Park Brake — SMI Outrigger Cylinder — SMI	-26-6.0 -29-3.0	Extend-Re Extend-Re Holding ridge—— Holding
Outrigger Cylinder — SMI Outrigger Circuit — SMI Sump Tank — SMI Outrigger Lock Valve — SMI	-37-2.0 -38-36.0 -39-1.0 -44-5.0	Holding / ridge — Boom Hoi Boom Hoi
Outrigger Control Valve SMI Rotating Joint SMI Tire Inflation SMI Collector Ring SMI Rear Axle Lockout SMI Lockout Cylinder SMI	-47-5.0 -48-2.0 -69-1.0 -76-5.0	Boom Hoi Hold Val Holding Holding Check Va Swing Or
Area 3 Swing Lock————————————————————————————————————		Speed Re- Hoist Dr Wire Rope
Area 6		Wire Rope Control—
Storage Battery SM6	-29-1.0	
Area 7 Hyd. System (Gen.)——SM7 Pressure Setting——SM7 Crossover Relief		
Valve ————————————————————————————————————		
Swing System SM7 Speed Reducer SM7 Swing Motor SM7 Relief Valve Trouble Shooting SM7	-6-23.0 -6-25.0	
Rear Steer Or Swing Control Valve ————————————————————————————————————	7-8-11.0 7-8-21.0 7-9-13.0	
Hyd. Tubing & Fitting Information ————— SM7	-18-1.0	

Hyd. Boom Trouble
Shooting————————————————————————————————————
IWO Power Section
Boom ———————————————————————————————————
Boom
Hydraulic Boom
Removal ————————————————————————————————————
One Power Section
Boom ———————————————————————————————————
placement (Bolted)——SM17-1-6.0
Turntable Bearing Re-
placement (Welded) SM17-1-8.0
Boom Extend-Retract
System ————————————————————————————————————
Extend-Retract Cyl.——SM17-2-2.0
Extend-Retract Cyl.—SM17-2-8.0
Holding Valve Cart- ridge————————————————————————————————————
Holding Walve Cart-
ridge
Boom Hoist System SM17-3-2.0
Boom Hoist Cylinder—SM17-3-3.0
Boom Hoist Cylinder
Hold Valve ————————————————————————————————————
Holding Valve ————————————————————————————————————
Holding Valve ————————————————————————————————————
Holding Valve ————————————————————————————————————
Swing Or Hoist Brake—SM17-5-1.0
Speed ReducerSM17-5-1.0
Speed Reducer ————————————————————————————————————
Wire Rope Hoist Motor-SM17-8-2.0
Wire Rope Hoist
Control SM17-8-12.0

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# How To Use This Manual, General Service Instructions, And Safety Procedures

The following information is provided to help guide the user of this manual. An explanation of how this manual is organized, as well as general information and safety considerations which should be understood when performing any service or maintenance procedure, is given. This information is general in nature and should supplement any of the specific procedures in this manual along with a constant awareness of safety and common sense.

#### **How To Use This Manual**

This Service Manual is a collection of written procedures which are used to service and maintain a specific crane model. The index, which is called a "Keysheet", is used to organize the procedures within this manual and serve as a Table Of Contents as well. Each procedure, in this manual, is written so that it can stand alone and typically covers only one procedure. Procedures are given a numerical designation, or "SM Code" Number, (Example: SM01–005–034.00) which is unique to that procedure and that procedure only. The following is a listing of the general area definitions which are designated by the first digits in the SM Code Number sequence:

#### **General Area Descriptions**

SM01 - Rubber Tire Lower

SM02 - Crawler Lower

SM03 - Upper Revolving Frame & Machinery

SM04 - Vertical Shafts

SM05 - Horizontal Shafts

SM06 – Upper Engine

SM07 - Hydraulic Power Supply

SM08 – Angle Boom

SM09 - Tubular Boom

SM10 - Tagline Winder

SM11 - Fairleader

SM12 — Shovel Attachment

SM13 — Trench Hoe, Logger & Scrapper Attachment & Prop Handler

SM14 - Cab & House Assembly

SM15 – Rotascope Attachment (Discontinued)

SM16 - Wire Rope Requirements

SM17 – Hydraulic Boom And Attachments

SM18 - Special Attachments

SM19 – Diesel Pile Hammer (Discontinued)

SM20 – Tower, Climbing Assembly, Traveling Base & Gantry (Discontinued)

SM21 - Log Skidder (Discontinued)

SM22 - Hydraulic Hammer (Discontinued)

The procedures in this manual are collated by SM Code Number sequence. Use the Keysheet in the front of this manual, the general area descriptions shown previously, and the SM Code title shown on the

Keysheet to find the specific procedure required to service the crane.

Throughout this manual, reference is made to the left, right, front, and rear, pertaining to directions and locations. These reference directions are relative to the operator, sitting in the operator's seat, with the upper directly over the front of the carrier, unless otherwise stated. (Crawler mounted cranes: upper over the front of the crane with travel motors to the rear.)

Danger, warning, and caution captions as well as special notes are used throughout this manual and on the crane to emphasize important and critical instructions. If any instruction, caution, warning, or danger labels, decals, or plates become lost, damaged, or unreadable, they must be replaced. Information contained on such labels, decals, and plates is important and failure to follow the information they contain could result in an accident. Replacement labels, decals, and plates can be ordered through a Link-Belt Distributor. For the purpose of this manual, danger, warning, and caution captions and notes are defined as follows:



#### DANGER

An operating procedure, practice, etc. which, if not correctly followed, may result in severe personal injury, dismemberment, or loss of life



#### WARNING

An operating procedure, practice, etc. which, if not correctly followed, may result in personal injury.

#### **CAUTION**

An operating procedure, practice, etc. which, if not correctly followed, may result in damage to, or destruction of, equipment or property.

#### **NOTES**

Note: An operating procedure step, condition, etc. which is essential in order for the process to be completed properly.



This symbol may appear in manuals or on a label on the crane to alert personnel that additional instructions are included in the crane Operator's Manual.



Figure 1 Keep hands and tools clear of moving parts.

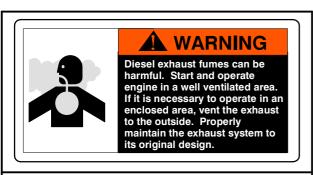


Figure 2
Diesel Exhaust Fumes.

# Service Safety And Set Up Guidelines

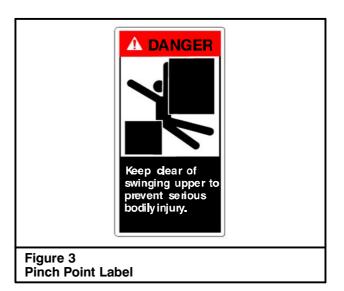
The following is a list of safety and set up considerations which may apply to any service or maintenance procedure. Review the entire list and understand the type of things you must consider to perform a safe service procedure and then apply these guidelines to each specific service or maintenance procedure.

#### **DANGER**

Do not operate the crane unless you are qualified. Unauthorized operation by untrained personnel could result in an accident. Crane operation is to be performed by a certified operator only.

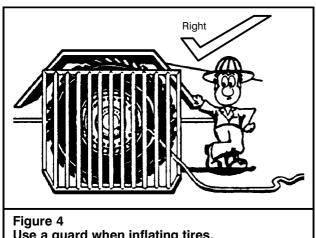
#### **Service Safety**

- Read and understand the service or maintenance procedure to be performed before beginning work.
   By reading the procedure ahead of time, you can be sure to have the replacement parts and tools on hand that are required to complete the job.
- 2. Wear protective gear to prevent injury; hard hat, safety glasses, gloves, steel toed shoes, etc.



- First aid supplies and a fire extinguisher should be on the job site to assist in an unexpected situation.
   The location of these items should be known to all as well as access to a telephone for emergencies.
- 4. Work in a clean, dry, firm, level area whenever possible. Choosing the correct work site can make a big difference on how well the job goes.
- 5. Use caution around flammable materials. Be aware of all the materials in the work area which are a threat. Also make others aware of volatile materials; post signs if necessary.
- Release all trapped pressure in air and hydraulic circuits before disconnecting any line or component. Shutdown the crane, exhaust all pressure from the crane's air reservoir(s) and work the hydraulic control levers back and forth before servicing the crane.
- 7. Do not disconnect any hydraulic line from a crane which has its attachment in the air. Trapped pressure may be all that is suspending it. Disconnecting a line could release the trapped pressure, causing the attachment to fall. Lower the attachment to the ground or on to its rest before servicing the crane.
- 8. Do not work on a crane which is in motion. Fans, belts, gear trains, etc. can catch an unexpecting person and quickly dismember them.
- Do not climb on the attachment or other hard to reach areas. If the steps and/or ladders which are installed on the crane do not provide adequate access to the area of the crane which needs servicing, use a step ladder or other approved device.
- 10. Pinch points exists between the upper and lower frames. Death or dismemberment may result from personnel caught in these points. Learn where these pinch points are and stay clear of the rotating upper frame.





Use a guard when inflating tires.

- 11. If working in a confined area, be sure to provide adequate ventilation when running the engine(s), using toxic solvents, welding, or any other operation which contaminates the fresh air supply.
- 12. Post a sign in the operator's cab to alert others that the crane is under service. Starting the crane while it is being serviced could severely injure someone. Crane damage could also occur if systems are operated prematurely. Imagine starting the engine(s) before the oil is replaced.
- 13. Secure access panels, doors, and machinery hoods when in the open position to ensure they do not fall or slam shut due to wind or accidental disruption.
- 14. Crane parts may be heavy. Always use an appropriate lifting device to support work. Do not attempt to lift an object without knowing its weight. Get help if necessary.
- 15. Always use a safety rim cage when inflating or deflating tires. Worn or misassembled parts can "explode" from the assembly causing serious injury. Use a safety rim cage, clip on air chuck, and stand aside when inflating or deflating tires.

#### **Crane Set Up And Disassembly**

- 1. Properly park the crane as described in the Operator's Manual. Park the crane in an area which provides the most comfortable working conditions. However, do not park the crane where it will be an obstruction or an intrusion to traffic, coworkers, or to the public. Keep in mind that a major service procedure, or a repair part which requires a long lead time, could have the crane disabled for an extended period of time.
- 2. Keep in mind the mess which is sometimes caused by a crane under repair. Oil or other fluid leaks should be contained or prevented. Consider your responsibility of maintaining a safe clean work area and a healthy environment for all.



Figure 5 Allow engine to cool before removing the radiator cap.

- 3. If the crane is equipped with outriggers, it may be safer as well as an advantage to raise and level the crane on outriggers to provide easier access to areas underneath. Do not work under a crane that is improperly supported.
- Shutdown the engine(s) per the instructions given in the Operator's Manual.
- 5. Post a sign in the operator's cab to alert others that the crane is being serviced.
- 6. Engines, transmissions, hydraulic systems, etc. generate extreme heat during operation. Temperatures can reach levels which may cause serious burns. Allow the crane to cool before attempting to service it.

## WARNING

Engine coolant is hot. Failure to allow engine(s) to sufficiently cool before draining coolant could result in severe burns or other personal injury. Allow the engine(s) and radiator(s) to cool before draining coolant from the radiator(s).

7. Pressure is generated inside the engine's cooling system due to the heat transfer process from the engine(s) to the radiator(s). Do not attempt to open or drain the radiator(s) until it/they has/have had sufficient time to cool. Disconnecting hoses before the engine(s) and radiator(s) has/have cooled is even more dangerous. Wait until the engine(s) and radiator(s) have cooled and then drain the radiator(s) before disconnecting any hoses. Properly store or dispose of used coolant.

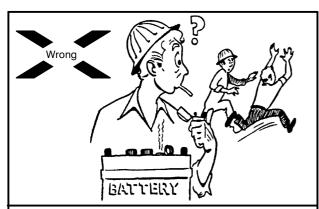


Figure 6
Do not use an open flame near the battery.

# **WARNING**

Solvents and cleaning solutions can be hazardous. Serious personal injury may result from misuse of these products. Read and follow all the manufacturer's recommendations concerning solvents and cleaning solutions.

- 8. Thoroughly clean the area of the crane which is to be serviced. Dirt or other contamination could enter the hydraulic, air, lubricating system, etc. and cause immediate and/or long term problems. Cleaning the service area not only prevents contamination problems but it also makes working on the crane easier and sometimes problems are more recognizable.
- 9. Before beginning any removal or disassembly procedure, take a moment to observe critical features of the assembly which may greatly simplify the installation or assembly process. Label electrical, hydraulic, air, or other connections. Index mark pump, motor, and valve sections. Lightly spray paint or count the threads of adjustment screws. Simple steps such as these can minimize the effort needed to put the crane back in service.

# **WARNING**

Hydraulic oil is under pressure and may be hot. A sudden release of hot oil could cause severe burns and/or other serious injury. Shutdown the engine(s) and exhaust all trapped hydraulic pressure from the system before removing any line or component.

- 10. Hydraulic systems, while operating, are under high pressure. Even after the crane is shutdown these pressures can remain trapped in the hydraulic lines and system components. Some hydraulic systems utilize an air pressurized reservoir which maintains pressure on the system after the crane is shutdown. It is critical that all residual pressure, which is trapped in the system, be neutralized before disconnecting any line or hydraulic component. Use the following techniques to exhaust trapped hydraulic pressure from the system:
  - a. Lower the attachment to the boom rest, onto blocking, or onto the ground and shutdown the engine(s).
  - b. Open the drain valves on the air system reservoir(s), if equipped, to bleed the air system pressure.
  - c. Relieve any residual or precharge pressure by pushing the button on the pressure relief valve, on the hydraulic reservoir, if equipped. Otherwise, loosen the filler cap 1/4 turn.
  - d. Turn the ignition switch to the <u>ON POSITION</u>, but <u>DO NOT START THE ENGINE.</u>
  - e. Operate the steering control(s) back and forth repeatedly until steering becomes hard. (On cranes equipped with emergency steering system, it will take several rotations of steering wheel before steering becomes hard.)
  - f. Work the crane control levers and outrigger switches, if equipped, back and forth several times.
  - g. Turn ignition switch to the OFF POSITION.
  - h. When pressure is fully relieved, close the drain valves on the air system reservoir(s), if equipped.

# **MARNING**

Air lines may contain high pressure. Opening lines and fittings before relieving air pressure may result in serious injury. Shutdown the engine(s) and drain the air system reservoir(s) before opening any line or fitting.

11. Air system circuits, like hydraulic circuits, contain high pressures also. Although the threat of a hot working fluid does not exist, highly pressurized lines and components can possibly "fly off" if lines are disconnected before the system pressure is relieved. Open the drain valve on the air system reservoir(s) to exhaust system pressure before working on the crane.

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# **MARNING**

Use care not to cause sparks at the battery terminals while disconnecting or connecting the battery. Battery gasses are volatile and could be ignited by a spark or flame causing the battery to explode. Keep the area around the battery well ventilated and disconnect the negative side of the battery first, with the ignition switch "OFF", to minimize hazard.

Battery posts, terminals, and related accessories contain lead and lead compounds. Eating or smoking with lead residue on hands may cause lead poisoning. Wash hands after handling lead products.

- 12. When working on electrical circuits, disconnect the battery to minimize shock, burn, spark, or other hazard. When disconnecting the battery, confirm that the ignition switch is in the "OFF" position. Disconnect the negative side of the battery first to minimize the potential for sparks at the battery. Battery gases which are exposed to such sparks, could cause an explosion. Likewise when connecting the battery, confirm that the ignition switch is in the "OFF" position and install the positive cable(s), first and the negative connection(s) last.
- 13. It is a good practice when disassembling hydraulic components to lay the parts out in the order that they were disassembled. Keeping the parts in this order during disassembly, cleaning, and inspection will aid in the assembly process.

#### Welding

- When making repairs which require welding, disconnect any electronic equipment (such as rated capacity limiters and engine computers) to prevent damage to them. Use the battery disconnect switch(es), if equipped.
- Be aware of systems adjacent to areas being welded. Residual heat from the welding process could cause damage to other components. Heat may also vaporize materials which may become toxic or volatile.
- 3. Remove paint from areas to be welded to prevent toxic fumes.
- 4. The grounding connection should be within 3 feet (1 m) of the welded parts.
- 5. Connect the ground to the lower, if welding on the lower, or to the upper if welding on the upper. Electrical current through the turntable bearing could cause an arc which could damage it.

- 6. Do not position the ground connection where seals or bearing, as in transmissions or valves, will be between it and the welded parts.
- 7. Remove any flammable materials from the area.
- 8. Use the appropriate setting on the welder for the size of the welding operation. Do not use more than 200 Volts continuously.

#### Cleaning And Inspection

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# **WARNING**

Solvents and cleaning solutions can be hazardous. Serious personal injury may result from misuse of these products. Read and follow all the manufacturer's recommendations concerning solvents and cleaning solutions.

- 1. All components should be thoroughly cleaned with an approved cleaning solvent, air dried and carefully inspected for damage, wear and corrosion.
- 2. All Loctite<sup>®</sup> or other sealant residue should be removed from threads of hardware and parts that are going to be reused.
- 3. All "soft parts", such as seals, gaskets, back up rings, and o-rings, should be replaced.
- 4. Replacement of bearings and bushings is generally a good preventive maintenance measure. Even though a bearing or bushing seems to be intact and is functioning properly, its life span is limited. Replacing a simple bearing or bushing while the opportunity is at hand could save a complete component failure later.
- 5. In the event of severe defects, contact factory personnel for directions whether to repair or replace any major component.

#### **Crane Assembly**

 Loosely assemble parts to ensure all parts are in place and fasteners started before beginning torquing procedure. Always use a cross torquing sequence to ensure even and uniform installation.

# **MARNING**

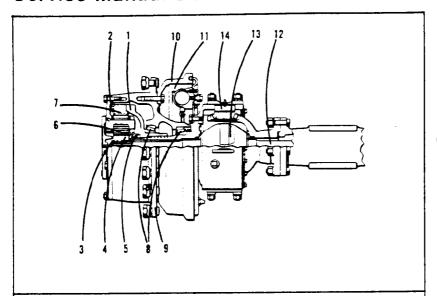
Lubricants, sealants, joint and thread locking compounds, etc. can be hazardous. Serious personal injury may result from misuse of these products. Read and follow all manufacturer's recommendations concerning these products.



Figure 7
Proper disposal is important.

- 2. Unless otherwise stated, torque all fasteners per the instructions given in SM Code Area 18–000.
- 3. When installing hydraulic hoses, lines, and fittings, use two wrenches to ensure the hoses and lines are not twisted. One wrench must be on the male fitting, the other wrench on the female fitting.
- 4. Unless otherwise stated, torque all hydraulic fittings per the instructions given in SM Code Area 07–018.
- Check all fluid levels before returning the crane to service; hydraulic reservoir oil level, transmission fluid level, engine(s) oil level, etc. Add oil as required. See Operator's Manual and/or engine(s) manufacturer's manual(s) for correct type of fluids and procedures.
- Always replace guards, grilles, and other types of protective shields. Also, be sure that any systems which were disconnected such as load indicating systems, anti-two block devices, control cables, etc. are functioning properly before returning the crane to service.
- Start the appropriate engine and let it idle for five minutes. Inspect the connections on the hydraulic, air, transmission, etc. lines for leaks. Repair if needed.
- 8. Check that all hydraulic, air, and electrical functions are operating normally before returning the crane to service.
- After crane is assembled, refer to the Operator's Manual for any periodic type of adjustments which may have been affected by the service procedure.
- 10. Properly dispose of any used oils, solvents, cleaners, etc.

#### Service Manual Area 1 - Drive Axles



Planetary Hub Assembly

- (1) Carrier(2) Cap(3) Snap Ring
- (4) Sun Gear (5) Locknut

- (6) Pinion (7) Internal Gear

- (8) Bearings
- (9) Wheel Hub
- (10) Brake Drum (11) Brake Shoes
- (12) Axle Shafts (13) "U" Joint
- (14) Trunnion

#### Drive Axles

Both the front and rear axles are steerable, double reduction planetary type axles. One reduction is through a standard differential in the axle center section. The second reduction takes place in the wheel end. A self centering sun gear, splined to the axle shaft, clean. drives 3 planetary gears. The planetary gears drive an internal ring gear, to drive the wheel hub.

The wheel end is attached to the axle center housing by a trunnion, allowing the wheel end to swivel for steering purposes. The inner and outer axle shafts are joined by a universal joint, which carries power to the wheel end during steering.

The front axle assembly is mounted solidly to the carrier frame. The rear axle is mounted on a bogie beam assembly, which allows the rear axle to pivot. The axle pivoting is necessary to keep all four tires on the ground in rough terrain for maximum traction.

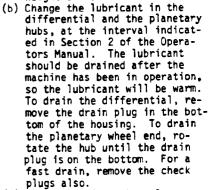
Axle Maintenance: Periodically check the axle housings for signs of dents, cracks, or other signs of damage. Check for lubricant leaks which would indicate loose bolts or defective seals. Keep all mounting bolts and nuts tighttened securely. Make sure all axle breathers are kept open and

Lubrication:

(a) Check the lubricant level in the differential, and the planetary wheel ends at the interval indicated in Section 2 of the Operators Manual. To check the level, run the axle for a period of time, then allow the machine to stand still for 5 minutes on level ground. This allows the lubricant to settle to the proper level. Check the differential housing by removing the check plug in the rear of the housing. The lubricant should be level full to the bottom of the check plug hole. Next, check planetary wheel ends. Rotate the

#### SM1-2-10.0

wheel until the fill plug is at top center. Remove the check plug in the planetary end cap. The lubricant should be level full with the bottom of the check plug hole. Add lubricant if necessary. Con-sult Section 2 of the Operator Manual for proper type and weight of lubricant to use.



(c) After draining, the axles should be flushed. Replace the drain plugs and fill the differential and planetary ends with flushing oil. Operate the axles for a period of time, then drain the flushing oil.

(d) Thoroughly clean the drain plugs, and check plugs. Clean an area around each fill plug. Fill the differential and the planetary wheel ends with lubricant. Rotate the hub until the fill hole is at top center before filling. Consult section 2 of Operators Manual for proper type and weight of lubricant to use in the axle.

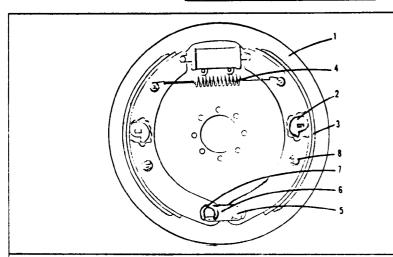
Axle Disassembly For Brake Maintenance: The following instructions
pertain to disassembly of a planetary drive axle in the sequence that would normally be followed to expose the brakes for relining or other brake maintenance.

Cleanliness is very important during disassembly of the axle. Before tear down, thoroughly clean the exterior of the unit to pre-vent entry of foreign material, and drain the lubricant from wheel hub. The axle is disassembled as follows:

(a) Remove tire.

(b) Remove thrust cap (2).(c) Remove snap ring (3) and sun gear (4).





= •g. 2 Brake Assembly

- 1) Backing Plate
- (2) Adjusting Cam
- Brake Shoe
- (4) Spring

- (5) Anchor Pin

- (6) Strut (7) "C" Washer (8) "C" Washer
- (d) Remove planetary carrier as-
- sembly (1).
  (e) Remove locknut, nut lock, and adjusting nut (5).
- (f) Support wheel hub and drum assembly in a level position - use chain fall or block hub and drum assembly. Remove internal gear and hub assembly (7).
- (g) Remove wheel hub (9) and brake drum (10) assembly as one unit.
- (h) Remove return spring (4).(i) Remove anchor pin "C" was washers
- (7), and strut (6).

  3) Remove "C" washers (8) and remove brakes (3).

Brake shoes may now be relined. To Reassemble:

- (a) Slide brake shoes over pins and secure with "C" washers (8), strut (6) and "C" washers (7).
- (b) Replace return spring (4).
- (c) Replace wheel hub bearing (8) and oil seal. Replace wheel hub assembly on spindle.

### CAUTION

Do Not Damage 911 Seal.

- (d) Replace internal gear (7) on spindle. Using a soft hammer tap gear assembly onto spindle.
- (e) Install wheel bearing adjust-

- ing nut (5). While tightening the nut rotate wheel hub and rap with a rubber hammer
- until a drag is felt. (f) Insert a screwdriver through the holes in the internal gear hub and check the outer wheel hub bearing roller cage. If the hub bearings have enough preload, the roller bearing cage will not move. Secure adjusting nut with locknut and nut lock.
- (g) Replace planetary carrier as-sembly (1) and seal with Per-matex No. 2. Secure in place with capscrews.
- (h) Install sun gear (4) and secure in place with snap ring (3).
- (i) Use Permatex No. 2 on thrust cap (2) and install cap on planetary assembly. Secure in place with capscrews.

Brake Adjustment: Whenever new linings have been installed, the brakes should be adjusted as follows:

- (a) Each shoe must be adjusted to center the brake shoe arc with respect to the drum - first adjust the eccentric cam adjustment until the shoe contacts the drum.
- (b) Rotate the brake shoe anchor pin to relieve the drag.
- (c) Repeat the above procedures

- until rotating the anchor pin no longer relieves the drag.
- (d) Torque the anchor pin nut to 110 - 125 ft.-lbs. making sure the anchor pin doesn't turn.
- (e) Back off on the eccentric adjustment until the wheel just rotates without drag.

Repeat the above procedure for each shoe. Any further adjust-ment to compensate for lining wear must be made with the eccentric cam only. Turn the eccentric cam to bring the shoe into contact with the drum. Then back off on the adjustment until the drum just rotates freely. Repeat the procedure for each shoe, in each wheel.

Wheel Alignment: The only adjustment that can be made is "toe-in" as caster and camber are set in the design of the axle mountings and are not adjustable. Maintain toe-in" of both axles at 1/8" +

If further disassembly of the axle assemblies is desired, contact the manufacturer for further instruc-