Model 974-W8 (2)(4)	TR95/96 TR97	36″ (914 mm)	38″ (965 mm) Standard	5600 lbs. (2540 kg)	25′3″ (7696 mm)	4′ (1219 mm)	10′ (3048 mm)	6′6″ (1829 mm)	62 mm) diameter.

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SECTION 1

AUGER SLIP CLUTCH

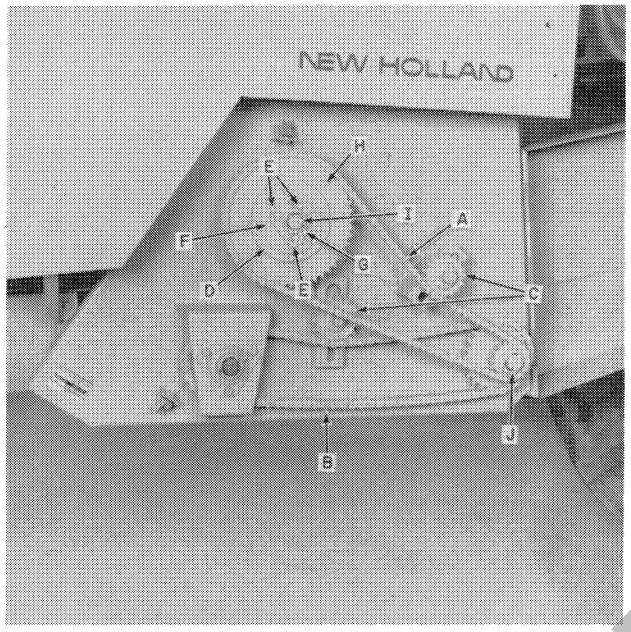


Figure 1-1

REMOVAL/DISASSEMBLY

Figure 1-1

1. Remove cotter pin, G.
2. Remove triangular locking plate, F, along with an inner sleeve (not shown).
3. Remove cap screws, E.
4. Loosen nuts, C, and move the idler sprocket away from the chain.
5. Remove chain, A.
6. Clean the paint off the end of shaft, I.
7. Remove the remaining clutch component parts from the shaft.
8. If necessary, use a suitable bushing driver to remove and replace the bushing in the sprocket.

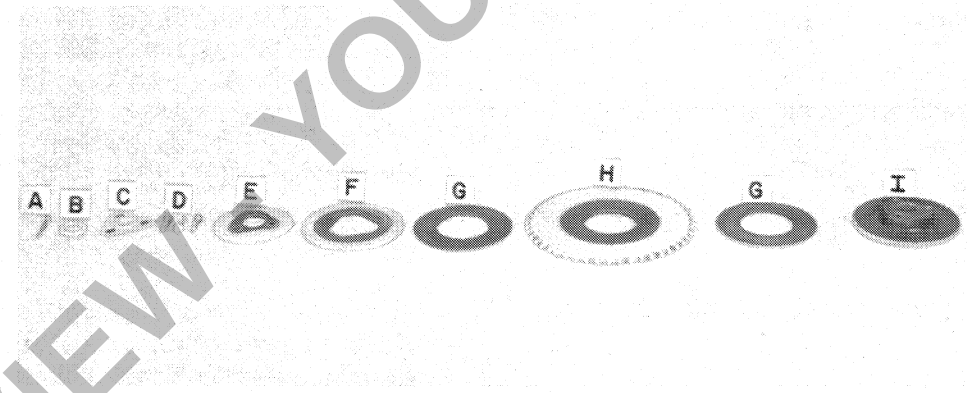


Figure 1-2

PARTS LAYOUT

Ref.	Qty.	Description
A	1	Cotter pin
B	1	Washer
C	1	Triangular locking plate
D	3	3/8″ x 1-1/4″ cap screw
E	1	Spring washer
F	1	Clutch plate
G	2	Friction disc
H	1	Sprocket - 48-tooth with bushing
I	1	Clutch hub

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CONTENTS

SAFETY 0-1
GENERAL INFORMATION 0-5
HARDWARE INFORMATION 0-5
SECTION 1 - AUGER SLIP CLUTCH 1-1
SECTION 2 - ROW UNIT SLIP CLUTCH 2-1
SECTION 3 - STALK ROLLS 3-1
SECTION 4 - ROLL UNIT GEARBOX 4-1
LABOR GUIDE 4-37
SPECIFICATIONS 4-38
INDEX 4-40

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INTRODUCTION

This service manual provides the technical information needed to properly service and maintain the Model 974 corn head. Use this manual in conjunction with the operator's manual supplied with the corn head.

On New Holland equipment, left and right are determined by standing behind the unit, looking in the direction of travel.

This manual details the service procedures found to be the easiest and least time-consuming. Modifying these procedures is not recommended.

Each section of this manual is divided into these subsections: Removal, Disassembly, Parts Layout, Inspection, Assembly, Installation, and Labor Guide.

Corn Head Drive - Power Flow

The initial drive for the 974 head is taken off a drive shaft on the lower portion of the feeder. A PTO shaft and yoke assembly are used to couple the feeder to the head drive.

One grease-filled gearbox drives both gathering chains and snapping rolls of each row unit. Each row unit drive is protected individually by a radial pin slip clutch.

The auger is chain driven from the lower shaft on the left side of the head. The auger is overload protected by a dry-type friction disc slip clutch.

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SAFETY PRECAUTIONS

CAREFULLY STUDY THESE PRECAUTIONS AND THOSE INCLUDED IN THE COMBINE AND CORN HEAD OPERATOR'S MANUALS. INSIST THAT THE PRECAUTIONS BE FOLLOWED BY THOSE WORKING WITH YOU AND FOR YOU.

1. THOROUGHLY READ AND UNDERSTAND THE COMBINE AND CORN HEAD OPERATOR'S MANUALS BEFORE OPERATING THIS EQUIPMENT.
2. BE SURE EVERYONE IS CLEAR OF THE MACHINE BEFORE STARTING.
3. ONLY THE OPERATOR SHOULD BE ON THE COMBINE WHEN OPERATING. NEVER ALLOW ANYONE TO GET ON OR OFF WHILE THE COMBINE IS IN MOTION.
4. KEEP SHIELDS IN PLACE. NEVER WORK AROUND THE CORN HEAD OR COMBINE IN LOOSE CLOTHING THAT COULD CATCH ON MOVING OBJECTS.
5. OBSERVE THE FOLLOWING PRECAUTIONS WHENEVER LUBRICATING, MAKING ADJUSTMENTS, OR SERVICING THE 974 CORN HEAD.

   A. SHUT OFF THE COMBINE ENGINE.

   B. DISENGAGE ALL CLUTCHING LEVERS.

   C. LOWER THE CORN HEAD TO THE GROUND, OR RAISE THE HEAD COMPLETELY AND LOWER CYLINDER STOP, A, FIGURE 0-1. THIS STOP WILL PREVENT THE CORN HEAD FROM LOWERING.

   D. ENGAGE THE PARKING BRAKE AND PUT THE GEARSHIFT LEVER IN LOW OR REVERSE GEAR.

6. ALWAYS KEEP THE COMBINE IN GEAR WHILE GOING DOWNHILL.
7. THE COMBINE SHOULD ALWAYS BE EQUIPPED WITH SUFFICIENT REAR AXLE WEIGHT FOR SAFE OPERATION. UNDER SOME FIELD CONDITIONS, MORE WEIGHT MAY BE REQUIRED AT THE REAR AXLE FOR ADEQUATE STABILITY.
8. ALWAYS LOWER THE CORN HEAD, SHUT OFF THE COMBINE ENGINE, SET THE PARKING BRAKE, AND ENGAGE THE TRANSMISSION GEARS BEFORE LEAVING THE OPERATOR'S PLATFORM.
9. IF THE CORN HEAD SHOULD BECOME PLUGGED, STOP THE COMBINE ENGINE BEFORE REMOVING THE OBSTRUCTION.
10. NEVER DISCONNECT OR MAKE ANY ADJUSTMENTS TO THE HYDRAULIC SYSTEM UNLESS THE CORN HEAD IS LOWERED TO THE GROUND OR THE CYLINDER STOP IS IN THE DOWN POSITION AS SHOWN IN FIGURE 0-1.

    DANGER: FAILURE OF THE HYDRAULIC LIFT SYSTEM MAY CAUSE THE HEAD TO FALL RAPIDLY.

    LIFT CYLINDER STOPS MUST BE USED IN THE LOCK POSITION WHEN WORKING AROUND THE HEAD IN A RAISED POSITION.

    FAILURE TO USE LIFT CYLINDER STOPS MAY RESULT IN SERIOUS INJURY OR DEATH.

11. DO NOT ALLOW CHILDREN OR BYSTANDERS AROUND THE MACHINE WHILE IT IS BEING ADJUSTED, SERVICED, OR OPERATED.

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INDEX

Auger Slip Clutch 1-1
Assembly/installation 1-2
Inspection 1-2
Labor guide 1-3
Parts layout 1-1
Removal/disassembly 1-1
General Information 0-5
Hardware Information 0-5
Improvements 0-5
Labor Guide 4-37
Row Unit Gearbox 4-1
Assembly notes 4-11
Bearing torque tool 4-24
Final assembly 4-34
Gathering chain drive assembly - Style 1 4-11
Gathering chain drive assembly - Style 2 4-19
Gathering chain drive disassembly - Style 1 4-8
Gathering chain drive disassembly - Style 2 4-15
Initial disassembly 4-3
Input shaft assembly 4-30
Input shaft disassembly 4-4
Input shaft end play and gear backlash check and adjustment 4-31
Input shaft parts layout 4-29
Inspection 4-11, 4-18
Labor guide 4-36
Parts layout 4-10, 4-23
Removal 4-1
Row unit gearbox service tools 4-3
Stalk roll drive assembly 4-23
Stalk roll drive disassembly 4-5
Row Unit Slip Clutch 2-1
Assembly 2-9
Disassembly 2-6
Inspection 2-5, 2-8
Installation - Style 1 2-11
Installation - Style 2 2-14
Labor guide 2-26
Parts layout 2-8
Removal - Style 1 2-1
Removal - Style 2 2-3
Slip clutch service tools 2-4
Safety Precautions 0-1
Specifications 4-38
Stalk Rolls 3-1
Front stalk roll bearing installation 3-3
Front stalk roll bearing removal 3-3
Labor guide 3-6
Parts layout 3-2
Removal 3-1
Stalk roll installation 3-4
Torque Chart 4-40

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12. ALWAYS USE A SAFETY STAND IN CONJUNCTION WITH HYDRAULIC JACKS OR HOISTS. DO NOT RELY ON THE JACK OR HOIST TO HOLD THE LOAD COMPLETELY BECAUSE THEY COULD FAIL.

13. ALWAYS WEAR SAFETY GLASSES WHEN USING A HAMMER, CHISEL, OR OTHER TOOLS THAT MAY CAUSE CHIPS TO FLY OFF THE WORK.

14. KEEP WORK ORGANIZED AND CLEAN. WIPE UP ALL OIL SPILLS TO MINIMIZE THE POSSIBILITY OF A FALL. KEEP TOOLS AND PARTS OFF THE FLOOR TO FURTHER REDUCE THE POSSIBILITY OF SERIOUS INJURY.

15. BE SURE TO REINSTALL SAFETY DEVICES, GUARDS, OR SHIELDS, AFTER ADJUSTING OR SERVICING THE CORN HEAD.

16. AFTER SERVICING THE CORN HEAD, BE SURE ALL TOOLS, PARTS, OR SERVICING EQUIPMENT ARE REMOVED FROM THE HEAD.

17. WHEN USING A GAS TORCH, ALWAYS WEAR WELDING GOGGLES AND GLOVES. KEEP A FULLY CHARGED FIRE EXTINGUISHER WITHIN EASY REACH. DO NOT HEAT OR WELD NEAR A FUEL TANK OR FUEL LINES. UTILIZE PROPER SHIELDING AROUND HYDRAULIC LINES.

18. ELECTRIC STORAGE BATTERIES GIVE OFF HIGHLY FLAMMABLE GAS WHEN CHARGING AND CONTINUE TO DO SO FOR SOME TIME AFTER RECEIVING A STEADY CHARGE. DO NOT, UNDER ANY CIRCUMSTANCES, ALLOW AN ELECTRIC SPARK OR FLAME NEAR THE BATTERY. ALWAYS DISCONNECT THE BATTERY BEFORE WORKING ON THE ELECTRIC SYSTEM.

19. HYDRAULIC FLUID ESCAPING UNDER PRESSURE CAN HAVE ENOUGH FORCE TO PENETRATE HUMAN SKIN. HYDRAULIC FLUID MAY INFECT A MINOR CUT OR OPENING IN THE SKIN. IF INJURED BY ESCAPING FLUID, SEE A DOCTOR AT ONCE.

    DO NOT ATTEMPT TO REPAIR OR TIGHTEN HOSES THAT ARE UNDER PRESSURE. CYCLE ALL HYDRAULIC CONTROL VALVES TO RELIEVE ALL PRESSURE BEFORE DISCONNECTING THE LINES OR BEFORE PERFORMING OTHER WORK ON THE HYDRAULIC SYSTEM. MAKE SURE ALL CONNECTIONS ARE TIGHT AND HOSES AND LINES ARE IN GOOD CONDITION BEFORE APPLYING PRESSURE TO THE SYSTEM.

    TO LOCATE A LEAK UNDER PRESSURE, USE A SMALL PIECE OF CARDBOARD. NEVER USE YOUR HANDS TO LOCATE A LEAK.

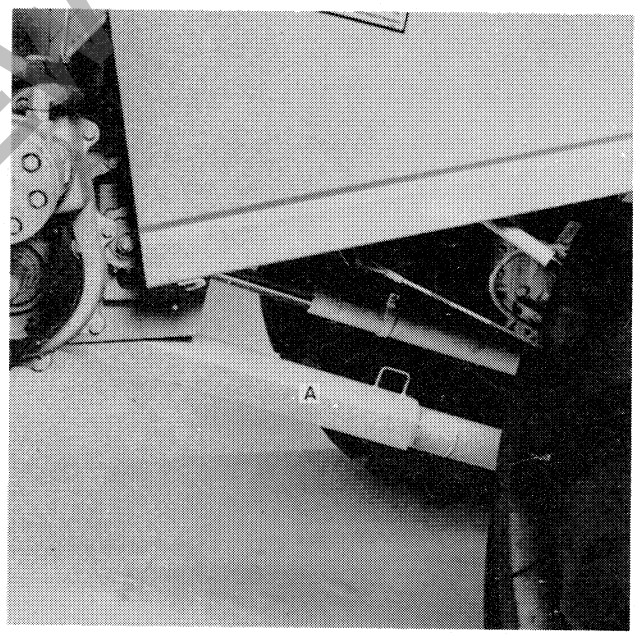


Figure 0-1

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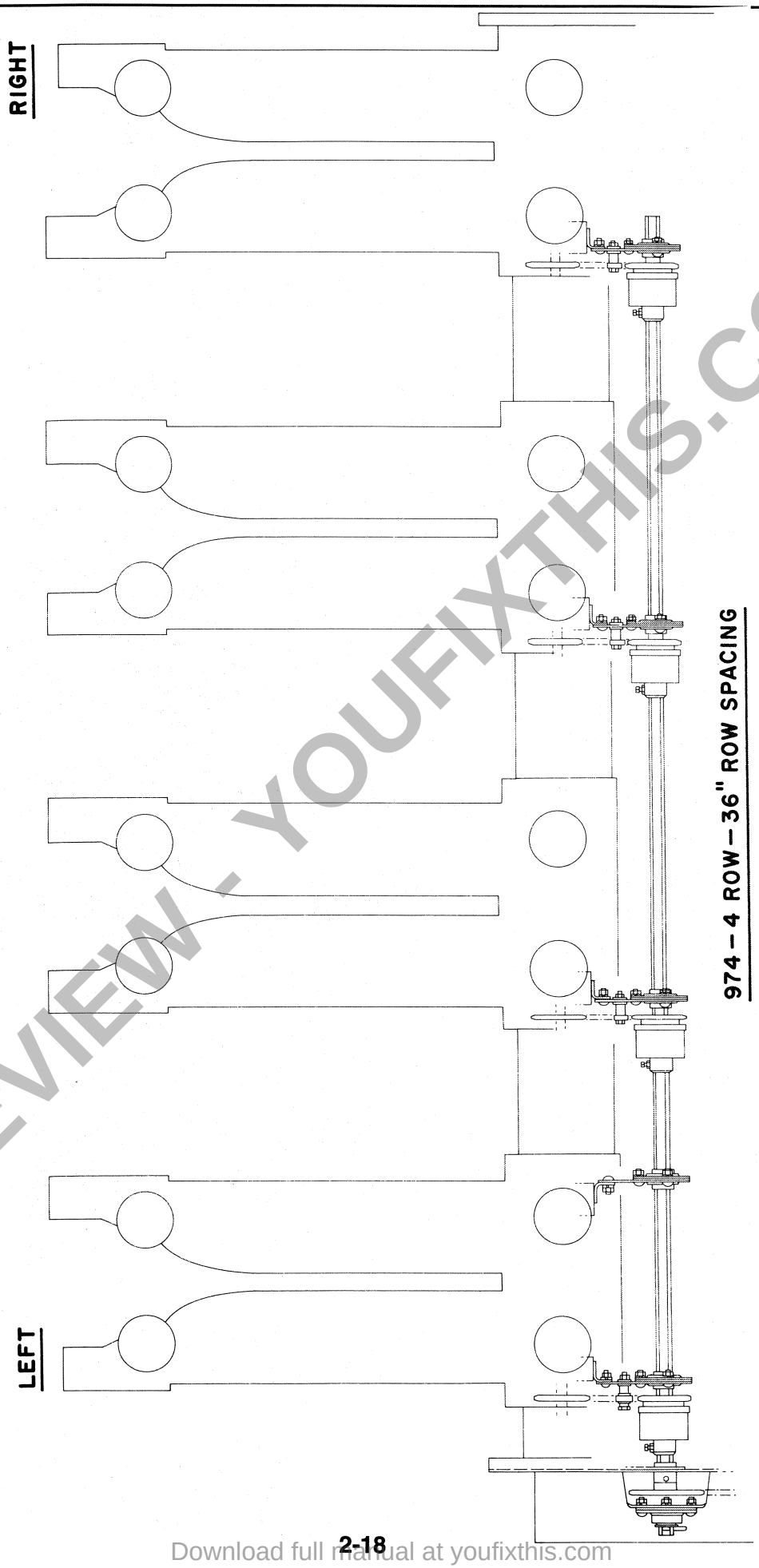


Figure 2-39

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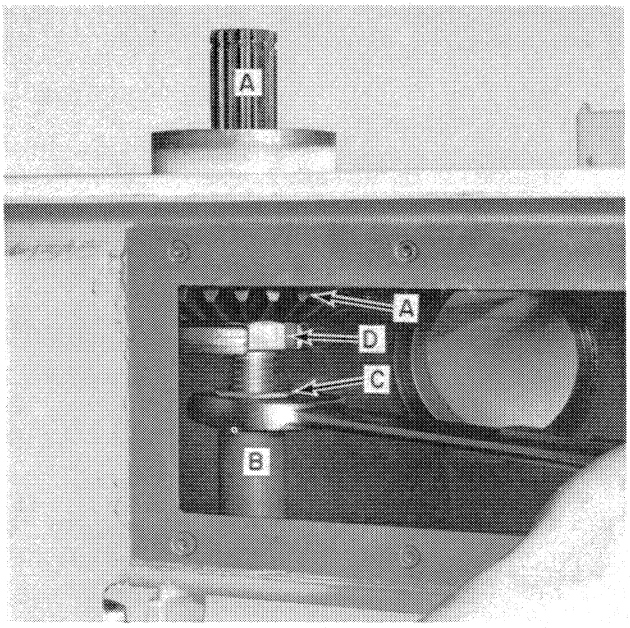


Figure 4-27



Figure 4-28

3. Install the gathering chain drive shaft/gear assembly, A, Figure 4-27, into the gearbox as shown.

4. Support the shaft/gear assembly using special tool, B.

   The special tool consists of:

   one 3/4″ x 2″ cap screw with one 3/4″ hex nut

   one steel pipe - 1-1/16″ OD x 3/4″ minimum ID x 2″ long (27 mm x 19 mm x 51 mm)

   IMPORTANT: Be sure shaft, A, Figure 4-27, is centered in the bearing support housing.

   Push the gear up against the top of the gearbox housing using tool, B, as a jack. Hold cap screw head, D, stationary and rotate nut, C.

   Tighten nut, C, only finger tight.

5. Push the lower bearing, A, Figures 4-28 and 4-32, in from the top using a steel pipe, B, as shown. Push the bearing in until its outer race just passes the groove for retaining ring, A, Figure 4-29. If necessary, lower the shaft/gear assembly, A, Figure 4-27, using special tool, B.

   IMPORTANT: The pipe should contact only the inner bearing race.

   Pipe size: 1-5/16″ OD x 1-1/32″ ID x 8″ long (33 mm x 26 mm x 203 mm)

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