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BUSH HOG

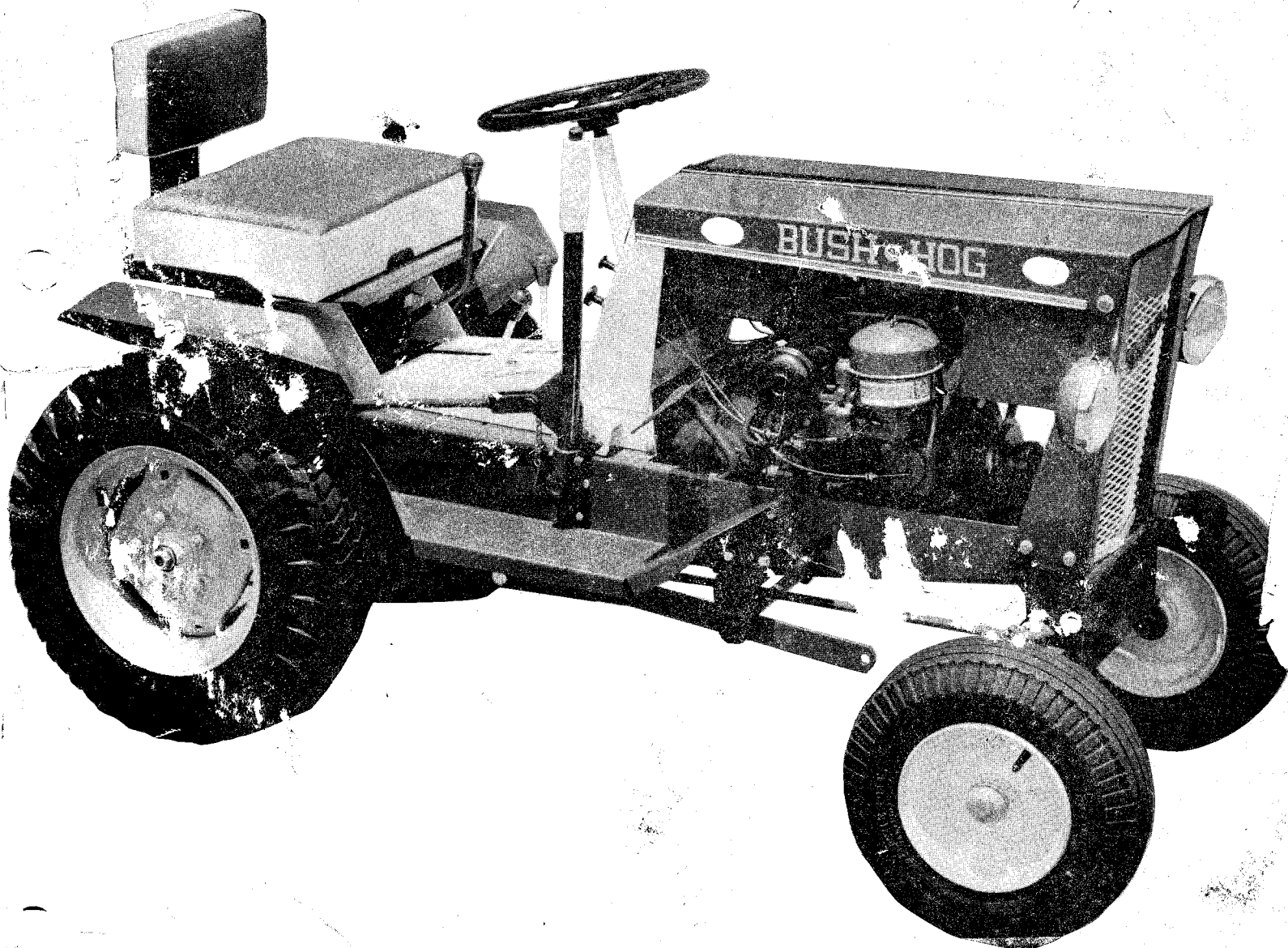
**INCORPORATED
SELMA, ALABAMA**

DIRECT DRIVE

D4-7

D4-10

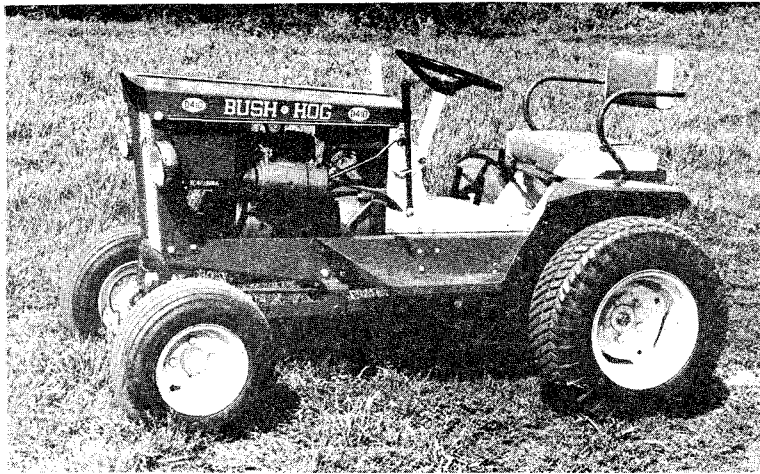
RIDING TRACTOR



OPERATORS MANUAL

D4-10

Direct Drive



Owner's Manual

BUSH HOG

INCORPORATED

SHAW MFG. CO. - GALESBURG, KANSAS
Division of Bush Hog, Inc. - Selma, Alabama

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THIS BOOK REVISED APRIL 1, 1967

WARRANTY

BUSH HOG TRACTORS ARE WARRANTED TO THE ORIGINAL RETAIL PURCHASER TO BE FREE FROM MANUFACTURING DEFECTS UNDER NORMAL USE AND SERVICE FOR ONE YEAR FROM THE DATE OF PURCHASE OR FOR 90 DAYS, IF THE TRACTOR IS USED FOR COMMERCIAL OR RENTAL PURPOSES. THE BUSH HOG COMPANY WILL REPLACE DEFECTIVE PARTS FREE OF CHARGE, EXCEPT ITEMS WARRANTED BY THE ORIGINAL MANUFACTURER SUCH AS ENGINES OR OTHER PRODUCTS THAT CARRY A SEPARATE WARRANTY. WHEN DEFECTIVE PARTS ARE RETURNED, THEY MUST BE PREPAID.

THIS WARRANTY WILL NOT APPLY TO BUSH HOG PRODUCTS REPAIRED OR ALTERED OUTSIDE OF A BUSH HOG DEALER SERVICE STATION. NEITHER WILL THE WARRANTY APPLY ON ANY FAILURE RESULTING FROM MISUSE, NEGLIGENCE, OR ACCIDENT.

THE PLACING ON A BUSH HOG PRODUCT OF ANY PART OR ATTACHMENT NOT APPROVED BY THE COMPANY SHALL VOID THE WARRANTY.

INTRODUCTION

THE DIRECT-DRIVE TRACTOR IS MANUFACTURED TO THE TRADITIONALLY HIGH STANDARDS OF BUSH HOG, INC. IT HAS MANY QUALITY FEATURES WHICH HAVE BEEN DESIGNED WITH YOU, THE CUSTOMER, IN MIND.

YOUR DEALER IS SINCERELY INTERESTED IN YOUR NEW TRACTOR AND HAS THE DESIRE TO HELP YOU GET THE MOST VALUE FROM IT. AFTER READING THIS MANUAL THOROUGHLY, YOU WILL FIND THAT YOU CAN DO MANY OF THE REGULAR SERVICE JOBS QUICKLY AND EASILY. HOWEVER, WHEN YOU ARE IN NEED OF PARTS OR MAJOR SERVICE, BE SURE TO SEE YOUR DEALER.

WHEN YOU ARE IN NEED OF PARTS, BE PREPARED TO GIVE YOUR DEALER BOTH THE TRACTOR AND ENGINE SERIAL NUMBERS.

DEALER SERVICES

YOUR DEALER OFFERS COMPLETE TRACTOR SERVICE. HIS TRAINED PERSONNEL HAVE ACCESS TO ACCURATE, DETAILED SERVICE INFORMATION. SOME OF THESE DEALER SERVICES ARE LISTED BELOW -

1. TESTING BATTERY AND ELECTRICAL COMPONENTS.
2. CLEANING AND ADJUSTING CARBURETOR.
3. CLEANING OUT ENGINE CARBON.
4. TESTING ENGINE COMPRESSION.
5. REPLACING MOTOR-GENERATOR BRUSHES, CLEANING COMMUTATOR.
6. ADJUSTING ENGINE GOVERNOR SPEED.

MODELS

DE-4-7
DR-4-7

ENGINE

MANUFACTURER WISCONSIN
MODEL S-7D
CYLINDERS ONE
CYCLE 4
BORE & STROKE 3 x 2 5/8
DISPLACEMENT 18.6 CU. IN.
SPEEDS 1600-3600 RPM
HORSE POWER 7 1/4 AT 3600
COMPRESSION RATIO 7.00 TO 1
VALVE CLEARANCE (INTAKE)COLD .006
VALVE CLEARANCE(EXHAUST)COLD .012

ELECTRICAL SYSTEM

BATTERY DE-4-7
45 AMP 12 VOLT
20 HR RATING
IGNITION KEY TYPE
STARTER SWITCH PUSH BUTTON
STARTER MOTOR DELCO REMY
GENERATOR DELCO REMY

DE-4-7
DR-4-7
SPARK GAP .025
BREAKER POINT GAP .020

CAPACITIES

FUEL TANK 1 US GAL.
CRANK CASE 1 QUART

BRAKES

DOUBLE ACTING
FOOT OPERATED

TRANSMISSION

TYPE TRANSAXLE 4 FWD, 1 REV.
LUBRICANT 4 PINTS SHELL
MICOMA No. 72
THE EQUIVALENT
90 WT. TRANS.
LUBRICANT

CLUTCH

AUTOMOTIVE
DISC TYPE

STEERING

OPEN GEAR
6.4 TO 1

WHEEL BEARINGS

FRONT TAPER ROLLER
REAR SEALED BALL

GROUND SPEEDS MPH

GEAR	ENGINE RPM
1 LOW	3600-1.99
2 LOW	3600-3.23
R LOW	3600-3.89
1 HIGH	3600-5.86
2 HIGH	3600-9.66
R HIGH	3600-9.66

DIMENSIONAL DATA

ALL MODELS

WHEEL TREAD

FRONT ALL PURPOSE AND
REAR TRACTION TIRES
28 INCHES
24 1/2 OR 30 1/2

HIGH FLOTATION
TIRES
29 INCHES
24 1/2 OR 30 1/2

TIRE SIZES

FRONT 4.80/4.00 x 8
REAR 6.00 x 12

16 x 6.50 - 8
23 x 8.50 - 12

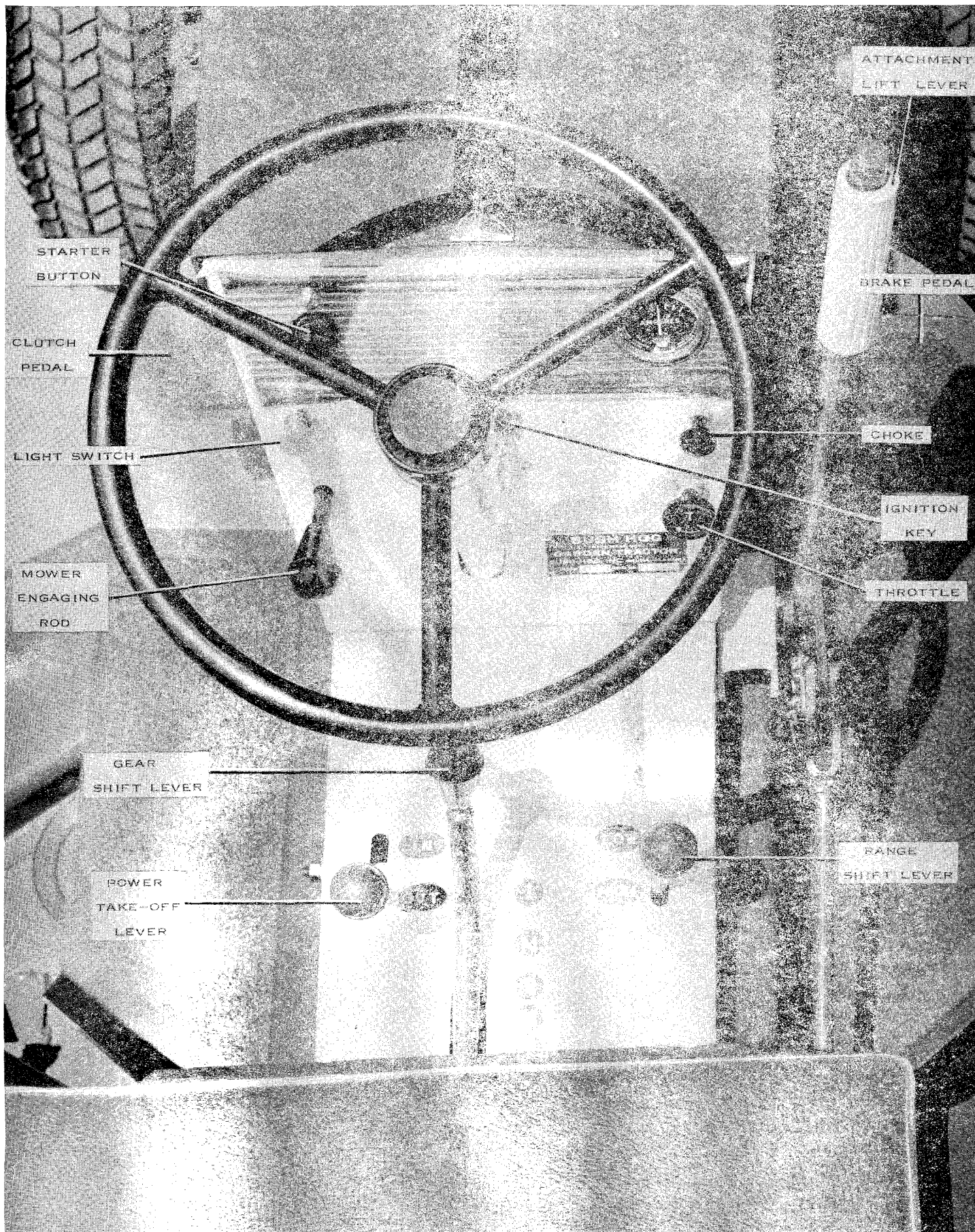
TIRE INFLATION

FRONT 12 PSI 8 PSI
REAR 6 PSI 5 PSI

DIMENSIONS

WHEEL BASE	49 INCHES	49 INCHES
OVERALL LENGTH	68 INCHES	68 INCHES
OVERALL HEIGHT	38 3/4 INCHES	38 3/4 INCHES
OVERALL WIDTH (MAXIMUM)	36 INCHES	39 INCHES
(MINIMUM)	33 INCHES	33 INCHES

OPERATION



IMPORTANT: FOR ALL INSTRUCTIONS PERTAINING TO THE OPERATION OF THE TRACTOR ENGINE, REFER TO YOUR INSTRUCTION BOOK FOR THE WISCONSIN AIR COOLED HEAVY DUTY ENGINE, MODEL S-7D.

FUELS AND LUBRICANTS

FUELS

FILLING FUEL TANK-

RAISE TRACTOR HOOD TO FILL FUEL TANK. TO KEEP DIRT OUT OF THE TANK WHILE FILLING, WIPE DUST AND DIRT FROM AROUND TANK COVER BEFORE REMOVING IT. USE A REGULAR GRADE GASOLINE OF A RECOGNIZED BRAND. WHITE GAS MAY BE USED ONLY IF THE OCTANE RATING IS AT LEAST 75. NEVER USE PREMIUM GASOLINE. **NOTE: DO NOT MIX OIL WITH GASOLINE. BE SURE FUEL CONTAINERS ARE ABSOLUTELY CLEAN.**

LUBRICANTS

ENGINE CRANKCASE-

OIL USED IN THE ENGINE CRANKCASE SHOULD HAVE AN AMERICAN PETROLEUM INSTITUTE (API)/SAE CLASSIFICATION OF SERVICE MS.

ACCORDING TO PREVAILING AIR TEMPERATURE, USE OIL OF VISCOSITY AS SHOWN IN THE FOLLOWING CHART.

AIR TEMPERATURE - SEASON	SINGLE-VISCOSITY OIL
30 TO 90 F. SUMMER	SAE 30
-0 TO 30 F. WINTER	SAE 10W
BELOW 0 F.	SAE 5W-20

USE OF SAE 5W-20 OIL MAY CAUSE SOME INCREASE IN OIL CONSUMPTION. CHECK OIL LEVEL MORE OFTEN WHEN YOU ARE USING THIS OIL.

DO NOT FILL ENGINE CRANKCASE ABOVE FULL MARK.

TRANSMISSION

1. ALL TRANSAXLES ARE FILLED WITH 4 PINTS OF SHELL MACOMA No. 72 OIL.
2. FOR REFILL OR MAKE-UP OIL IN THE FIELD, WE RECOMMEND SAE 90 WEIGHT OIL.

DO NOT ATTEMPT TO DISMANTLE ANY PART OF YOUR TRACTOR TRANSMISSION. SEE YOUR DEALER FOR ALL TRANSMISSION SERVICE.

LUBRICATION AND PERIODIC SERVICE

THE RECOMMENDED LUBRICATION AND SERVICE PERIODS FOR YOUR TRACTOR ARE AS FOLLOWS:

DAILY OR EVERY 5 HOURS OF OPERATION.

EVERY 50 HOURS OF OPERATION.

EVERY 100 HOURS.

EVERY 500 HOURS OR EACH SPRING AND FALL SEASON.

THE FOLLOWING PROCEDURES ARE GIVEN IN THE ORDER OF FREQUENCY.

DAILY OR EVERY 5 HOURS OF OPERATION

ENGINE CRANKCASE OIL LEVEL -

RAISE TRACTOR HOOD, WIPE OFF DUST AND DIRT AND UNSCREW OIL DIPSTICK.

IF NECESSARY, ADD SUFFICIENT OIL OF THE PROPER VISCOSITY TO BRING OIL LEVEL UP TO THE FULL (F) MARK ON THE DIPSTICK WHEN THE DIPSTICK IS SCREWED IN TIGHT. **NOTE:** OIL SHOULD NOT BE OVER THE FULL MARK. BE SURE TRACTOR IS ON LEVEL GROUND AND ENGINE IS STOPPED BEFORE YOU CHECK OIL LEVEL.

FLYWHEEL SCREEN

MAKE A VISUAL CHECK OF THE OUTSIDE SCREEN. THE ENGINE IS AIR COOLED AND MUST HAVE AN AMPLE SUPPLY OF AIR TO PREVENT ENGINE FROM OVERHEATING. CLEAR AWAY ALL DIRT OR DEBRIS COVERING ANY OF THE SCREEN.

TO BE SURE SCREEN IS NEVER COMPLETELY BLOCKED WITH DRY GRASS CLIPPINGS, CHECK SCREEN OFTEN, ESPECIALLY WHEN MOWING OR MULCHING LEAVES.

BATTERY

CHECK BATTERY, MAKING SURE LIQUID LEVEL IS UP TO FILLER RING IN EACH CELL. IF NECESSARY, ADD DISTILLED WATER.

CHECK BATTERY TERMINALS TO BE SURE THEY ARE CLEAN AND FREE FROM CORROSION.

TIRE PRESSURE

INFLATE TIRES TO PRESSURES SHOWN IN CHART BELOW-

TIRE INFLATION

TIRE	ALL PURPOSE AND TRACTION TIRES	HIGH FLOTATION TIRES
FRONT	12 PSI	8 PSI
REAR	6 PSI	5 PSI

AIR CLEANER

SEE ENGINE MANUAL.

EVERY 50 HOURS OF OPERATION

REPEAT ALL 5 HOUR SERVICE CHECKS AND PERFORM ADDITIONAL SERVICE AS FOLLOWS:

ENGINE CRANKCASE

DRAIN ENGINE OIL EVERY 50 HOURS OF OPERATION UNDER NORMAL CONDITIONS OR EVERY 20 HOURS OF OPERATION UNDER VERY DUSTY CONDITIONS.

IF IT IS POSSIBLE, PARK TRACTOR ON SLIGHT INCLINE WITH THE FRONT OF THE TRACTOR LOWER THAN THE REAR.

RAISE THE HOOD AND REMOVE THE FRONT GRILLE. REMOVE DRAIN PLUG AND ALLOW OIL TO DRAIN INTO A CONTAINER.

REPLACE DRAIN PLUG AND REFILL CRANKCASE WITH THE PROPER GRADE OIL TO THE PROPER OIL LEVEL.

NOTE : THE BEST TIME TO DRAIN CRANKCASE IS AT THE END OF A DAY'S OPERATION. AT THIS TIME THE OIL IS HOT, AND ALL DIRT AND OTHER FOREIGN MATERIAL IN THE CRANKCASE ARE IN SUSPENSION.

EVERY 100 HOURS OF OPERATION

REPEAT ALL 5 HOUR AND 50 HOUR SERVICE CHECKS AND PERFORM ADDITIONAL SERVICE AS FOLLOWS:

ENGINE SHROUDS

BE SURE THE ENGINE COOLING FINS AND THE SHROUDS WHICH ENCLOSE THEM ARE CLEAN AT ALL TIMES. DIRT, OIL AND OTHER DEBRIS WHICH MAY HAVE ENTERED THROUGH THE SCREENS MAY LODGE ON COOLING FINS THEREBY RESTRICTING THE NORMAL AIR FLOW. THIS CAUSES SERIOUS DAMAGE TO ENGINE PARTS BECAUSE OF OVERHEATING.

REMOVE THE BOLTS WHICH HOLD THE ENGINE SHROUD IN PLACE AND BRUSH OUT ALL DIRT FROM COOLING FINS. CLEAN INSIDE OF SHROUD THOROUGHLY. SOAK OFF ALL OIL DEPOSITS WITH A SAFE SOLVENT. **CAUTION:** DO NOT RUN ENGINE WITH SHROUDS REMOVED.

REMOVE ROTATING SCREEN AND CHECK FOR OIL OR DIRTY FINS ON THE FLYWHEEL. BE SURE SCREEN IS CLEAN AND NOT DAMAGED.

TRANSMISSION OIL LEVEL

REMOVE OIL LEVEL (FILLER) PLUG WITH STICK TYPE GAUGE.

WHEN REQUIRED, USE A PRESSURE OIL CAN TO ADD TRANSMISSION LUBRICANT THROUGH FILLER HOLE UNTIL OIL SHOWS ON DIPSTICK. BE SURE THE TRACTOR IS ON A LEVEL SURFACE WHEN CHECKING.

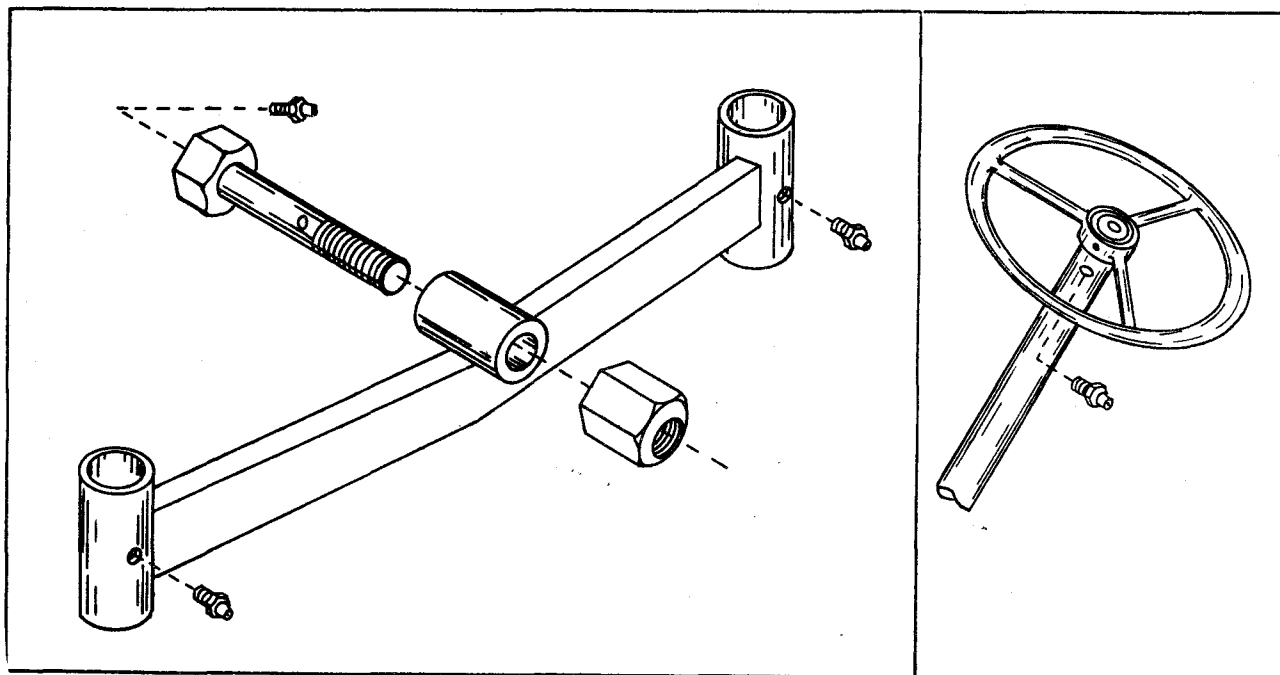
EVERY 500 HOURS OF OPERATION OR EACH SPRING AND FALL SEASON

IF THE TRACTOR IS TO BE PLACED IN STORAGE, EACH FALL AND AGAIN IN THE SPRING THE FOLLOWING SERVICE SHOULD BE PERFORMED.

REPEAT ALL 5 HOUR, 50 HOUR AND 100 HOUR SERVICE CHECKS AND PERFORM ADDITIONAL SERVICE AS FOLLOWS :

LUBRICATION OF FRONT AXLE AND STEERING COLUMN

USE PRESSURE GREASE GUN TO LUBRICATE STEERING COLUMN AND FRONT AXLE FITTINGS WITH SAE (SEASONAL GRADE) MULTIPURPOSE-TYPE GREASE. WIPE FITTINGS CLEAN AFTER LUBRICATION.



SERVICE

HOOD AND GRILLE

ENGINE AND RELATED PARTS ARE EASILY ACCESSIBLE BY LIFTING AND RAISING THE HOOD. THE HOOD WILL REMAIN OPEN AFTER YOU RAISE IT TO A NEAR VERTICAL POSITION.

TO REMOVE THE GRILLE FOR ACCESS TO THE IGNITION POINTS, OIL DRAIN, ETC., RELEASE THE SPRING CLAMPS AND LIFT GRILLE OUT. WHEN YOU ARE REPLACING GRILLE, BE SURE GUIDE PINS ON THE GRILLE BOTTOM ARE IN PLACE.

FUEL SYSTEM

PROPER INSPECTION AND SERVICE OF YOUR FUEL SYSTEM ARE IMPORTANT TO CONTINUED SUCCESSFUL OPERATION OF YOUR TRACTOR.

ADJUSTING POINTS

DISCONNECT SPARK PLUG CABLE TO PREVENT ACCIDENTAL STARTING OF THE ENGINE. **R**EMOVE THE IGNITION POINT COVER AND ROTATE ENGINE FLYWHEEL UNTIL THE POINTS ARE FULLY OPEN.

CHECK POINT GAP WITH A .020-INCH FEELER GAUGE. **I**F AN ADJUSTMENT IS REQUIRED, LOOSEN LOCKING SCREW AND MOVE SCREWDRIVER IN V-SLOT UNTIL THE POINTS ARE PROPERLY SET.

AFTER TIGHTENING THE LOCKING SCREW, RECHECK THE POINT GAP.

TO REPLACE POINTS, REMOVE SCREWS. **B**E SURE LOCKWASHERS ARE IN PLACE BEFORE REASSEMBLY.

SPARK PLUG GAP

CHECK SPARK PLUG GAP AND CONDITION OF ELECTRODES AFTER EVERY 100 HOURS OF OPERATION. **D**ISTANCE BETWEEN ELECTRODES SHOULD BE .025 INCH. **B**END THE OUTER ELECTRODE ONLY FOR PROPER GAP.

IF ELECTRODES HAVE BURNED SHORT OR HAVE BECOME PITTED, **I**NSTALL A NEW SPARK PLUG.

USE A SPARK PLUG WRENCH TO REMOVE PLUG. **A**LWAYS USE A NEW SPARK PLUG GASKET WHEN REPLACING PLUG. **T**IGHTEN PLUG TO 27 FT.-LBS. TORQUE.

BATTERY

YOUR TRACTOR HAS A 12 -VOLT ELECTRICAL SYSTEM. **W**HEN YOU ARE REPLACING THE BATTERY, USE A 12-VOLT, 45 -AMP- 20 HOUR RATING.

CAUTION; **P**REVENT ACCIDENTAL OPERATION OF THE STARTER OR ENGINE. **A**LWAYS DISCONNECT THE SPARK PLUG CABLE WHENEVER WORKING ON THE ELECTRICAL SYSTEM. **A**LSO DO THIS WHEN YOU ARE MAKING ADJUSTMENTS TO THE ENGINE OR OTHER MOVING PARTS.

CLEANING BATTERY

REMOVE BATTERY CABLES AND USE A WIRE BRUSH TO REMOVE CORROSION FROM AROUND BATTERY TERMINALS. **W**ASH TERMINALS WITH A SOLUTION CONSISTING OF ONE PART BAKING SODA TO FOUR PARTS WATER. **D**O NOT ALLOW CLEANING SOLUTION TO RUN INTO BATTERY CELLS.

COAT TERMINALS WITH PETROLEUM JELLY AND CONNECT BATTERY CABLES. **B**E SURE THE CABLES ARE TIGHT.

WIPE AND WASH ENTIRE BATTERY CASE, PLATFORM AND HOLD-DOWN STRAPS WITH CLEAR WATER.

BE SURE TOP AND BOTTOM VENT HOLES IN EACH CELL CAP ARE OPEN.

CHECKING BATTERY WATER LEVEL

CHECK THE LIQUID LEVEL OF EACH CELL BY REMOVING THE CAP. **W**ATER SHOULD COMPLETELY COVER THE CELLS AT ALL TIMES. **F**ILL EACH CELL TO RING LEVEL INSIDE FILLER HOLE WITH DISTILLED WATER .

USE CLEAN DISTILLED WATER WHEN POSSIBLE TO FILL BATTERY. **W**HEN ABSOLUTELY NECESSARY,

(OVER)

CLEAN DRINKABLE WATER MAY BE USED.

KEEPING THE LIQUID AT PROPER LEVEL DURING WINTER OR FREEZING WEATHER IS ESPECIALLY IMPORTANT. ALSO, THE BATTERY MUST BE KEPT FULLY CHARGED TO PREVENT FREEZING.

IMPORTANT : WHEN ADDING WATER TO THE BATTERY DURING FREEZING WEATHER, BE SURE THE ENGINE IS RUNNING AND CONTINUES TO RUN UNTIL WATER HAS HAD A CHANCE TO MIX THOROUGHLY. THIS RUNNING TIME SHOULD BE AT LEAST AN HOUR.

BATTERY CONNECTIONS SHOULD BE TIGHT AT ALL TIMES, ESPECIALLY WHEN BATTERIES ARE BEING CHARGED. LOOSE CABLES WILL CAUSE ARCING AND PITTING OF THE CONNECTIONS AND CAUSE EVENTUAL FAILURE.

NOTE : BE CAREFUL NOT TO ALLOW SPARKS OR FLAMES NEAR A CHARGED BATTERY.

TROUBLE SHOOTING

HARD STARTING

A. FAULTY IGNITION

CHECK FOR PRESENCE OF SPARK BY DISCONNECTING HIGH TENSION WIRE FROM PLUG AND HOLDING WIRE CLOSE TO THE CYLINDER HEAD WHILE CRANKING ENGINE WITH STARTER, IF THERE IS NO SPARK, CHECK TO SEE IF -

1. BREAKER POINT GAP IS INCORRECT.
2. BREAKER POINTS ARE WORN OR PITTED. REPLACE POINTS.
3. SPARK PLUG GAP IS INCORRECT.
4. SPARK PLUG ELECTRODES ARE PITTED OR FOULED. REPLACE PLUG.
5. IF THE FOREGOING FAILS TO CORRECT THE PROBLEM, SEE YOUR DEALER.

B. FAULTY CARBURETION

1. GASOLINE MAY NOT BE GETTING TO THE CARBURETOR BECAUSE OF AN AIR LOCK IN THE LINE. LINES MAY BE GUMMED AND PLUGGED.
2. CARBURETOR MAY BE DIRTY OR OUT OF ADJUSTMENT.

IF THE ENGINE CAN BE TURNED OVER SLOWLY BY HAND WITH LITTLE EFFORT, THERE IS A LOSS OF COMPRESSION. SEE YOUR DEALER OR SERVICEMAN.

ENGINE MISSING UNDER LOAD

- A. CHECK SPARK PLUG FOR PROPER GAP.
- B. CHECK FOR LEAN FUEL MIXTURE. ADJUST THE CARBURETOR HIGH SPEED SCREW.

- C. CHECK FOR DIRTY (FOULED) SPARK PLUG OR AN IMPROPER TYPE PLUG.
- D. PITTED OR WORN BREAKER POINTS SHOULD BE REPLACED WITH A NEW SET.
- E. SEE YOUR SERVICEMAN FOR PROPER IGNITION AND CARBURETION ADJUSTMENTS.

BACKFIRING

- A. CHECK CARBURETOR FOR LEAN FUEL MIXTURE.
- B. CHECK FOR STICKY INTAKE VALVE OR IMPROPER IGNITION. SEE YOUR SERVICEMAN OR DEALER.

KNOCKING

- A. CHECK FUEL SUPPLY FOR LOW OCTANE RATING. USE ONLY QUALITY GRADE OF A REGULAR GASOLINE.
- B. CHECK ENGINE FOR OVERHEATING. SEE OVERHEATING BELOW.
- C. CHECK CRANKCASE OIL LEVEL. FILL TO (F) MARK ON DIPSTICK. NOTE: IF AN ENGINE KNOCK HAS DEVELOPED BECAUSE OF LACK OF CRANKCASE OIL, HAVE YOUR DEALER CHECK CONDITION OF THE PISTON ROD AND CAP.
- D. SEE YOUR SERVICEMAN FOR POSSIBLE LOOSE CONNECTING ROD, IMPROPER TIMING OR EXCESSIVE CARBON IN COMBUSTION CHAMBER.

LOSS OF ENGINE POWER

A. OVERHEATING

1. CHECK AND CLEAN SCREENS AND ENGINE SHROUDS.
2. USING PREMIUM GASOLINE WITH HIGH OCTANE RATING. USE REGULAR GAS ONLY.
3. CHECK CARBURETOR FOR LEAN FUEL MIXTURE.
4. CHECK OIL DIPSTICK FOR EXCESSIVE OIL IN ENGINE CRANKCASE. DO NOT FILL ABOVE OIL LEVEL MARK.
5. CHECK BREAKER POINTS FOR PROPER GAP.

B. DIRTY AIR CLEANER

1. DRAIN OIL FROM THE CLEANER.
2. RINSE THE CLEANER WITH KEROSENE.
3. REPLACE THE OIL.

C. PARTLY CLOSED CHOKE

1. CHECK TO BE SURE THE CHOKE CONTROL CABLE IS NOT JAMMED.
2. CHOKE MUST BE COMPLETELY OPEN (CHOKE LEVER DOWN) AFTER ENGINE IS WARMED UP EXCEPT ON EXTREMELY COLD DAYS.

ENGINE OPERATING ERRATICALLY

CHECK THE FOLLOWING :

(A) CARBURETOR SET TOO LEAN (B) CLOGGED FUEL LINE (C) WATER IN FUEL (D) FAULTY CHOKE CONTROL (E) LOOSE ELECTRICAL CONNECTIONS (F) AIR LEAKS IN CARBURETOR CONNECTIONS OR GASKET (G) CARBURETOR JET CLOGGED (H) LOOSE THROTTLE CABLE.

ENGINE WILL NOT IDLE

(A) CHECK CARBURETOR ADJUSTMENTS, (B) CHECK FOR DIRTY CARBURETOR, (C) CHECK AND SET SPARK PLUG GAP, (D) CHECK CARBURETOR FOR AIR LEAKS IN GASKET, (E) SEE YOUR SERVICEMAN FOR POSSIBLE LEAKY VALVES OR FAULTY CONDENSER.

TRANSMISSION WILL NOT STAY IN GEAR

(A) SHIFT GEAR FIRMLY WITHOUT LETTING GEARS GRIND BEFORE ENGAGING. (B) SEE YOUR SERVICEMAN TO REPLACE WORN GEARS.

BRAKES NOT EFFECTIVE

(A) ADJUST BRAKE AND CLUTCH LINKAGE. (B) REPLACE BRAKE SHOES IF THEY ARE WORN EXCESSIVELY. SEE YOUR SERVICEMAN.

IMPROPER STEERING OR EXCESSIVE FRONT TIRE WEAR

(A) CHECK WHEEL ALIGNMENT AND TOE-IN.

CLUTCH HARD TO OPERATE

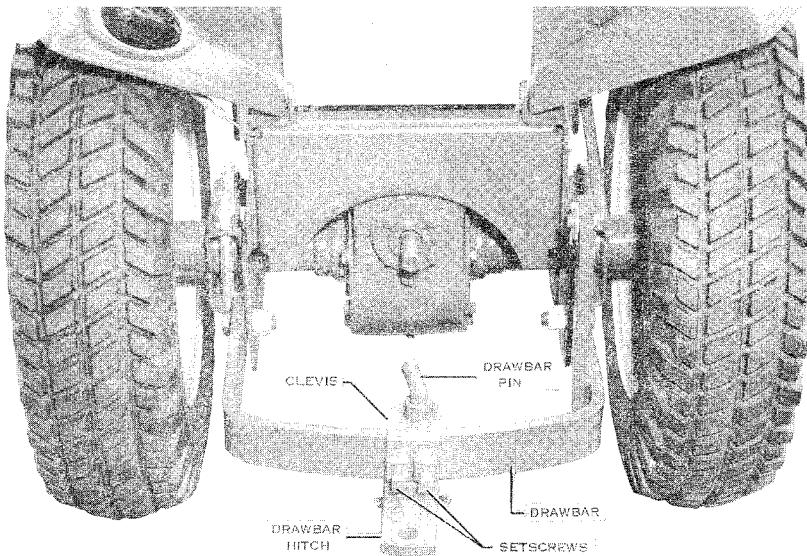
(A) CHECK LINKAGE CONTROL AND SPRINGS.

STARTER INOPERATIVE OR WILL NOT TURN ENGINE

(A) CHECK FOR DISCHARGED BATTERY, (B) IF ROTARY MOWER DRIVE IS ENGAGED, DISENGAGE. SEE MOWER OPERATOR'S MANUAL. (C) TIGHTEN MOTOR-GENERATOR BELT, (D) CHECK ELECTRICAL CONNECTIONS.

TRACTOR WILL NOT MOVE WITH ENGINE RUNNING

(A) BE SURE TRACTOR IS IN GEAR, (B) CHECK DRIVE COUPLING, (C) CHECK AXLES. IF THEY ARE TURNING, LOOK FOR SHEARED KEY.



THE DUAL PURPOSE DRAWBAR HITCH CAN BE ATTACHED TO THE DRAWBAR AS SHOWN FOR GENERAL USE, OR IT CAN BE REVERSED ON THE DRAWBAR WITH THE CLEVIS TO THE REAR FOR USE WITH A PLOW OR CULTIVATOR.

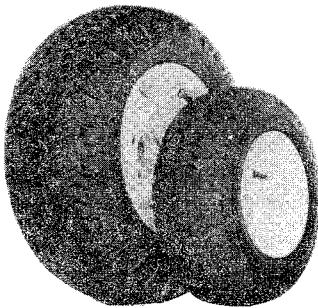
IF THE HITCH IS TO BE USED WITH A PLOW OR A CULTIVATOR, REMOVE THE HITCH BY LOOSENING THE TWO SETSCREWS AND REMOVING THE DRAWBAR PIN AND THE SPACER. ATTACH THE HITCH TO THE DRAWBAR SO THAT THE CLEVIS END OF HITCH CAN BE USED. TIGHTEN THE TWO SETSCREWS. YOU MAY ALSO ATTACH THE HITCH AT ANY POINT ON THE DRAWBAR BY LOOSENING THE SETSCREWS AND MOVING THE HITCH TO THE DESIRED POSITION.

USE THE ATTACHMENT LIFT LEVER (PAGE 70-14) TO RAISE AND LOWER ALL REAR MOUNTED ATTACHMENTS.

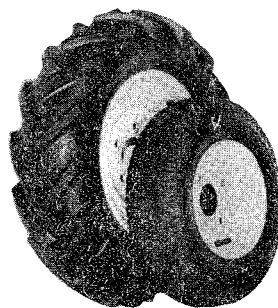
REAR WHEELS

REAR WHEELS ARE FACTORY ASSEMBLED IN THE NARROW (27-INCH) TREAD. WHEELS CAN BE TURNED AROUND ON THE HUBS FOR A WIDE (33-INCH) WHEEL TREAD FOR GREATER STABILITY. REMOVE WHEEL BOLTS, TURN WHEEL AROUND WITH VALVE STEM INWARD, AND REASSEMBLE ON HUB.

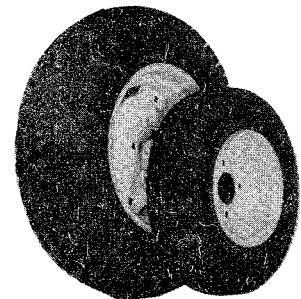
FRONT AND REAR TIRE SELECTION



1



2



3

1. USE HIGH FLOTATION - 8.50 x 12 REAR AND 16-6.50 x 8 FRONT FOR TRAVEL OVER SOFT GROUND OR AREAS WHERE TIRE TRACKS MAY BE OBJECTIONABLE.
2. USE TRACTION TIRE - 4.80/ 4.00 x 8 FRONT AND 6.00 x 12 REAR FOR GREATER TRACTION WHEN WORKING HEAVIER LOADS.
3. USE ALL PURPOSE - 4.80/4.00 x 8 FRONT AND 6.00 x 12 REAR FOR GENERAL USE AND NORMAL LOAD APPLICATION.

V-BELT CLUTCH

THE S613 CLUTCH IS STANDARD EQUIPMENT ON YOUR MODEL D-4-7 TRACTOR. ITS PURPOSE IS TO OPERATE FRONT MOUNTED IMPLEMENTS AND OTHER ATTACHMENTS, SUCH AS MOWERS, ETC.

THE CLUTCH IS A BALL-LOCK CLUTCH. IT IS A WELL MADE MECHANICAL DEVICE. TREAT IT AS SUCH. IT WORKS SOMEWHAT LIKE A VARIABLE-SPEED PULLEY.

DO NOT ATTEMPT TO CLOSE CLUTCH UNLESS BELT OR CLUTCH IS ROTATING.
THE CLUTCH MUST BE UNDER POWER TO FUNCTION PROPERLY.

WHEN THE CLUTCH IS OPEN OR DISENGAGED, THE BELT IS VERY LOOSE, AS IT IS RELAXED AND DROPS DOWN ON IDLER BEARING. SEE FIGURE 6.

TO ENGAGE THE CLUTCH, APPLY CONSTANT PRESSURE ON CLUTCH ENGAGING ROD UNTIL BELT RISES TO TOP OF GROOVE AND CLUTCH LOCKS (SNAPS) INTO ENGAGEMENT. DO NOT JAM IT. IT REMAINS LOCKED WITHOUT CONTINUAL PRESSURE. HOWEVER, A MEANS OF KEEPING THE CLUTCH ENGAGED IS PROVIDED BY MEANS OF A LOCKING SLOT ROD. OTHERWISE, MOVEMENT OF THE VEHICLE MAY CAUSE THE CLUTCH TO DISENGAGE.

IF BRONZE IDLER BEARINGS STICK OR WILL NOT TURN, FLUSH WITH KEROSENE.

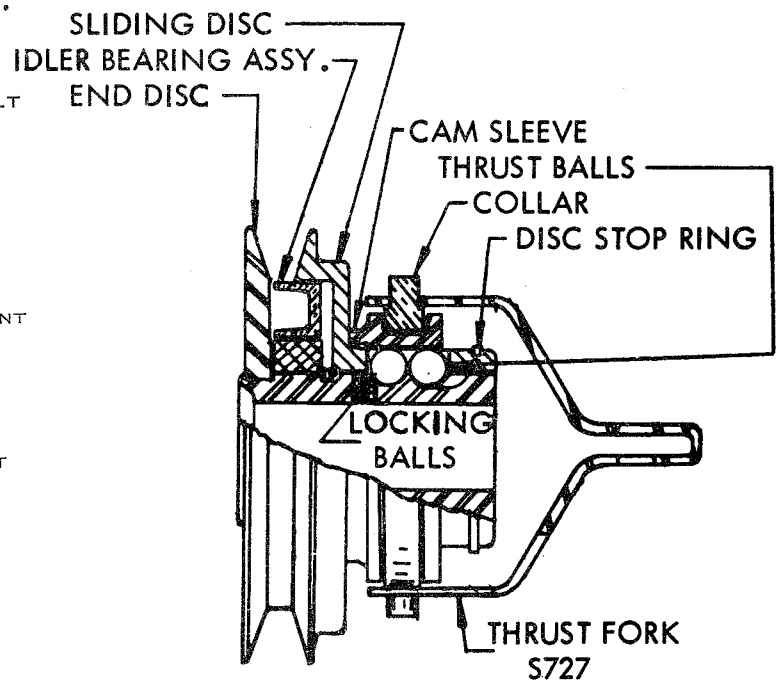


Fig. 6

LUBRICATION

THE CLUTCH IS PACKED IN LIGHT CUP GREASE AT THE FACTORY. THE ADDITION OF A GOOD GRADE LIGHT OIL IS NEEDED EVERY 10 HOURS OF OPERATION. THIS IS NECESSARY TO KEEP SLIDING PARTS IN GOOD ORDER. THE THROW-OUT COLLAR IS MADE OF POWDERED IRON AND IS 22% OIL RETENTIVE. THEREFORE, OIL THIS FREQUENTLY OR USE LIGHT GREASE.

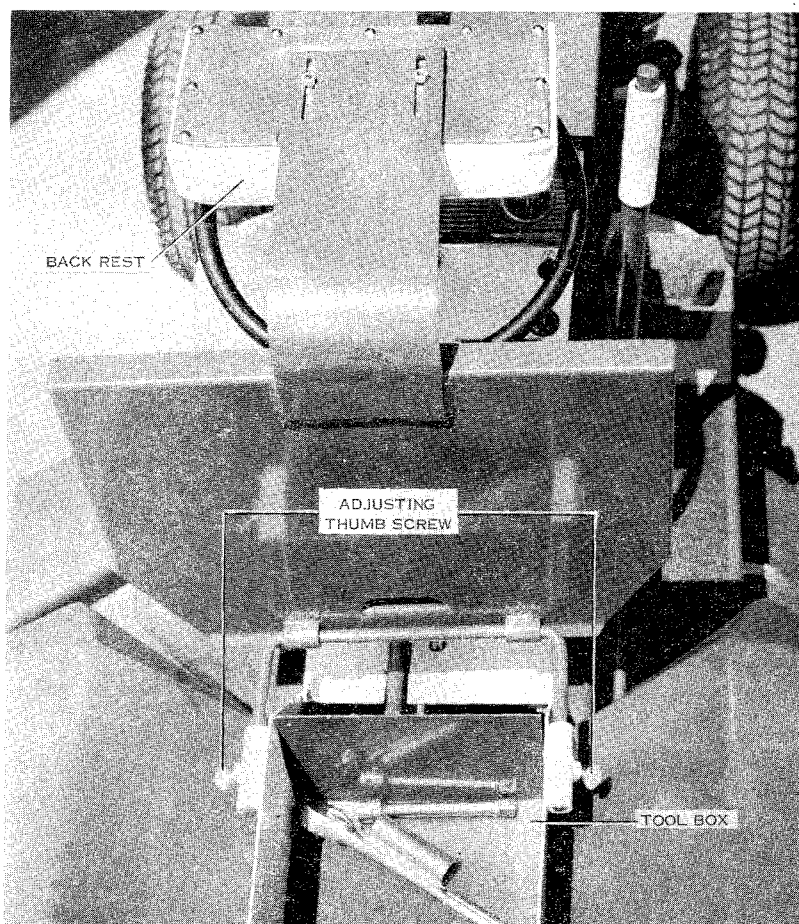
CLEANING

IF LITTER AND DUST DEPOSITED ON CLUTCH RETARDS ITS ACTION, CLEAN OR FLUSH WITH KEROSENE. THEN RE-OIL SLIDING PARTS.

IF FOR ANY REASON THE CLUTCH IS REMOVED FROM THE TRACTOR, FOLLOW THE FOLLOWING INSTRUCTIONS IN REGARD TO INSTALLATION OF THE CLUTCH;

1. DO NOT DIS-ASSEMBLE CLUTCH AS IT IS NOT EASY TO ASSEMBLE, AND DISASSEMBLY IS UNNECESSARY FOR INSTALLATION.
2. DO NOT DRIVE CLUTCH ON TO SHAFT. IT HAS BEEN CAREFULLY GAUGED TO FIT A CLEAN SHAFT AND A GOOD KEY.
3. LOCATE THE CLUTCH ON THE SHAFT SO THAT THE BELT IS IN LINE WITH OPPOSITE PULLEY WHEN IDLING AND SLIGHTLY OUT OF LINE WHEN ENGAGED. THIS REDUCES THE TENDENCY OF BELT TO CREEP WHEN IT IS DISENGAGED.
4. THE SHIFTING LEVER SHOULD POSITION THE THROW-OUT COLLAR BUT SHOULD NOT EXERT CONSTANT PRESSURE WHEN ENGAGED, AS EXERTION OF PRESSURE WILL CAUSE UNDUE WEAR AND HEATING OF THE THROW-OUT COLLAR.
5. DO NOT REPLACE S1147 PIN THRU S727 FORK WITH A BOLT AND NUT. THIS FORK MUST REMAIN LOOSE ON S816 THROW-OUT COLLAR. ANY BINDING ON THE COLLAR WILL CAUSE EXCESSIVE HEATING WEAR AND GALLING.

SEAT ADJUSTMENT



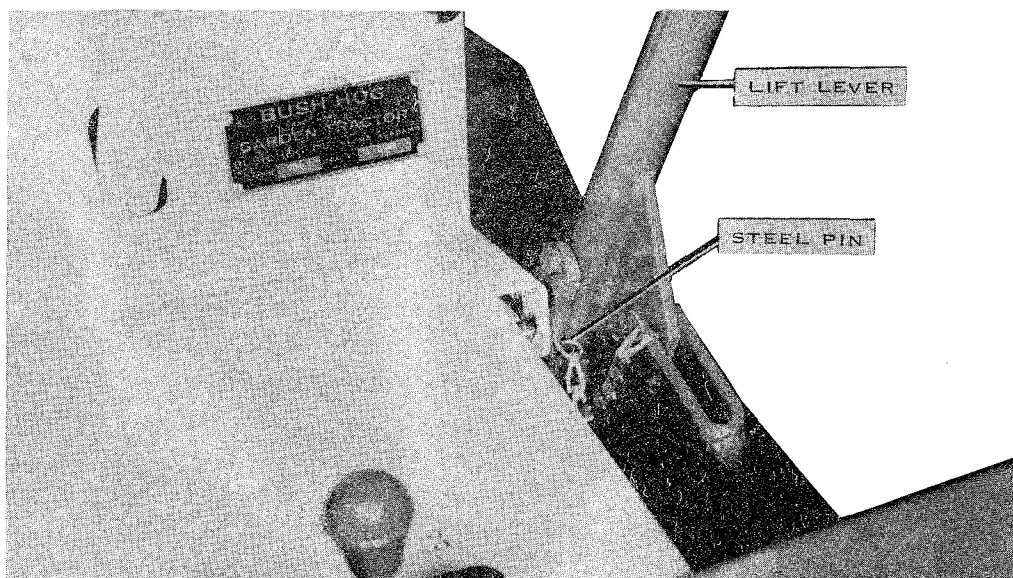
THE TRACTOR SEAT MAY BE ADJUSTED INTO DIFFERENT POSITIONS. LOOSEN THE THUMB SCREWS AND ADJUST THE SEAT TO A COMFORTABLE POSITION. TIGHTEN THUMB SCREWS. THE BACK REST CAN ALSO BE ADJUSTED TO THE DESIRED HEIGHT. NOTE: THE D-4-7 TRACTOR HAS A TOOL BOX FOR YOUR CONVENIENCE.

ATTACHMENT LIFT LEVER

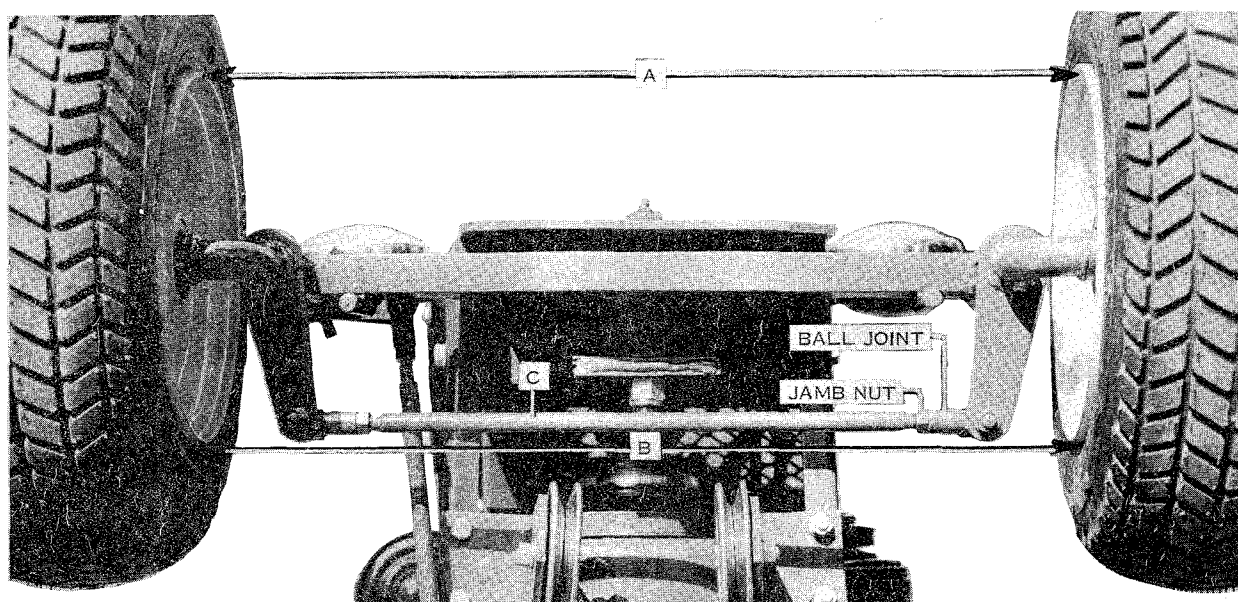
WHEN THE ATTACHMENT LIFT LEVER IS IN THE FORWARD POSITION, THE ATTACHMENT IS IN THE RAISED POSITION. MOVING THE LEVER BACKWARD LOWERS THE ATTACHMENT. PRESS THUMB RELEASE AND MOVE LEVER UNTIL ATTACHMENT OPERATES AT DESIRED HEIGHT. REMOVING PRESSURE FROM THE THUMB RELEASE LOCKS THE OPERATING LEVER AND THE ATTACHMENT IN DESIRED POSITION.

A PIN LOCK-OUT IS PROVIDED ON THE LOWER END OF THE LIFT LEVER TO HOLD THE THUMB RELEASE IN THE LOWERED POSITION. WHEN THE THUMB RELEASE IS IN THIS POSITION, THE LIFT LEVER AND ATTACHMENTS ARE FREE TO FLOAT WITH THE GROUND CONTOUR.

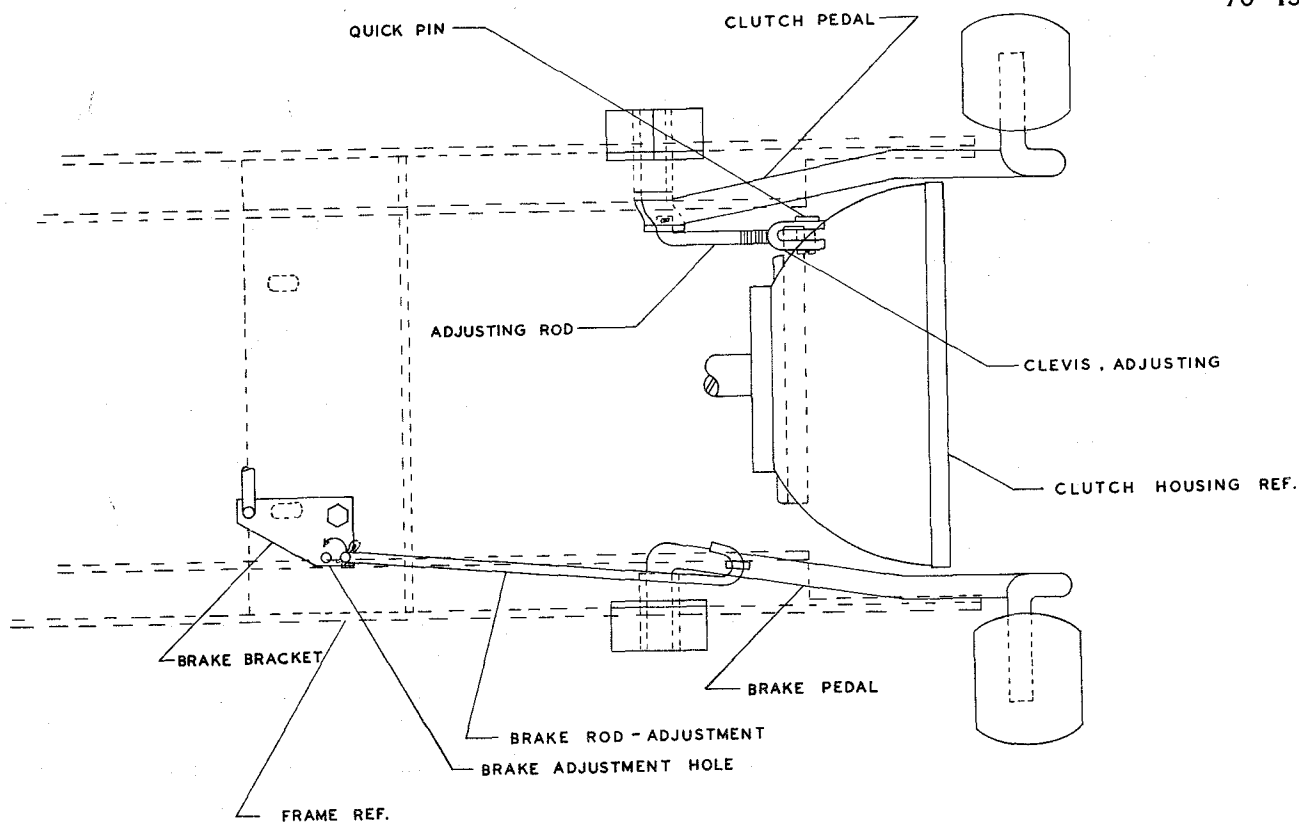
TO SET THE LEVER IN FLOAT POSITION, PRESS THUMB RELEASE. PLACE SPRING STEEL PIN IN HOLE AS SHOWN.



FRONT WHEEL TOE-IN



MEASURE DISTANCES A AND B ABOVE. THE TRACTOR HAS PROPER TOE-IN OR ALIGNMENT WHEN DIMENSION A IS $\frac{3}{16}$ -INCH LESS THAN DIMENSION B. WHEN IT IS NECESSARY, REMOVE BALL JOINT ON EITHER END OF ROD C AND ADJUST TILL PROPER TOE-IN IS OBTAINED. TIGHTEN JAMB NUT FIRMLY.



ALL REFERENCE PARTS ARE NAMED IN THE ABOVE DRAWING.

CLUTCH ADJUSTMENT

RIGHT AND LEFT DIRECTIONS IN THIS ADJUSTMENT SECTION ARE DETERMINED BY LOOKING IN THE DIRECTION OF FORWARD TRAVEL.

1. REMOVE THE QUICK PIN FROM THE CLEVIS.
2. IF GEARS DO NOT MESH EASILY, SHORTEN THE ADJUSTING ROD BY TURNING THE CLEVIS TO THE LEFT. THIS WILL RAISE THE CLUTCH PEDAL AND ALLOW THE GEARS TO MESH EASILY.
3. IF THE CLUTCH WILL NOT FULLY RELEASE, LENGTHEN THE ADJUSTING ROD BY TURNING THE CLEVIS TO THE RIGHT. THIS WILL LOWER THE CLUTCH PEDAL AND ALLOW THE CLUTCH TO RELEASE.
4. REPLACE QUICK PIN THROUGH CLEVIS AS IT WAS BEFORE YOU MADE THE ADJUSTMENT.

BRAKE ADJUSTMENT

1. THE BRAKE ROD IS ATTACHED TO THE BRAKE BRACKET IN THE FORWARD BRAKE ADJUSTMENT HOLE AT THE FACTORY.
2. IF MORE BRAKE PEDAL IS NEEDED, ATTACH THE BRAKE ROD IN THE REAR ADJUSTMENT HOLE OF THE BRAKE BRACKET.
3. THIS SHOULD BE SUFFICIENT ADJUSTMENT TO GIVE YOUR TRACTOR PROPER BRAKING ABILITY.

SEE YOUR DEALER FOR ADDITIONAL CLUTCH AND BRAKE ADJUSTMENTS.

STORAGE

IF YOUR TRACTOR WILL NOT BE USED FOR A PERIOD OF TIME SUCH AS THROUGH THE WINTER SEASON, PERFORM THE FOLLOWING OPERATIONS:

DRAIN THE GASOLINE TANK AND CRANK THE ENGINE TO BURN GAS IN CARBURETOR.

REMOVE SPARK PLUG AND POUR IN ONE TABLESPOONFUL SAE 30 OIL. TURN ENGINE OVER MANUALLY AT LEAST TWO TIMES AND REPLACE SPARK PLUG.

1. REMOVE BATTERY AND STORE IT WHERE IT WILL NOT FREEZE. CHECK WATER LEVEL AND REFILL BATTERY IF NECESSARY.
2. CLEAN TRACTOR EXTERIOR THOROUGHLY, REMOVING ALL MUD, DIRT, GREASE AND OTHER MATERIALS.
3. TO PREVENT RUST, TOUCH UP ALL UNPAINTED AND EXPOSED SURFACES WITH PAINT.
4. CHECK ALL VISIBLE MOVING PARTS FOR WEAR, BREAKAGE OR DAMAGE. NOW IS THE TIME TO ORDER ANY PARTS REQUIRED AND MAKE NECESSARY REPAIRS TO AVOID NEEDLESS DELAY WHEN YOU USE THE TRACTOR AGAIN NEXT SEASON.
5. BLOCK UP TRACTOR TO TAKE WEIGHT OFF TIRES. IF IT IS POSSIBLE, STORE TRACTOR IN A COOL, DARK PLACE TO PREVENT EXCESSIVE TIRE DETERIORATION.
6. REMOVE BELT TENSION FROM ALL BELTS. LOOSEN MOTOR GENERATOR.

YOUR DEALER IS EQUIPPED TO GIVE YOUR TRACTOR A COMPLETE SERVICE CHECK AND MAKE RECOMMENDATIONS FOR REPLACING PARTS WHICH ARE IN NEED OF ATTENTION.

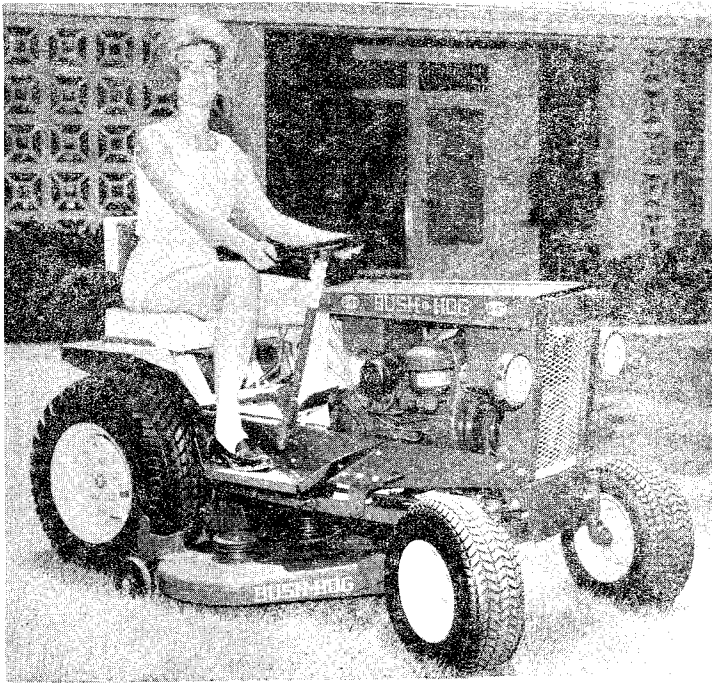
PREPARING TRACTOR FOR USE AFTER STORAGE

ENGINE

1. DRAIN AND REFILL TRACTOR CRANKCASE WITH PROPER WEIGHT AND GRADE OIL.
2. CLEAN SPARK PLUG AND SET GAP.
3. CHECK IGNITION POINT GAP.

TRACTOR

1. REINSTALL BATTERY. CHECK LIQUID LEVEL.
2. CHECK TRANSMISSION OIL LEVEL.
3. CHECK TIRE INFLATION.

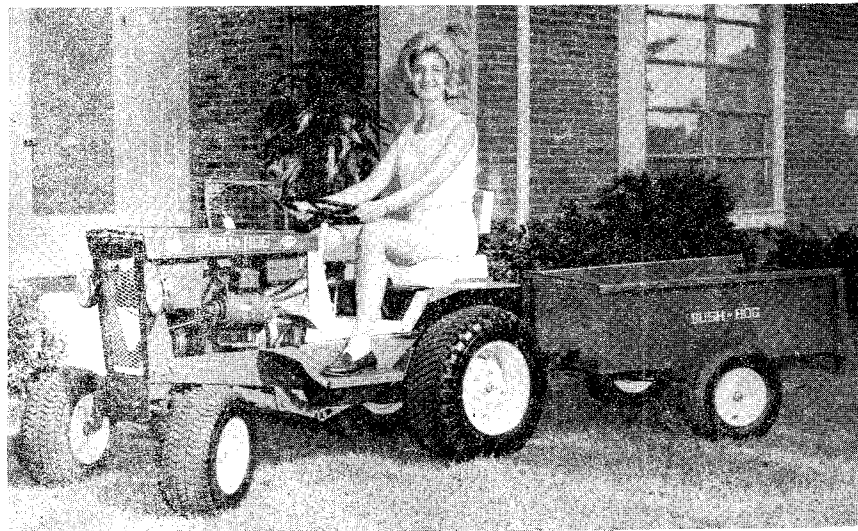


RIDING TRACTOR AND MOWER

TWO MOWERS, THE M-42 AND THE M-32A, ARE MADE BY BUSH HOG TO BE ATTACHED TO YOUR RIDING TRACTOR. THE M-42 MOWER HAS A 42 INCH CUT, AND THE M-32A MOWER HAS A 32 INCH CUT.

RIDING TRACTOR AND DT-1 TRAILER

THE DT-1 DUMP TRAILER WILL MAKE YOUR LAWN AND GARDEN WORK MUCH EASIER BY PROVIDING CONVENIENT TRANSPORTATION OF ALL EQUIPMENT AND SUPPLIES. THE CAPACITY OF THE TRAILER IS 1,000 LBS. INSIDE THE TRAILER IS 40 X 29 X 13 INCHES.



RIDING TRACTOR AND AE-32 AERATOR

THE AE-32 AERATOR CAN BE USED TO LOOSEN AND REPLENISH YOUR LAWN SOIL WITH AIR WITHOUT DAMAGING YOUR LAWN GRASS. THE AERATOR IS 32 INCHES WIDE, AND IT WEIGHS 170 LBS. FILLED WITH WATER, 110 LBS. EMPTY.



RIDING TRACTOR AND MP-8 PLOW

THE MP-8 MOLDBOARD PLOW CUTS A FURROW 8 INCHES WIDE AND 5 TO 6 INCHES DEEP, AND THE PLOW HAS A 8 INCH ROLLING COULTER WITH ADJUSTABLE DEPTH CONTROL.

SNOW THROWER (ST-1)

THE ST-1 SNOW THROWER IS AN AUGER TYPE THROWER WITH A 36 INCH SWATH. IT IS ATTACHED TO THE FRONT OF THE TRACTOR AND HAS ADJUSTABLE SKID SHOES.

FRONT BLADE (FB-40)

THE FB-40 FRONT BLADE IS USED TO CLEAR SNOW OR GRADE DIRT. IT HAS A WIDTH OF 40 INCHES AND IS ADJUSTABLE TO THE ANGLE THE OPERATOR DESIRES.

SPIKE TOOTH HARROWS (H-12, H-18)

THE H-12 AND H-18 SPIKE TOOTH HARROWS BREAK CLOUDS, LEVEL SOIL, AND PULVERIZE SOIL. THE 12 TOOTH HARROW IS EQUIPPED WITH GAUGE WHEELS. THE 12 TOOTH HARROW HAS AN ADJUSTABLE WIDTH OF 20 TO 32 INCHES; THE 18 TOOTH HARROW HAS A WIDTH OF 48 INCHES.

CULTIVATOR (C-1)

THE C-1 CULTIVATOR IS A VERSATILE UNIT FOR CULTIVATING A WIDE RANGE OF VEGETABLES OR FIELD CROPS AND IS ADJUSTABLE FOR ROWS FROM 6 INCHES TO 42 INCHES WIDE. IT CAN ALSO BE ADJUSTED FOR STRADDLE -ROW OR BETWEEN - ROW CULTIVATION. IT HAS GAUGE WHEELS AND A BOLT AND STRAP FOR HOLDING A WEIGHT BLOCK.

LAWN ROLLER (24-32)

THE 24-32 LAWN ROLLER LEVELS TURF AND LUMPY GROUND. IT IS 24 x 32 INCHES AND WEIGHS 695 LBS. FILLED WITH WATER, 130 LBS. EMPTY.

DISK HARROW (H-1)

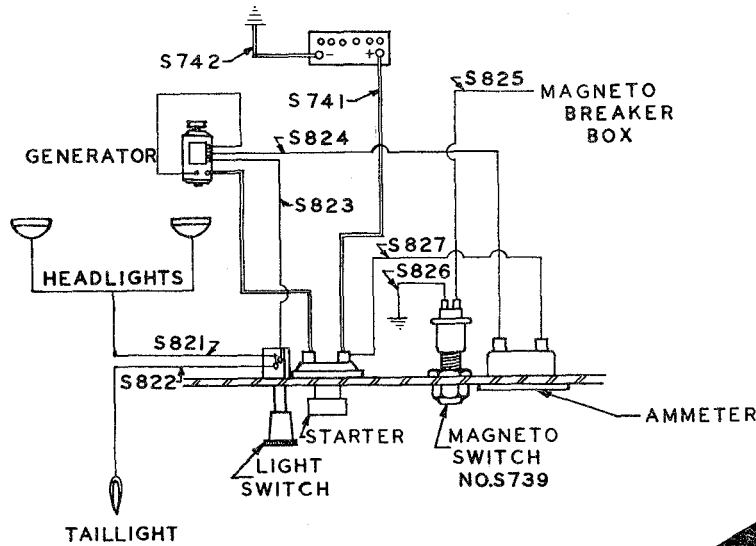
THE H-1 DISK HARROW HAS FOUR GANGS OF FOUR 11 INCH DISCS, WHICH CAN BE SET AT ANGLES OF 10, 15, AND 20. ALL 4 GANGS ARE INDEPENDENTLY ADJUSTABLE. THE WIDTH BETWEEN GANGS IS ADJUSTABLE FROM 1 INCH TO 14 INCHES. THE HARROW HAS A CUTTING WIDTH OF 29 TO 39 INCHES.

Bush Hog

WIRING DIAGRAM & V-BELT CLUTCH

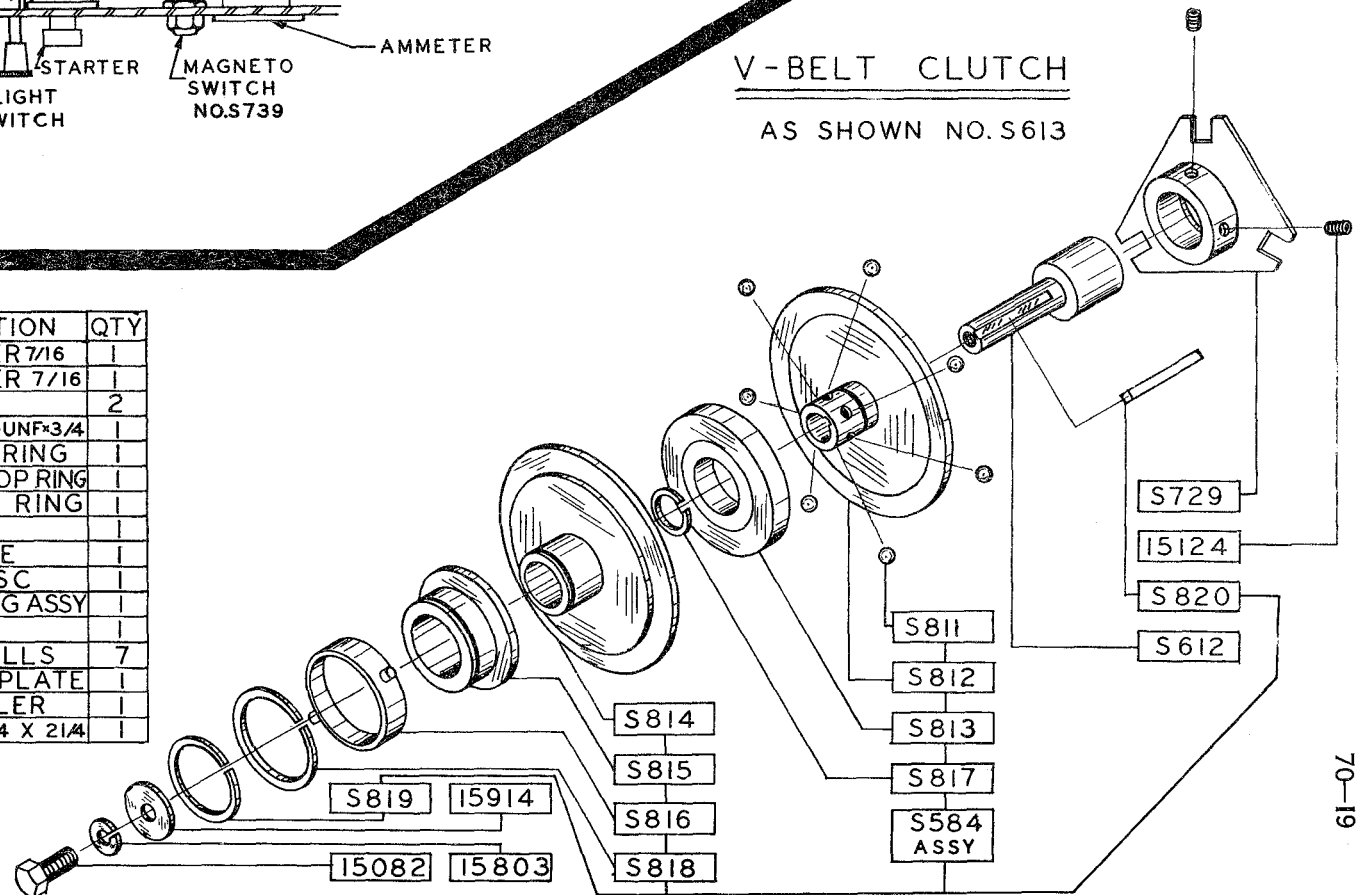
WIRING DIAGRAM

LIGHT BUNDLE NO.S961
INCLUDES;
HEADLIGHTS NO.S919
TAILLIGHT NO.S918
LIGHT SWITCH NO.S917
INSTALLATION KIT
NO.S913



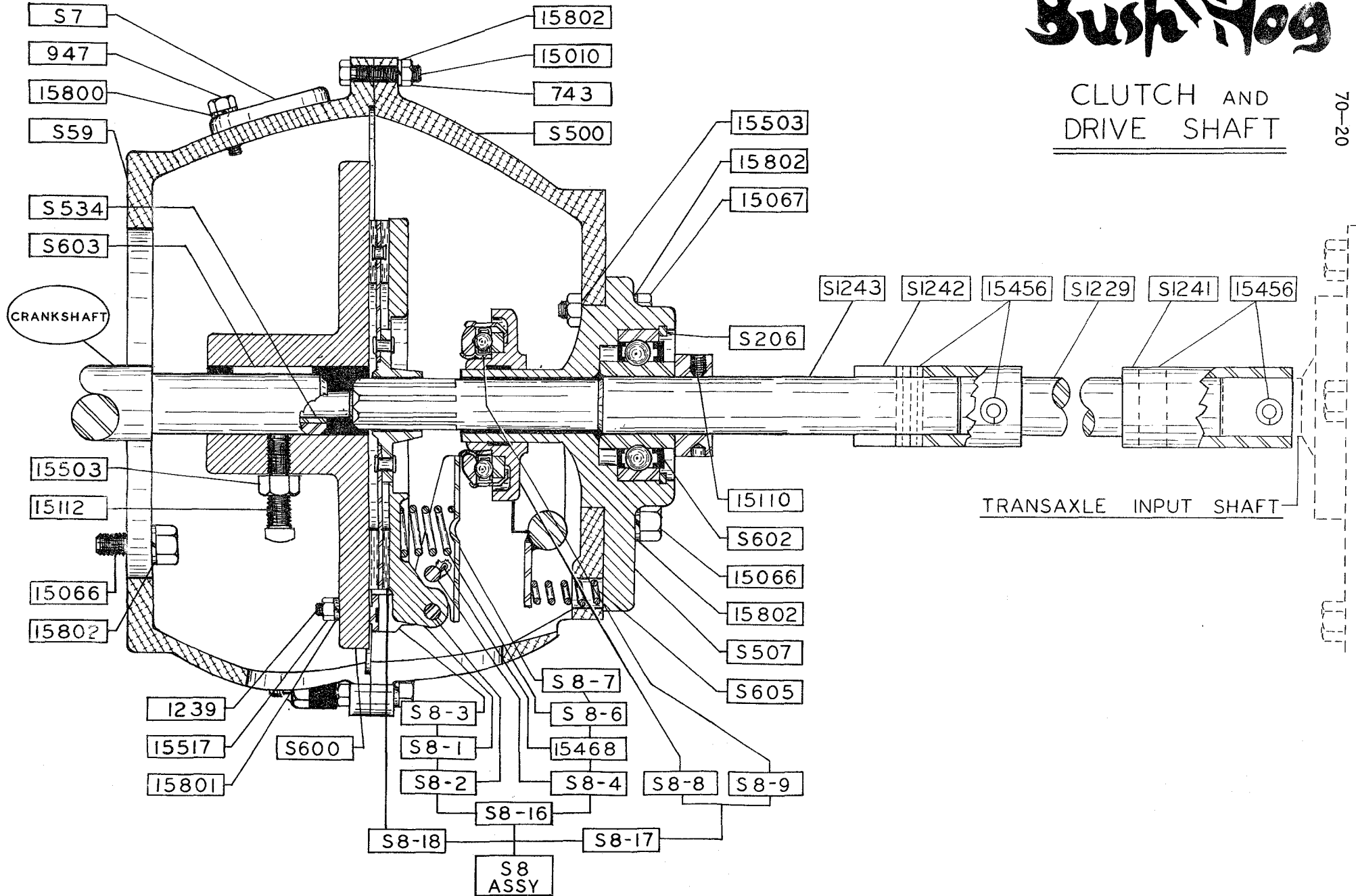
V-BELT CLUTCH

AS SHOWN NO.S613



PART NO	DESCRIPTION	QTY
15914	FLATWASHER 7/16	1
15803	LOCKWASHER 7/16	1
15124	SETScrew	2
15082	BOLT 7/16-20UNF*3/4	1
S819	DISC STOP RING	1
S818	COLLAR STOP RING	1
S817	IDLER STOP RING	1
S816	COLLAR	1
S815	CAM SLEEVE	1
S814	SLIDING DISC	1
S813	IDLER BRNGASSY	1
S812	END DISC	1
S811	THRUST BALLS	7
S729	STABILIZER PLATE	1
S612	P.T.O. COUPLER	1
S820	KEY 3/16X 1/4 X 2 1/4	1

CLUTCH AND DRIVE SHAFT

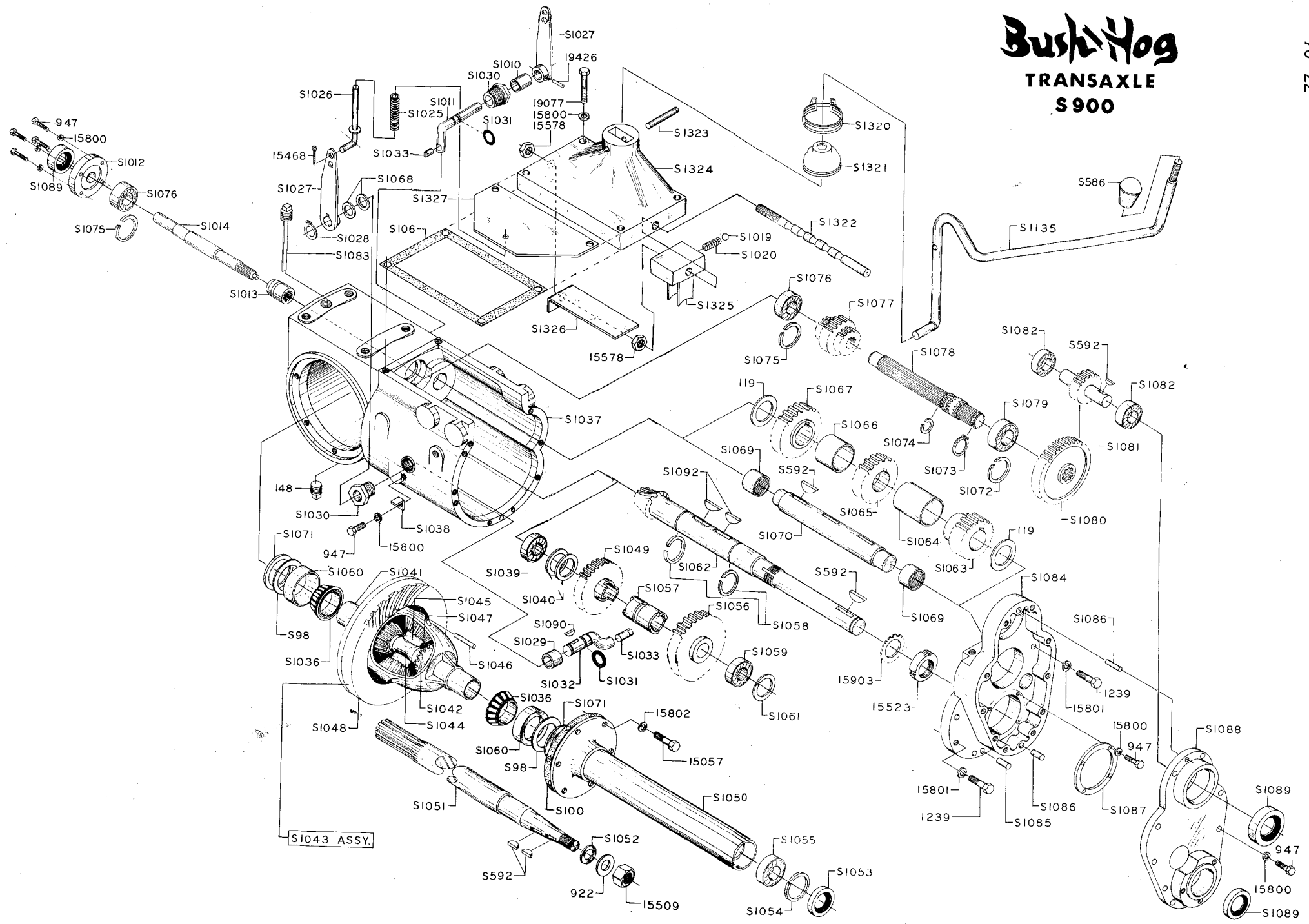


PART NO.	DESCRIPTION	QTY	PART NO.	DESCRIPTION	QTY.
S7	ACCESS PLATE	2	SI241	REAR COUPLING	1
S8	CLUTCH ASSEMBLY	1	SI242	FRONT COUPLING	1
S8-1	PRESSURE PLATE-REAR	1	SI243	CLUTCH SHAFT	1
S8-2	PRESSURE PLATE PIN	3	I5010	BOLT 3/8- 24 UNF x I 3/4	4
S8-3	LEVER ARM BRACKET	3	I5066	BOLT 3/8 - 16 UNC x I	6
S8-4	LEVER ARM PIN	3	I5067	BOLT 3/8 - 16 UNC x I 1/2	2
S8-5	COTTER PIN 3/32 x 1/2	3	I5110	SETSCREW 1/4 - 20 UNC x 1/4	2
S8-6	PRESSURE SPRING	3	I5112	SETSCREW 3/8 - 16 UNC x I 1/4	2
S8-7	LEVER ARM	3	I5503	NUT 3/8 - 16 UNC	4
S8-8	THROW-OUT BEARING SLEEVE	1	I5517	NUT 5/16 - 18 UNC	6
S8-9	THROW -OUT BEARING	1	I5800	LOCKWASHER 1/4 MED.	2
S8-16	PRESSURE PLATE ASSEMBLY	1	I5801	LOCKWASHER 5/16 MED.	6
S8-17	THROW-OUT BEARING ASSEMBLY	1	<u>I5456</u>	ROLL PIN 1/4 x I 1/4	4
S8-18	CLUTCH DISC	1	I5468	COTTER PIN 3/32 x 1/2	3
S59	FRONT CLUTCH HOUSING	1			
S206	RETAINER RING	1			
S500	REAR CLUTCH HOUSING	1			
S507	BEARING HOLDER	1			
S534	PILOT BUSHING	1			
S600	PRESSURE PLATE-FRONT	1			
S602	DRIVE SHAFT BEARING	1			
S603	KEY 1/4 x 1/4 x 2	1			
S605	RETURN SPRING	1			
947	BOLT 1/4 - 20 UNC x 3/4	2			
SI229	DRIVE SHAFT	1			
I239	BOLT 5/16 - 18 UNC x I	6			

Bush Hog

TRANSAXLE

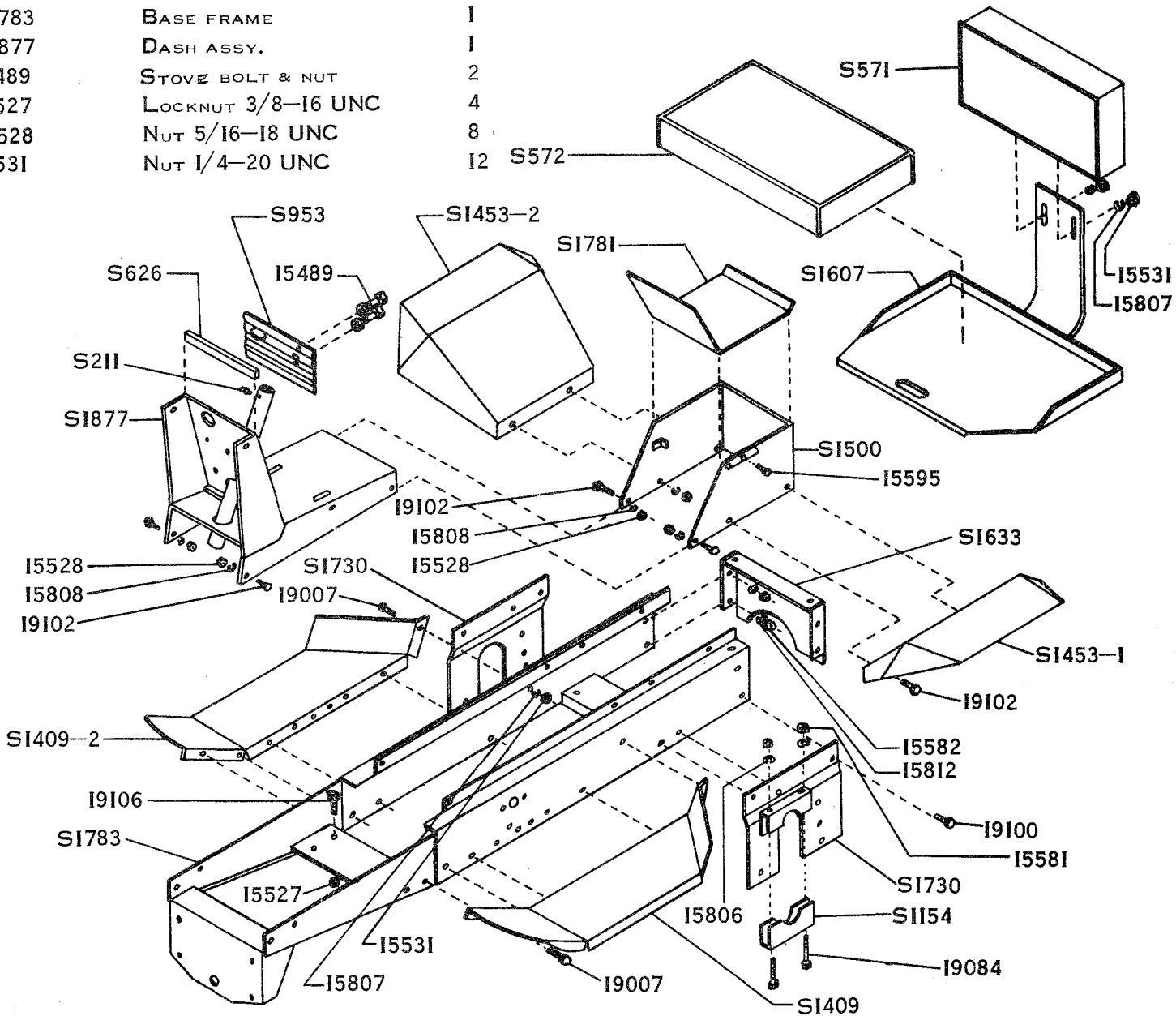
S900



PART NO	DESCRIPTION	PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
S98	PINION ADJUSTING SHIM	SI048	RING GEAR	SI085	DOWELL PIN
SI00	AXLE HOUSING GASKET	SI049	GEAR 28 TOOTH	SI086	DOWELL PIN
SI06	TOP COVER GASKET	SI050	AXLE HOUSING	SI087	RETAINER
II9	FLATWASHER 3/4 SAE	SI051	AXLE SHAFT	SI088	COVER PLATE
I48	PIPE PLUG 1/2-14 NPT	SI052	GASKET	SI089	OIL SEAL
S586	CONTROL KNOB	SI053	OIL SEAL	SI090	KEY WOODRUFF NO. 404
S592	KEY 3/16 x 3/4	SI054	SNAP RING	SI092	KEY WOODRUFF NO. 808
922	FLATWASHER 5/8	SI055	BEARING	SI135	SHIFT LEVER
947	BOLT 1/4-20 UNC x 3/4	SI056	GEAR-42 TOOTH	I239	BOLT 5/16 -18 UNC x I
SI010	SPACER 5/8ID x 3/4OD x I LONG	SI057	COLLAR	SI320	CLAMP DUST CAP
SI011	CAM-LEVER	SI058	SNAP RING	SI321	DUST CAP
SI012	COVER PTO	SI059	BEARING	SI322	DETENT SHAFT
SI013	COLLAR PTO ENGAGING	SI060	CUP	SI323	PIN SHIFT LEVER PIVOT
SI014	SHAFT PTO OUTPUT	SI061	SNAP RING	SI324	HOUSING TOP SHIFT
SI019	BALL 1/4	SI062	PINION SHAFT	SI325	YOKE SHIFTER
SI020	SPRING	SI063	GEAR 14 TOOTH	SI326	YOKE GUIDE
SI025	SPRING	SI064	SPACER	SI327	BRACKET SPRING
SI026	SPRING RETAINER	SI065	GEAR 23 TOOTH	I5057	BOLT 3/8-16 UNC x 3/4
SI027	SHIFT LEVER LOWER	SI066	SPACER	I5468	COTTER PIN 3/32 x 1/2
SI028	SNAP RING	SI067	GEAR 28 TOOTH	I5509	NUT 5/8-18 UNF
SI029	SPACER	SI068	SPACER BUSHING	I5523	NUT NO. 5
SI030	BUSHING	SI069	BEARING	I5578	JAMB NUT 7/16-14 UNC
SI031	O-RING SEAL	SI070	INDLER SHAFT	I5800	LOCKWASHER 1/4
SI032	SHIFT CAM	SI071	SPACER RING	I5801	LOCKWASHER 5/16
SI033	SHIFT CAM GUIDE	SI072	SNAP RING	I5802	LOCKWASHER 3/8
SI036	CONE	SI073	SNAP RING	I5903	LOCKWASHER WO-5
SI037	TRANSMISSION HOUSING	SI074	SPIR-O-LOX	I9077	BOLT 1/4-20 UNC x I 3/4
SI038	STOP BRACKET	SI075	SNAP RING	I9426	ROLL PIN 3/16 x I
SI039	BEARING	SI076	BEARING		
SI040	SPACER	SI077	GEAR 14, 19, 14 TOOTH		
SI041	DIFFERENTIAL HOUSING	SI078	INPUT SHAFT		
SI042	PIN GEAR	SI079	BEARING		
SI043	DIFFERENTIAL ASSEMBLY	SI080	GEAR 46 TOOTH		
SI044	DIFFERENTIAL RETAINER SHAFT	SI081	PINION INPUT SHAFT		
SI045	DIFFERENTIAL CROSS SHAFT	SI082	BEARING		
SI046	RETAINER PIN	SI083	VENT PLUG		
SI047	SIDE GEAR	SI084	END HOUSING COVER		

SEAT, FRAME, FENDER, AND DASH ASSEMBLY

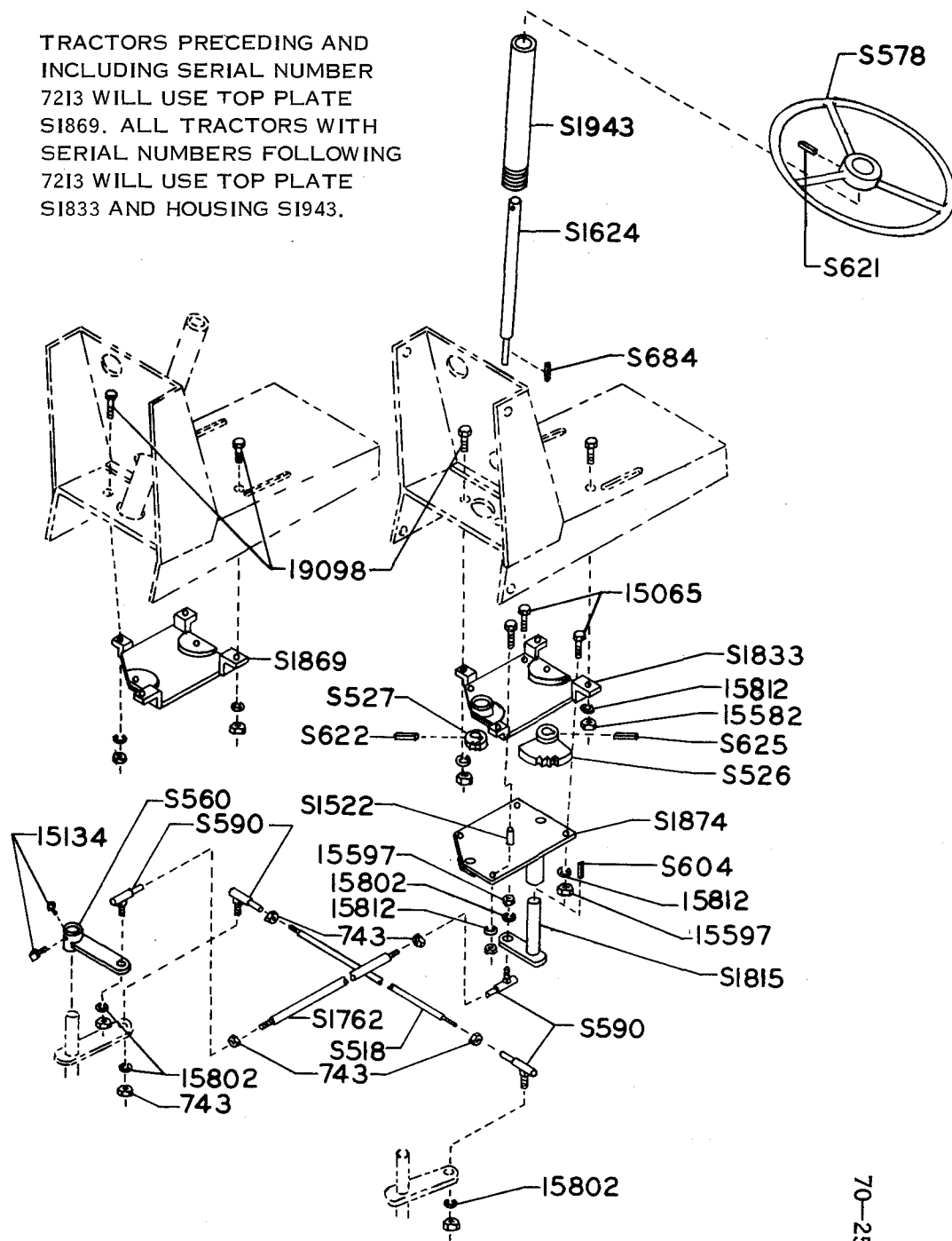
PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S211	GREASE FITTING	1	I5581	NUT 1/2-13 UNC	2
S571	CUSHION -BACK	1	I5582	NUT 3/8-16 UNC	10
S572	CUSHION-LOWER	1	I5595	THUMBSCREW 5/16 UNC x 3/4	2
S626	RUBBER TRIM	1	I5806	LOCKWASHER 1/2	2
S953	DASH RIM	1	I5807	LOCKWASHER 1/4	12
SI154	CLAMP	2	I5808	LOCKWASHER 5/16	8
SI409-1	FOOT REST L.H.	1	I5812	LOCKWASHER 3/8	10
SI409-2	FOOT REST R.H.	1	I9007	CAPSCREW 1/4 UNC x 3/4	10
SI453-1	FENDER L.H.	1	I9084	CAPSCREW 1/2-13 UNC x 4 1/2	2
SI453-2	FENDER R.H.	1	I9100	CAPSCREW 3/8 UNC x 3/4	10
SI500	BATTERY BOX	1	I9102	CAPSCREW 5/16 UNC x 1	8
SI607	SEAT	1	I9106	CAPSCREW 3/8 UNC x 1 3/4	4
SI633	END, FRAME	1			
SI730	MOUNT PLATE	1			
SI783	BASE FRAME	1			
SI877	DASH ASSY.	1			
I5489	STOVE BOLT & NUT	2			
I5527	LOCKNUT 3/8-16 UNC	4			
I5528	NUT 5/16-18 UNC	8			
I5531	NUT 1/4-20 UNC	12			



STEERING ASSEMBLY

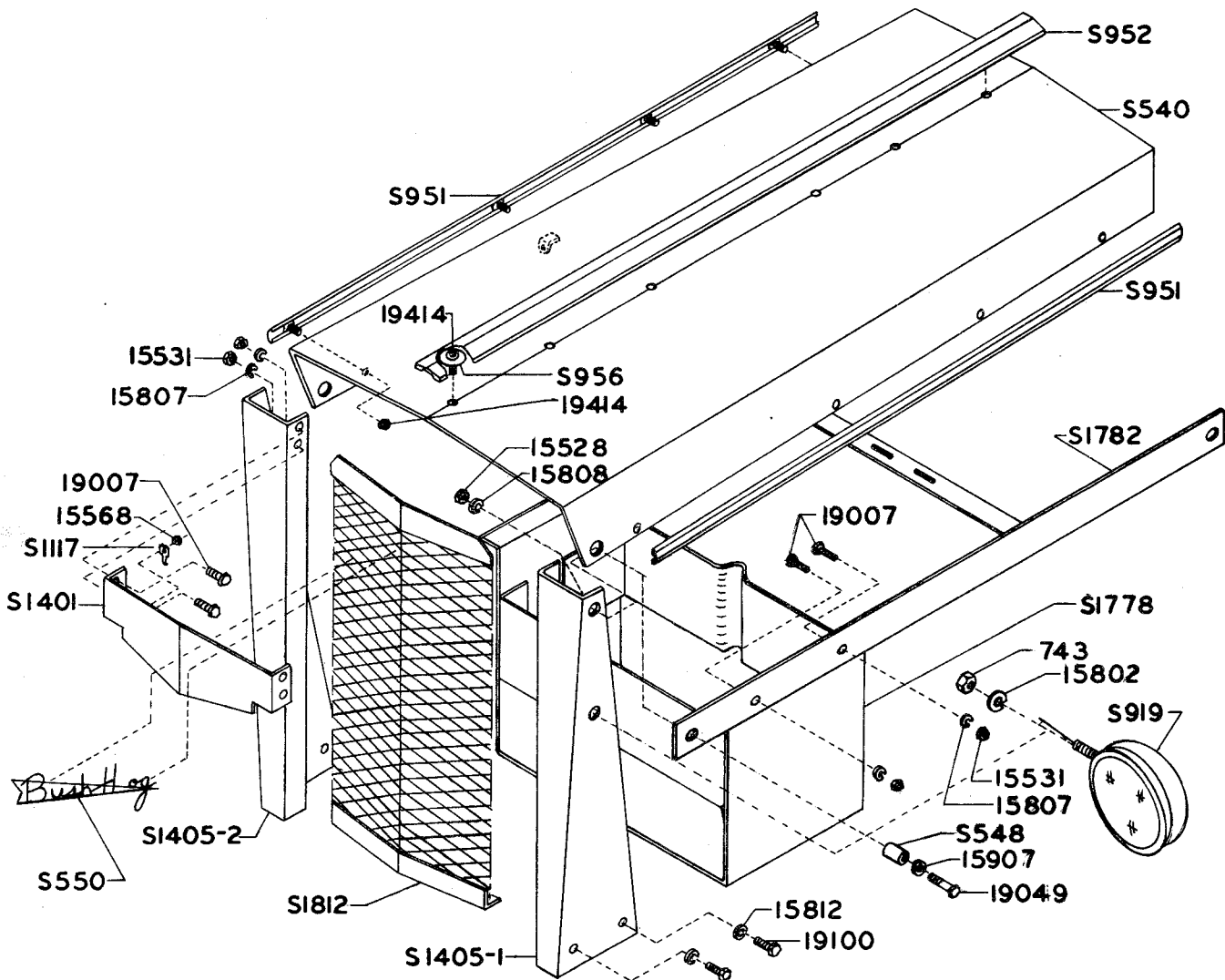
PART No.	DESCRIPTION	QTY.
S518	TIE ROD	1
S526	GEAR, STEERING	1
S527	PINION GEAR	1
S560	ARM, STEERING AXLE	1
S578	STEERING WHEEL	1
S590	BALL JOINT	4
S604	KEY 1/4 x 1/4 x 3/4	1
S621	ROLL PIN 3/16 x 2	1
S622	ROLL PIN 3/16 x 1	1
S625	ROLL PIN 3/16 x 1 3/8	1
S684	KEY 3/16 x 3/16 x 3/4	1
SI522	PIPE SPACER	4
SI624	STEERING SHAFT	1
SI762	DRAG LINK	1
SI815	STEERING ARM	1
SI833	STEERING PLATE	1
SI869	STEERING PLATE (TOP)	1
SI874	STEERING PLATE (BOTTOM)	1
SI943	STEERING HOUSING	1
743	NUT 3/8-24 UNF	8
I5065	CAPSCREW 3/8-24 UNF x 2	4
I5134	SETSCREW 3/8-16 UNF x 1/2	2
I5582	NUT 3/8-16 UNC	4
I5597	NUT 3/8-24 UNF	4
I5802	LOCKWASHER 3/8 MED.	4
I5812	LOCKWASHER 3/8	8
I9098	CAPSCREW 3/8-16 UNC x 1 1/4	4

DRAG LINK ASSEMBLY SI980 CONSISTS OF 1 NO. SI762
DRAG LINK, 2 NO. 743 NUTS AND 2 NO. S590 BALL JNTS.

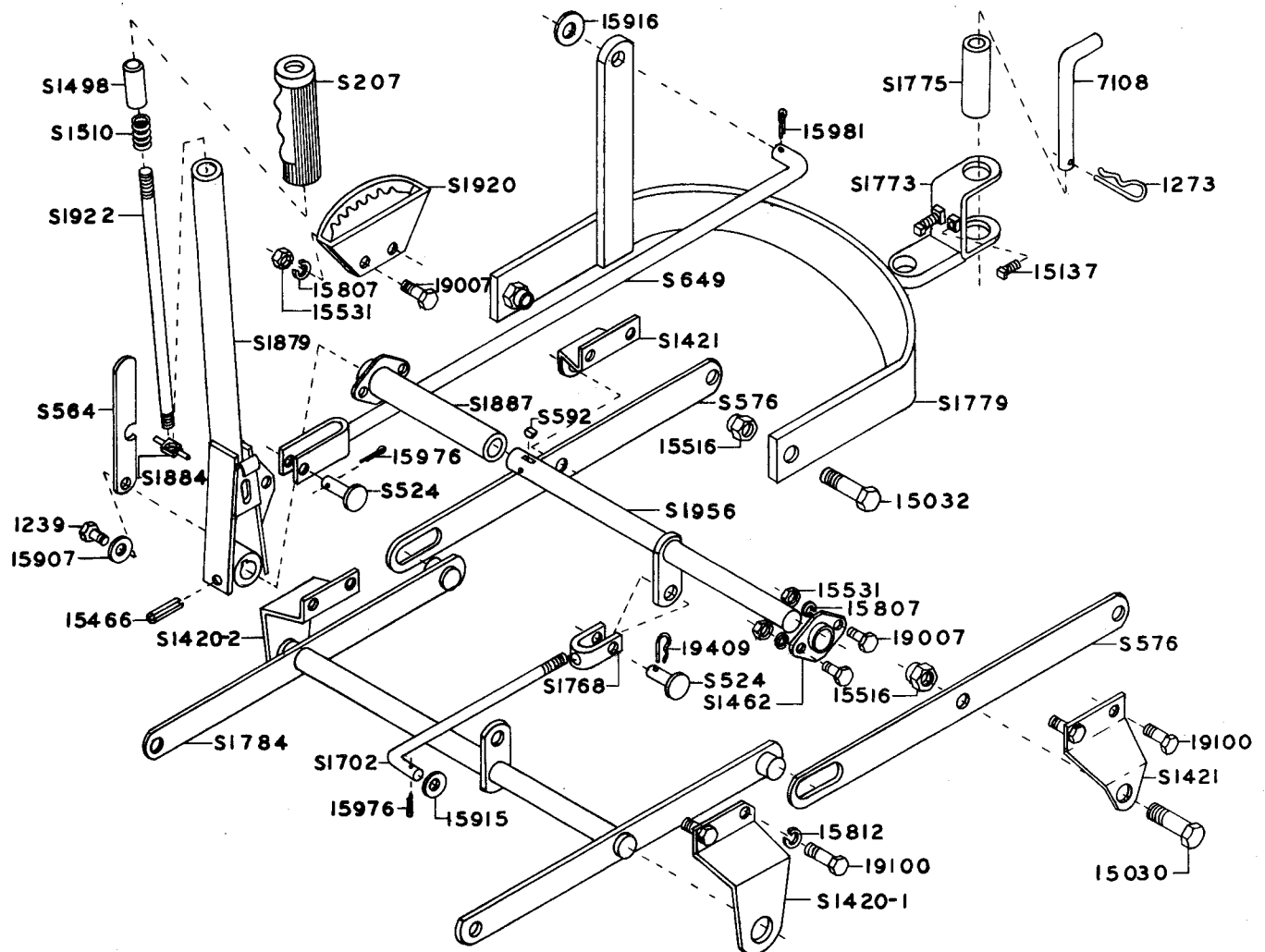


HOOD, GRILL, AND HEADLIGHT ASSEMBLY

PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S540	HOOD	1	743	NUT 3/8-24 UNF	2
S548	PIPE BUSHING	2	15528	NUT 5/16-18 UNC	2
S919	HEADLIGHT	2	15531	NUT 1/4-20 UNC	8
S951	HOOD TRIM, SIDE	2	15568	NUT 3/16-24 UNC	1
S952	HOOD TRIM, TOP	1	15802	LOCKWASHER 3/8 MED	1
S956	TRIM BRACKET	4	15807	LOCKWASHER 1/4 MED.	8
S1117	GRILL LATCH	1	15808	LOCKWASHER 5/16 MED.	2
S1401	GRILL TOP	1	15812	LOCKWASHER 3/8 MED.	4
S1405-1	GRILL SIDE, L. H.	1	15907	FLATWASHER 5/16 STD.	2
S1405-2	GRILL SIDE, R. H.	1	19007	BOLT 1/4-20 UNC x 3/4	8
S1983	BATTERY BOX	1	19049	BOLT 5/16-18 UNC x 1 3/4	2
S1782	HOOD BRACE	1	19100	BOLT 3/8-13 UNC x 3/4	4
S1812	GRILL	1	19414	STOVE BOLT & NUT	14

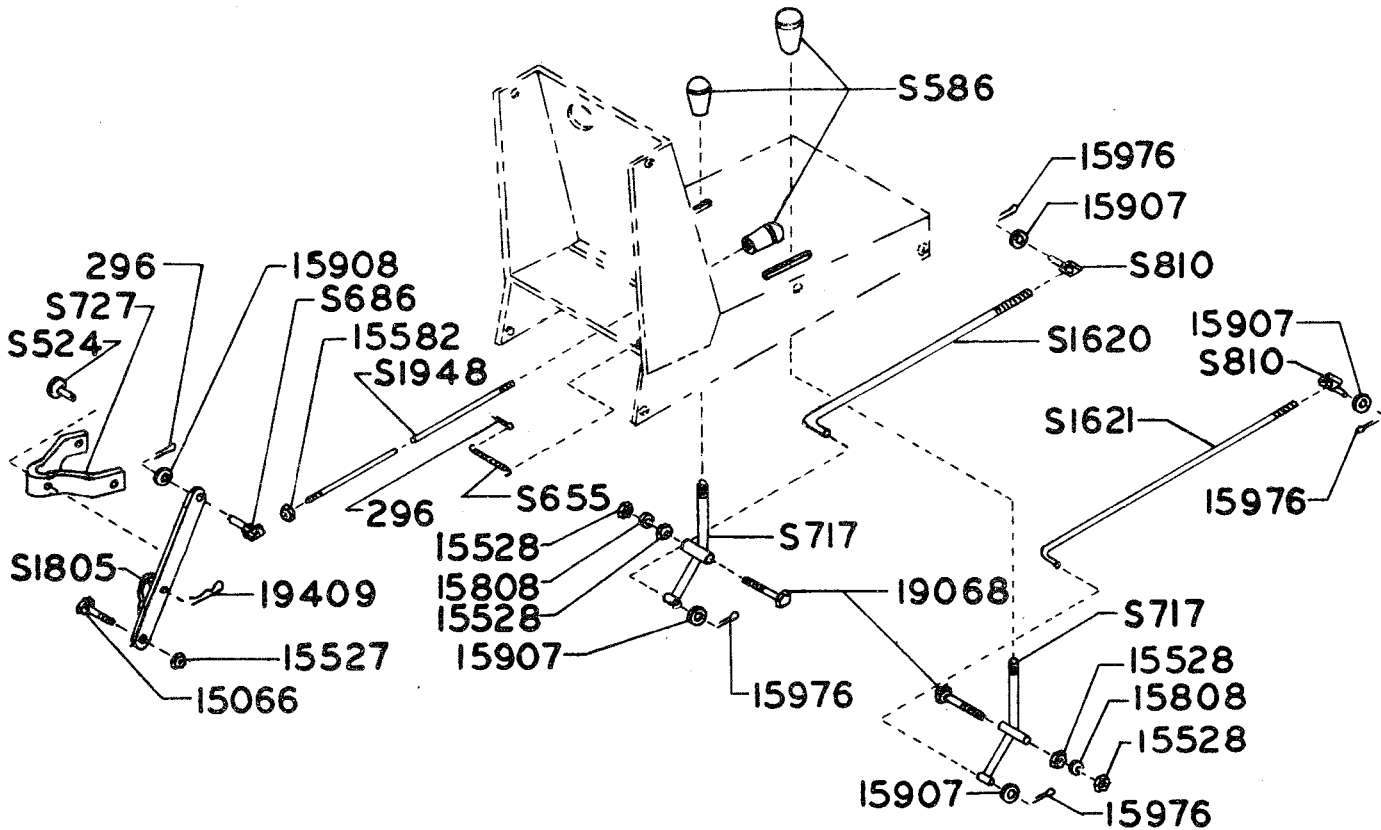


PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
S207	HAND GRIP	1	S1920	QUADRANT	1
S524	RIVET	2	S1956	LEVER SHAFT	1
S564	LOCK, LIFT	1	1239	CAPSCREW 5/16 - 18 UNC x 1	1
S576	LIFT BAR	2	1273	PRESTO PIN	1
S592	KEY, WOODRUFF 3/16 x 3/4	1	7108	HITCH PIN	1
S649	LIFT ROD	1	15030	CAPSCREW 5/8-18 UNF x 1 1/2	2
SI420-1	BRACKET, FRONT LIFT L.H.	1	15032	CAPSCREW 5/8-18 UNF x 2	2
SI420-2	BRACKET, FRONT LIFT R.H.	1	15137	SETSCREW 1/2-13 UNC x 1	1
SI421	BRACKET, REAR LIFT	2	15466	ROLL PIN	1
SI462	BEARING	1	15516	LOCKNUT 5/8 - 18 UNF	4
SI498	THUMB BUTTON	1	15531	HEX NUT 1/4-20 UNC	6
SI510	SPRING	1	15807	LOCKWASHER 1/4	6
SI702	ROD	1	15812	LOCKWASHER 3/8 MED.	8
SI768	CLEVIS	1	15907	FLATWASHER 5/16	1
SI773	CLEVIS	1	15916	FLATWASHER	1
SI775	HITCH TUBE	1	15976	COTTER PIN	1
SI779	DRAWBAR	1	15981	COTTER PIN	1
SI784	FRONT LIFT	1	19007	CAPSCREW 1/4-20 UNC x 3/4	6
SI879	LIFT LEVER	1	19100	CAPSCREW 3/8-16 UNC x 3/4	8
SI884	ROD LOCK	1	19409	PRESTO PIN	1
SI887	BEARING	1			

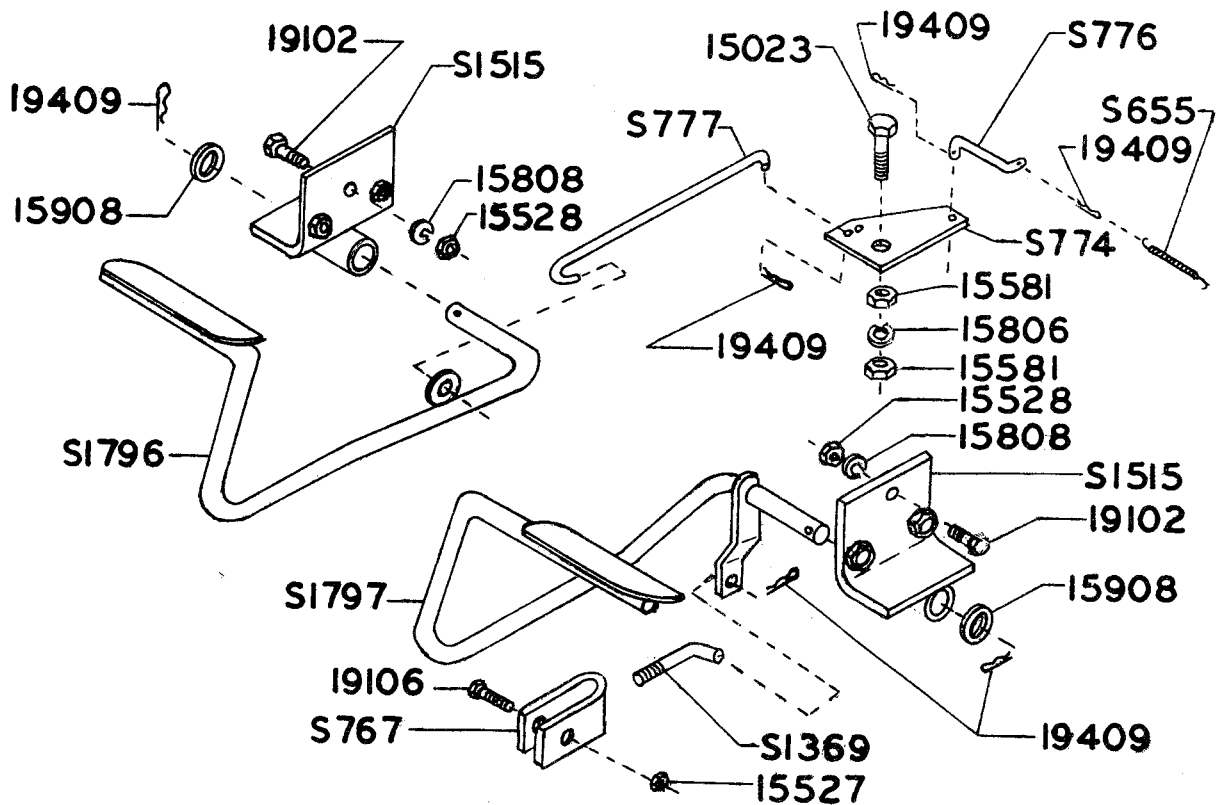


CONTROLS ASSEMBLY

PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S524	CLEVIS PIN	1	296	COTTER PIN 1/8 x 1 1/2	2
S586	CONTROL KNOB	3	I5066	CAPSCREW 3/8-16 UNC x 1	1
S655	SPRING	1	I5527	LOCKNUT 3/8-16 UNC	1
S686	ADJUSTING PIN	1	I5528	NUT 5/16-18 UNC	4
S717	SHIFT LEVER	2	I5582	NUT 3/8-16 UNC	1
S727	YOKE	1	I5808	LOCKWASHER 5/16 MED.	2
S810	ADJUSTING PIN	2	I5907	FLATWASHER 5/16	4
S1620	ARM, HIGH-LOW	1	I5908	FLATWASHER 5/8	1
S1621	ARM, P.T.O.	1	I5976	COTTER PIN 3/32 x 1	4
S1805	ARM, V-BELT CLUTCH	1	I9068	CAPSCREW 5/16-UNC 2 1/2	2
S1948	ROD, V-BELT CLUTCH	1	I9409	PRESTO PIN	1

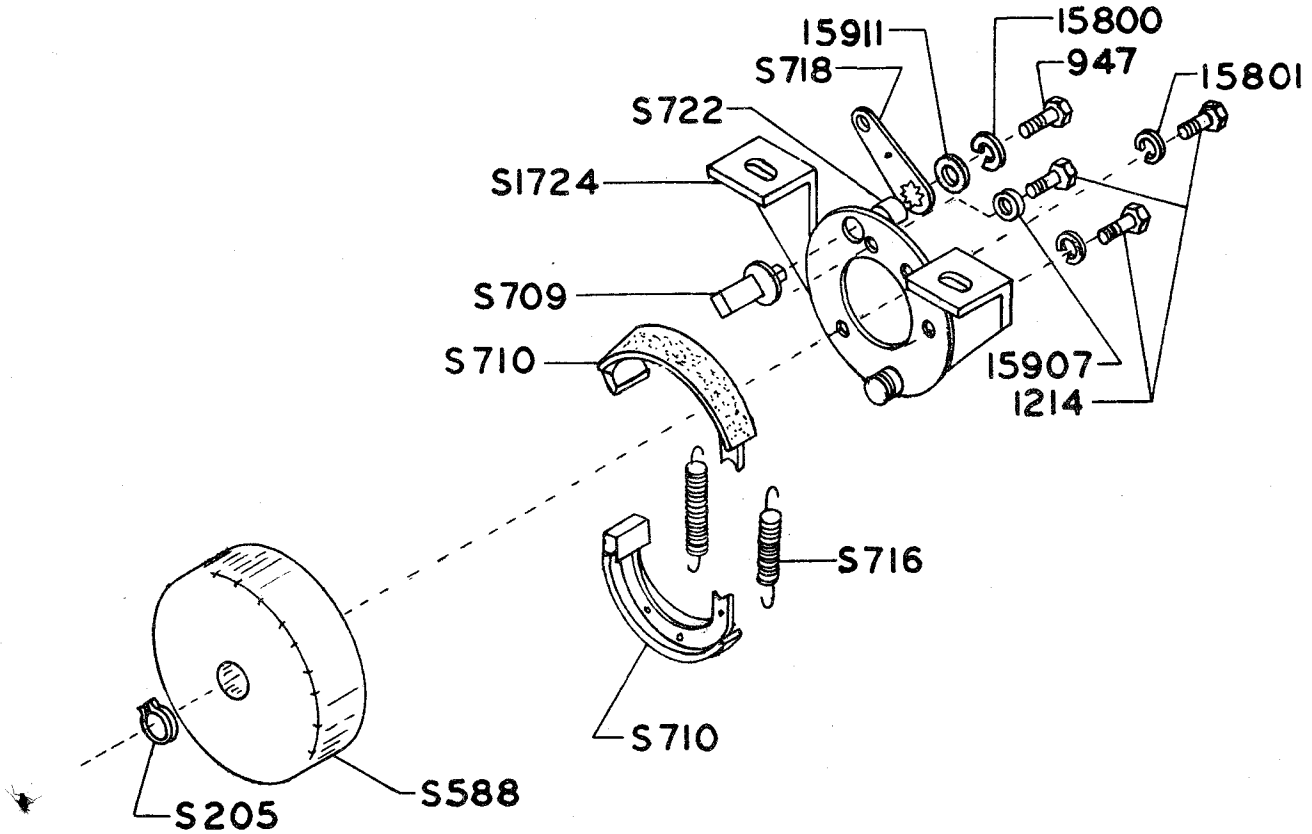


PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S655	SPRING	1	15023	BOLT 1/2 -13UNC x 1 1/2	1
S767	CLEVIS	1	15527	LOCKNUT 3/8-16UNC	1
S774	PIVOT BRACKET	1	15528	NUT 5/16-18UNC	2
S776	BRAKE ROD SHORT	1	15581	NUT 1/2-13 UNC	2
S777	BRAKE ROD LONG	1	15806	LOCKWASHER 1/2	1
S 1369	ROD	1	15808	LOCKWASHER 5/16	2
SI1515-1	BRACKET (BRAKE PEDAL)	1	15908	FLAT WASHER 5/8	2
SI1515-2	BRACKET (CLUTCH PEDAL)	1	19102	CAPSCREW 5/16-UNC x 1	2
SI796	BRAKE PEDAL	1	19106	CAPSCREW 3/8-UNC x 1 1/2	1
SI797	CLUTCH PEDAL	1	19409	PRESTO PIN	6



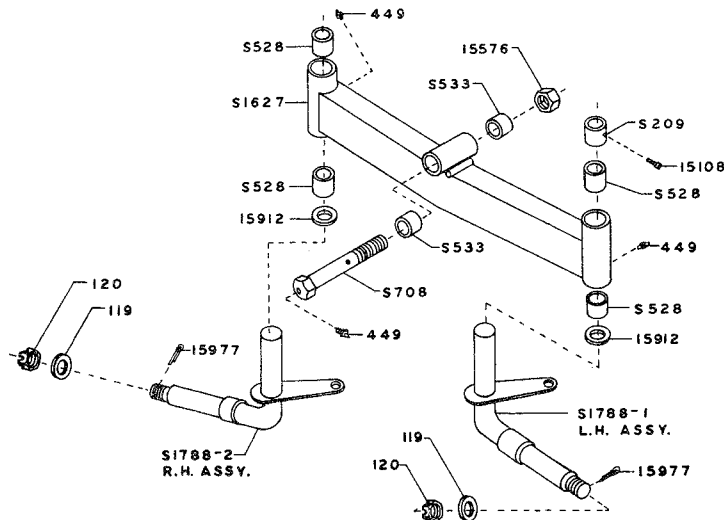
BRAKE ASSEMBLY

PART No.	DESCRIPTION	QTY.
S205	RETAINING RING	1
S588	BRAKE DRUM	1
S709	BRAKE CAM	1
S710	BRAKE SHOE	2
S716	BRAKE SPRING	2
S718	BRAKE LEVER	1
S722	SPACER WASHER	1
S1724	MOUNTING PLATE	1
947	BOLT 1/4-20 UNC X 3/4	1
1214	CAPSCREW 5/16-18 UNC X 3/4	3
15800	LOCKWASHER 1/4 MED.	1
15801	LOCKWASHER 5/16 MED.	2
15907	FLATWASHER 5/16	1
15911	FLATWASHER 1/4	1



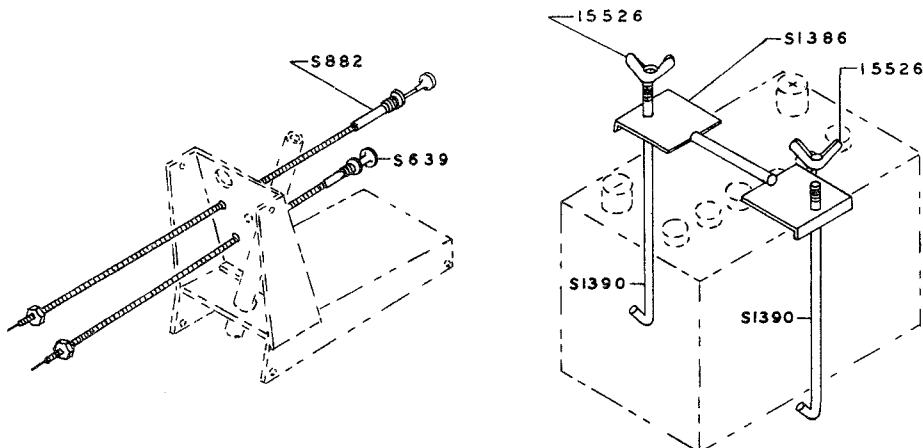
FRONT AXLE ASSEMBLY

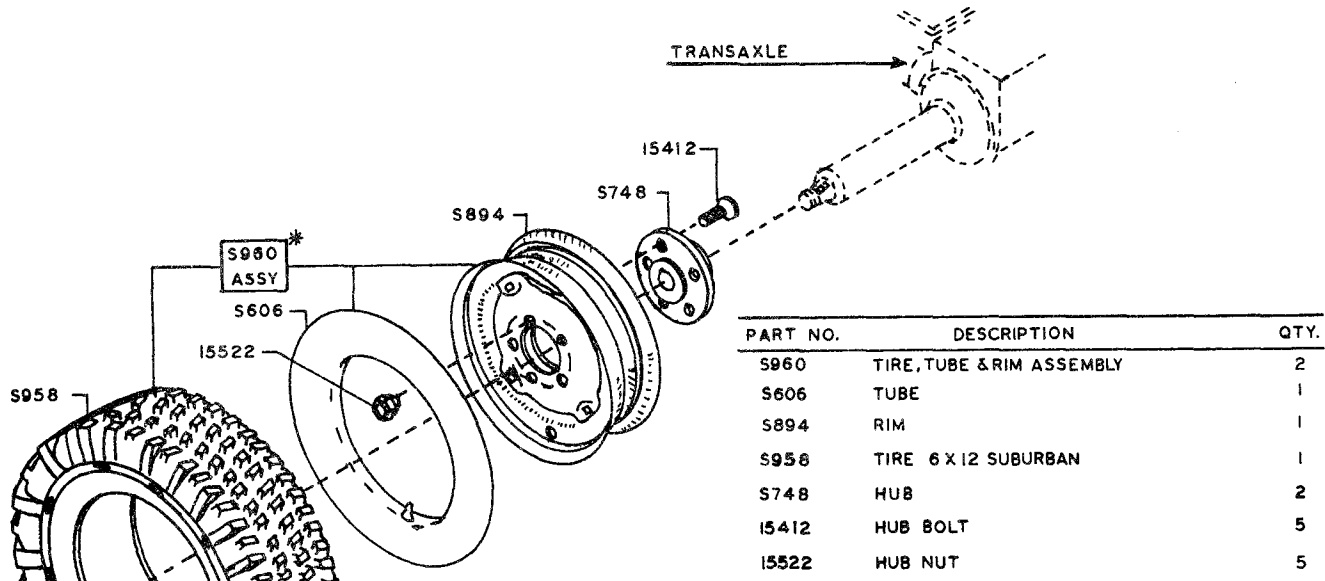
PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S209	SET COLLAR	1	I20	NUT, CASTELLATED	2
S528	BUSHING	4	449	GREASE FITTING	1
S533	BUSHING	2	I5108	SETSCREW	1
S708	BOLT 5/8 -18 UNF	1	I5576	LOCKNUT 5/8-18 UNF	1
SI788-1	SPINDLE L.H.	1	I5912	BUSHING	2
SI788-2	SPINDLE R.H.	1	I5977	COTTER PIN 5/32 x 1 1/2	2
119	FLATWASHER 3/4	2			



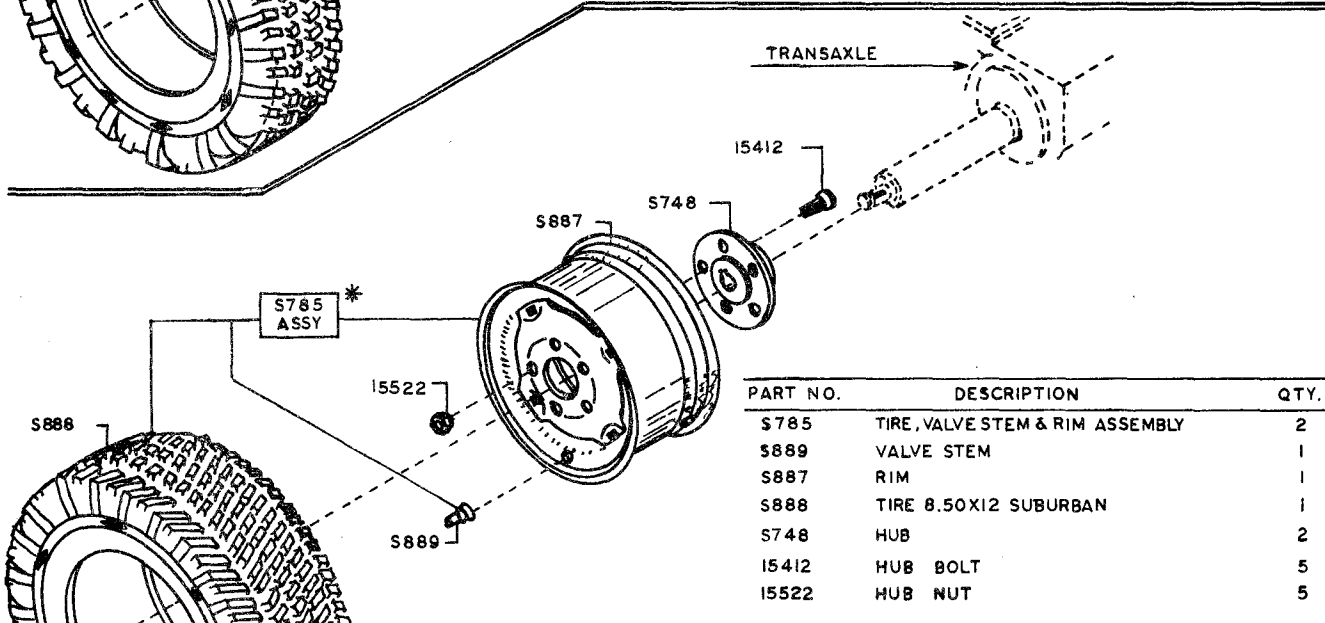
BATTERY CLAMP AND CONTROL CABLES

PART No.	DESCRIPTION	QTY.
S639	THROTTLE CONTROL	1
S882	CHOKE CONTROL	1
SI386	BATTERY CLAMP	1
SI390	HOLD DOWN ROD	2
I5526	WING NUT	2
I5807	LOCKWASHER	2

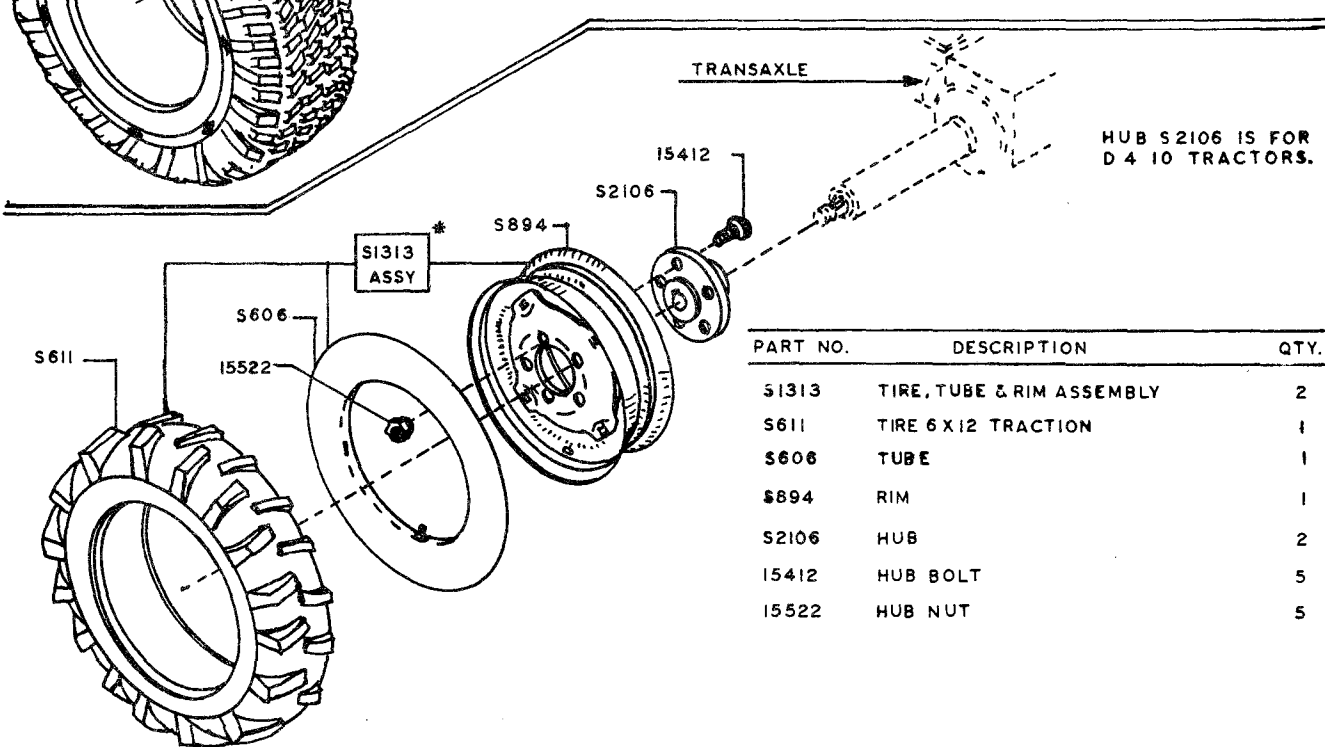




PART NO.	DESCRIPTION	QTY.
S960	TIRE, TUBE & RIM ASSEMBLY	2
S606	TUBE	1
S894	RIM	1
S958	TIRE 6 X 12 SUBURBAN	1
S748	HUB	2
15412	HUB BOLT	5
15522	HUB NUT	5



PART NO.	DESCRIPTION	QTY.
S785	TIRE, VALVE STEM & RIM ASSEMBLY	2
S889	VALVE STEM	1
S887	RIM	1
S888	TIRE 8.5X12 SUBURBAN	1
S748	HUB	2
15412	HUB BOLT	5
15522	HUB NUT	5

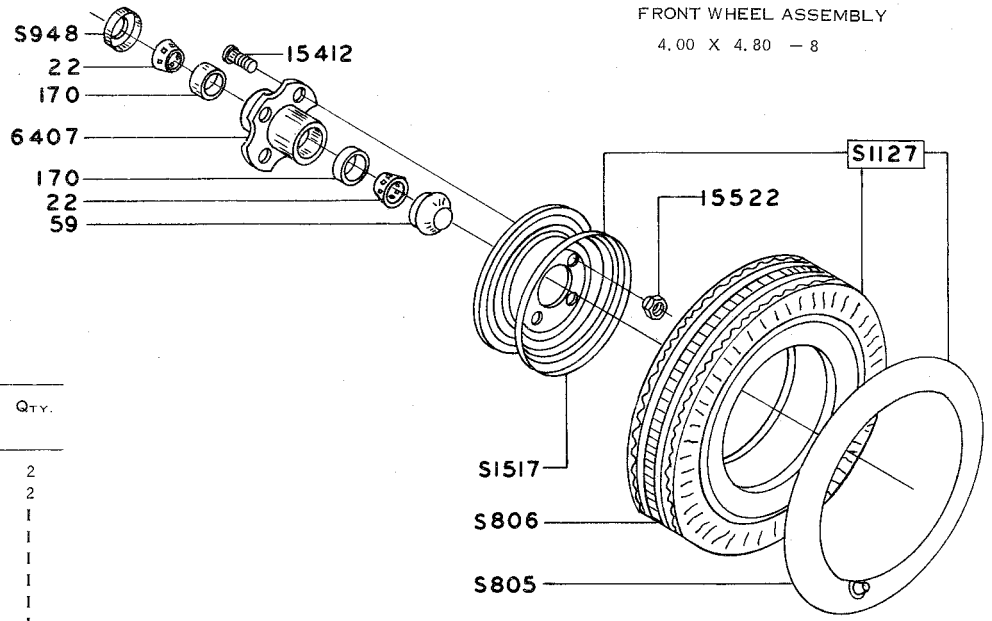


PART NO.	DESCRIPTION	QTY.
S1313	TIRE, TUBE & RIM ASSEMBLY	2
S611	TIRE 6 X 12 TRACTION	1
S606	TUBE	1
S894	RIM	1
S2106	HUB	2
15412	HUB BOLT	5
15522	HUB NUT	5

HUB S2106 IS FOR D 4 10 TRACTORS.

* ALL DIRECT DRIVE TRACTORS ARE EQUIPPED WITH TIRE SELECTIONS ON PAGE 70-11.

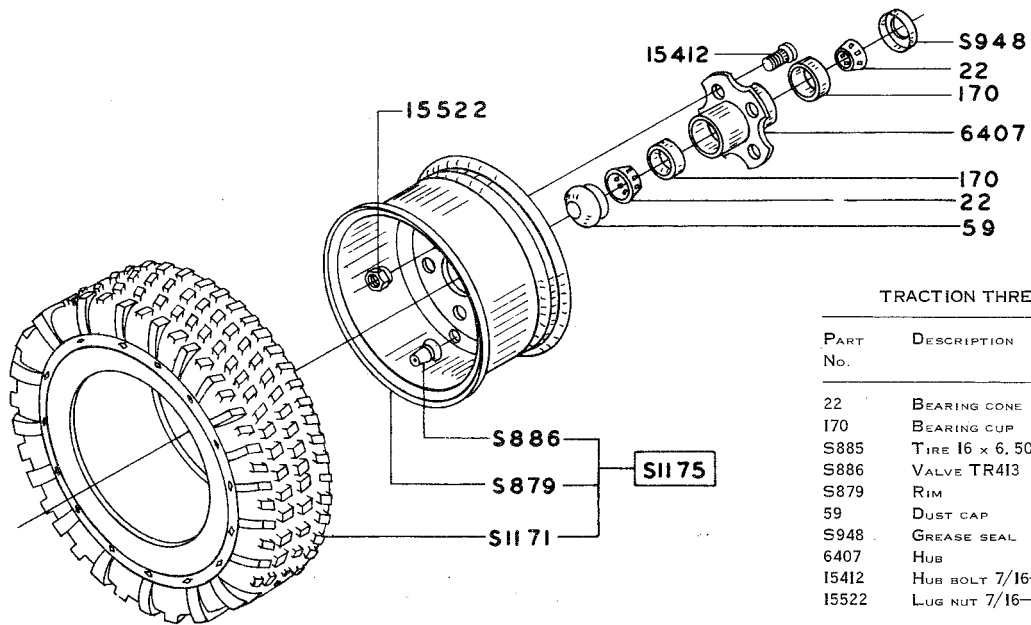
FRONT WHEEL ASSEMBLY
4.00 X 4.80 - 8



ALL PURPOSE TIRE 4.00 X 4.80 - 8

PART No.	DESCRIPTION	QTY.
22	BEARING CONE	2
170	BEARING CUP	2
S805	INNER TUBE	1
S806	TIRE 4.00 X 4.80-8 RIB BUTTRESS	1
59	DUST CAP	1
S948	GREASE SEAL	1
S1517	RIM	1
6407	HUB	1
15412	HUB BOLT 7/16-20 UNF x 1 1/4	4
I5522	LUG NUT 7/16-20 UNF	4

FRONT WHEEL ASSEMBLY
16 X 6.50 - 8

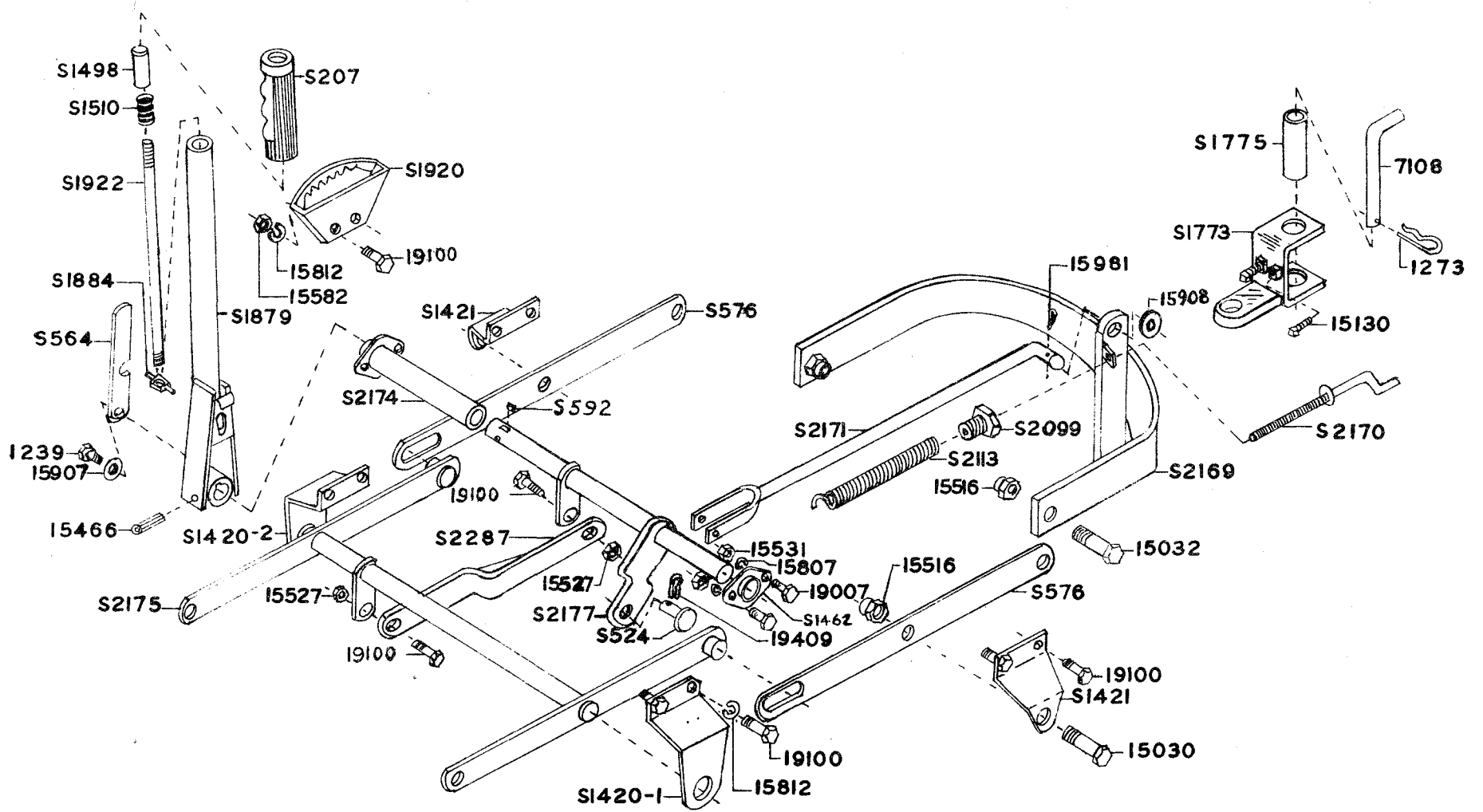


TRACTION THREAD TIRE 16 x 6.50 - 8

PART No.	DESCRIPTION	QTY.
22	BEARING CONE	2
170	BEARING CUP	2
S885	TIRE 16 x 6.50 - 8 TRACTION	1
S886	VALVE TR413	1
S879	RIM	1
59	DUST CAP	1
S948	GREASE SEAL	1
6407	HUB	1
15412	HUB BOLT 7/16-20 UNF x 1 1/4	4
I5522	LUG NUT 7/16-20 UNF	4

LIFT ASSEMBLY

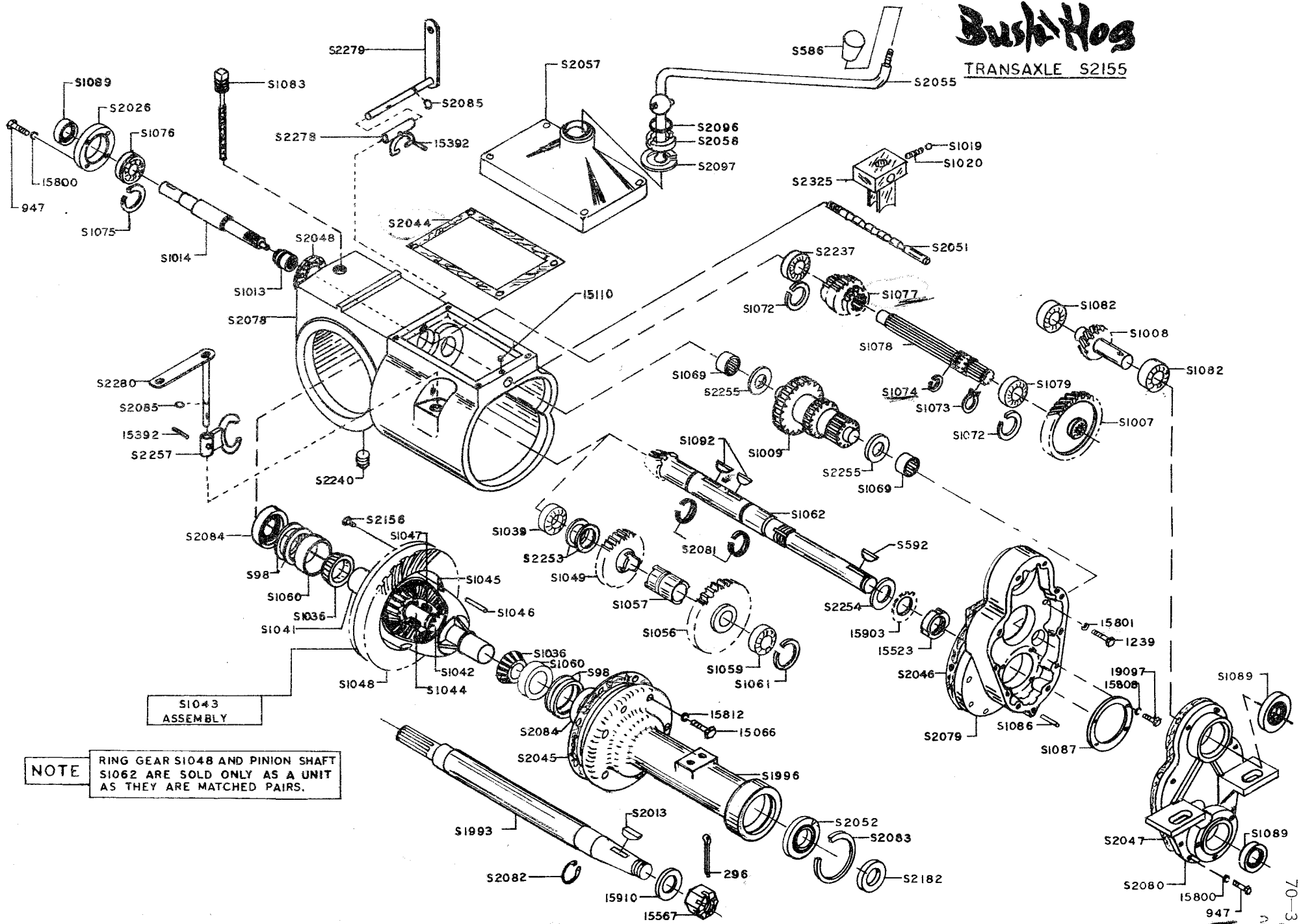
PART No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S207	HAND GRIP	1	I239	CAPSCREW 5/16 x 18 UNC x 1	1
S524	RIVET	1	I273	PRESTO PIN	1
S564	LOCK, LIFT	1	7108	HITCH PIN	1
S576	LIFT BAR	2	I5030	CAPSCREW 5/8 x 18 UNF x 1 1/2	2
S592	KEY, WOODRUFF 3/16 x 3/4	1	I5032	CAPSCREW 5/8 x 18 UNF x 2	2
SI420-1	BRACKET, FRONT LIFT L.H.	1	I9100	CAPSCREW 3/8 x 16 UNC x 3/4	11
SI420-2	BRACKET, FRONT LIFT R.H.	1	I5466	ROLL PIN	1
SI421	BRACKET, REAR LIFT	2	I5516	LOCK NUT 5/8 - 18 UNF	4
SI462	BEARING	1	I5527	LOCK NUT 3/8 x 16 UNC	2
SI498	THUMB BUTTON	1	I5531	HEX NUT 1/4 - 20 UNC	4
SI510	SPRING	1	I5130	SETSCREW 1/2 - 13 UNC x 1 1/4	2
SI773	CLEVIS	1	I5582	HEX NUT 3/8 - 16 UNC	9
SI775	HITCH TUBE	1	I5807	LOCKWASHER 1/4	4
SI879	LIFT LEVER	1	I5812	LOCKWASHER 3/8	9
SI884	ROD LOCK	1	I5907	FLATWASHER 5/16	1
SI920	QUADRANT	1	I5908	FLATWASHER 5/8	1
S2099	SPRING COUPLER	1	I5981	COTTER PIN	1
S2113	LIFT SPRING	1	I9007	CAPSCREW 1/4 x 20 UNC x 3/4	4
S2169	DRAWBAR	1	I9409	PRESTO PIN	1
S2170	CRANK ROD	1			
S2171	LIFT ROD	1			
S2174	BEARING	1			
S2175	FRONT LIFT	1			
S2177	LEVER SHAFT	1			
S2287	LIFT STRAP	1			



PART No.	DESCRIPTION	PART No.	DESCRIPTION
S98	SHIM, PINION ADJUSTING	S2046	GASKET, MAIN HOUSING
S586	KNOB, CONTROL	S2047	GASKET, COVER
S592	KEY, WOODRUFF	S2048	GASKET, P T O COVER
SI007	GEAR	S2051	SHAFT, DETENT
SI008	GEAR	S2052	BEARING, BALL
SI009	GEAR, CLUSTER	S2055	LEVER ASSEMBLY
SI013	COLLAR, SHIFT	S2057	HOUSING, SHIFT
SI014	SHAFT, P T O	S2058	RETAINER, SHIFT
SI019	BALL, DETENT	S2078	HOUSING, MAIN
SI020	SPRING	S2079	HOUSING, AUX.
SI036	CONE, ROLLER BEARING	S2080	COVER, AUX. HOUSING
SI039	BEARING, BALL	S2081	RING, SNAP
SI041	HOUSING, DIFFERENTIAL	S2082	RING, RETAINING
SI042	PIN GEAR	S2083	RING, RETAINING
SI043	DIFFERENTIAL ASSEMBLY	S2084	SEAL, OIL
SI044	SHAFT, DIFFERENTIAL RETAINER	S2085	RING, "O"
SI045	SHAFT, DIFFERENTIAL CROSS	S2096	RING, QUAD
SI046	PIN, RETAINER	S2097	RING, SNAP
SI047	GEAR, SIDE	S2156	BOLT, RING GEAR
SI048	GEAR, RING (31 Toot)	S2182	SEAL, AXLE
SI049	GEAR	S2237	BEARING, BALL
SI056	GEAR	S2240	PLUG, MAGNETIC PIPE
SI057	COLLAR, PINION SHAFT CLUTCH	S2253	SPACER WASHER
SI059	BEARING, BALL	S2254	SPACER
SI060	CUP	S2255	BUSHING
SI061	RING, SNAP	S2257	SHIFTER, HIGH-LOW
SI062	PINION, BEVEL	S2278	FORK, P T O SHIFT
SI069	BEARING, ROLLER	S2279	ARM, P T O SHAFT
SI072	RING, SNAP	S2280	ARM, HIGH-LOW
SI073	RING, SNAP	S2325	BLOCK, SHIFT
SI074	RING, SNAP	296	COTTER PIN
SI075	RING, SNAP	947 3ea	CAPSCREW
SI076	BEARING, BALL	I239	CAPSCREW
SI077	GEAR	I5066	CAPSCREW
SI078	SHAFT	I5110	SETSCREW
SI079	BEARING, BALL	I5392	PIN, ROLL
SI082	BEARING, BALL	I5523	NUT, PINION SHAFT BEARING
SI083	DIP STICK	I5567	NUT, SLOTTED
SI086	DOWELL PIN	I5800	LOCKWASHER
SI087	RETAINER, PINION SHAFT	I5801	LOCKWASHER
SI089	SEAL, OIL	I5808	LOCKWASHER
SI092	KEY, PINION SHAFT	I5812	LOCKWASHER
SI993	SHAFT, AXLE	I5903	LOCKWASHER
SI996	HOUSING, AXLE	I5910	FLATWASHER
S2013	KEY, WOODRUFF	I9097	CAPSCREW
S2026	PLATE, P T O COVER		
S2044	GASKET, SHIFTER		
S2045	GASKET, AXLE HOUSING		

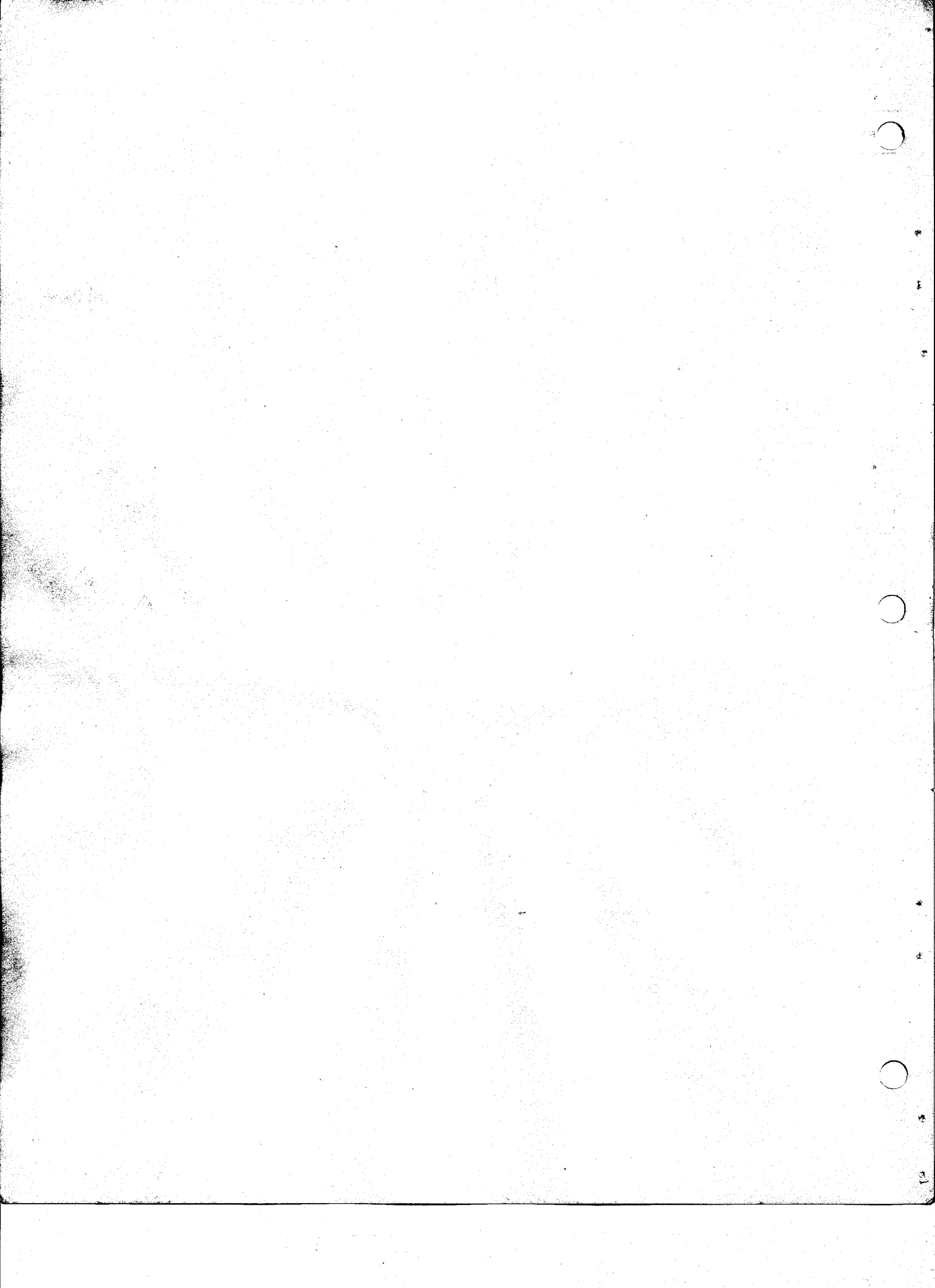
Bush Hog

TRANSAXLE S2155



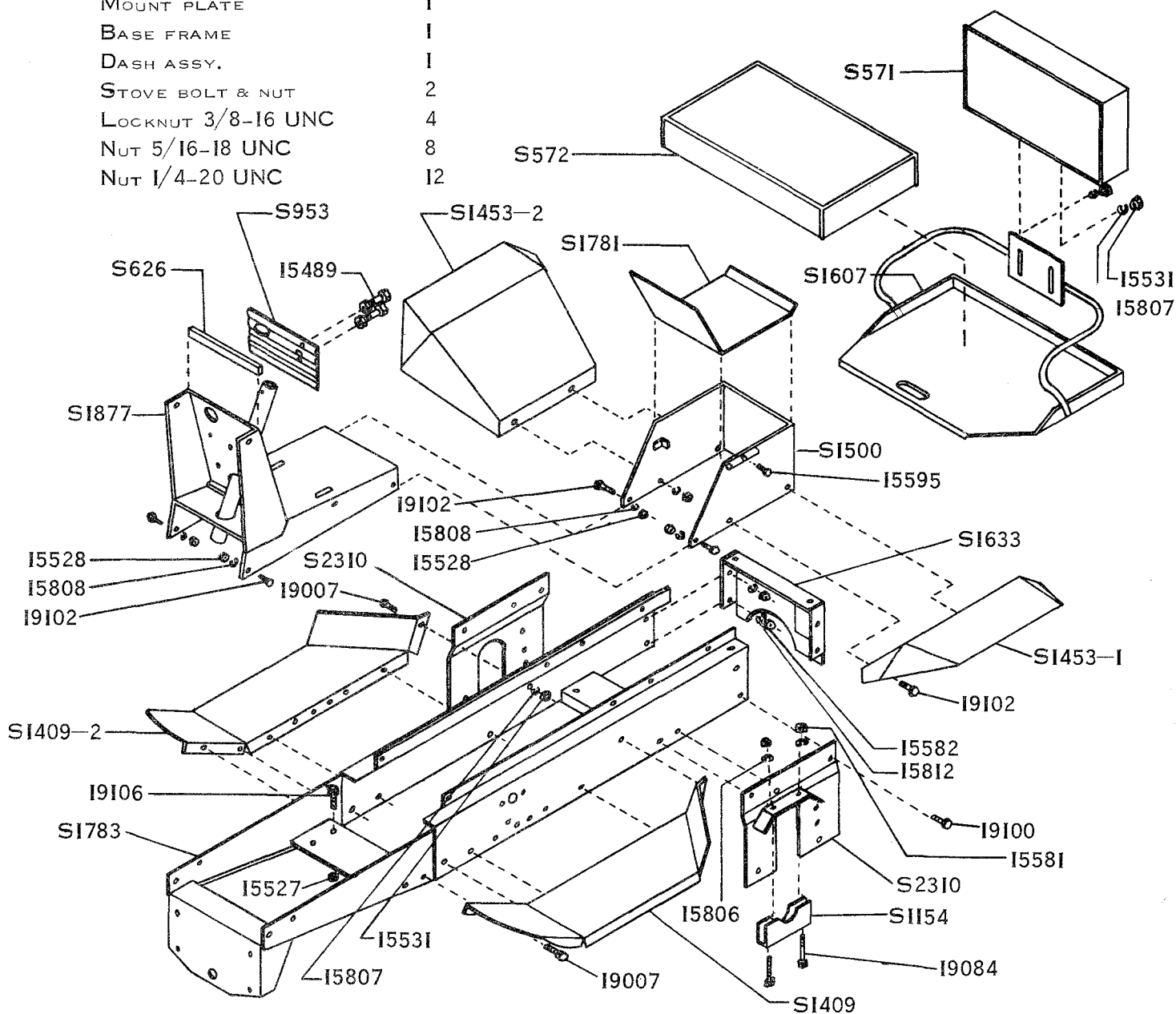
NOTE RING GEAR S1048 AND PINION SHAFT S1062 ARE SOLD ONLY AS A UNIT AS THEY ARE MATCHED PAIRS.

S1043
ASSEMBLY



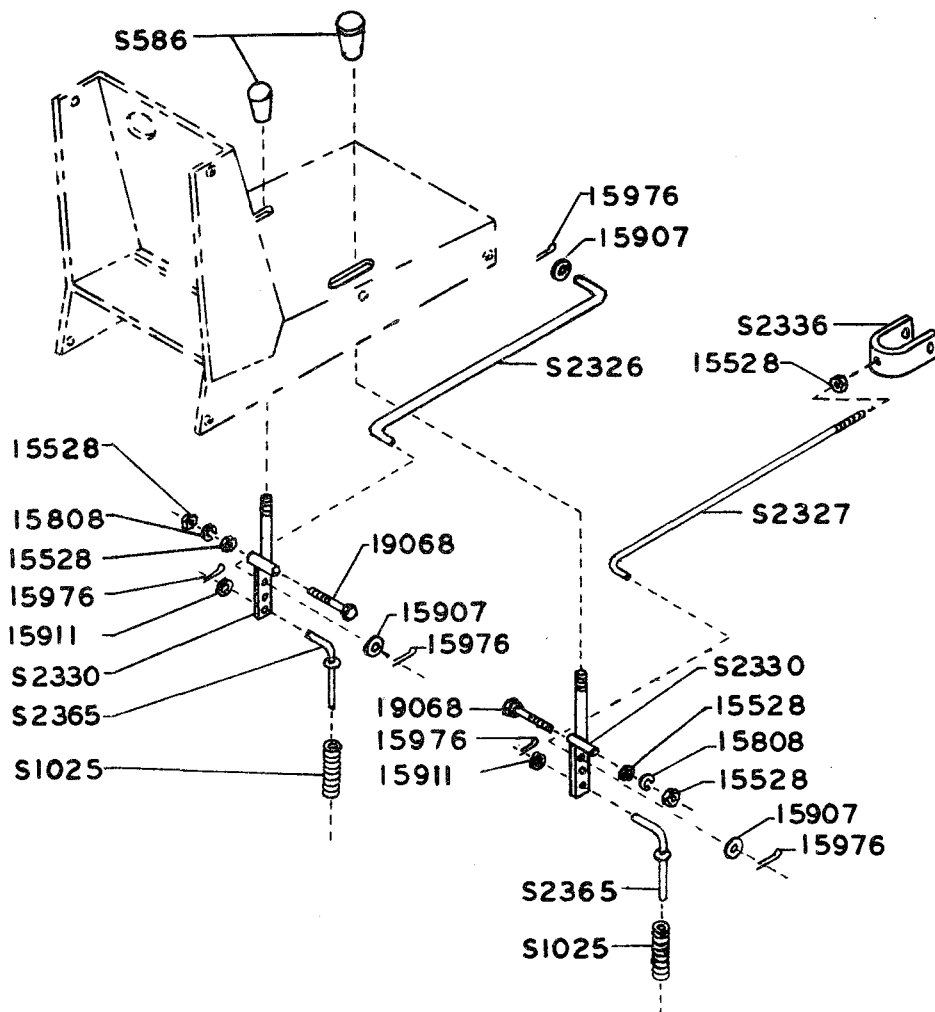
SEAT, FRAME, FENDER, AND DASH ASSEMBLY

RT No.	DESCRIPTION	QTY.	PART No.	DESCRIPTION	QTY.
S571	CUSHION - BACK	1	I5581	NUT 1/2-13 UNC	2
S572	CUSHION - LOWER	1	I5582	NUT 3/8-16 UNC	10
S626	RUBBER TRIM	1	I5595	THUMBSCREW 5/16 UNC x 3/4	2
S953	DASH RIM	1	I5806	LOCKWASHER 1/2	2
SI154	CLAMP	2	I5807	LOCKWASHER 1/4	12
SI409-1	FOOT REST L. H.	1	I5808	LOCKWASHER 5/16	8
SI409-2	FOOT REST R. H.	1	I5812	LOCKWASHER 3/8	10
SI453-1	FENDER L. H.	1	I9007	CAPSCREW 1/4 UNC x 3/4	10
SI453-2	FENDER R. H.	1	I9084	CAPSCREW 1/2-13 UNC x 4 1/2	2
SI500	BATTERY BOX	1	I9100	CAPSCREW 3/8 UNC x 3/4	10
SI607	SEAT	1	I9102	CAPSCREW 5/16 UNC x 1	8
SI633	END, FRAME	1	I9106	CAPSCREW 3/8 UNC x 1 3/4	4
S2310	MOUNT PLATE	1			
SI783	BASE FRAME	1			
SI877	DASH ASSY.	1			
I5489	STOVE BOLT & NUT	2			
I5527	LOCKNUT 3/8-16 UNC	4			
I5528	NUT 5/16-18 UNC	8			
I5531	NUT 1/4-20 UNC	12			



CONTROLS ASSEMBLY D4 - 10

PART No.	DESCRIPTION	QTY.
S586	CONTROL KNOB	2
SI025	SPRING	2
S2326	HIGH AND LOW ROD	1
S2327	POWER TAKE-OFF LINKAGE	1
S2330	LEVER WELDED ASSEMBLY	2
S2336	CLEVIS	1
S2365	LIFT SPRING ASSEMBLY	2
I5528	NUT 5/16 - 18 UNC	5
I5808	LOCKWASHER 5/16 MED.	2
I5907	FLATWASHER 5/16	3
I5911	FLATWASHER	2
I5976	COTTER PIN 3/32 x 1	5
I9068	CAPSCREW 5/16 - UNC 2 1/2	2

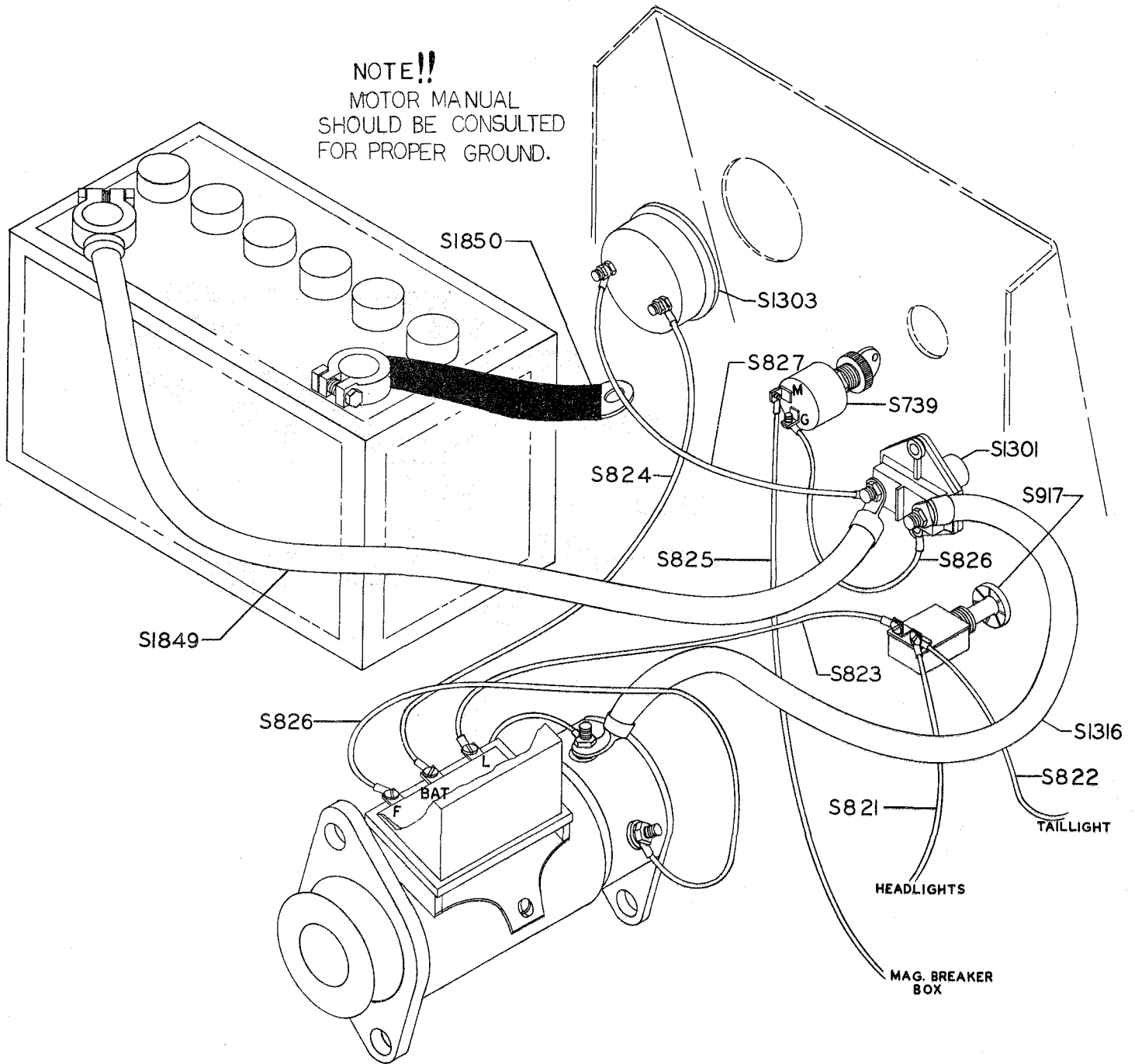


PART NO.	DESCRIPTION
S739	IGNITION SWITCH
S821	HEAD LIGHT WIRE
S822	TAIL LIGHT WIRE
S823	LIGHT SWITCH WIRE
S824	AMMETER WIRE
S825	MAGNETO SWITCH WIRE
S826	MAGNETO GROUND WIRE
S827	AMMETER STARTER WIRE
S917	LIGHT SWITCH
SI301	STARTER SWITCH
SI303	AMMETER
SI316	STARTER CABLE
SI849	BATTERY CABLE
SI850	STARTER CABLE

WIRING DIAGRAM
FOR D-4-7 & D-4-10

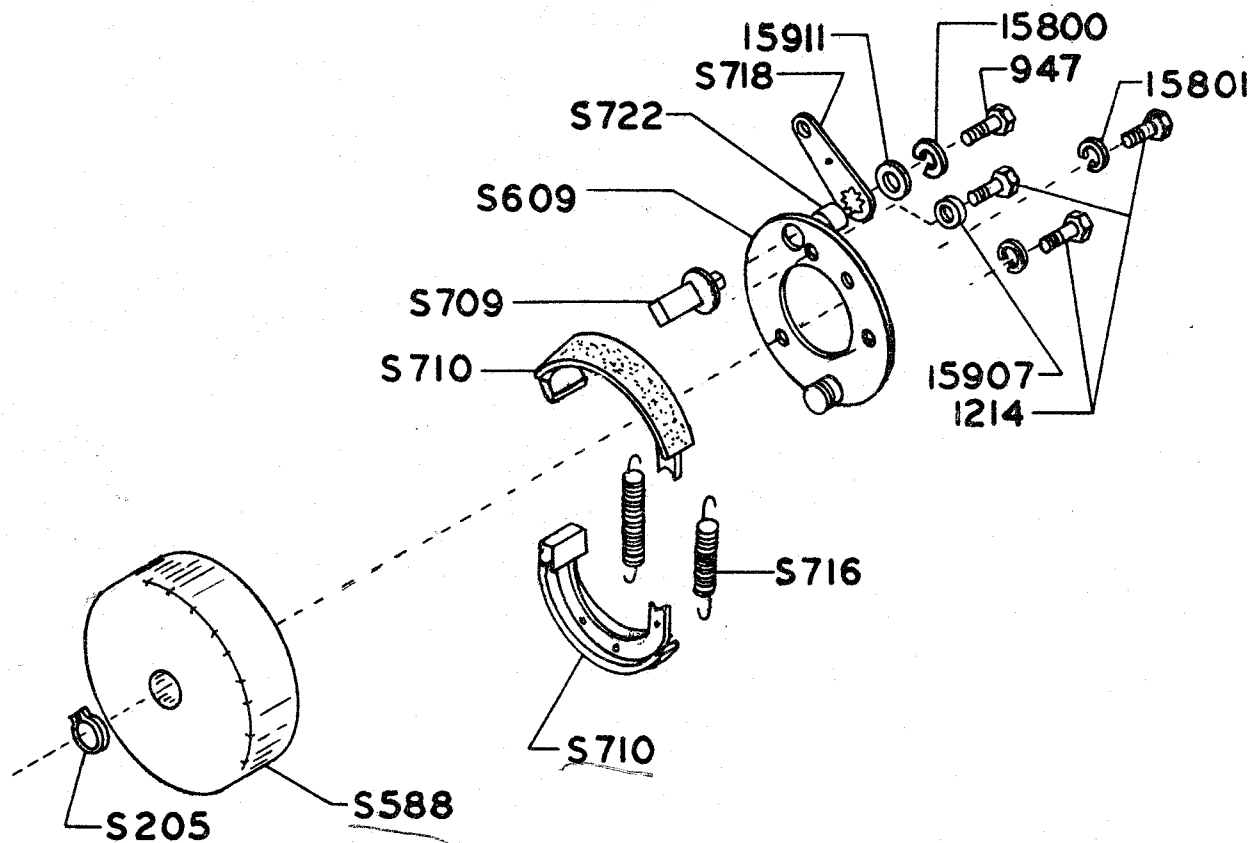
Bush Hog

NOTE!!
MOTOR MANUAL
SHOULD BE CONSULTED
FOR PROPER GROUND.



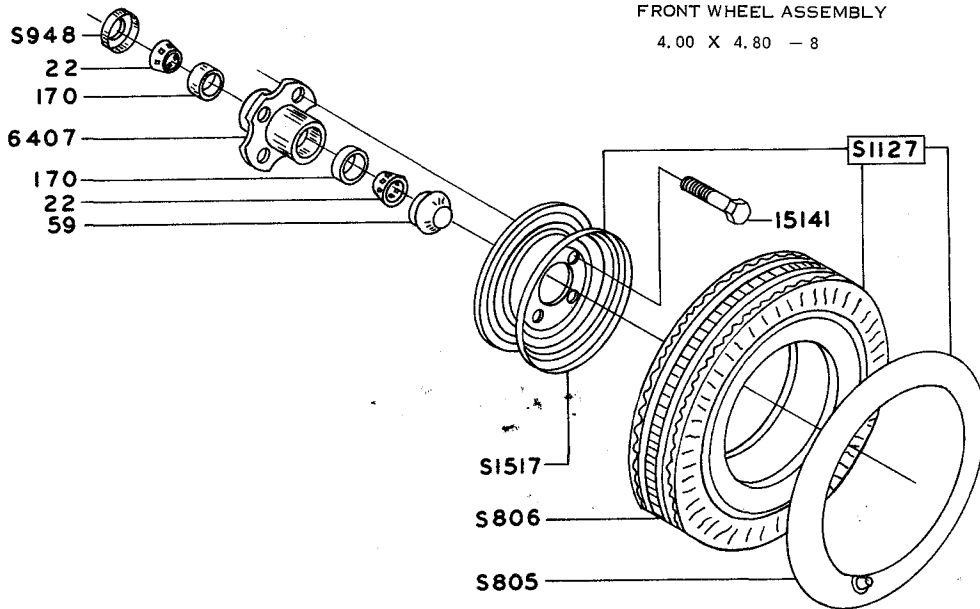
BRAKE ASSEMBLY

PART No.	DESCRIPTION	QTY.
S205	RETAINING RING	1
S588	BRAKE DRUM	1
S709	BRAKE CAM	1
S710	BRAKE SHOE	2
S716	BRAKE SPRING	2
S718	BRAKE LEVER	1
S722	SPACER WASHER	1
S609	MOUNTING PLATE	1
947	BOLT 1/4 - 20 UNC x 3/4	1
I214	CAPSCREW 5/16 - 18 UNC x 3/4	3
I5800	LOCKWASHER 1/4 MED.	1
I5801	LOCKWASHER 5/16 MED	2
I5907	FLATWASHER 5/16	1
I5911	FLATWASHER 1/4	1



FRONT WHEEL ASSEMBLY

4.00 X 4.80 - 8

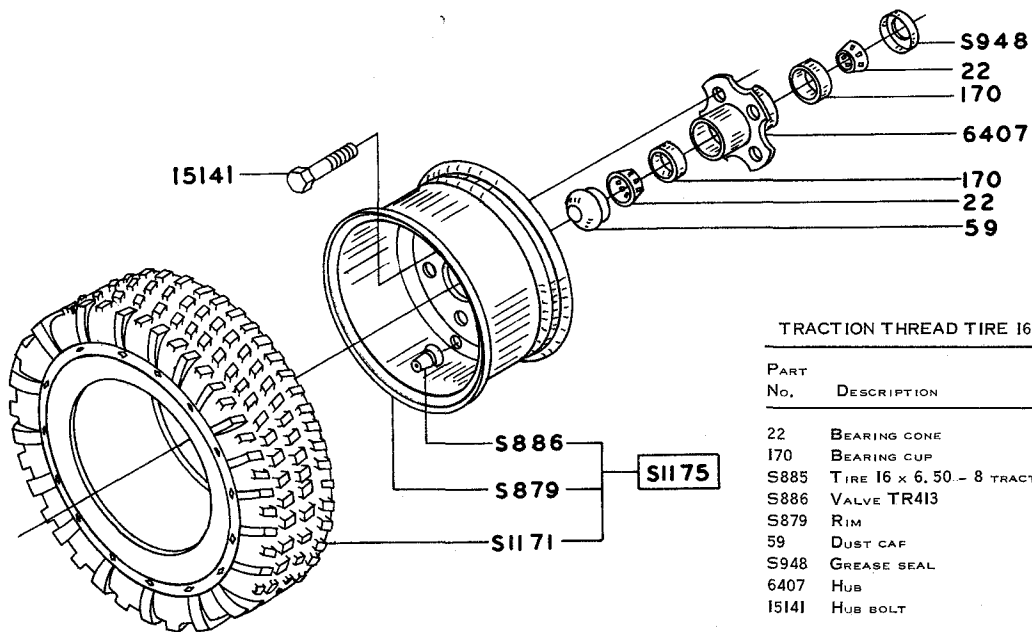


ALL PURPOSE TIRE 4.00 X 4.80 - 8

PART No.	DESCRIPTION	QTY.
22	BEARING CONE	2
170	BEARING CUP	2
S805	INNER TUBE	1
S806	TIRE 4.00x4.80-8 RUB BUTTRESS	1
59	DUST CAP	1
S948	GREASE SEAL	1
S1517	RIM	1
6407	HUB	1
15141	HUB BOLT	4

FRONT WHEEL ASSEMBLY

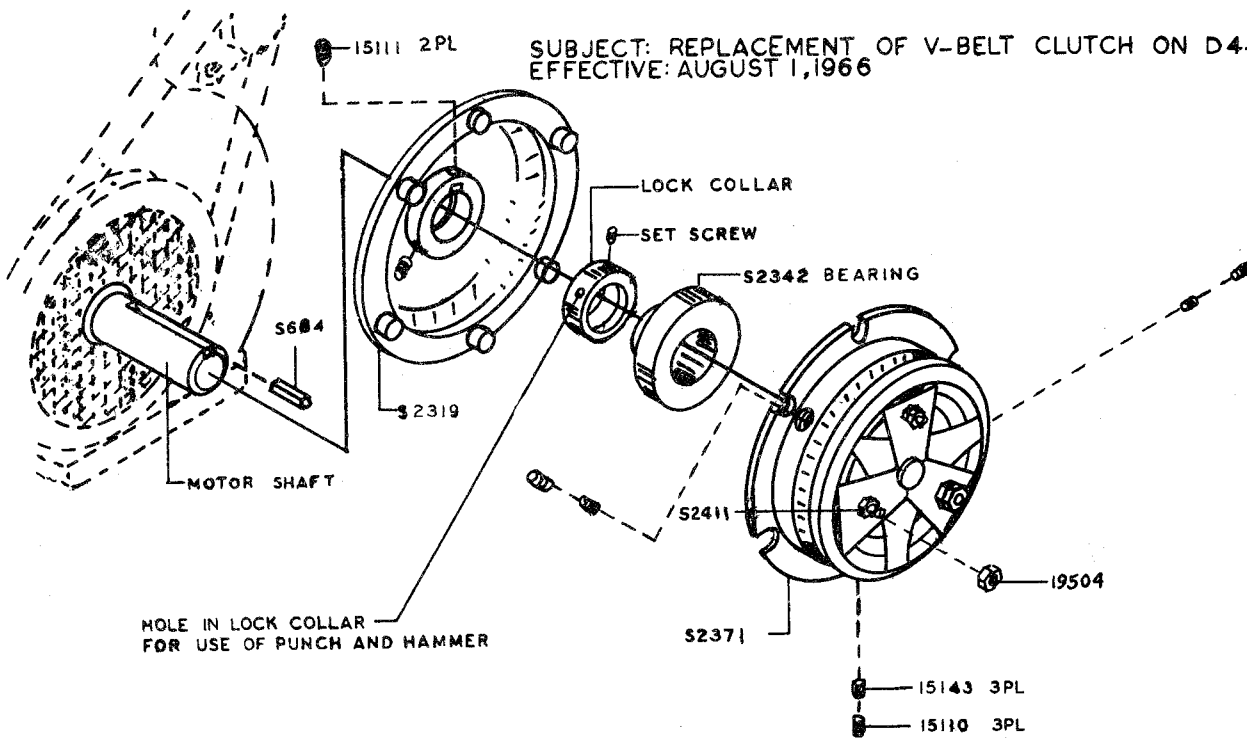
16 X 6.50 - 8



TRACTION THREAD TIRE 16 x 6.50 - 8

PART No.	DESCRIPTION	QTY.
22	BEARING CONE	2
170	BEARING CUP	2
S885	TIRE 16 x 6.50 - 8 TRACTION	1
S886	VALVE TR413	1
S879	RIM	1
59	DUST CAP	1
S948	GREASE SEAL	1
6407	HUB	1
15141	HUB BOLT	4

SUBJECT: REPLACEMENT OF V-BELT CLUTCH ON D4-10 TRACTOR
EFFECTIVE: AUGUST 1, 1966



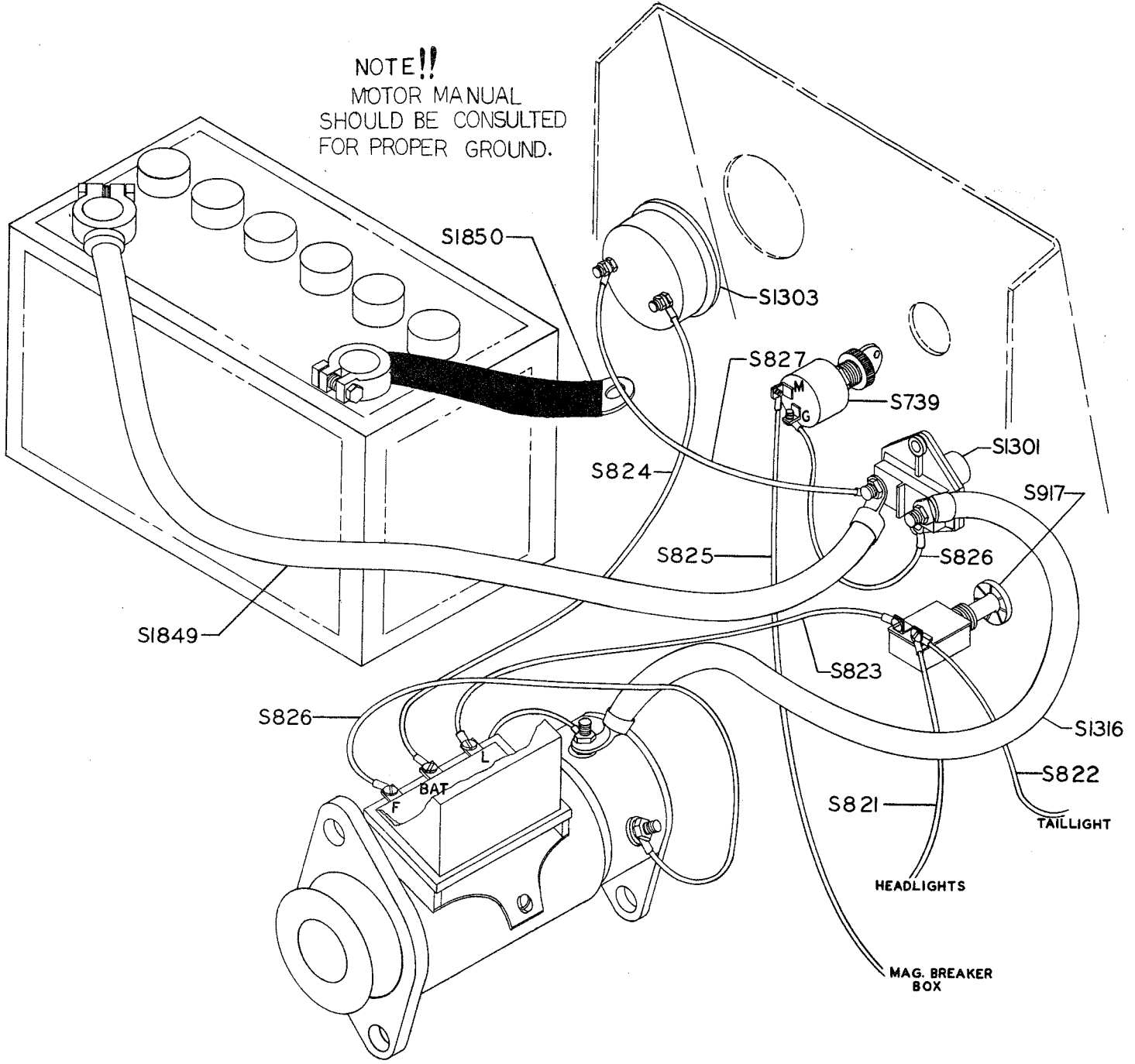
1. REMOVE OLD CLUTCH REVERSING STEPS 9, 8, 7, ETC. AS FAR AS NECESSARY.
2. INSTALL S684 KEY IN MOTOR SHAFT.
3. PLACE S2319 DRIVE PAN ON SHAFT, (WITH PINS POINTING FORWARD) $1-5/8$ ' FROM END OF SHAFT TO KEYED HUB AND TIGHTEN TWO 15111 SET SCREWS.
4. SLIDE BEARING LOCK COLLAR ON SHAFT FOR BEARING S2342.
5. INSTALL S2342 BEARING ON SHAFT WITH BEARING FLUSH WITH END OF SHAFT.
6. LOCK COLLAR TO SHAFT AND BEARING BY USE OF HAMMER AND PUNCH, SECURE WITH SET SCREW.
7. INSTALL S2371 CLUTCH ASSEMBLY ON BEARING, S2342.
8. INSTALL THREE 15143 SET SCREWS IN CLUTCH PULLEY AND TIGHTEN.
9. INSTALL THREE SHORT 15110 SET SCREWS TO LOCK TAPERED SET SCREWS.
10. CLUTCH HAS BEEN ADJUSTED AT FACTORY. SHOULD CLUTCH SLIP AFTER EXTENSIVE USE, REMOVE THREE 19504 LOCKNUTS IN FRONT OF CLUTCH PULLEY, AND TURN CLUTCH ADJUSTMENT S2411 NUTS TO RIGHT $1/2$ TO 1 TURN EACH. REPLACE THREE 19504 HEX NUTS WITHOUT MOVING S2411 CLUTCH NUT.

PART NO.	DESCRIPTION
S739	IGNITION SWITCH
S821	HEAD LIGHT WIRE
S822	TAIL LIGHT WIRE
S823	LIGHT SWITCH WIRE
S824	AMMETER WIRE
S825	MAGNETO SWITCH WIRE
S826	MAGNETO GROUND WIRE
S827	AMMETER STARTER WIRE
S917	LIGHT SWITCH
SI301	STARTER SWITCH
SI303	AMMETER
SI316	STARTER CABLE
SI849	BATTERY CABLE
SI850	STARTER CABLE

WIRING DIAGRAM
FOR D-4-7 & D-4-10

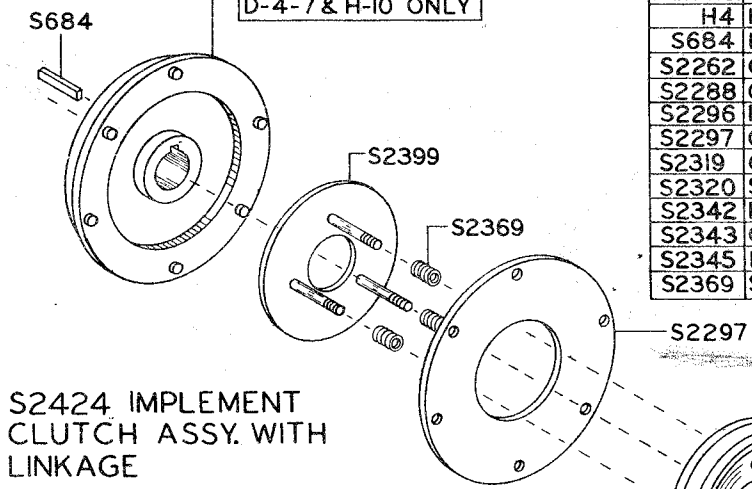
Bush Hog

NOTE!!
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FOR PROPER GROUND.

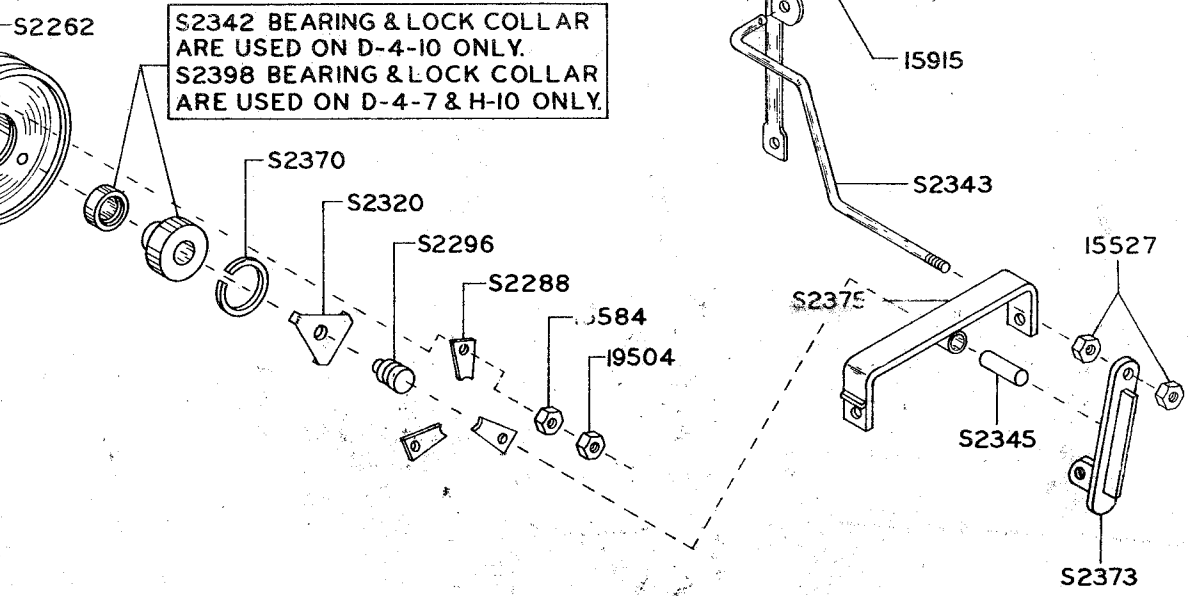


S2319 IS USED ON D-4-10 ONLY.
S2400 IS USED ON D-4-7 & H-10 ONLY

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
H4	HAND GRIP	1	S2370	RETAINER RING	1
S684	KEY	1	S2373	CONTROL STRAP	1
S2262	CLUTCH PULLEY	1	S2374	LEVER WELD.	1
S2288	CLUTCH FINGER	3	S2375	STABILIZER STRAP	1
S2296	PRESSURE BUTTON	1	S2398	BEARING & COLLAR	1
S2297	CLUTCH DISC	1	S2399	MOUNT PLATE	1
S2319	CLUTCH HUB WELD.	1	S2400	CLUTCH HUB WELD.	1
S2320	SPRING	1	I5527	HEX NUT 3/8-16UNC	2
S2342	BEARING & COLLAR	1	I5584	HEX NUT 1/4-20UNC	3
S2343	CONTROL ROD	1	I5915	FLATWASHER 3/8	1
S2345	PLUNGER	1	I5979	COTTER PIN 1/8 X 3/4	1
S2369	SPRING	3	I9504	LOCKNUT 1/4-20UNC	3



S2342 BEARING & LOCK COLLAR ARE USED ON D-4-10 ONLY.
S2398 BEARING & LOCK COLLAR ARE USED ON D-4-7 & H-10 ONLY.



SUBJECT: INSTRUCTIONS FOR REPLACING S2424 CLUTCH ON D4-10 TRACTORS

1. REMOVE OLD CLUTCH.
2. INSTALL S684 KEY IN MOTOR SHAFT.
3. PLACE S2319 CLUTCH HUB ON SHAFT, (WITH PINS POINTING FORWARD)
1-5/8 FROM END OF SHAFT TO KEYED HUB.
4. SLIDE BEARING LOCK COLLAR ON SHAFT FOR BEARING S2342.
5. INSTALL S2342 BEARING ON SHAFT WITH BEARING FLUSH WITH END OF SHAFT.
6. LOCK COLLAR TO SHAFT AND BEARING BY USE OF HAMMER AND PUNCH, SECURE WITH SET SCREW.
7. INSTALL S2371 CLUTCH ASSEMBLY ON BEARING, S2342.
8. INSTALL THREE TAPERED SET SCREWS IN CLUTCH PULLEY AND TIGHTEN.
9. INSTALL THREE SHORT 5110 SET SCREWS TO LOCK TAPERED SET SCREWS.
10. CLUTCH HAS BEEN ADJUSTED AT FACTORY. SHOULD CLUTCH SLIP AFTER EXTENSION USE, REMOVE THREE I9504 LOCK NUTS IN FRONT OF CLUTCH PULLEY, AND TURN CLUTCH ADJUSTMENT S2411 NUTS TO RIGHT 1/2 TO 1 TURN EACH.
- II. REINSTALL THREE I9504 LOCKNUTS WITHOUT MOVING S2411 CLUTCH NUT.

