
Bolens[®]

DIESEL TRACTORS

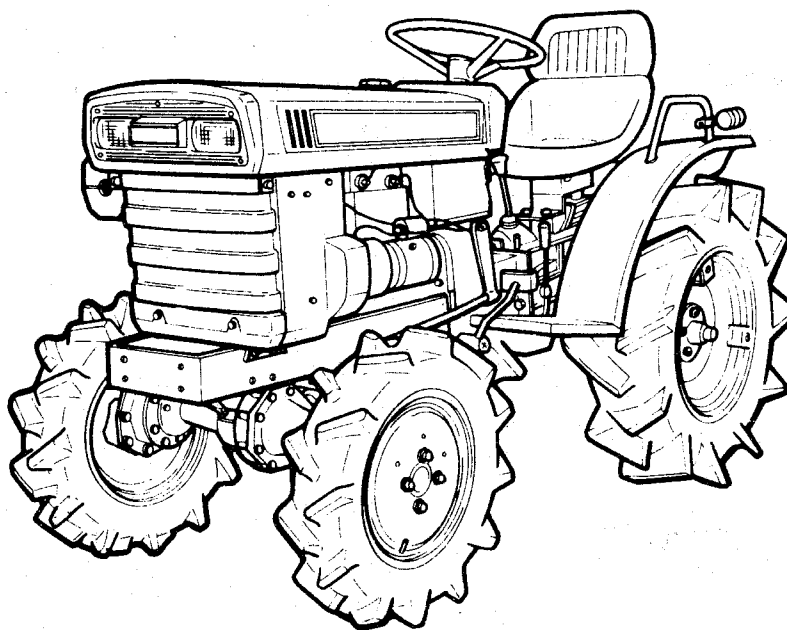
from ISEKI

Tractor

TX1502 (G152)

TX1504 (G154)

TX1704 (G174)



**Safety and
Operation
Instructions**

THE JUST-RIGHT TRACTOR for turf, commercial and agricultural chores

FORM 553214-4 (7/89)
Supersedes 553214-3

Thank you for purchasing this piece of Bolens equipment. We feel you now own one of the finest pieces of equipment available.

This is a safety, operation and general maintenance manual which does not attempt to cover major repairs. Bolens equipment is carefully designed, engineered, and manufactured to give good performance if properly operated and maintained. Review this manual to familiarize yourself with the unit, its features and its operation.

This equipment is a product of Bolens Corporation, 215 South Park Street, Port Washington, Wisconsin 53074, telephone 414-284-5521. If you should have any questions or encounter any problems, which you feel only the factory can solve, write to the above address or phone, attention the Service Department.

Your Warranty Statement is included, under separate cover with this manual. Please read it carefully. Also, please return the completed postpaid owner registration card which is included with this manual. The purpose of this card is to register each unit and owner at the factory for safety purposes.

BE A SAFE OPERATOR

AVOID ACCIDENTS

Included with this manual is a Safety Poster which we ask that you place in the area where your equipment is stored. This is intended to serve as a constant reminder to be safety conscious.

To read reports from all over the country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power equipment can be safer than the person who is at the controls. If accidents are to be prevented and they most certainly can be prevented - operators must accept their full measure of responsibility.

It is true that the designer, the manufacturer and the safety engineer can help, but their combined efforts can be wiped out by a single careless act.

It is said "the best kind of safety device is a careful operator." We ask you to be that kind of person.

CONTENTS

Safety Precautions	3	Differential Lock	8	Transmission Oil	11
Identification Numbers	4	Three Point Hitch	8	Air Cleaner	11
Specifications	4	PTO Control Lever	9	Battery	11
Pre-Operational Checks	5	Adjustments		Air Bleeding	12
Controls	6	Brake Pedal	9	Fuel Filter	12
Operation		Clutch Pedal	9	Fuel Tank	12
Normal Starting	7	Throttle Lever	10	Tires	12
Stopping	7	Tire Widths	10	Fuel	12
Cold Weather Starting	7	Front Wheel Toe-In	10	Maintenance Chart	13
Transmission Shift	7	Steering	10	Lubrication Chart	15
Transmission Hi-Lo	7	Fan Belt	10	Problem Solving	16
Clutch Pedal	7	Maintenance		Wiring Diagram	18
Brake Pedal	8	Radiator	11	Three Point Hitch Ass'y	19
Parking Brake	8	Engine Oil	11	Storage	20
Four Wheel Drive	8	Engine Oil Filter	11		

CONTROLS

A. COOLANT TEMPERATURE LIGHT

Indicates excessive coolant temperature. If lamp glows, slow engine to idle to allow engine to cool. See Troubleshooting Chart.

B. OIL PRESSURE WARNING LIGHT

Indicates low engine oil pressure. Light will glow when oil pressure falls below minimum level. Stop engine immediately and refer to Troubleshooting Chart.

C. CHARGE INDICATOR LIGHT

Monitors battery charge rate. Light glows red when alternator is not charging sufficiently. Stop tractor to correct problem. When operating engine at low speed, adjust engine speed so indicator lights remains off.

D. TACH/HOURMETER

Registers engine RPM on upper scale and ground speed in 6th gear on lower scale. Red dot at 2700 RPM on upper scale indicates correct PTO speed. Engine hours are registered on meter in center of dial.

E. THROTTLE CONTROL LEVER SHUTOFF

Pushing lever forward increases speed, pulling lever to the rear decreases speed. Moving lever to the rear beyond idle notch stops engine by cutting off fuel supply.

F. KEY SWITCH

Controls electrical current for all lights, instruments, etc.

1. "OFF" stops all current. Allows removal of key.
2. "ON" routes current to instruments and starting.
3. High beam headlights.
4. Low beam headlights.

G. START/PREHEAT SWITCH

Activates glow plugs when turned counterclockwise, and starter when turned clockwise. Glow light glows red when glow plugs reach sufficient temperature for starting.

H. BRAKE PEDALS

Depress to activate brakes. Brakes may be applied separately at low speeds to aid in turning.

J. FOUR WHEEL DRIVE SHIFT LEVER

Is used to engage or disengage front axle drive system.

K. PARKING BRAKE LEVER

Locks brakes in engaged position.

L. FOOT PEDAL

Is used for foot control of engine speed.

M. TRANSMISSION GEAR SELECTOR

Is used to select ground speeds of 3 forward, reverse and neutral.

N. TRANSMISSION HI-LO RANGE SELECTOR

Provides 6 forward and 2 reverse speeds by doubling each of the speeds in the main transmission.

O. CLUTCH PEDAL

Controls clutch operation.

P. HORN BUTTON

Activates horn when depressed by operator.

Q. TRANSPORT WARNING LIGHT SWITCH

Pulling switch out activates both flashers for highway travel.

R. HYDRAULIC CONTROL LEVER

Controls raising and lowering of 3-point hitch.

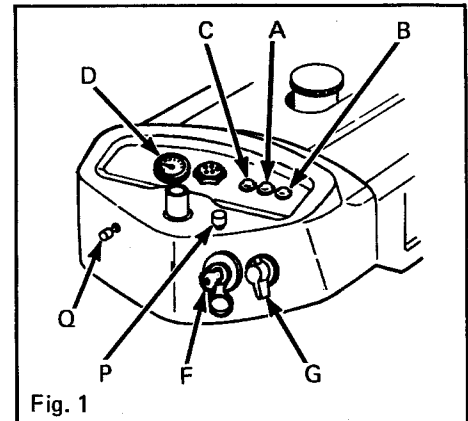


Fig. 1

S. DIFFERENTIAL LOCK PEDAL

Is used to overcome rear wheel slippage by locking the rear axles so they must rotate.

T. PTO CONTROL LEVER

Controls 3 speed PTO.

U. HITCH LOWERING SPEED ADJUSTMENT (Under seat)

Allows the operator to select hitch lowering speed and lock hitch in position.

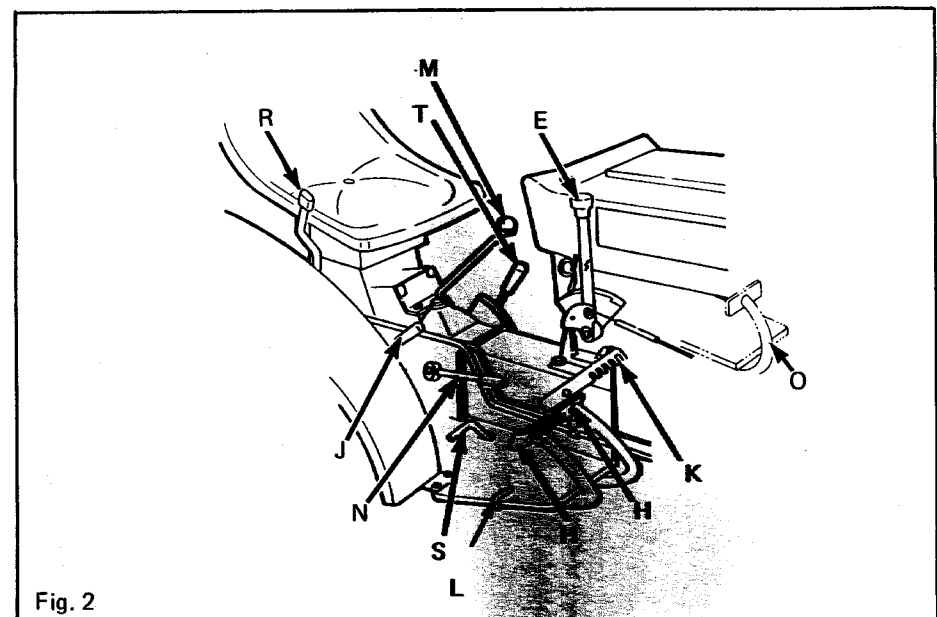


Fig. 2



NEVER ADJUST, REPAIR OR UN-PLUG HITCH MOUNTED EQUIPMENT IN RAISED POSITION UNLESS ADEQUATE SAFETY STANDS ARE USED TO SECURE IMPLEMENT. A SUDDEN INTERNAL OIL LEAK COULD ALLOW THE IMPLEMENT TO DROP, CAUSING POSSIBLE PERSONAL INJURY.

C. UPPER LINK (A) Figure 6 - Connect link to attachment and adjust turn buckle on upper link till the (2) lower links are parallel to upper link. Tighten lock nut to

secure in place. If lower links are not even adjust crank (B).

D. SWAY CHAINS (C) Figure 6 - When implements are to be transported on three-point high, limiting chains should be adjusted so they are under tension when hitch is in a raised position.

PTO CONTROL LEVER (H) Figure 3 - Controls 3 speed PTO. Depress clutch fully and let tractor movement stop before shifting. Speeds at 2700 engine RPM are:
 1st 454 RPM
 2nd 724 RPM
 3rd 1185 RPM
 Lock brakes when using PTO in stationary applications.

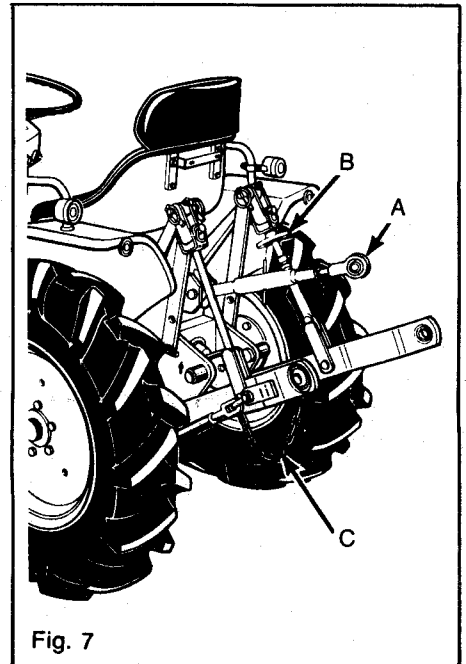


Fig. 7

ADJUSTMENTS

Before making any adjustments be sure tractor engine is off and tractor is securely blocked and/or parking brake is set.

BRAKE PEDAL

Each brake pedal (A) Figure 8 should have free play of 1-3/16" - 1-9/16" (30-40 mm). Also check for equal braking action when brakes are connected.

To adjust brakes, loosen two nuts (B) Figure 8, and turn adjusting rod until proper free play is obtained. Tighten both nuts.

CLUTCH PEDAL

Free play of pedal (C) Figure 9 should be 1-3/16" - 1-9/16" (30 - 40 mm).

To adjust clutch pedal, loosen two nuts (E) Figure 9 and turn turnbuckle to obtain proper free play. Tighten both nuts. Check operation of safety switch after adjusting clutch pedal. Adjust bolt "D" to obtain 1/4" switch travel when pedal is depressed.

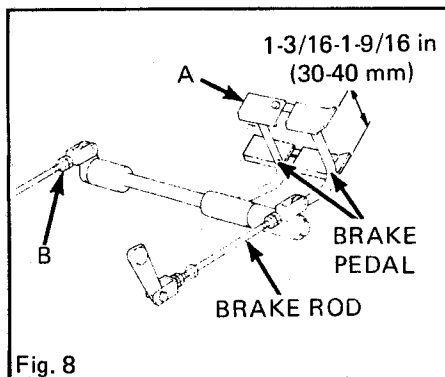


Fig. 8

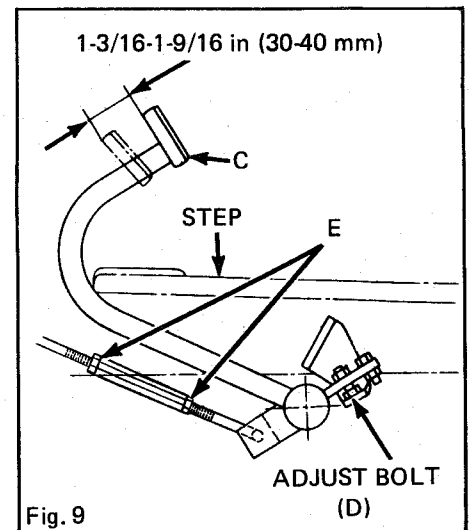


Fig. 9