



CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW

Long
JENSALES

Operator's Manual

510-S, 510-SV,
510-SM Tractor

purchase full manual at

Operator's Manual

JENSALES.COM

or Call 800-443-0625



CLICK ANYWHERE FOR MORE DETAILS

THIS IS A MANUAL PRODUCED BY JENSALES INC. WITHOUT THE AUTHORIZATION OF
LONG OR IT'S SUCCESSORS. **LONG** AND IT'S SUCCESSORS
ARE NOT RESPONSIBLE FOR THE QUALITY OR ACCURACY OF THIS MANUAL.

TRADE MARKS AND TRADE NAMES CONTAINED AND USED HEREIN ARE THOSE OF OTHERS,
AND ARE USED HERE IN A DESCRIPTIVE SENSE TO REFER TO THE PRODUCTS OF OTHERS.

LO-O-510+

INDEX

INTRODUCTION	3
HOW TO IDENTIFY THE TRACTOR	6
TECHNICAL FEATURES	7
General	7
Engine	7
Transmission	14
Undercarriage	14
Electric Equipment	16
Power Take-Off	18
Hydraulic System	18
Three-Point-Linkage	19
Towing and Hitching Attachments	19
Miscellaneous Equipment	19
TRACTOR OPERATION	
Control and Instruments	20
Starting, Driving and Stopping the Tractor	23
Putting a New Tractor into Operation	28
Working the Tractor	29
Rules to Prevent Accidents	39
TRACTOR MAINTENANCE	
Periodical Maintenance	41
Maintenance Operations in Detail	43
Recommendations Concerning Fuel System Maintenance	60
Cold-Weather Precautions	65

JENSALES.COM
or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

INTRODUCTION

CLICK ANYWHERE FOR MORE DETAILS

The 510-S-SM-SV tractors belong to the Long 510 series of crawlers.

They are mean power crawlers, equipped with Diesel engines of 48.5 HP (36.2 Kw) at 2400 r.p.m., with direct injection and electric start.

The 510-S tractor is a crawler of a general use, intended to farming operations carried out in conjunction with trailed and suspended implements, as well as for transport jobs.

With its great transversal stability, the 510-SM crawler is a crawler for mountain, being intended to farming operations on steep hills. It is derived from 510-S crawler, being different from it mainly by the increased track and wider track links.

The 510-SV crawler also derived from 510-S crawler is intended to vineyards, orchards maintenance operations, having a smaller track and narrow track links.

Their hydraulic system enable these tractors to operate in conjunction with a diversity of farming and seed maintaining implements.

The hydraulic power lift, power take-off, drive shaft, belt pulley and hitches enlarge the field of application of these tractors to a great extent, giving them the possibility to carry out operations in conjunction with various mounted, half-mounted and trailed agricultural implements.

Owing to the small specific ground pressure, these tractors do not damage the soil and the street plates their track links can be provided with, allow them to run on high roads.

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW



04675

JENSALES.COM
or Call 800-443-0625

Fig. 3 — Front-right view of 510-SV tractor.

CLICK ANYWHERE FOR MORE DETAILS

HOW TO IDENTIFY THE TRACTOR

CLICK ANYWHERE FOR MORE DETAILS

Any communication to the manufacturing plant, regarding tractor behavior, must include engine and chassis serial number and code under which the tractor was delivered, indicated on the warranty certificate.

Such indications facilitate the spare parts deliveries avoiding waste of time in keeping correspondence.

Chassis serial
number

Engine serial
number

JENSALES.COM

or Call 800-443-0625

Fig. 4 — Engine and chassis serial number.

CLICK ANYWHERE FOR MORE DETAILS

TECHNICAL FEATURES

GENERAL

Model	510-S	510-SM	510-SV
Type	general use	mountain-	vineyard

Travel speeds (calculated at rated engine speed, without skidding).

— 1st gear	1.65 km/h	(1.02 MPH)
— 2nd gear	3.01 km/h	(1.87 MPH)
— 3rd gear	4.13 km/h	(2.56 MPH)
— 4th gear	5.68 km/h	(3.53 MPH)
— 5th gear	7.54 km/h	(4.68 MPH)
— 6th gear	10.36 km/h	(6.43 MPH)
— Reverse gear, 1st	3.10 km/h	(1.93 MPH)
— Reverse gear, 2nd	5.66 km/h	(3.51 MPH)

Specific Ground Pressure

510-S
4.41 PSI
(0.31 kg/sq.cm)
(310 mm track)

510-SM
3.83 PSI
(0.27 kg/sq.cm)
(360 mm track)

510-SV
5.14 PSI
(0.36 kg/sq.cm)

Climbing Ability:

20°

27°

17°

Tractor Weight, replenished
without options:

5500 lbs.
(2500 kg)

5698 lbs.
(2590 kg)

5280 lbs.
(2400 kg)

ENGINE

Model	D-116
Type	Diesel, 4 stroke, direct injection

Engine rated power (P.T.O.) 48.5 (36.2 Kw)

Crankshaft r.p.m. at engine rated
power 2400 r.p.m.

Max. torque (at 1200 r.p.m.) 103.4 ft.-lbs. (14.3 kgm)

Number and arrangement

of cylinders 3 cylinders, vertical, in line

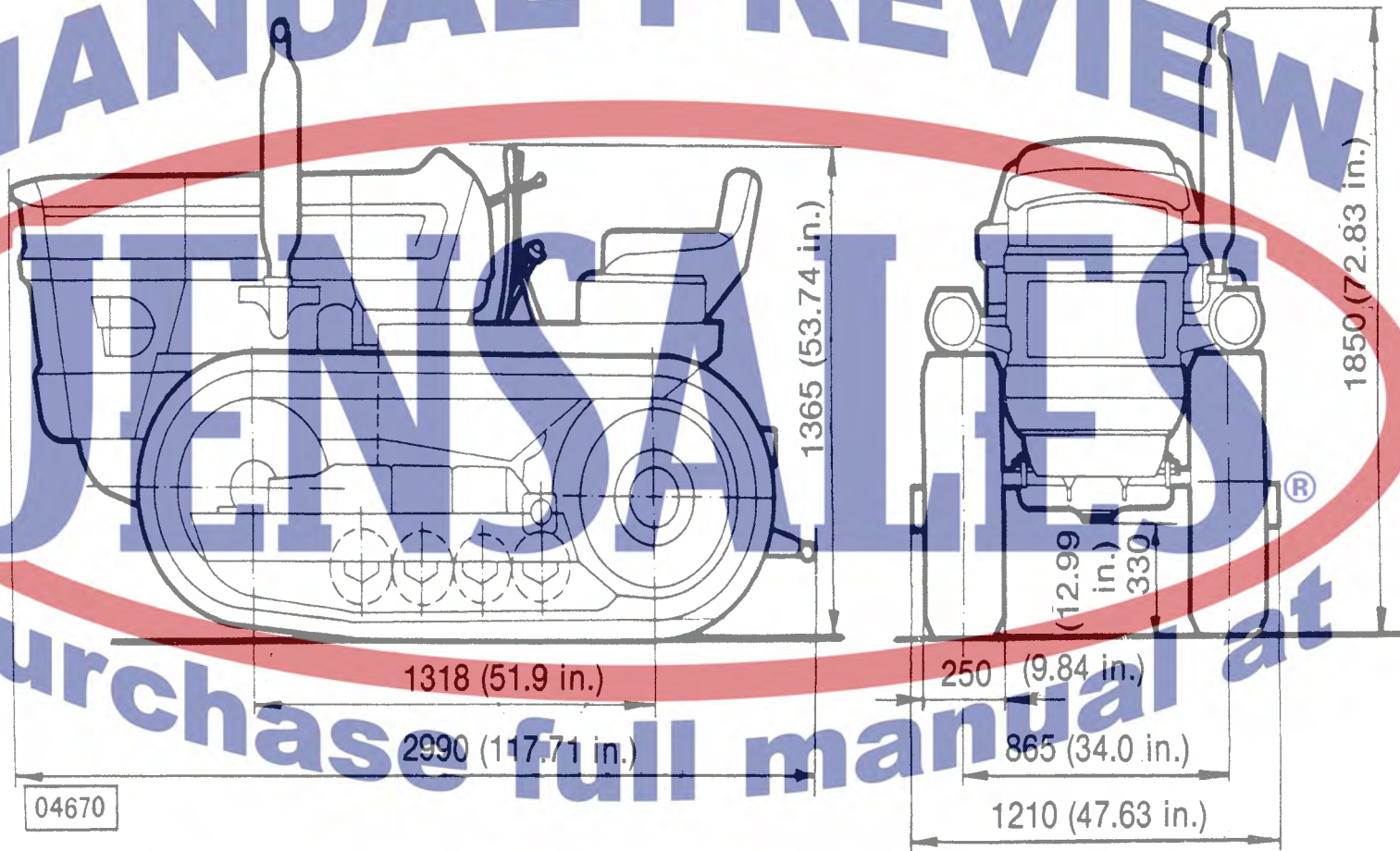
Bore/stroke (95/110 mm) 4.02/4.33

Compression ratio 17 : 1

Cylinder capacity 2.34 l

CLICK ANYWHERE FOR MORE DETAILS

MANUAL PREVIEW



11

Compiled and Reproduced From Original by Jensales Inc.

JENSALES.COM

Fig. 7 — Overall dimensions of 510-SV tractor.

or Call 800-443-0625

CLICK ANYWHERE FOR MORE DETAILS