





SKID STEER LOADER

703 / 704 / 705 / 706 / 707 / 709 / 711





TCM Skid Steer Loaders (SSL)





Ecology



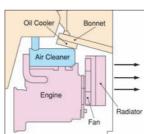
Powerful Clean Engine

The engines complying with the 2nd stage emission controls deliver more power with less emissions. The fuel combustion system is further improved to reduce emissions.

Model	Туре	Displacement (cc)	Rated Output (kw/rpm)		
703	D782	778	11.5/2800		
704	D/62	776			
705	V1505	1498	20.1/2400		
706	V 1505	1496			
707	V0400	0404	22 5/0400		
709	V2403	2434	33.5/2400		
711	V3300	3318	47.8/2500		



Efficient Cooling System The oil cooler is arranged before the radiator fan for efficient cooling and noise reduction.



Low Noise Design

Low noise operation is achieved with an array of noise suppression measures:

- · Sound-absorbing mat
- · Engine rubber-mount
- · Efficient cooling system
- · Large-capacity muffler
- · Boxed-in engine pumps and valves



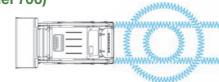
Activity



Hydraulic Bucket-Leveling Mechanism

The bucket can always be leveled during raising for efficient loading with less load spill. While raising the bucket, no pedal control is required for simple, easy operation.

Min. Turning Radius, Front with Std Bucket: 2090mm (Model 706)



HST System (Hydro-Static Transmission)

The dual-pump, dual-motor HST system brings excellent maneuverability, pivot turn, agile movements, and plenty of traction force even on slippery ground. The big-power clean engine gives the machine extra power and speed, and enhances environment friendliness.

Big Loading Capacity

The machine features compact, sleek body, and the biggest loading capacity in its class. This means the machine provides high job efficiency in a variety of applications, including gardening, firming, stock-breeding, snow plowing, and civil engineering work.

Model	Rated capacity(kg)
703	270
704	320
705	430
706	500
707	580
709	690
711	840



Top-Class Dumping Reach and Clearance

Ideal matching of dumping reach and clearance helps ease load handling for higher job efficiency. The new R-shaped bucket enhances smooth load discharge. The increased bucket roll-back angle minimizes load falling.

Model	Dumping clearance(mm)	Dumping reach(mm)			
703	1015	470			
704	1815	470			
705	0100	400			
706	2130	480			
707	2222	640			
709	2200	610			
711	2400	680			

Increased Travel Speed and Drawbar-Pull

Travel speed and drawbar-pull can be continuously controlled with the HST system and steering lever according to job needs for efficient use of engine horsepower.

Model	Maximum speed(km/h)	Maximum traction force(k/N)				
703	9.0	9.8				
704 9.0		10.8				
705	11.5	15.7				
706	11.5	17.7				
707	12.0	22.5				
709	12.0	24.5				
711	10.0	29.4				







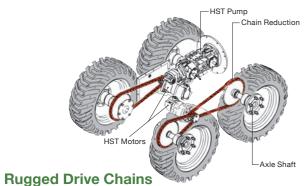


Safety



Safety Lever and Loading Pedal

The bucket, boom, and attachment can be locked with the safety lever. The safety lever is interlocked with the loading pedal. Even when the safety lever is released, the loading pedal is locked. The safety lever is opened sideward to left or right for easy operation.



The heavy-duty drive chains in two short loops on each side are rugged enough for long service life in tough operations.



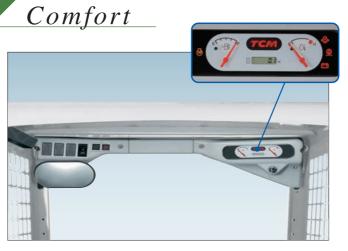
Lights for Safer Operation

Headlights (Halogen type) and turn signal lights on both sides are provided standard for safe operation even in the rain. On the mid-sized models (705 and larger), the brake light is provided as a combination light.



Easier Inspection and Maintenance

The cabin and one-touch tailgate hood can be opened for quick inspection and maintenance of the engine, hydraulics, etc.



Easy-to-Read Instrument Panel

Instrument panel, controls and meters are ergonomically arranged for easy operation. Meters and switches are grouped in front of the operator for easy control.



Transparent Screen

The transparent acrylic screen is provided as standard at the cabin top for better upward visibility even in the rain. The screen is easily



Easily Accessible Roomy Cabin

The instrument panel, meters and controls are functionally arranged to give wider operator space for comfortable operation. On large-sized models, the entry is widened and the step is lowered for easy access to the seat.



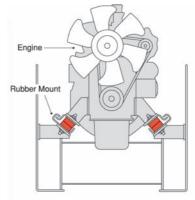
Travel Levers and Armrests

Travel levers are fitted with soft-touch resin grips for pleasant handling. Armrests reduce operator fatigue in long, continuous operation. The turn signal, and horn switches are mounted on the top of the left and right levers, respectively.



Durable, Comfortable Operator Seat

The operator seat is monolithically formed, using high-quality, water-resistant material. The seat is designed for seating comfort and durability. On the mid-sized model (705 and lager), the deluxe wider operator seat is provided along with side support, seat belt and pocket.



Big Power with Less Vibration

A four-point rubber mount system reduces vibrations.



Fuel Port Lid

The fuel port is located below the side panel for easy refueling. The fuel port is fitted with a lid for sealing.





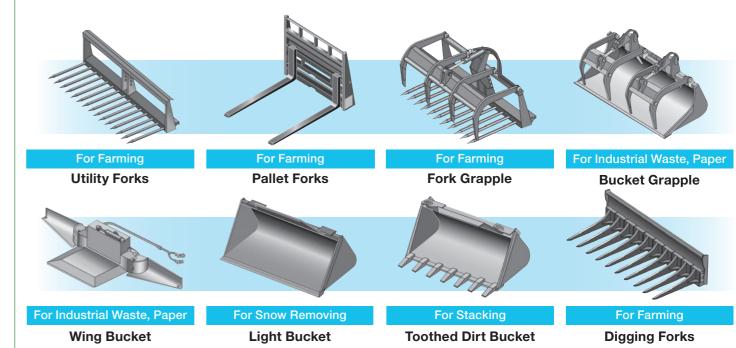




Various Attachments for Diversified Applications

Various attachments of Skid Steer Loaders are available for diversified purposes including material handling, stacking and digging in agricultural scenes, snow removing and civil engineering. These attachments have increased the values of Skid Steer Loaders in the industries, with utilized applications.

Attachment



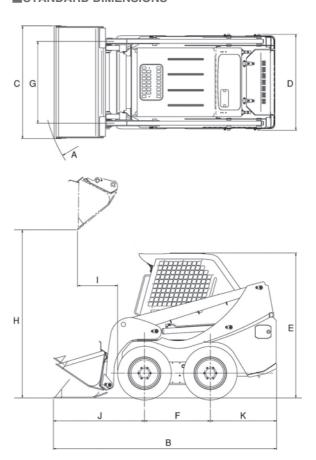


■STANDARD SPECIFICATIONS

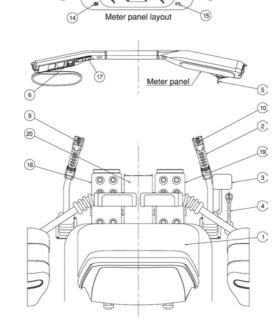
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S	TANDARI	SPECIFIC	CAI	IONS								
S	Manufacturer							UNICA	RRIERS			
Characteristics	Model designa	tion			SSL 703	SSL 704	SSL 705	SSL 706	SSL 707	SSL 709	SSL 709V(OPT.)	SSL 711
Sch	Туре								nd type			
hare	Power unit				Diesel engine							
<u></u>	Operation			<u> </u>		Seated						
	Bucket capacity	Heaped	m ³		0.14	0.17	0.22	0.28	0.31	(0.35	0.40
		Struck	m ³		0.11	0.13	0.18	0.22	0.24	(0.27	0.31
	Rated opearat	ing capacity	kg		270	320	430	500	580		690	840
	Tipping load		kg		540	640	860	1000	1160 1380		1380	1690
æ		Raise(w/rated load)	sec		5.	.0	4	.3		4.9		5.2
and	Hydraulic cycle time		sec		2.	.7	2	1.3	2.8			2.9
Performance		Lower(empty)	sec	3.5		3.3			3.0			
ē	Travel speed	Forward	km/h		9.	.0	1	11.5		12.0		10.0
er.		Reverse	km/h		9.	.0	1	1.5		12.0		10.0
Τ.	Maximum traction	force(w/rated load)	kN		9.8	10.8	15.7	17.7	22.5		24.5	29.4
			deg		19	9	17	18		17		26
			deg		3(0	3	30		30		30
	Min.turning radius,	ront with std bucket	mm	Α	1670	1690	2050	2090	2250	2	2300	2400
	Min.turning rac	lius,rear	mm		10	00	12	270	13	80	1400	1420
	Overall length,b	ucket on ground	mm	В	25	15	28	330	30	90	3160	3330
	Overall width	Loader body	mm	D	895	1040	1180	1270		1535		1680
	Overall Willil	Bucket std	mm	С	900	1050	1230	1420	1540	1	1670	1750
	Wheel base		mm	F	72	20	8	30		930		1040
	Front overhang, b	oucket on ground	mm	J	10	75	11	140		1300		1390
JIS	Rear overhang		mm	К	72	20	8	40	86	60	930	900
Weights	Tread	front/ rear	mm	G	740/740	825/825	965/965	1030/1030		1250/1250		1345/1345
Š	Overall height	at CAB	mm	Е	17	70	18	330	1940/	1970*	2040	1995/2025
ž	Overall operati	ng height	mm		31	10	34	130		3660		4010
	Height to hinge		mm		23	90	27	700		2835		3120
Demensions	Dumping clear					4.5		100				
us	height, full dun		mm	H	18	15	21	130	2200		2400	
E	Dumping reach	n may										
ᅙ	height,full dum		mm	I 470		480		610		680		
		at carry position)	deg.		36		37		35		37	
			deg.		40		40		37			40
			mm	155		170		185			220	
			mm	210		280		300		260		
	Service weight kg		_		1070	1120	1680	1750	2420/2490*	2720/2790*	2730	3340/3410
	Make	·				-			oota			
						V33	00					
_	Туре							4 cvcle, wa	ater cooled			
ē			lit	0.778		1.4	498	2.4	34	3.3	18	
system	Number of cyli	nders			3	3		4	4	ļ	4	
	Bore x stroke	· · · · · · · · · · · · · · · · · · ·		67.0 >	x 73.6	78.0	x 78.4	87.0 x 102.4 98.0 x			110.0	
trical	Rated output			11.5kW/ 2800rpm		20.1kW/ 2400rpm		33.5kW/ 2400rpm 47.8kW/ 2		2500rpm		
o	Maximum torq	ue			43.1N.m/	2200rpm	90.0N.m	/ 1600rpm	156.4N.m	/ 1600rpm	210.7N.m/ 1800rpm	220.1N.m/ 1400
e	Air-cleaner					-			lon type			
<u>«</u>	Fuel inj. pump								er type			
	Lubricating oil	filter							n-on cartridge			
Engine	Alternator				AC 0.48	kW, 12V	AC 0.36	6kW, 12V		AC 0.5	54kW, 12V	
ŭ	Starter motor				12V -			1.4kW	12V -		12V - 3	3.0kW
	Battery				1 x 12V/			55AH/5h			// 64AH/5h	
	Type								lic drive			
Power train		Туре							axial piston pump			
Ĕ	HST pump	Capacity	cc/rev.		0~	16.4		, aparenty,	0~43.5			0~45.9
ē		Туре						Constant capacit				
ō	HST motor	Capacity	cc/rev.	Constant capacity, trochoid motor 195 311								195
۳	Reduction	1					1	Gear & chain s	single reduction			
S	Drive system								el drive			
Axles & wheels	-	Front										
×	Axles	Rear						Frame fixed,	semi-floating			
es		Front/Rear	4pcs	5	70-12-6PR	23x8.50-12-6PB	27x8.50-25-6PP	27x9.50-15-6PR		10-16.5-6PR		12-16.5-8P
¥	Tyres	Type	1,000	<u>ٿ</u>		_5A0.00-12-01 11	27.70.00-20-01-11		on lua	10 10.0-0111		12 10.0-01
g		Service		Traction lug HST motor shaft braking, multiple wet disc								
e	Brake system	Parking					П		pedal locking			
stee	Steerng syster						Q	kid-steering, indepe		els		
	Loading mechar											
			2000		AF	602			ket leveling system			60 4 050
G		ore x stroke mm)		-	45 x			703	60 x 715			63 x 853
Loading mechanism & linkage Hyd.automatic bucket leveling system					63 x 512							
త	Main pump					07.0						
<u>g</u>		Displacement	cc/rev.	-	9.0	UO	10		numn	22.8		27.8
튱	Charging pump	Type	oc/s			no			pump	00.0	I	00.0
Loading		Displacement Cet relief press	cc/rev.		9.0			6.8		22.8		22.9
	Main control valve		Мра	<u> </u>	12			4.7	<u> </u>	17.2		16.7
ற் ம		nax.governor speed	dB(A)	<u> </u>	8			36	8		_	-
<u>∮</u>			1 1 7		68	Q		67	7.	9	_	_

■STANDARD DIMENSIONS



■INSTRUMENTS & CONTROLS



1)	Operator seat	11	Engine thermometer
2)	Steering lever	12	Engine oil pressure indica
3)	Brake pedal	13	HST oil filter pressure indi
4)	Accelerator lever	14)	HST oil temperature indica
5)	Starter switch	(15)	Battery charge indicator
6)	Lighting switch	16	Engine glow indicator
7)	Hour meter	17)	Parking brake indicator
8)	Fuel gauge	18	Boom pedal
9)	Turn signal switch	19	Bucket pedal
0	Horn button	20	Optional pedal

■STANDARD EQUIPMENTS & OPTIONS

N	Model	SSL 703 SSL 704	SSL 705 SSL 706	SSL 707 SSL 709	SSL 709V (OPT.)	SSL 711		
	Durable operator seat	STD	STD	STD	STD	STD		
m	Front widow's glass	-	OPT	OPT	OPT	OPT		
CA	Heater	-	OPT	OPT	OPT	OPT		
ŝ	Operator hand tool kit	STD	STD	STD	STD	STD		
Operators	Overhead roof with resinified screen	STD	STD	STD	STD	STD		
<u>a</u>	Rear window's glass		OPT	OPT	OPT	OPT		
odo	Room mirror	STD	STD	STD	STD	STD		
O	Safety seat levers Steel cabin with front door	510	OPT	OPT	OPT	OPT		
	Aircleaner dust indicator	STD	STD	STD	STD	STD		
	Auxiliary hydraulic valve modules(3spool)	OPT	OPT	OPT	OPT	OPT		
	Body coloring paint(White)	STD	STD	STD	STD	STD		
	Cycropac aircleaner	STD	STD	STD	STD	STD		
_	Dual-element aircleaner	_	OPT	OPT	OPT	OPT		
lo	Fuel-cap with key(Vandalism)	OPT	OPT	OPT	OPT	OPT		
Operation	Hydraulic bucket leveling mechanism	STD	STD	STD	STD	STD		
Jer	Hydraulic control valve(2spool)	STD	STD	STD	STD	STD		
Ö	Lever operational, attachment	_ ODT	OPT	OPT	OPT	OPT		
ంర	Lifting-eye device	OPT	OPT	OPT	OPT	OPT		
ů	Loading pedal lock system	STD	STD	STD	STD	STD		
Equipment &	Oil-cooler dust screen Pedal under cover	_	OPT OPT	OPT OPT	OPT OPT	OPT OPT		
<u>-</u>	Plate-fin type radiator		- OF I	OPT	OPT	OPT		
b	Quick carrier	STD	STD	STD	STD	STD		
ш	Radiator dust screen	OPT	OPT	OPT	OPT	OPT		
	Under cover(Guard)	STD	OPT	OPT	OPT	STD		
	Unique cushion tyre	OPT	OPT	OPT	OPT	OPT		
	Wheel-rim, galvnized	OPT	OPT	OPT	OPT	OPT		
	Wheel-rim off-set type	OPT	OPT	-	_	_		
	Attachment pedal	OPT	OPT	OPT	OPT	OPT		
	Back buzzer	OPT	OPT	OPT	OPT	OPT		
	Boom pedal	STD	STD	STD	STD	STD		
_	Brake pedal Bucket pedal	STD STD	STD STD	STD STD	STD STD	STD STD		
nstruments & control	Combination meter: (Hourmeter) (Engine oil pressure warning) (Engine water temp. gauge) (HST oil pressure warning) (HST oil temp. warning) (Fuel gauge) (Battery charge warning)	STD	STD	STD	STD	STD		
=	Horn & switch	STD	STD	STD	STD	STD		
	Lighting switch	STD	STD	STD	STD	STD		
	Starter switch(inc. Glow switch)	STD	STD	STD	STD	STD		
	Turn signal switch	STD	STD	STD	STD	STD		
S	Brake lights Head lights Parking light Rear working light	STD	STD	STD	STD	STD		
h	Head lights	STD	STD	STD	STD	STD		
n in	Parking light	STD	STD	STD	STD	STD		
ip ip	Hear working light	OPT	OPT	OPT	OPT	OPT		
	Tail lights Turn signal lights(Front & Rear) Bucket, dirt	STD	STD	STD	STD	STD		
_ 0	I urn signal lights(Front & Rear)	STD	STD	STD	STD	STD		
	Bucket, dirt reignforced time	STD —	STD	STD	STD	STD		
S	Bucket, dirt reignforced type	_	OPT	OPT	OPT	OPT		
Buckets & Loading attachments	Bucket, double edge	OPT	OPT OPT	OPT OPT	OPT OPT	OPT OPT		
me	Bucket, utility Bucket, utility, galvanized	— OP1	OPT	OPT	OPT	OPT		
- C	Bucket, utility, galvanized Bucket, utility, double edge	_	OPT	OPT	OPT	OPT		
tac	Bucket, utility, double edge, galvanized	_	OPT	OPT	OPT	OPT		
at	Bucket, utility, stainless	_	OPT	OPT	OPT	OPT		
ng	Bucket with tooth	OPT	OPT	OPT	OPT	OPT		
ib	Bucket, light	OPT	OPT	OPT	OPT	OPT		
0	Bucket, wing type A	OPT	-	-	-	-		
 	Bucket, wing type B	OPT	_	_	-	_		
S	Bucket, wing type C	OPT	_	_	_	_		
et	Blade	_	OPT	OPT	OPT	OPT		
S	Forks, industrial pallet	OPT	OPT	OPT	OPT	OPT		
Bu	Forks, utility	OPT	OPT	OPT	OPT	OPT		
	Forks, utility, grapples	OPT	OPT	OPT	OPT	OPT		
	Forks, digging	_	OPT	OPT	OPT	OPT		
STD: 9	STD: Standard configulation OPT: Options							

■SERVICE REFILL CAPACITIES

Model	SSL 703 SSL 704	SSL 705 SSL 706	SSL 707 SSL 709	SSL 709V (OPT.)	SSL 711					
Engine coolant(Engine & Radiator) Lit		2.9	4.5	6.6	9.3	9.3				
Fuel tank Li		20.0	32.0	40.0	40.0	75.0				
Engine crankcase L		3.1	5.0	9.0	13.0	13.0				
Transmission(HST) case		19.0	24.0	44.0	44.0	54.0				
Hydraulic oil tank Lit.		12.0	16.0	24.0	24.0	27.0				

*Figures for CIS markets (EXR figures)



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 Produced in ISO certified factory.

