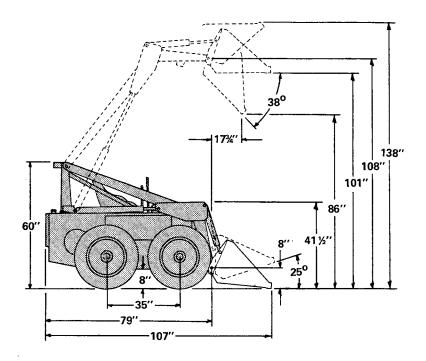
# GENERAL SERVICE INFORMATION

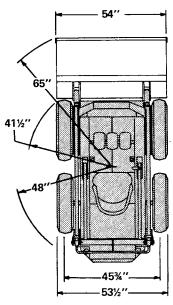
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GEN. SERV INFO

# LOADER SPECIFICATIONS

(Gasoline and L.P. Gas)





Dimensions are given for loader equipped with 3793-M dirt bucket and may vary with other bucket types. Where applicable, specifications conform to IEMC & SAE standards and are subject to change without notice.

(M-600)

Operating Weight -- (Gasoline) 3625 (LP Gas) 3695

### **OPERATIONAL & PERFORMANCE**

Rated Operating Capacity ———— 1000 lbs. Lifting Capacity to Max. Height --- Gas 1700 lbs. LP Gas 1700 lbs. Gas 1880 lbs.; LP Gas 1990 lbs. Tipping Load Hydraulic Function Time: Raise to Maximum Height ------4.0 sec. Lower from Maximum Height ----- 2.5 sec. Dump Bucket -----1.6 sec. Rollback Bucket ----- 1.6 sec. Travel Speed ----- Infinitely Variable to 5.7 MPH Forward & Reverse Controls:

Vehicle ----- Forward, reverse & steering functions controlled by two hand levers. Travel Speed ----- Hand lever controlled, adjusted variable sheave Loader ----- Lift, tilt & auxiliary functions controlled by separate foot pedals.

Engine ----- Hand lever throttle, manual

choke & key type ignition-starter switch

(Cont'd)

(M-500)

Operating Weight -- (Gasoline) 3390 (LP Gas) 3465

Rated Operating Capacity ------ 1000 lbs.

### **OPERATIONAL & PERFORMANCE**

Lifting Capacity to Max. Height Gas 1540 lbs. LP Gas 1640 lbs. Gas 1540 lbs.; LP Gas 1640 lbs. Tipping Load Hydraulic Function Time: Raise to Maximum Height ----- 4.4 sec. Lower from Maximum Height -----2.7 sec. Dump Bucket -----1.8 sec. Rollback Bucket ------1.8 sec. Travel Speed ----- Infinitely Variable to 5.7 MPH Forward & Reverse Controls: Vehicle ----- Forward, reverse & steering

functions controlled by two hand levers. Travel Speed ----- Hand lever controlled, hydraulically adjusted variable sheave Loader ----- Lift, tilt & auxiliary functions controlled by separate foot pedals. Engine --- Hand lever throttle, manual choke & key type ignition-starter switch

(Cont'd)

(M-4444)

### **OPERATIONAL & PERFORMANCE**

Operating Weight -- (Gasoline) 3405 (LP Gas) 3465 Rated Operating Capacity ------ 1000 lbs. Lifting Capacity to Max. Height Gas 1540 lbs. LP Gas 1620 lbs. Gas 1540 lbs., LP Gas 1620 lbs. Tipping Load

Hydraulic Function Time:

Raise to Maximum Height ----- 4.4 sec. Lower from Maximum Height ----- 2.7 sec. Dump Bucket ------ 1.8 sec. Rollback Bucket ----Travel Speed ----- Infinitely Variable to 5.7 MPH Forward & Reverse

Controls:

Vehicle ----- Forward, reverse & steering functions controlled by two hand levers. Travel Speed ------ Hand lever controlled. hydraulically adjusted variable sheave Loader ----- Lift, tilt & auxiliary functions controlled by separate foot pedals. Engine --- Hand lever throttle, manual choke & key type ignition-starter switch.

(Cont'd)

		600 Cont'd)	
	ENGINE	1475	
	Make		
Res.		Gasoline or	
		orsepower - 25 @ 240	
	Maximum Torque	57.5 ft. lbs. @ 180	00 RPM
	•		
		3-1/4	
		107. 12 volt dis	
	•	12 voit dis	
	-	O	
	Lubricant Filtration	Replaceable elem	ent, full
		flow with	bypass
	Crankcase Ventilation	Internal breathi	ng with
		sealed car	
	Air Cleaner F	Replaceable dry cartric	
		with condition in	ndicator
	LOADER HYDRA	ULICS	
		Engine driven ge	ar type
	•	city - 9.5 GPM @ 240	
		1	
		flow on suction port o	
	with bypass, cor	ndition indicator & 33	micron
		replaceable paper e	lement.
	Cylinders Dou	bleacting with Teflon	
	<b>-</b>		ear rings
	Function Bore Diameter	Lift 2"	Tilt 2"
	Rod Diameter	1-1/4"	1"
	Stroke	25"	16"
		type with float deten	
	Valves Open center		t on lift
	Valves Open center	type with float deten	t on lift ull flow
	Valves Open center	type with float deten	t on lift ull flow
	Valves — Open center Fluid Lines — ELECTRICAL	type with float deten	t on lift ull flow fittings.
	Valves — Open center Fluid Lines — — — — ELECTRICAL Alternator — — — Battery — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard from tubes, hoses & 22 amp. enclosed belight of the tubes.	t on lift ull flow fittings. t driven 12 volt
	Valves — Open center Fluid Lines — — — — ELECTRICAL Alternator — — — Battery — — — — — — — — — — — — — — — — — — —	type with float deten SAE standard fr tubes, hoses &	t on lift ull flow fittings. t driven 12 volt
	Valves — Open center Fluid Lines — — — — ELECTRICAL Alternator — — — Battery — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard from tubes, hoses & 22 amp. enclosed belight of the tubes.	t on lift ull flow fittings. t driven 12 volt
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard from tubes, hoses & 22 amp. enclosed belight of the tubes.	t on lift ull flow fittings. t driven 12 volt
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard from tubes, hoses & 22 amp. enclosed belayer	t on lift ull flow fittings. t driven 12 volt 12 volt
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard for tubes, hoses & 22 amp. enclosed below	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt volt volt volt
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard for tubes, hoses & 22 amp. enclosed below	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt volt 3.00:1
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard for tubes, hoses & 22 amp. enclosed below	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt 3.00: 1 5.00: 1
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard for tubes, hoses & 22 amp. enclosed below	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt 3.00:1 5.00:1 in sealed
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention SAE standard for tubes, hoses & 22 amp. enclosed belonger and tubes. The same arms of the sa	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt 3.00: 1 5.00: 1 in sealed 1 ratio)
	Valves — Open center Fluid Lines — Fluid Lin	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt volt volt volt volt 3.00: 1 5.00: 1 in sealed 1 ratio)
	Valves — Open center Fluid Lines — Fluid Lin	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 3.00: 1 5.00: 1 n sealed 1 ratio) le from
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 3.00:1 5.00:1 in sealed 1 ratio) alle from to 100:1
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 15.00:1 n sealed 1 ratio) alle from to 100:1 33 lbs.
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention of tubes, hoses & tubes,	t on lift util flow fittings.  t driven 12 volt 12 volt 12 volt 15 volt 16 volt 17 volt 18 volt 19 vol
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention tubes, hoses & tubes, hos	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 15.00:1 n sealed 1 ratio) le from to 100:1 33 lbs. 4 quarts gallons
	Valves — Open center Fluid Lines — — — — — — — — — — — — — — — — — — —	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 15.00:1 n sealed 1 ratio) le from to 100:1 33 lbs. 4 quarts gallons
	Valves — Open center Fluid Lines — Positive of Power Transmission — Fluid Lines — Flui	type with float detention tubes, hoses & tubes, hos	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 13 volt 14 volt 15 volt 16 volt 17 volt 17 volt 18 volt
	Valves — Open center Fluid Lines — Fluid Lin	type with float detention tubes, hoses & tubes, hos	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 13 volt 14 volt 15 volt 15 volt 16 volt 17 volt 17 volt 18 volt
	Valves — Open center Fluid Lines — Fluid Lin	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 13 volt 14 volt 15 volt 15 volt 16 volt 17 volt 17 volt 18 volt
	Valves — Open center Fluid Lines — Positive of Power Transmission — Fluid Lines — Flui	type with float detention———————————————————————————————————	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 13.00:1 n sealed 1 ratio) alle from to 100:1 33 lbs. 4 quarts gallons gallons
	Valves — Open center Fluid Lines — Positive of Power Transmission — Fluid Lines — Flui	type with float detention tubes, hoses & tubes, hos	t on lift ull flow fittings.  t driven 12 volt 12 volt 12 volt 12 volt 13.00:1 n sealed 1 ratio) alle from to 100:1 33 lbs. 4 quarts gallons gallons

	2		
	Make		
	Model		
No.	Fuel	Gasoline o	r LP Gas
أس	Governed Flywheel Horsepo		
	Maximum Torque 57		
	Number of Cylinders		
	Bore & Stroke	•	
	Displacement		
	Ignition	12 volt di	stributor
	Cooling Medium		Air
	Lubrication	(	Oil Spray
	Lubricant Filtration Re	eplaceable eler	nent, full
		flow wit	th bypass
	Crankcase Ventilation	Internal breath	ning with
		sealed ca	arburetor
	Air Cleaner Replace	able dry cartri	idge type
		ith condition	
	LOADER HYDRAULIC	S	
	Pump E	-	
	Minimum Pump Capacity		
	System Relief Setting		
	Filtration Full flow or		
	with bypass, condition		
	•	aceable paper	
	Cylinders Doubleact	•	
			ear rings
	Function	Lift	Tilt
	Bore Diameter	2''	2"
	Rod Diameter	1-1/4"	1"
la.	Stroke	25"	16"
7	Valves Open center type v	vith float dete	nt on lift
Í	Fluid Lines	SAE standard	full flow
		tubes, hoses &	fittings.
	ELECTRICAL		
	Alternator ——— 22 am	•	
	Battery70		_
	Starter Positive engager	ment dustproo	f 12 volt
	POWER TRAIN		
	Transmission	Variable she	ave type
	Clutches 4 (2 each si		
	Dalmani Dadinasia		ubricated 3.00:1
	Primary Reductions		
	Secondary Reductions		
	Final Drive #60H roller	-	
		oil bath (2.92	-
	Total Engine to Wheel Redu		
		37.1	to 100:1
	CAPACITIES		
	Fuel (Gasoline) 10 gal	ions (IP Gas)	33 lhe
	Engine Lubricant including f		
	Hydraulic Reservoir & Final		
	Hydraulic System	2	o ganons
	TIRES		
	Standard Melroe	special bar 7:0	0 × 15-6
		ply steel c	
	COUNTEDWELCUT	,, 5100. 0	,
1	COUNTERWEIGHT		
J	Standard Cast Grill		100 lbs.
	MACHINE WEIGHT (Le	ss Bucket)	

Shipping (Gasoline) ----- 3170 lbs.

Shipping (LP Gas) ------3280 lbs.

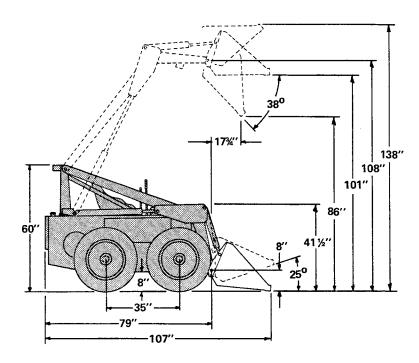
ENGINE (W-500	Cont'd)	
Make		
Model		K-66:
Fuel	Gasoline or	r LP Ga
Governed Flywheel Horse		
Maximum Torque	44.5 ft. lbs. @ 23	00 RPN
Number of Cylinders		
Bore & Stroke	<b>3</b> -5/8	3× 3-1/
Displacement	67.	2 cu. ir
Ignition	Distributor	Magnet
Cooling Medium		A
Lubrication		Pressur
Lubricant Filtration	Replaceable	eiemen
	full flow with	h bypas
Crankcase Ventilation -	Internal breath	ing wit
	sealed ca	rbureto
Air Cleaner Replaceab	le dry cartridge t	ype wit
	condition	ndicato
LOADER HYDRAUL	ics	
Pump	Engine driven g	ear typ
Minimum Pump Capacity	-	
System Relief Setting -		
Filtration Full flow		
with bypass, conditi		
r	eplaceable paper	elemen
Cylinders Doub	•	
•	_	ear ring
Function	Lift	Tilt
Bore Diameter	2"	2"
Rod Diameter	1-1/4"	1"
Stroke	25"	16"
Valves Open cer	ter type with floa	at deter
		on lif
Fluid Lines SAE	E standard full flo	w tube
	hoses &	fitting
ELECTRICAL		
		! ****
Alternator 30 am	•	
Battery	- 70 ampnr.ratin agement dustproo	
Starter ——— Positive enga	agement dustproo	T 12 VO
POWER TRAIN		
Transmission	Variable she	eave typ
Clutches 4 (2 eac	h side) single disc	pressu
	- Iu	bricate
Primary Reduction		- 3.00:
Secondary Reduction -		5.00:
Final Drive#60H	roller chain runn	ing in c
	bath (2.92	- 2:1 ratio
Total Engine to Wheel Re	eduction	-Variab
·	from 37.1	
CAPACITIES		
	callons II P C	1 33 11-
Fuel (Gasoline) 11	_	
Engine Lubricant Including	=	
Hydraulic Reservoir & Fir		
Hydraulic System	2	U gallo!
TIRES		
StandardMelroe s	special bar 7:00 x	15-6 p
	steel c	ap nylo
COUNTERWEIGHT		
		405
Standard Cast Grill		- 100 Ib
MACHINE WEIGHT (	Less Bucket)	
Shipping (Gasoline)		2940 lb
- FE 4 ( 1,1,1,1)		

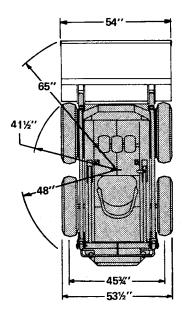
(M-444 ENGINE		
Make		
Model		•
Fuel		
Governed Flywheel Horse	power 15	5.5 @ 3000 RPM
Maximum Torque		
Number of Cylinders		
Bore & Stroke		,
Displacement		
IgnitionCooling Medium		
Lubrication		
Lubricant Filtration		•
	flow v	vith bypass
Crankcase Ventilation	Internal brea	athing with
	with sealed	carburetor
Air Cleaner Replaceab		e type with n indicator
LOADER HYDRAULI	ICS	
Pump	- Engine drive	n gear type
Minimum Pump Capacity		
System Relief Setting		
Filtration Full flow	on suction po	rt of pump
with bypass, conditi		
	epiaceable pap	
Cylinders Doubleacting	with letion s	
Function	Lift	rings Tilt
Bore Diameter	2"	2"
	_	_
Rod Diameter	1-1/4"	1"
Stroke	25"	16"
Stroke Valves — Open center typ	25" e with float de	16" tent on lift
Stroke Valves — Open center typ Fluid Lines SAE stand	25" e with float de	16" tent on lift ubes, hoses
Stroke Valves — Open center typ Fluid Lines SAE stand ELECTRICAL Generator	25" e with float de dard full flow t	16" stent on lift ubes, hoses & fittings
Stroke Valves — Open center typ Fluid Lines SAE stand  ELECTRICAL  Generator	25" se with float de dard full flow t 30 amp 70 amphr rat	16" tent on lift ubes, hoses & fittings
Stroke Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga	25" se with float de dard full flow t 30 amp 70 amphr rat	16" tent on lift ubes, hoses & fittings
Stroke Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga	25" The with float declard full flow to the flow	16" tent on lift ubes, hoses & fittings dustproof ing 12 volt oof 12 volt
Stroke Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Positive enganomers	25" The with float declard full flow to the full flow to the flow to the flow flow flow flow flow flow flow flow	16" tent on lift ubes, hoses & fittings dustproof ing 12 volt oof 12 volt
Stroke Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Positive enganomers	25" The with float declard full flow to the stand full flow to the standard flow to the standard full flow to the standard flow	16" tent on lift ubes, hoses & fittings dustproof ing 12 volt oof 12 volt
Stroke  Valves — Open center typ  Fluid Lines — SAE stance  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — Primary Reduction — Positive Primary Reduction — Primary R	25" The with float declard full flow to the dark full flow flow full flow flow full flow full flow full flow full flow full flow full flow flow full flow full flow full flow full flow full flow full flow flow full flow f	16" stent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type single disc a lubricated —— 3.00:1
Stroke  Valves — Open center typ  Fluid Lines — SAE stance  ELECTRICAL  Generator — Battery — Positive engate  POWER TRAIN  Transmission — Clutches — Primary Reduction — Secondary Reduction — Secondary Reduction — Clutches — Clutch	25" The with float declard full flow to the following the	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type single disc e lubricated
Stroke  Valves — Open center typ  Fluid Lines — SAE stance  ELECTRICAL  Generator — Battery — Positive engate  POWER TRAIN  Transmission — Clutches — Primary Reduction — Secondary Reduction — Secondary Reduction — Control of the seco	25" The with float declard full flow to the following the	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type l single disc e lubricated
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — Primary Reduction — Secondary Reduction — #60H	25" The with float declard full flow to the dark full flow to the dark full flow to the dark flow to the dark flow to the dark flow to the dark flow flow flow flow flow flow flow flow	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ) single disc e lubricated
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — Primary Reduction — Secondary Reduction — #60H	25" The with float declard full flow to the dark full flow to the dark full flow to the dark flow to the dark flow to the dark flow flow flow flow flow flow flow flow	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ! single disc e lubricated
Stroke  Valves — Open center typ  Fluid Lines — SAE stance  ELECTRICAL  Generator — Battery — Positive engal  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re	25" The with float declard full flow to the dark full flow to the dark full flow to the dark flow to the dark full flow to the dark flow full flow to the dark flow full flow flow full flow full flow flow flow full flow flow flow flow flow flow flow fl	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ) single disc e lubricated
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES	25" le with float de dard full flow t	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ! single disc = lubricated
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12	25" The with float declard full flow to the dark full flow flow full flow flow full flow full flow full flow full flow full flow full flow flow full flow full flow full flow flow full flow full flow flow flow full flow flow flow flow flow flow flow fl	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ! single disc e lubricated
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir	25" le with float de dard full flow to the dard	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ) single disc = 100:1 nning in oil 92:1 ratio) riable from .1 to 100:1 Gas) 33 lbs — 3 quarts
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir  Hydraulic Reservoir & Fir	25" le with float de dard full flow to the dard flow to the dar	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type single disce
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12 Engine Lubricant includir Hydraulic Reservoir & Fin Hydraulic System — SAE stand	25" le with float de dard full flow to the dard flow to the dar	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type single disce
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir Hydraulic Reservoir & Fir	25" e with float de dard full flow to dark flow to dar	16" Intent on lift ubes, hoses & fittings & fittings  dustproof ling 12 volt oof 12 volt oof 12 volt sheave type single disc dubricated ————————————————————————————————————
Stroke  Valves — Open center typ Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Primary Reduction — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir Hydraulic Reservoir & Fir Hydraulic System — TIRES	25" le with float de dard full flow to the dard flo	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ! single disc
Stroke  Valves — Open center typ  Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir  Hydraulic System — TIRES  Standard—Melroe special	25" e with float de dard full flow to dark flow to dar	16" tent on lift ubes, hoses & fittings . dustproof ing 12 volt oof 12 volt sheave type ! single disc
Stroke  Valves — Open center typ  Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includin  Hydraulic Reservoir & Fir  Hydraulic System — TIRES  Standard—Melroe special  COUNTERWEIGHT  Standard Cast Grill———	25" le with float de dard full flow to dard flow to da	16" Intent on lift ubes, hoses & fittings district district authorization sheave type single disc elubricated mingle disc elub
Stroke  Valves — Open center typ  Fluid Lines — SAE stand  ELECTRICAL  Generator — Battery — Positive enga  POWER TRAIN  Transmission — Clutches — #60H  Total Engine to Wheel Re  CAPACITIES  Fuel — (Gasoline) 12  Engine Lubricant includir  Hydraulic System — Hydraulic System — TIRES  Standard—Melroe special  COUNTERWEIGHT	25" le with float de dard full flow to dard flow to dard full flow to dard flo	16" Intent on lift ubes, hoses & fittings & fittings  dustproof ling 12 volt oof 12 volt oof 12 volt oof 12 volt oof 12 ratio) P2:1 ratio) P3:1 ratio P3:1

Shipping (LP Gas) -------31 10 lbs.

# LOADER SPECIFICATIONS

(Diesel)

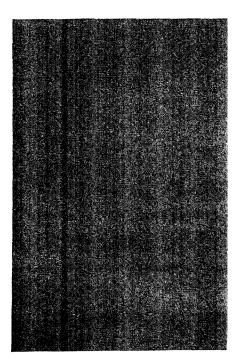




Dimensions are given for loader equipped with 3793-M dirt bucket and may vary with other bucket types.

Where applicable, specifications conform to IEMC & SAE standards and are subject to change without notice.





### **OPERATIONAL & PERFORMANCE**

Operating Weight ----- 4000 lbs. US Bureau of Mines Approved ---- 3700 lbs. Rated Operating Capacity -----1000 lbs. Lifting Capacity to Maximum Height ----- 1700 lbs. \_\_\_\_\_1830 lbs. Tipping Load ---Hydraulic Function Time: Raise to Maximum Height ------4.1 sec. Lower from Maximum Height -----2.6 sec. Dump Bucket ------1.6 sec. Rollback Bucket ------1.6 sec. Travel Speed ----- Infinitely variable to 4.4 MPH forward & reverse Controls: Vehicle ----- Forward, reverse & steering functions controlled by two hand levers. Travel Speed ------ Hand lever controlled, hydraulically adjusted variable sheave. Loader-- Lift, tilt & auxiliary functions controlled by separate foot pedals. Engine ---- Hand lever throttle, push button preheater & key type starter switch. (Cont'd)

(Petter)

### **OPERATIONAL & PERFORMANCE**

Operating Weight 4020 lbs.
Rated Operating Capacity 1000 lbs.
ifting Capacity to Maximum Height 1700 lbs.
Tipping Load 1830 lbs.
lydrautic Function Time:
Raise to Maximum Height4.3 sec.
Lower from Maximum Height 2.7 sec.
Dump Bucket1.7 sec.
Rollback Bucket1.7 sec.
ravel SpeedInfinitely variable to 5.7 MPH
forward & reverse
VehicleForward, reverse & steering
functions controlled by two hand levers.
Travel Speed Hand lever controlled
hydraulically adjusted variable sheave
Loader Lift, tilt & auxiliary functions
controlled by separate foot pedals.
EngineHand lever throttle & key type
starter switch.

(Cont'd)

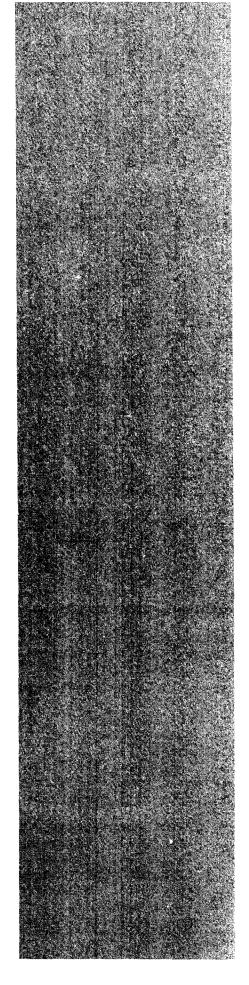
ENGINE	
Make	Deutz
Model	F2L410
	No. 2 Diesel
	sepower 24 @ 2700 RPM
	47.4 ft. lbs. @ 2200 RPM
	2
	3.59 x 3.94
·	78 cu. in.
-	Air
	Replaceable element,
Lubrication Filtration	full flow with bypass
Crnakcase Ventilation -	Filtered road vent
	placeable dry cartridge type
, o.oo,	with condition indicator
Preheater	Glow Plug
LOADER HYDRAU	LICS
Pump	Engine driven gear type
Minimum Pump Capaci	ty 9.2 GPM @ 2700 RPM
	1700 PSI
	ow on suction port of pump
with bypass, cond	ition indicator & 33 micron
	replaceable paper element.
Cylinders Doub	leacting with Teflon seals &
<b>_</b>	wear rings
Function	Lift Tilt 2" 2"
Bore Diameter Rod Diameter	1-1/4" 1"
Stroke	25" 16"
	ype with float detent on lift
	AE standard full flow tubes,
-	hoses & fittings
ELECTRICAL	hoses & fittings
ELECTRICAL	_
ELECTRICAL Alternator 2	22 amp. enclosed belt driven
ELECTRICAL Alternator	22 amp. enclosed belt driven 70 amphr. rating 12 volt
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven 70 amphr. rating 12 volt gagement dustproof 12 volt
ELECTRICAL  Alternator	22 amp. enclosed belt driven 70 amphr. rating 12 volt gagement dustproof 12 volt
ELECTRICAL  Alternator	22 amp. enclosed belt driven 70 amphr. rating 12 volt gagement dustproof 12 volt Variable sheave type ach side) single disc pressure
ELECTRICAL  Alternator ————————————————————————————————————	22 amp. enclosed belt driven 70 amphr. rating 12 volt gagement dustproof 12 volt Variable sheave type ach side) single disc pressure Jubricated
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission Clutches 4 (2 ea	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction Secondary Reduction	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction  Secondary Reduction final Drive #	22 amp. enclosed belt driven70 amphr. rating 12 volt gagement dustproof 12 volt
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction  Secondary Reduction final Drive #	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction Secondary Reduction Final Drive #  Solution = Final Drive #  CAPACITIES	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction Secondary Reduction final Drive #  Total Engine to Wheel F  CAPACITIES  Fuel Engine Lubricant included Hydraulic Reservoir & F  Hydraulic System H	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction 5  Secondary Reduction 5  Total Engine to Wheel F  CAPACITIES  Fuel Engine Lubricant included Hydraulic Reservoir & F  Hydraulic System TIRES	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction 5  Secondary Reduction 5  Total Engine to Wheel F  CAPACITIES  Fuel Engine Lubricant included Hydraulic Reservoir & F  Hydraulic System TIRES	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction 5  Secondary Reduction 5  Total Engine to Wheel F  CAPACITIES  Fuel Engine Lubricant included Hydraulic Reservoir & F  Hydraulic System TIRES	22 amp. enclosed belt driven
ELECTRICAL  Alternator 2  Battery Positive en  POWER TRAIN  Transmission 4 (2 ea  Primary Reduction \$  Secondary Reduction \$  Final Drive #  STOTAL Engine to Wheel F  CAPACITIES  Fuel Engine Lubricant included Hydraulic Reservoir & F  Hydraulic System TIRES	22 amp. enclosed belt driven
ELECTRICAL  Alternator ————————————————————————————————————	22 amp. enclosed belt driven
ELECTRICAL  Alternator ————————————————————————————————————	22 amp. enclosed belt driven
ELECTRICAL  Alternator ————————————————————————————————————	22 amp. enclosed belt driven

Shipping ----

----- 3570 lbs.

Shipping US Bureau of Mines Approved - 3810 lbs.

ENGINE	
•	Petter
	BA2R
	No. 2 Diesel
	rsepower 25 @ 3000 RPM
•	43 ft. lbs. @ 2400 RPM
	2.4.0.0.5.0
	3-1/2 x 3-5/8 70 cu. in.
•	/u cu. in.
•	Pressure
	Replaceable element,
	full flow with bypass
Crankcase Ventilation	
Air CleanerReplace	eable dry cartridge type with condition indicator
LOADER HYDRAU	JLICS
	Belt driven gear type
	ity 8.7 GPM @ 3000 RPM
	1700 PSI
	ow on suction port of pump
with bypass, cond	dition indicator & 33 micron
Cylinders	replaceable paper element. Doubleacting with Teflon
	seals & wear rings.
Function	Lift Tilt
Bore Diameter	2" 2"
Rod Diameter	1-1/4" 1"
Stroke	25'' 16''
Valves Open o	center type with float detent on lift
Fluid LinesS	AE standard full flow tubes
	hoses & fittings
ELECTRICAL	
	22 amp. enclosed belt driver
•	70 amphr. rating 12 vol
Starter Positive er	ngagement dustproof 12 vol
POWER TRAIN	
	Variable sheave type
Clutches 4 (2 e	ach side) single disc pressure
	lubricated
Primary Reduction	
· ·	5.00: 1 roller chain running in sealed
Final Drive #00HT	oil bath (2.92:1 ratio
Total Engine to Wheel	Reduction Variable from 37.1 to 100:1
CAPACITIES	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Fuel	11 gallons
	ding Filter 10-1/2 pints
	Final Drive Case 17 gallon
-	-
TIRES	
	elroe special bar 7:00 x 15-6
	•
Standard Me	ply nylon steel cap
Standard Me	elroe special bar 7:00 × 15-6 ply nylon steel car100 lbs

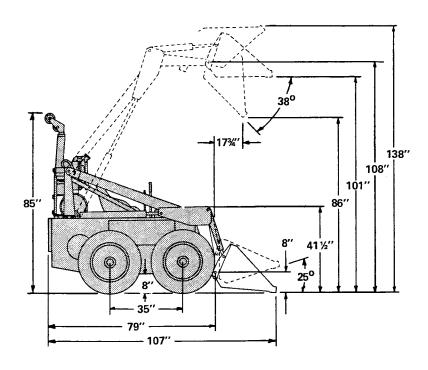


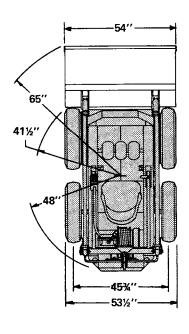
Shipping ---

----- 3600 lbs.

# LOADER SPECIFICATIONS

(Electric)





Dimensions are given for loader equipped with 3793-M dirt bucket and may vary with other bucket types.

Where applicable, specifications conform to IEMC & SAE standards and are subject to change without notice.

### **OPERATIONAL & PERFORMANCE**

Operating Weight 3315 lbs.
Rated Operating Capacity 1000 lbs.
Lifting Capacity to Maximum Height 1700 lbs.
Tipping Load 1840 lbs.
Hydraulic Function Time:
Raise to Maximum Height 5.0 sec.
Lower from Maximum Height 3.0 sec.
Dump Bucket2.0 sec.
Rollback Bucket 2.0 sec.
Travel SpeedInfinitely variable to 3.6 MPH
forward & reverse
Controls:
Vehicle Forward, reverse & steering
functions controlled by two hand levers.
Travel Speed Hand lever controlled,
hydraulically adjusted variable sheave.
Loader Lift, tilt & auxiliary functions
controlled by separate foot pedals.
Motor Push button start & stop switch.
MOTOR

Make ----- Reliance

ModelTEFC-XP Explo	sion Proof	Enclosure
	25	4 T Frame
Rated Horsepower	Con	tinuous 15
Breakcown Torque 20	0-250% @	1740 RPM
Operating Voltage 4	40 (3 phase	e) 60 cycle
Motor Classification Rating	Class 1	Group D;
C	Class 2, Gro	ups F & G
Insulation	NEMA "A"	Class "F"
Cooling Medium		Air
Cable ReelAutomatic retrac	tabie explo	sion proof
Rated Cable Capacity	- 50' of 10	gauge wire
LOADER HYDRAULICS		
Pump	Relt driver	n gear type
Minimum Pump Capacity - 7.		•
System Relief Setting		
Filtration Full flow on		
with bypass, condition is		22 miaran
	ndicator &	33 IIIICIOII
repla	ndicator & ceable pape	
Cylinders Doubleactin	ceable pape	er element.
	ceable pape ig with Tef	er element.
	ceable pape	er element. Ion seals &
Cylinders Doubleactin	ceable pape ig with Tef	er element. Ion seals & wear rings
Cylinders Doubleactin	ceable pape ig with Tef Lift	er element. Ion seals & wear rings Tilt

Valves — Open center type with float detent on lift Fluid Lines ————————————————————————————————————
POWER TRAIN
Transmission Variable sheave type
Clutches 4 (2 each side) single disc pressure
lubricated
Primary Reduction3.00:1
Secondary Reduction5.00:1
Final Drive #60H roller chain running in
sealed oil bath (2.92:1 ratio)
Total Motor to Wheel Reduction Variable from
37.1 to 100:1
CAPACITIES
Hydraulic Reservoir & Final Drive Case 17 gallons
Hydraulic System20 gallons
TIRES
Standard Melroe special bar 7:00 x 15-6
ply nylon steel cap
pry myton steer cap
COUNTERWEIGHT
Standard Cast Grill 100 lbs.

MACHINE WEIGHT (Less Bucket)

Shipping -----2900 lbs.

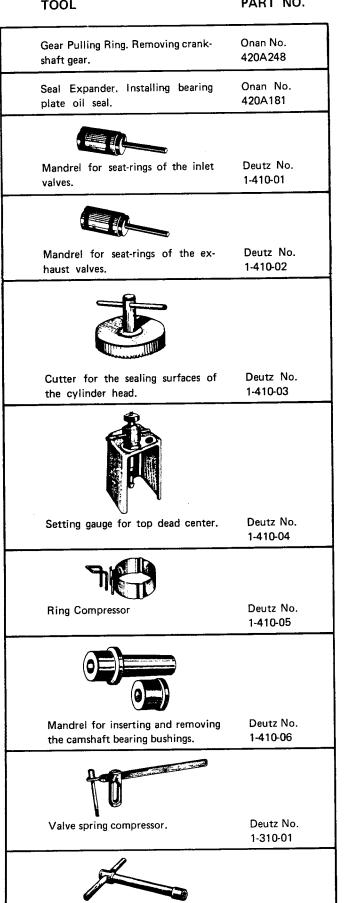
# SPECIAL TOOLS

PART NO. TOOL Axle Wrench. Used to loosen or Clark No. 6504947 tighten the axle sprocket holding nut on the axle. Clutch Wrench. Used to remove Clark No. or retighten the protective clutch 6502465 caps on the gearcase cover and is also used to adjust directional control lever travel. Clark No. Overcenter Tank Spreader. Used to move the outer wall of the 6502465 gearcase slightly away from the inner wall so the lower jackshaft can be removed and replaced easily. Spanner Wrench. Used to disas-Clark No. semble the hydraulic tilt and lift 6505060 cylinders. Also M-600 Gasoline and Diesel variable speed, new style. Pump Aligning Hub. Mounted to Clark No. the hydraulic pump mounting plate 6505352 during pump alignment (used with Onan and Kohler engine powered Bobcats). Aligning shaft for Kohler Engine Clark No. with Generator. Mounted to Kohler 6505351 Engine flywheel during hydraulic pump alignment. Aligning shaft for Kohler Engine Clark No. with alternator. Mounted to Kohler 6505357 Engine flywheel during hydraulic pump alignment. Aligning shaft for Onan Engine. Clark No. 6505353 Mounted to Onan Engine flywheel during hydraulic pump alignment. Ø Cylinder Seal Tool. Used to protect Clark No. hydraulic cylinder seals during re-6505365 assembly.

TOOL	

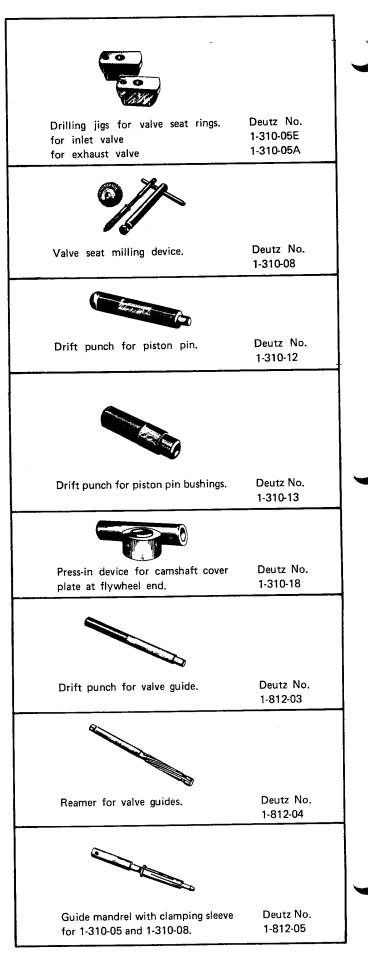
PART NO.

	<del> </del>
0	
Valve Seal Tool. Used to protect hydraulic control valve spool seaduring reassembly.	
	See an Owner's
Chain Tightening Bar. Used t	Manual for in- to structions on making this tool.
Insert Puller. Used to remove inloand exhaust valve seat inserts.	et Wisconsin No. DF-66-A
Guide Driver. Used for replacir valve guides.	ng Wisconsin No. DF-72
Wrench. Removing fuel valve sea (Wisconsin gasoline carburetor).	rt. Zenith No. C161-82
Wrench. Removing fuel bowl drain plug. (Wisconsin gasoline carburetor).	
Main Jet Wrench. Removing an reinstalling main jet. (Wisconsigasoline carburetor).	
Wrench. Removing main dischargiet. Removing choke shaft nu Wisconsin gasoline carburetor.	
Bushing Driver. Inserting chok shaft packing. Inserting thrott shaft packing. (Wisconsin gasolin carburetor).	le C161-72-1
Leaf Spring Gauge Set. Used for adjusting leaf spring lock screw in Final Regulator.	
Seat Wrench. Removing fuel values seat. Installing main jet. (Kohlogasoline carburetor).	
Aligning Studs. Installing dia phragm assembly (Kohler LP caburetor).	
Main Jet Wrench. Removing ma jet (Kohler LP carburetor).	in Zenith No. C161-193
Fuel Valve Lever Gauge. Adjus fuel valve lever. (Kohler LP ca buretor).	
Carburetor Wrench. Making idle a justment.	d- Onan No. 420B169



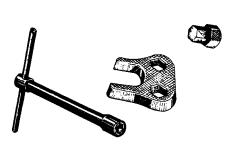
Socket wrench for cylinder head

bolts.



Deutz No.

1-310-02



Special wrench for removing and reinstalling nozzleholders.

Deutz No. 4605C 4605B 4605E



Swivelling clamping stand for cylinder heads.

Deutz No. 4622

Clamping plate for 4622.

4622A



Refacing device for cylinder seat face on crankcase.

Deutz No. 4663



Cylinder retaining device.

Deutz No. 4671



Socket spanner for big-end bolts.

Deutz No. 4672



Pull-in/out device for main bearings.

Deutz No. 4679



Pull-off device for end shield at flywheel end with 2 bolts and 2 washers also needed.

Deutz No. 4683



Gauge for reading tightening degrees.

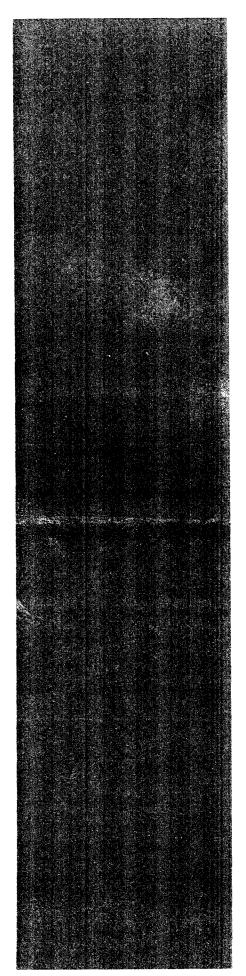
Deutz No. 4689



Piston ring plier for all sizes.

Deutz No. 8380

# MACHINE TORQUES



ITEM	RQUE LBS
Hydraulic Fluid Filter Container Nut	. 12
Split Jackshaft Connector Screws	. 20
Clutch Sprocket Screws	
Upper Jackshaft Locking Collar Set Screws	
Gearcase Cover Mounting Nuts	30
Tapered Bore Drive Sheave to Crankshaft	39
Lower Jackshaft (Large) Sprocket to Cluster Sprocket	
Axle Hub Mounting Nuts	
Upper Jackshaft Bearing Mounting Nuts	70
Upright Brace Mounting Nuts	
1/2" Inside Clutch Chain Tightener Nuts	
9/16" Inside Clutch Chain Tightener Nuts	
Wheel Mounting Screws	
Lower Jackshaft Mounting Screws	
Variable Speed Drive Sheave Retaining Nut	. 130
Upright Mounting Screws	
Clutch Pin Holding Nuts	

# SUGGESTED SERVICE TIME

DRIVE SYSTEM	HRS.
Remove and Replace One Gearcase Cover	.50
Remove and Replace One Clutch and Clutch Pin	2.50
Remove and Replace Both Clutches and Clutch Pins on a Side	3.50
Remove a Clutch for Thrust Bearing Replacement	1.00
Remove a Clutch and Replace Needle Bearings	1.50
Replace All Thrust Bearings on a Side	3.00
Drive Belt Replacement (Split Jackshaft)	.50
Drive Belt Replacement (One Piece Jackshaft)	4.50
Driven Sheave Removal and Replacement (Split Jackshaft	3.00
Driven Sheave Removal and Replacement (One Piece Jackshaft)	4.50
Driven Sheave Disassembly (Split Jackshaft) and Reassembly	.50
Driven Sheave Disassembly (Straight Jackshaft) and Reassembly	.50
Upper Jackshaft Bearing Replacement	1.50
Remove and Replace Variable Speed Drive Sheave (Onan or Kohler)	1.00
Variable Speed Drive Sheave on Engine (Modification)	2.00
Remove and Replace an Axle (Front)	2.50
Remove and Replace an Axle (Rear)	3.50
Remove and Replace an Axle Sprocket (Front)	2.50
Remove and Replace an Axle Sprocket (Rear)	3.50
Remove and Replace a Lower Jackshaft	3.50
Remove and Replace a Final Drive Chain	3.00
HYDRAULIC SYSTEM	
Replace Control Valve Seals on One Spool (Valve in Machine)	1.50
Replace Hydraulic Pump Shaft Seal	2.00
Hydraulic Pump Repair (Webster Pump)	2.00
Hydraulic Pump Repair (Cessna Pump)	2.00
Remove and Replace a Hydraulic Pump	2.00
Rebuild a Hydraulic Cylinder	1.00
Remove and Replace a Lift or Tilt Control Valve	3.00
Remove and Replace a Variable Speed Control Valve	.50
Hydraulic Pump Alignment (M-600 and M-500 Electric)	3.00
ENGINE	
Remove and Replace Engine in Bobcat	6.00
Grind Valves - Engine in Bobcat (Includes: Remove Heads, Reface, Reseat and Grind Valves, Check Springs, Clean Carbon,	
Adjust Tappets)	3.00
Grind: Valves and Replace Piston Rings	8.50
Engine Tune-Up with Engine in Bobcat (Includes: Clean and Adjust Carburetor, Replace and Adjust Ignition Points, Replace	
Condensor when Necessary, Retime Engine, Replace Plugs)	2.25
Replace Rear Oil Seal (V.S. End) Engine in Bobcat (Includes: Removal of Variable Speed Assembly)	1.00
Replace Front Oil Seal (Hydraulic Pump End)	4.50
Engine Overhaul (Includes: Complete Overhaul Replacing All Worn Parts, Repair Carburetor, Fuel Pump and Starter)	16.00
Engine Overhaul Using New Short Block	10.50

ENGINE (Cont'd)	HRS	
Carburetor Overhaul		0
Remove Magneto, Install Points, Condensor, Replace and Retime		5
Magneto Installation and Timing		0
Check and Adjust Timing		5
Replace Alternator Stator Assembly and Adjust	5.00	0
Remove and Replace and Adjust Governor (Kohler)		0
Remove and Replace Starter (Onan or Kohler)		0
Rebuild Starter (Onan, Kohler, Wisconsin)		5
Replace Generator Belt (Onan)		0
Replace Generator Belt (Kohler) Using 270928 Segmented Belt		0
Adjust Tappets (Onan or Kohler) Includes Removal of Manifold with Engine in E		0
L.P. Vaporizer - Primary Regulator Service		0
L.P. Final Regulator Service		0
Electric Fuel Pump Service	1.0	)0
FRAME		
Steam Clean for Painting	2.0	)0
Prime and Paint		)0
Change Tire		)0
Replace Cutting Edge of Dirt Bucket		00

# 50 HOUR CHECK

The 50 hour check list (Form No. TM-8387) and customer confirmation card (Form No. TM-8153 are sealed into a plastic bag and taped 'nside the boom upright cross member. The package is marked "Do Not Open Until 50 Hour Check".

At a time conveniently near 50 operating hours, Form No. TM-8387 will be filled out by the dealer service man as the 50 hour check is performed. The 50 hour check must be performed in the presence of the Bobcat owner or operator. When the service check is completed and the form filled, the form will be signed by both parties and dated.

The Bobcat owner or operator will complete the Form No. TM-8153 card and mail it to Melroe Division.

The Bobcat dealer should inform the new owner of the 50 hour check procedure at the time the new machine is delivered. The customer should be instructed to notify the dealer when 50 hours has been reached.

The 50 hour check should be performed in the dealer shop and whenever possible the customer should be persuaded to perform the necessary hauling.

Many dealers handle the 50 hour check in the following manner:

The dealer removes the spare hydraulic oil filter cartridge (15H624) from the Bobcat before delivery. He proposes this deal to the customer:

#### Dealer is to Supply

Free Service Check Hydraulic Oil Filter Engine Oil Filter Engine Oil Change

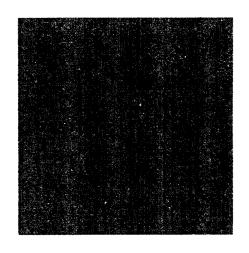
### Customer Responsibility

Make advance reservation for 50 hour check.

Hauls Bobcat to dealer shoo and back.

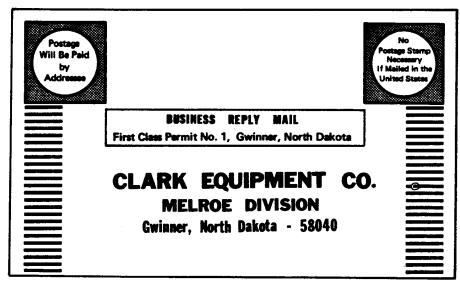
A conscientiously performed 50 hour check can produce a wealth of benefits, such as:

- Faulty maintenance and operating practices can be found out and corrected.
- Proper adjustments and inspection after the initial wear in period can prevent future emergency service.
- A 50 hour check demonstrates proper service procedures to the customer.
- At the time of the 50 hour check, the dealer may display and demonstrate additional or new attachments.



PLEASE FILL OUT AND RETURN DEALER'S NAME	Date	
OWNER'S NAME		
CITY STATE		ZIP
Has Our Dealer Performed the 50 Hour Inspection?	YES 🔲	NO 🔲
Are You Getting Prompt, Efficient Service?	YES 🔲	NO 🗌
COMMENTS:		
SIGNATURE	POSITION	
TM-8153 (7-71)-5M-J		Printed in U.S.A.

Customer Confirmation Card (Back)



Customer Confirmation Card (Front)



# **50-HOUR CHECK LIST**

M-371, M-444, M-500 & M-600 MELROE BOBCAT LOADER 2456783

Machine Serial Number

0054.8

Hour Meter Reading

June 20, 1971

Date 50-Hour Check Performed

CLARK EQUIPMENT COMPANY
Melroe Division, Gwinner, North Dakota 58040

IMPORTANT: The following checks are to be performed with the operator and maintenance man present.

_	 •	SS	_

- 1. (X) Pivot pins and retianing screws for tightness.
- 2. (X ) Demonstrate and properly lubricate all fittings.
- 3. (X) Wheel lug bolts for tightness.
- (X) Tire pressure. (Regular 45 50 PSI; Flotation -20 - 25 PSI).
- (X) Tire diameter. (Same diameter tires on one side Rotate if necessary).

#### DRIVE

- (X) Drive chain tightness. (Demonstrate checking procedure by raising all four wheels off ground).
- (X) Tightening drive chains. (Demonstrate proper chain tightening procedure).
- (X) Clutch levers for distance of movement and equal travel. (Demonstrate proper adjustment).
- 4. (x) Gearcase for leaks.
- (x) Gearcase oil level. (Add Dexron or ATF type "A" if needed).

#### **ELECTRICAL**

- 1. (X) Battery water level.
- 2. (X) Alternator/generator function.
- (X) Alternator/generator belt tension. (Oil if applicable).

#### **HYDRAULICS**

- 1. (X) Change hydraulic oil filter cartridge.
- (X) Hydraulic connections for leaks and cylinder glands for tightness. (Remove any nicks from cylinder rod).
- 3. (X) System relief pressure. (M-444, M-500 & M-600 1700 PSI ± 25 PSI) (M-371 1400 PSI ± 25 PSI).
- (X) Variable speed hydraulic pressure. All except M-371.
   (400 PSI Raising; 600 PSI Holding).

#### **ENGINE**

- (X) Air cleaner condition indicator and inlet system for leaks. (Change cartridge if condition indicator so reads).
- (X) Change engine oil. (Use engine manufacturer's recommended oil).
- 3. (X) Change engine oil filter. (All except M-371).
- 4. (X) Engine tune up:
  - (X) Plugs
  - (X) Points
  - (X) Timing
  - (x) Adjust valve tappets
  - (X) Head bolts (Retorque)
  - (X ) Inspect crankcase breather for proper functioning. (All except Petters).
  - (x) Engine RPM High. idle

2400 RPM - Wisconsin

2700 RPM - Deutz

3000 RPM - Onan, Kohler & Petters

3100 RPM - Kohler (M-371 Only)

The above service was performed with the operator and/or maintenance man present to insure his knowledge of the proper procedures.

This 50-Hour Check was performed by Serviceman Signature

Dealer Name Bob's Bobcat Company	Customer Name P. Q. Public
Address 2300 W. Sunset Drive	Address 410 Oak Drive
City West State N. D. zip 590715	City Notown State N. D. Zip 58075
Dealer Representative Signature	Owner/Operator Signature

-236-

Double Mobilesoniani organica

Printed in U.S.A.

TM-8387 (3-71)-6M-C



### CLARK EQUIPMENT COMPANY

Melroe Division, Gwinner, North Dakota 58040

### DELIVERY REPORT

Machine Model M- 600	
Machine Serial No.	
Engine Serial No.	
Date Machine Delivered Tune 10, 1971	

Desier Name Bob's Bobcat Company	Owner Name P. Q. Public
Address 2300 W. Sunset Drive	Address 410 Oak Drive
City West State N. D. zip 590715	city Notown State N. D Zip 580751
Nature of Owner's Business Sand and Gravel Digging	
Type of operation machine will be used for * Loading a	nd leveling
f machine is used in Dealer Rental Fleet, please check here	
Time spent on delivery 2 days	
Upon Delivery the Following Were Explained and Checked:	
X Need for study of operator's manual.	Starting and stopping machine.
X All parts transactions are to be handled with distributor using machine serial number, part number	Care of hydraulic system and/or hydrostatic systems.
and description.  X Effect of overloading and improper counterweighting.	Safety precautions. I have had the option to purchase additional safety equipment (operator guards, warning lights, etc.)
X Lubrication of entire machine.	Check if parts book operator's manual, engine man- ual, tools, and bucket pins were received.
Care and adjustments of clutches and/or transmission.	·
X Care and adjustments of operating linkages.	Extra Gresen oil filter cartridge included (to be changed within first 50 hours). (M-444, M-500, and M-600 only).
Demonstrate checking and adjustment of final drive chains.	X Explain 50 hour check procedure.
Feel Satisfied I Thoroughly Understand the Operation and	Maintenance of the Machine.
Fune 12, 1971 Go O. Gallier	Rich Rose
(Date) (Owner or Operator's Signature)	
IOTE: A follow up call is to be made by the dealer after the first fifty hour check list.    Neat and couresty service	
emarks: Neat and couresty service	
Please check the appropriate square on the back of this sheet.	

# **ENGINE REMOVAL & REINSTALLATION**

WISCONSIN	KOHLER	ONAN	DEUTZ	PETTER
REMOVE: Seat Engine cover Variable speed sheave Door, hinges & cross- member below door Engine mount screws Bellypan on pulpwood	REMOVE: Seat Engine cover Variable speed sheave Grill & crossmember below it Engine mount screws	REMOVE: Seat Engine cover Variable speed sheave Counterweight Engine mount screws	REMOVE: Seat Engine cover Variable speed sheave Counterweight Engine mount screws Engine oil filter mount- ing screws Bellypan	REMOVE: Seat Engine cover Variable speed sheave Counterweight & cross- member below it Engine mount screws Hydraulic pump drive belt
DISCONNECT: Fuel line Choke linkage Throttle linkage Air cleaner hose Wiring harness Hydraulic lines at pump	DISCONNECT: Fuel line Choke linkage Throttle linkage Air cleaner hose Battery cable Wiring from: Magneto Starter Fuel pump Regulator Sending units	DISCONNECT: Fuel line Choke linkage Throttle linkage Air cleaner hose Battery cable Wiring from Generator Distributor Sending unit Regulator	DISCONNECT: Fuel line Fuel shut-off linkage Throttle linkage Air cleaner hose Battery cable Wiring from Preheater solenoid Generator Starter Sending units Regulator Hydraulic lines at pump	DISCONNECT: Fuel line Fuel shut-off linkage Throttle linkage Air cleaner hose Battery cable Wiring from: Alternator Starter Sending unit Regulator
LOOSEN:	LOOSEN: Hydraulic pump adapt- er set screw	LOOSEN: Hydraulic pump adapt- er set screw	LOOSEN:	LOOSEN:
NOTE: Plug the hydraulic pump lines and tie away from engine.		NOTE: Slide the engine away from the pump on its mounts.	NOTE: Turn the engine so the pump end is toward the rear. Plug the hydraulic pump lines.	NOTE:
LIFT AT: Manifold	LIFT AT: Manifold	LIFT AT: Manifold	LIFT AT:	LIFT AT: Oil Filler Caps
				Lifting Tool:
				1-1/8"-4-7/8"

# ENGINE REINSTALLATION (Cont'd):

WISCONSIN	KOHLER	ONAN	DEUTZ	PETTER
RECONNECT: Hydraulic lines at the pump Battery cable Wiring harness Air cleaner hose Throttle linkage Choke linkage Fuel line	RECONNECT: Wiring Battery cable Air cleaner hose Throttle linkage Choke linkage Fuel line	RECONNECT: Wiring Battery cable Air cleaner hose Throttle linkage Choke linkage Fuel line	RECONNECT: Hydraulic lines at pump Wiring Air cleaner hose Air cleaner hose Throttle linkage Fuel shut-off linkage fuel line Engine oil filter	RECONNECT: Wiring Battery cable Air cleaner hose Throttle linkage Fuel shut-off linkage Fuel line
REINSTALL: Engine mount screws Rear crossmember Variable speed sheave Engine cover Seat	REINSTALL: Engine mount screws Variable speed sheave Engine cover Seat Hydraulic pump adapter set screw	REINSTALL: Engine mount screws Variable speed sheave Engine cover Seat Hydraulic pump adapter set screw	REINSTALL: Engine mount screws Variable speed sheave Engine cover Seat	REINSTALL: Hydraulic pump drive Engine mount screws Variable speed sheave Engine cover Seat
CHECK: Variable speed belt alignment	CHECK: Variable speed belt alignment Hydraulic pump align- ment	CHECK: Variable speed belt alignment Hydraulic pump align- ment	CHECK: Variable speed belt alignment	CHECK: Variable speed belt alignment
920				

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