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Near Syracuse NY

315-687-7891

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MF1700 Series Compact Tractors

Pocket Guide

This pocket guide is formatted for optimal viewing on your tablet and/or mobile device.

Updated: 03/2014

1700E Series

<https://truckinmud.com/>



Model Overview

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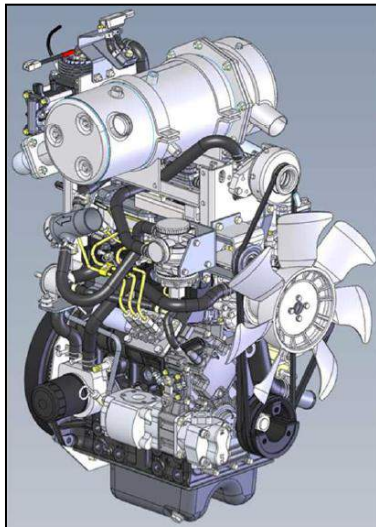


Model	1726E	1734E	1739E
Engine HP (kW)	24 (17.9) @ 2600 RPM	34 (25.3) @ 2600 RPM	38.5 (28.7) @ 2800 RPM
PTO HP (kW)	Gear: 20.4 (15.2) HST: 19.2 (14.3)	Gear: 29.0 (21.6) HST: 27.2 (20.3)	Gear: 32.8 (24.5) HST: 30.9 (23.0)
Engine Type	Shibaura 1.5L 3-cylinder Diesel, Tier 4		
Transmission	9x3 Constant Mesh / 3-range Hydrostatic (HST)		
Hydraulics	6.7 gpm (25.5 Lpm)		7.2 gpm (27.3 Lpm)
Configuration	4wd only; Open Platform with ROPS		



Common Shibaura Engine in All Models

- Model N843T-F 3-cylinder engine
- Manufactured by Shibaura (Japan)
- 1.5 liter (91.5 cu in) displacement
- Turbocharged
- Indirect injection, individual unit injectors
- Electronic engine management
- Structural block. Side support rails included when loader is installed
- Hand throttle on all models, foot throttle on gears models
- EPA Tier 4 Final emissions compliant





EPA Tier 4i Emissions Compliant

- Exhaust Gas Recirculation (EGR)
- Diesel Oxidation Catalyst (DOC)
- Diesel Particulate Filter (DPF)
 - *No DOC/DPF in 1726E models*
- DPF Cleaning/Regeneration
 - Fully automated
 - Requires no operator input
 - No change in tractor operation (under normal regeneration process)
 - Regeneration interval depends on machine use.



Transmission

Gear: 9x3 Constant Mesh

- 3 ranges, non-synchronized, left side in-line hand lever
- 3 gears + Reverse, non-synchronized, lever centered under steering wheel
- Dry disc main clutch
- Foot clutch pedal left side floor



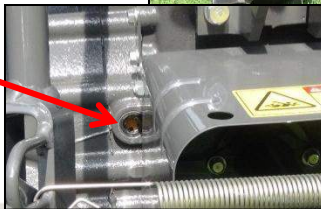
HST: 3-Range Hydrostatic

- Left side in-line range lever
- Heel-toe rocker pedal, right side
- Dry disc main clutch
- Foot clutch pedal right side floor



Heavy Duty Cast Steel Rear Axle

- Bull-gear reduction with flange
- Internal wet disc brakes
 - Mechanically engaged
- Individual LH and RH brake pedals
- Parking brake via brake pedal lock
- Mechanical rear differential lock
 - Right heel pedal engagement
- Sight glass oil level check



Mechanical 4wd Front Axle

- Solid cast steel construction
- Bevel gear design
 - High ground clearance
 - High steering angle (52 degrees)
- Hydrostatic power steering
 - Double-end hydraulic cylinder
- Center driveline, open differential
 - 6-8 degrees of even axle oscillation
- Mechanical engagement via hand lever
- 4-wheel braking when engaged



Power Take Off



Rear Power Take Off (PTO)

- 540 RPM PTO standard
 - 6-spline 1 3/8" 540 shaft
- Two types of PTO's available
 - Transmission driven
 - Independent
- Mechanically engaged via levers



Transmission Driven	Independent
540 PTO Speed	540 PTO Speed
2455 Engine RPM	2455 Engine RPM

Power Take Off



Transmission Driven PTO

- Dependent on main transmission clutch
 - Press foot clutch – PTO and transmission disengages
 - Release foot clutch – PTO and transmission engages
- Hand lever selects PTO gear
 - Main clutch must be pressed
- Overrunning clutch in PTO allows implement to “coast” to a stop



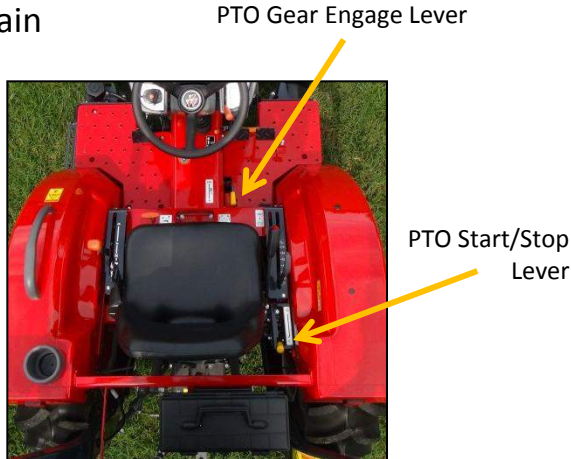
Power Take Off

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Independent PTO

- PTO driveline independent of main transmission clutch
 - No foot clutch required for operation
- Hand lever selects PTO gear
 - Lever located on right side floor area
- Second hand lever starts PTO
 - Mechanical clutch
 - Simple on/off operation





Open Center Hydraulic System

- Two gear-type pumps
 - Steering and implement
- 2130 PSI operating pressure
- Up to 2 rear remote valves available
 - Field installed only
- Available loader valves and joystick
 - Attach to loader mounts
 - Field installed with loader



Model	Steering Flow	Implement Flow	Total Flow
1726E / 1734E	3.8 gpm	6.2 gpm	10.0 gpm
1739E	4.1 gpm	6.6 gpm	10.7 gpm

3-Point Hitch

<http://truckandtrailer.com/>

Rear 3-Point Hitch

- ASAE Category I hitch
- Mechanical control, right hand
 - Position control only
- Screw-adjust stabilizers
- Fixed ball ends
- Single lift arm height adjustment
- Adjustable top link
 - Length and position



Lift Capacity	@ Ball Ends	@ 24"
Standard	2,205 lb (1000 kg)	1,598 lb (725 kg)

Operator's Area

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Standard Platform Features

- Left side step/handle for entry
- Semi-flat platform, perforated steel foot deck for durability
- Steel fenders
- Folding ROPS with marker lights
- Fixed Steering
- Suspended vinyl seat with retractable seatbelt
- Analog and digital front dash
- Pedestal foot pedals
- Intuitive layout of controls



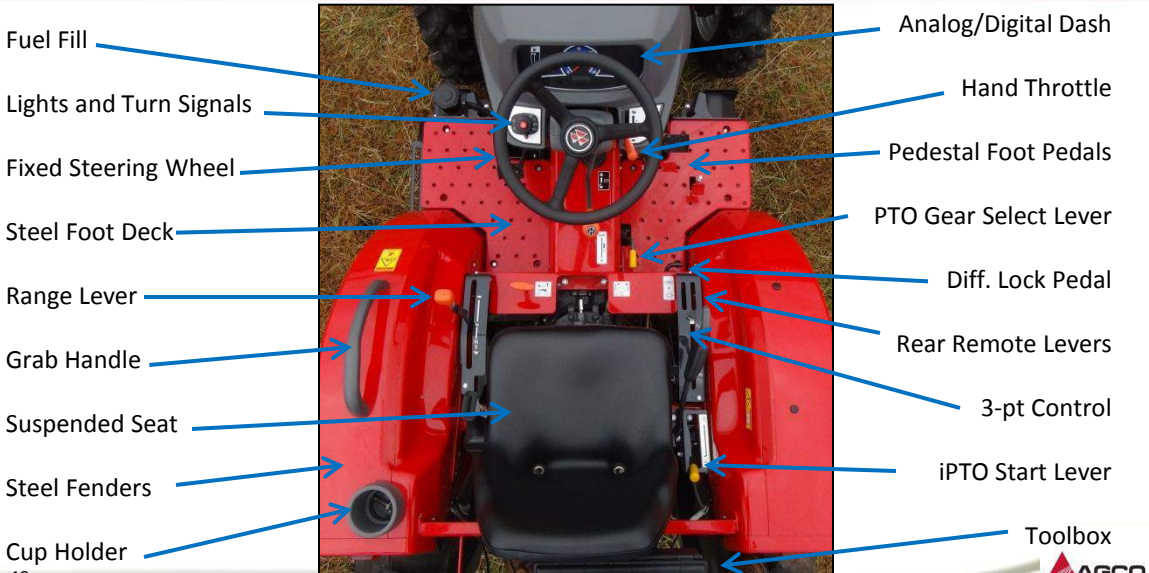
Operator's Area

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1700E Series

Operator's Area



Service Items

- 10 gallon fuel tank under platform – ground level fill
- Single piece raising steel hood with simple pull latch
- Easy access to:
 - Engine oil check
 - Engine air filter
 - Battery
 - Radiator cleaning
 - Transmission check
 - Rear axle sight glass





Loader Features

- L100 Front loader
- Simple straight boom design
- Quick attach main frame
- Built-in parking stands
- Joystick mounted to loader sub-frames
- Quick-connect valves
- Sub-frame rails for added strength
- Can be factory installed





Loader Tools

- Direct connection to bucket
- Bucket level indicator
- Grill guard
- Pin type or skid steer quick attachment for tools
- Tools available:
 - Buckets
 - Pallet forks
- Accessories
 - Rear weight frame
 - Rear ballast box





CB10 Backhoe

- CB10 backhoe fits all 1700E Series tractors
- Sub-frame mounts to rear axle
 - Durability and long life
- Field installed only
- Quick attach design for removal
- Separate, dedicated seat
- Boom float control standard
- Requires 1 rear hydraulic valve



Backhoe	Tractor	Dig Depth	Dig Force	Max. Reach
CB10	1700E Series	90 in	3,250 lbs	112 in

Above values measured at pivot pins



5-year Factory Warranty

- 2 years / 2,000 hour full coverage
- 5 years / 2,000 hour powertrain coverage
- Industry-leading coverage
- Administered by AGCO
 - Not aftermarket
 - Same claim process as all other AGCO products





Performance

	1726E	1734E	1739E
Rated Engine HP (kW)	24.0 (17.9)	34.0 (25.4)	38.5 (28.7)
Rated Engine Speed	2600 RPM		2800 RPM
Rated PTO HP (kW)	20.4 (15.2) gear, 19.2 (14.3) HST	29.0 (21.6) gear, 27.2 (20.3) HST	32.7 (24.4) gear, 30.8 (23.0) HST
Rated Torque	TBA	68.8 lb ft @ 2600 RPM	72.2 lb ft @ 2800 RPM
Maximum Torque	TBA	82.6 lb ft @ 1600 RPM	82.6 lb ft @ 1600 RPM
Torque Rise	TBA	20.1%	14.4%





Engine

Make	IHI Shibaura Machinery
Model	N843T-F
Cylinders	3
Bore x Stroke	3.31" x 3.54"
Displacement	1.5 L (91.3 in ³)
Compression	22.5:1
Intake	Single stage dry
Aspiration	Turbocharged
Injection	Indirect, low pressure
Valves	2 / cylinder
Engine Control	Electronic
Low / High Idle	975 RPM / 2835 RPM

EPA Compliance	Tier 4
Emissions Components	Internal EGR, DPF
Diesel Particulate Filter	Ceramic wall flow type
Regeneration Modes	Active / Passive
Regeneration Control	Automatic
Starting Aid	Glow plug
Alternator	65 amp
Starter	12 V, 1.7 kW
Battery	600 CCA
Bio Diesel Content	B5 maximum

1726E model achieves Tier 4 emissions levels without the need for a DOC or DPF.



Transmission

Mechanical Transmission		Hydrostatic Transmission (HST)	
Type	Constant Mesh	Type	Variable swash plate
Gears	3 forward, 1 reverse; all non-synchronized	Speeds	Infinite
Ranges	3, non-synchronized	Ranges	3
Clutch Type	Dry single disc	Clutch Type	Dry single disc
Disc Diameter	8.6 in (225 mm)	Disc Diameter	8.6 in (225 mm)
Gear Shift Lever	Center of platform	Range Lever	Left side, in-line
Range Lever	Left side, in-line	HST Controls	Mechanical; heel / toe rocker pedal
Forward Speeds	9	Cruise Control	None
Reverse Speeds	3	Foot Pedals	Clutch, brakes
Foot Pedals	Clutch, brakes, throttle		



Axles

Rear Axle Type	Cast Steel Flange
Reduction	Bull gear
Differential Lock	Mechanical, foot pedal
Brakes	Internal wet disc
Brakes Actuation	Mechanical
Front Axle Type	4wd only
4wd Reduction	Bevel gear
4wd Engagement	Mechanical lever
4wd Lead Ratio	1.5167
Steering	Hydrostatic
Steering Angle	52 degrees
Parking Brake	Uses foot brakes

Hydraulic System

System Type	Open center, gear pump
System Pressure	2,132 psi (147 bar)
Implement Flow gpm	1726E/1734E = 6.2 gpm 1739E = 6.6 gpm
Steering Flow	1726E/1734E = 3.8 gpm 1739E = 4.1 gpm
Rear Valves	Up to 2
3-point Hitch Type	ASAE Category 1
Ball Ends	Fixed
Adjustment	Single lift arm
Control	Position only
Lift Capacity @ 24"	1598 lbs
Lift Capacity @ Balls	2205 lbs

Specifications

<http://truckmanualsclub.com/>


Speed Chart (MPH) with Mechanical Transmission

Shift Position	Tires	1726E/1734E Mechanical Transmission			1739E Mechanical Transmission		
		R1 Ag.	R3 Turf	R4 Ind.	R1 Ag.	R3 Turf	R4 Ind.
	Front	7-16	27x8.50-15	27x8.50-15	7-16	27x8.50-15	27x8.50-15
	Rear	11.2-24	38x14.00-20	15x19.5	11.2-24	38x14.00-20	15x19.5
Range	Gear	Forward Speed (MPH) @ Rated Engine RPM					
Low	1	1.00	0.88	0.90	1.07	0.94	0.97
	2	1.39	1.22	1.25	1.50	1.31	1.35
	3	1.92	1.68	1.73	2.07	1.81	1.86
Medium	1	2.60	2.28	2.34	2.80	2.45	2.52
	2	3.61	3.16	3.25	3.88	3.41	3.50
	3	4.99	4.37	4.49	5.37	4.71	4.83
Hi	1	6.40	5.61	5.76	6.89	6.05	6.20
	2	8.88	7.79	7.99	9.56	8.38	8.61
	3	12.28	10.77	11.05	13.22	11.59	11.90
Max. Speed (Max. Throttle)		13.26	11.63	11.94	14.29	12.53	12.86
Range	Gear	Reverse Speeds (MPH) @ Rated Engine RPM					
Low	Reverse	1.16	1.01	1.04	1.25	1.09	1.12
Medium	Reverse	3.01	2.63	2.70	3.24	2.84	2.91
High	Reverse	7.40	6.49	6.66	7.97	6.98	7.17



Speed Chart (MPH) with Hydrostatic Transmission

Shift Position	1726E/1734E HST Transmission			1739E HST Transmission		
	R1 Ag.	R3 Turf	R4 Ind.	R1 Ag.	R3 Turf	R4 Ind.
	7-16	27x8.50-15	27x8.50-15	7-16	27x8.50-15	27x8.50-15
	11.2-24	38x14.00-20	15x19.5	11.2-24	38x14.00-20	15x19.5
Range	Forward Speed (MPH) @ Rated Engine RPM					
Low	3.72	3.26	3.34	4.00	3.51	3.60
Medium	6.05	5.31	5.45	6.52	5.72	5.87
Hi	13.62	11.94	12.26	14.66	12.86	13.20
Max. Speed	14.72	12.91	13.25	15.84	13.89	14.26
Range	Reverse Speeds (MPH) @ Rated Engine RPM					
Low	2.89	2.54	2.60	3.11	2.73	2.80
Medium	4.71	4.13	4.24	5.07	4.45	4.56
High	10.59	9.29	9.53	11.41	10.00	10.27

Specifications



Rear PTO

PTO Speed	540 RPM only
PTO Shaft Design	1 3/8 inch, 6-spline
Engine @ 540 PTO Speed	2455 engine RPM
PTO Gear Selection	Mechanical, hand lever
PTO Speed Indicator	None

Transmission Driven PTO

PTO Engagement	Foot clutch pedal
Overrunning Clutch	Standard
Compatible Models	1726E / 1734E / 1739E HST

Independent Driven PTO

PTO Engagement	Foot clutch pedal
Compatible Models	1739E gear

Fluid Capacities

Engine Crankcase Oil	4.9 qts (4.6 L)
Cooling System	5.3 qts (5 L)
Coolant Type	50/50 Mix
Fuel Tank	10 gal (38 L)
Transmission	10 gal (38 L)
4wd Axle	5.9 qts (5.6 L)
Grease Type	Lithium Base #2

Miscellaneous

Max. Operating Angle	20 degrees
Turning Radius	9.2 ft (2.8 m) w/ R1
Electrical Socket	None



Axle Weight Capacities and Ground Clearance

	1726E / 1734E	1739E
Front Axle Capacity	2,205 lb (1000 kg)	2,205 lb (1000 kg)
Rear Axle Capacity	2,205 lb (1000 kg)	2,205 lb (1000 kg)
Total Machine Capacity	4,409 lb (2000 kg)	4,409 lb (2000 kg)

Tire Sizes (front/rear)

4wd R1 Ag Tires	7-16 6 ply / 11.2x24 4 ply	7-16 6 ply / 11.2x24 4 ply
4wd R3 Turf Tires	27x8.50-15 4 ply / 38x14.00-20 4 ply	27x8.50-15 4 ply / 38x14.00-20 4 ply
4wd R4 Industrial Tires	27x8.50-15 6 ply / 15x19.5 6 ply	27x8.50-15 6 ply / 15x19.5 6 ply

Tread Spacing

Tire Type	R1 Ag Tires	R3 Turf Tires	R4 Industrial Tires
Tread Spacing (front / rear)	42.7 in / 45.1 in	40.0 in / 43.5 in	42.7 in / 45.1 in



Tractor Dimensions

	1726E	1734E	1739E
Overall Length	116.5 in (2960 mm)	116.5 in (2960 mm)	116.5 in (2960 mm)
Min. Width w/ R1 Tires	52.4 in (1330 mm)	52.4 in (1330 mm)	52.4 in (1330 mm)
Min. Width w/ R3 Tires	58.1 in (1475 mm)	58.1 in (1475 mm)	58.1 in (1475 mm)
Width at Rear Fenders	49.5 in (1257 mm)		
Wheelbase	65.9 in (1675 mm)	65.9 in (1675 mm)	65.9 in (1675 mm)
Height Over ROPS w/ R4	94.9 in (2410 mm)	94.9 in (2410 mm)	94.9 in (2410 mm)
Height Over ROPS Folded w/ R4	71.0 in (1803 mm)	71.0 (1803 mm)	71.0 (1803 mm)
Height to Foot Deck w/ R4	25.0 in (635 mm)		
Height to Steering Wheel	57.0 in (1448 mm)		
Ground Clearance w/ R4	9.0 in (229)		
Weight 4wd ROPS Gear	2600 lb (1180 kg)	2734 lb (1240 kg)	2756 lb (1250 kg)
Weight 4wd ROPS HST	2657 lb (1205 kg)	2789 lb (1265 kg)	2767 lb (1255 kg)

Specifications

<http://truckmanualsclub.com/>



Loader Capacities

Loader Model	L100
Lift Height @ Pivot	97 in
Lift Capacity @ Pivot	1202 lbs
Breakout Force @ Bucket Edge	1313 lbs
Rated Hydraulic Pressure	2132 PSI
Maximum Dump Angle	34 degrees
Maximum Bucket Rollback Angle	13 degrees
Tractor Compatibility	1726E / 1734E / 1739E
Tool Attachment Method	Pin-type or universal skid steer quick attach
3 rd Function Capability	None

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