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<sup>\*</sup> New Sections
\*\* Revised Sections

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<sup>\*</sup> New Sections

<sup>\*\*</sup> Revised Sections

# Section 1000

# **GENERAL SPECIFICATIONS**85 Series Tractors

#### HAND SIGNALS

For communication under noise conditions and for special operations, a system of standard hand signals has been devised which can decrease time loss and prevent accidents.

#### Start the Engine



Move arm in a circle at waist level.

#### Stop the Engine



Move your right arm across your neck from left to right.

#### Move Toward Me - Follow Me



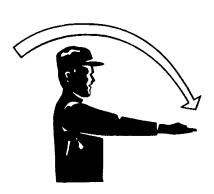
Look toward the person or vehicle you need to move. Hold one hand in front of you with the back of the hand toward the machine and move your arm from the elbow to the fingers backward and forward.

#### This Far To Go



Put your hands in front of your face with the backs of your hands outward. Move your hands in or out as an indication of how far to go.

#### **Move Out**



Face in the required direction of travel. Put your arm straight out behind you, then swing your arm over your head and forward until your arm is straight out in front of you with the back of your hand up.

#### Come To Me



(Can also be "Come to me because I need your assistance"). Lift your arm vertically over your head with the back of your hand to the rear and turn your arm in large horizontal circles.

#### **Decrease Speed**



Put your arm out horizontally with the back of your hand up, then move your arm down about 45° minimum many times. Keep your arm straight and do not move your arm above your shoulder.

#### **Increase Speed**



Lift your hand to shoulder level with your fingers closed. Move your closed hand fully up, then return to shoulder level.Do this quickly, many times.

#### Raise Equipment



Point up with one finger and at the same time, move your hand in a circle at head level.

#### **Lower Equipment**



Point to the ground with one finger and at the same time move your hand in a circle.

#### Stop



Raise your hand fully up with the back of your hand to the rear. Keep this position until the signal is understood.

#### SERIAL NUMBERS

Compiled in this manual are the operating and maintenance instructions for the 85 Series Agricultural Tractors

When in need of service parts always quote the tractor, transmission unit, and engine serial numbers, including prefix and suffix letters.

If information is required that is not available in this manual see the nearest authorized Case Dealer.

#### Transmission Serial Number

**EXAMPLE: 293805 BTY** 

The suffix letters. BTY denote the build of the unit.

The first letter denotes the type of drive train, B = fast speed transmission, A or D = slow speed transmission.

The second letter denotes the bevel gear ratio,

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T = 11:52, S = 14:51 and R = 12:53.
```

The third letter denotes the operating speeds for the PTO and the number of splines on the upper and lower shafts as shown below.

U = 555 r/min 6 splines upper shaft V = 1000 r/min 6 splines lower shaft W = 580 r/min 6 splines upper shaft X = 606 r/min 6 splines upper shaft Y = 611 r/min 6 splines upper shaft Z = 614 r/min 6 splines upper shaft

V denotes that only the lower PTO shaft is fitted, as for compressor drive. When applicable, dual speed installations are indicated by a fourth suffix letter D.

#### **GENERAL SPECIFICATIONS**

Specifications for each machine are under individual headings which follow these GENERAL SPECIFICATIONS.

#### **Capacities**

Fuel Tanks	UK Value	U.S. Value	Metric Value
XL Tractors	24 6 gal	29.6 gal	112 litres
Non XL Tractors	17 gal	20.3 gal	77 litre
2WD Transmission	7.5 gal	8.9 gal	34 litre
MFD Transmissions	8 gal	9.6 gal	36.5 ltre

**NOTE:** These capacities are only a guide to the quantities. Always use the dipstick or level plug to make sure that units are filled to the correct level.

#### **Electrical System**

Electrical System			
Type of System			
Battery (Rating IEC/BS)			
Standard	Reserve Capacity		
Cold Cranking Amperes			
Heavy Duty	Reserve Capacity		
Cold Cranking Amperes			
Heavy Duty Plus	Reserve Capacity		
Cold Cranking Amperes			
Alternators			
	b		
XL Tractors			
(=)	or 40/45 watt British prefocus cap (export)		
Side Lamps (2)			
	12 Volt, 10 watt small bayonet cap		
	12 Volt, 55 watt Halogen		
	o12 Volt, 10 watt small bayonet cap		
•			
•			
Non XL Tractors			
	40/45 watt British prefocus cap (export)		
Side Lamps (2)			
, , ,			
	2		
• •			
•			
	The state of the s		

Pistons and RodsRings Per Piston3Compression Rings Per Piston2Oil Rings Per Piston1Type of Piston PinFull FloatType of BearingsReplacement Bearings Available Steel Back with Copper and Lead Liners
Main BearingsTractors 385 and 485
Engine Lubrication System         Type of System       Pressure Spray         Oil Pump       Gear Type         Oil Filter       Full Flow, Turn on Type, Bypass
Fuel System  Fuel Injection Pump  Fuel Transport Pump  Governor  Second Stage Fuel Filter  Water Trap and Drain for the Fuel Tank  Fuel Gauge  Fuel System  Fuel System  None  Variable Speed, Part of the Fuel Injection Pump  First Stage Fuel Filter  Full Flow Element Type or Turn on Type  Water Trap and Drain for the Fuel Tank  Location is in the Bottom of the Fuel Filters  Fuel Gauge  Location is On the Instrument Panel  Fuel Strainer  None
Air Intake System  Type
Cooling System  Type Pressure System, Thermostat Controlled Bypass, Impeller Type Pump Radiator Fin and Tube Type  Thermostat Starts to Open at Approximately 180 Degrees F (82 Degrees C) Fully Open at 203 Degrees F (94 Degrees C)  PressureCap 9 to 12 PSI (62 to 82 kPa)  Water Level Monitor None  Water Temperature Gauge Location is on the Instrument Panel
Tractor Brakes Type
Clutch Type Hydraulic Operated, Self Adjusting (XL only), Single Dry Plate
U.S Value       Metric Value         Plate Diameter       385, 485 and 585

#### **Transmissions BASIC** Type ...... 4 Speed Synchromesh with High/Low Ranges and Reverse OPTIONAL (Not 885/885XL) ..... Forward/Reverse Type Same as Synchromesh, plus a Hydraulically Operated Forward and an Increased Speed Reverse Controls .....3 Levers **OPTIONAL** Same as Synchromesh, Plus Hydraulically Operated Speed Decrease in all Gears **Foot Brakes** Type ...... Hydraulic, Self Adjusting, Oil Cooled Discs U.S Value Metric Value Disc Diameter **Hydraulic System** Hydraulic Pump in the Transmission Steering Differential Lock ..... Mechanical Actuated by the Operators Right Foot Type Hitch system Type of Sensing Type of Control ..... Hand Lever Type of Valve ..... Four-Position, Hold, Lift, Lower, and Float Type of Hitch 385and 485 ...... Three Point, Catergory one and Two

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Quick Hitch Coupler (Available)

General	
Diesel Engine Model	155
Number of Cylinders	. 3
Firing Order	3-2
Rated	
Low Idle	
Static filling (BTDC) To Degit	563
U.S Value Metric Va	
Bore	
Displacement	
Valve Clearances (hot) Inlet	mm
Exhaust	
Fuel System	
Injection Nozzle type	836
Nozzle Holder type	
Lubrication System	
Crankcase Capacity (including filter)	litre
(including filter)	кРа
Cooling System	
Cooling System Capacity (including heater)	litre
(including fleater) gain 11.4	
Drawbar Heights	
Swinging Drawbar Top	
Automatic Hitch Drawbar	
Automatic Filter Floor	
Hydraulic System	
Pump Output at Rated Engine Speed of 2200 r/min	
with 27 Tooth Drive Gear 10 UK or 12 U.S. gal min	
with 23 Tooth Drive Gear 12 UK or 14 4 U.S. gal min	
Maximum Lift Capacities	1
Lower Links horizontal	kg
Through range of 780 mm (31 in)	
2000 Ent. 2019(1)	

Maximum Static Loadings		
Axles, Off Road Operation	U.S Value	Metric Value
2WD Front Axle, Straight, Deep Box		
at 1530 mm (60 in) Tread		
at maximum tread		
APL 330 MFD Axle, at 1694 mm (67 in) Tread		
APL 330 MFD Axle, at Maximum Tread		
Rear Axle, at 1530 mm (60 in) Tread		
Rear Axle, at Maximum Tread		3200 kg
Drawbars Swinging and auto hitch drawbar	1000 lb	454 kg
Auto hitch hook	3000 lb	
Add Hitch Hook		
Maximum Darmittad Waighta		
Maximum Permitted Weights		
For Road Operations	0000 !!	1 400 1
2WD Front Axle		1400 kg
MFD Axle		
Rear Axle		
Total Tractor Weight		
Dower Toke Off		
Power Take Off		
PTO r/min. at Rated Engine Speed of 2200 r/min		
Upper Shaft		
Lower Shaft	• • • • • • • • • • • • • • • • • • • •	1004
Engine Speed at 540 PTO r/min		1000
Upper Shaft	• • • • • • • • • • • • • • • • • • • •	1936
Engine Speed at 1000 PTO r/min Lower Shaft		2100
Lower Snart	• • • • • • • • • • • • • • • • • • • •	
Machanical Front Drive (M. F.D.)		
Mechanical Front Drive (M.F.D.)		
Axle Type		
Transfer Gearbox Operation		Mechanical Dog Clutch

General			
Diesel Engine Model			
Number of Cylinders			
Firing Order			1-3-2
Engine Speeds		0.1	00 =/min
Rated			
Static Timing (BTDC)			
Static filling (BTDO)	• • • • • • • • • • • • • • • • • • • •		Degrees
	J.S Value		ric Value
Bore			
Stroke			
Displacement	. 179 in <sup>3</sup>	2	934 cm <sup>3</sup>
Valve clearances (hot)			
Inlet			
Exhaust	0.012 in	• • • • • • • • • • • • • • • • • • • •	0.30 mm
Fuel System			
Injection Nozzle Type		DLLA 1	50S 836
Nozzle Holder Type			
,,			
Lubrication System			
Crankcase Capacity			
(including filter)	LIK ninte	R I I S ata	7.5 litre
Oil Pressure			
On Flessure	to oo psi		717 KI Q
Cooling System			
Cooling System			
Cooling Capacity	- 1.071	01101	44 4 1344
(including heater)	o uk gai	3 U.S gal	11.4 litre
Drawbar Heights			
Swinging Drawbar Top	. 13.9 in		353 mm
Automatic Hitch Drawbar	. 15.6 in		96 mm
Automatic Hitch Hook	. 13.2 in		.335 mm
Hydraulic System			
Pump Output at Rated Engine Speed of 2180 r/min			
With 27 Tooth Drive Gear 10 UK or 12 US	Sigal min	46	litre min
With 23 Tooth Drive Gear 12 UK or14.4 US			
With 21 Tooth Drive Gear 13 UK or 15.6 US			
Maximum Lift Capacities	<u>-</u>		
Lower Links Horizontal			
Through Range of 780 mm (31 in)			
Lower Link Length			

Maximum Static Loadings		
Axles, Off Road Operation	U.S Values	Metric Value
2WD Front Axle, at 1530mm (60 in) Tread		
2WD Front Axle, at Maximum tread		
APL 325 MFD Axle, at 1694 mm (67 in) Tread	5732 lb	2600 kg
APL 325 MFD Axle, at Maximum tread		
APL 330 MFD Axle, at 1694 mm (67 in) Tread		
APL 330 MFD Axle, at Maximum tread		
APL 335 MFD Axle, at 1694 mm (67 in) Tread		
APL 335 MFD Axle, at Maximum Tread		
Rear Axle, at 1530mm (60 in) tread		5000 kg
Rear Axle, at Maximum Tread7275 lb (3300 kg)  Drawbar		
Swinging Drawbar and Automatic Hitch		
drawbar	1000 lb	454 kg
Automatic Hitch Hook		
Additialic Filter Floor		
Maximum Permitted Weights		
For Road Operations		
2WD Front Axle, Straight Deep Box	3086 lb	1400 kg
MFD Axles		
Rear Axle		
Total Tractor Weight		
Power Take Off		
PTO r/min. at Rated Engine Speed		
Upper Shaft		
Lower Shaft		1004
Engine Speed at 540 PTO r/min		
Upper Shaft		1936
Engine Speed at 1000 PTO r/min		
Lower Shaft		2190
Mechanical Front Drive (M.F.D.)		
XL Tractors		
AxleType (Standard)		
(Optional)		
(Heavy Duty)		
Transfer Gearbox Operation		
	Ele	ectrical/Hydraulic Disengagement
		Engaged by Spring Pressure
Non XL Tractors		75 451 464
AxleType (Standard)		
Transfer Gearbox Operation		Mechanical Dog Clutch

#### General

Diesel Engine Model	4
Rated	r/min
U.S Values     Metric V       Stroke     4.38 in     11°       Bore     3 875 in     98.4       Displacement     206 in³     3 382       Valve clearances (HOT)     Inlet     0.012 in     0.30       Exhaust     0.012 in     0.30	mm cm3
Fuel System Injection Nozzle Type	
Lubrication System         Crankcase Capacity (including filter)       16.2 UK pints       2.5 U.S gal       9.6         Oil Pressure       40 to 60 psi       275 to 412	iltre kPa
Cooling System Cooling system capacity (including Heater)	
g system supposed, (meaning manager, supposed and suppose	iitre
Drawbar Heights           XL Tractors         Swinging Drawbar Top         15.75 in         400           Automatic Hitch Drawbar         19.3 in         490           Automatic Hitch Hook         6 in         400           Non XL Tractors         Swinging Drawbar Top         16 in         400           Automatic Hitch Drawbar         18 in         451           Automatic Hitch Hook         15 in         386	mm mm mm
Drawbar Heights         XL Tractors         Swinging Drawbar Top       15.75 in       400         Automatic Hitch Drawbar       19.3 in       490         Automatic Hitch Hook       6 in       400         Non XL Tractors       Swinging Drawbar Top       16 in       400         Automatic Hitch Drawbar       18 in       451	mm mm mm mm mm mm

Maximum Static Loadings  Axles,Off Road Operation  2WD Front Axle, at 1530mm (60 in) Tread  2WD Front Axle, at Maximum Tread  APL 325 MFD Axle, at 1694 mm (67 in) Tread  APL 325 MFD Axle, at Maximum Tread  APL 330 MFD Axle, at 1694 mm (67 in) Tread  APL 330 MFD Axle, at Maximum Tread  APL 335 MFD Axle, at Maximum Tread  APL 335 MFD Axle, at 1694 mm (67 in) Tread  APL 335 MFD Axle, at Maximum Tread  Rear Axle, at 1530mm (60 in) Tread  Rear Axle, at Maximum tread  Drawbars  Swinging Drawbar and Automatic Hitch  Drawbar		
Automatic Hitch Hook	4000 lb	1841 kg
Maximum Permitted Weights  For Road Operations  2WD Front Axle  MFD Axle  Rear Axle  Total Tractor Weight		1600 kg 4800 kg
Power Take Off PTO r/min at rated engine speed Upper shaft Lower shaft Engine Speed at 540 PTO r/min Upper Shaft Engine Speed at 1000 PTO r/min Lower Shaft		
Mechanical Front Drive (M.F.D.)  XL Tractors  Axle Type (Standard)		
Non XL Tractors  Axle Type (Standard)  Transfer Gearbox Operation		

General
Diesel Engine Model
Number of Cylinders
Firing Order
Rated
Low Idle
Static finding (BTDC) to Degrees
U.S Value Metric Value
Bore       3.875       98 mm         Stroke       5.06 in       128.5 mm
Displacement
Valve Clearances (hot) Inlet
Exhaust
Fuel System
Injection Nozzle Type
Nozzie Holder Type
Lubrication System
Crank Case Capacity
(including filter)1       6.2 UK pints       2.5 U.S gal       9.5 litres         Oil Pressure       40 to 60 psi       275 to 414 kPa
Oil Pressure
Cooling System
Cooling system capacity (including Heater)
(moleculary realer)
Drawbar Heights
Swinging Drawbar Top (XL Tractor)
Swinging Drawbar Top (Non XL Tractor)
Automatic Hitch Hook
Hydraulic System
Pump Output at Rated Engine Speed of 2300 r/min
With 27 Tooth Drive Gear 10.6 UK or 12.7 U.S gal min
With 20 Tooth Drive Gear 14.4 UK or 16.4 U.S gal min
Lift capacity with lower links horizontal 4400 lb 2000 kg
With assistor ram
Lower Link Length (XL Tractor)
Lower Link Length (Non XL Tractor)

Maximum Static Loadings  Axles Off Road Operation  2WD Front Axle, at 1530mm (60 in) Tread  2WD Front Axle, at Maximum Tread  330 MFD Axle, at 1694mm (67 in) Tread  330 MFD Axle, at Maximum tread	 
335 MFD Axle, at 1694mm (67 in) Tread	 
Swinging and Auto Hitch Drawbar	
Maximum Permitted Weights	
For Road Operations  2 WD Front Axle  MFD Axle  Rear Axle  Total Tractor Weight	 1600 kg
Power Take Off	
PTO r/min at rated engine speed Upper Shaft	
Upper Shaft	
Mechanical Front Drive (M.F.D.)	
Axle Type (Standard)	 ZF APL 335

General	
Diesel Engine Model  Number of Cylinders  Firing Order  Engine Speeds	4
Rated Low Idle Static Timing (BTDC)	700 ± 50 r/min
U.S Value         Bore       .3.937 in         Stroke       .5.51 in         Displacement       .268 in <sup>3</sup> .         Valve Clearances (hot)	140 mm
Inlet	
Fuel System         Injection Nozzle Type       D         Nozzle Holder Type       k	
Lubrication SystemCrankcase Capacity (including filter)16.2 UK pints2.5 U.S galOil Pressure.40 to 60 psi.2	9.5 litre 275 to 414 kPa
Cooling System Cooling System Capacity (including Heater)	13.7 litre
Drawbar HeightsSwinging Drawbar Top.18 inAutomatic Hitch Drawbar.20.7 inAutomatic Hitch Hook.17.1 in	525 mm
Power Take Off	
PTO rev/min at Rated Engine Speed Upper Shaft Lower Shaft Engine Speed at 540 PTO r/min	
Upper Shaft	2140
Lower Shaft	2190

Engaged by Spring Pressure

_		
Maximum Static Loadings		•
Axles Off Road Operations	U.S Value	Metric Value
2WD Front Axle, at 1530 mm (60 in) Tread		
2WD Front Axle, at Maximum Tread		
APL330 MFD Axle, at 1694 mm (67 in) Tread		
APL 335 MED Avia at 1504 mm (67 in) Trans	4409 lb	
APL335 MFD Axle, at 1694 mm (67 in) Tread APL335 MFD Axle, at Maximum Tread	4409 Ib	2000 kg
Rear Axle, at 1530 mm (60 in) Tread		
Rear Axle, at Maximum Tread		
Drawbars		
Swinging and Auto 2000 lb	908 kg	
Auto Hitch	5000 lb	
Maximum Permitted Weights		
For Road Operations		
Front Axle 2WD		
Front Axle MFD		
Rear Axle		
Total Tractor Weight	12 125 10 .	
Hydraulia Cyatam		
Hydraulic System	- / :	
Pump Output at Rated Engine Speed of 2400		50.0 like min
		50.8 litre min
With 20 Tooth Drive Gear Lift Capacity with Lower links horizontal		
With assister ram		
Through range of 680 mm (27 in)	3600 lb	1633 kg
With assister ram		
Lower link length (XL Tractor)		
Lower link length (Non XL Tractor)		
Mechanical Front Drive (M.F.D	),)	
Axle Type (Standard)	•	ZF APL 330
2·		ZF APL 335
Transfer Gearbox Operation		
		Electrical/Hydraulic Disengagement
		Francisco de la Carria a Ducas como

## **TRAVEL SPEEDS**385 2WD Tractor with AR Type Transmission

See Tractor Serial Numbers for type of transmission fitted. Speeds are calculated with engine operating at the rated speed of 2200 r/min.

To convert the speeds in the chart to speeds relevant to 540 PTO r/min (upper shaft) multiply by 0.880.

PS = Power Shift DD = Direct Drive

REAR T	RE SIZE	12.4-32 and 14.9-28		12.4-36	
RADIUS	INDEX	INDEX 640 mm (25.2 in)		690 mm (27.1 in)	
GEAR I		PS	DD	PS	DD
LOW 1	K.P.H.	2.13	2.57	2.30	2.77
	M.P.H.	1.32	1.59	1.42	1.72
LOW 2	K.P.H.	2.93	3.54	3.16	3.82
	M.P.H.	1.82	2.19	1.96	2.37
LOW 3	K.P.H.	4.20	5.07	4.53	5.47
	M.P.H.	2.60	3.15	2.81	3.39
LOW 4	K.P.H.	5.69	6.86	6.13	7.40
	M.P.H.	3.53	4.26	3.80	4.59
HIGH 1	K.P.H.	6.93	8.36	7.47	9.01
	M.P.H.	4.30	5.19	4.64	5.59
HIGH 2	K.P.H.	9.52	11.48	10.26	12.38
	M.P.H.	5.91	7.13	6.37	7.69
HIGH 3	K.P.H.	13.65	16.47	14.72	17.76
	M.P.H.	8.48	10.23	9.14	11.03
HIGH 4	K.P.H.	18.46	22.27	19.90	24.01
	M.P.H.	11.47	13.83	12.36	14.91
REV 1	K.P.H.	3.20	3.86	3.45	4.16
	M.P.H.	1.98	2.39	2.14	2.58
REV 2	K.P.H.	4.40	5.31	4.74	5.72
	M.P.H.	2.73	1.43	2.94	3.55
REV 3	K.P.H.	6.31	7.61	6.80	8.20
	M.P.H.	3.92	4.72	4.22	5.95
REV 4	K.P.H.	8.53	10.29	9.20	11.09
	M.P.H.	5.30	6.39	5.71	6.89

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