

D25, D29, D33 Tractors

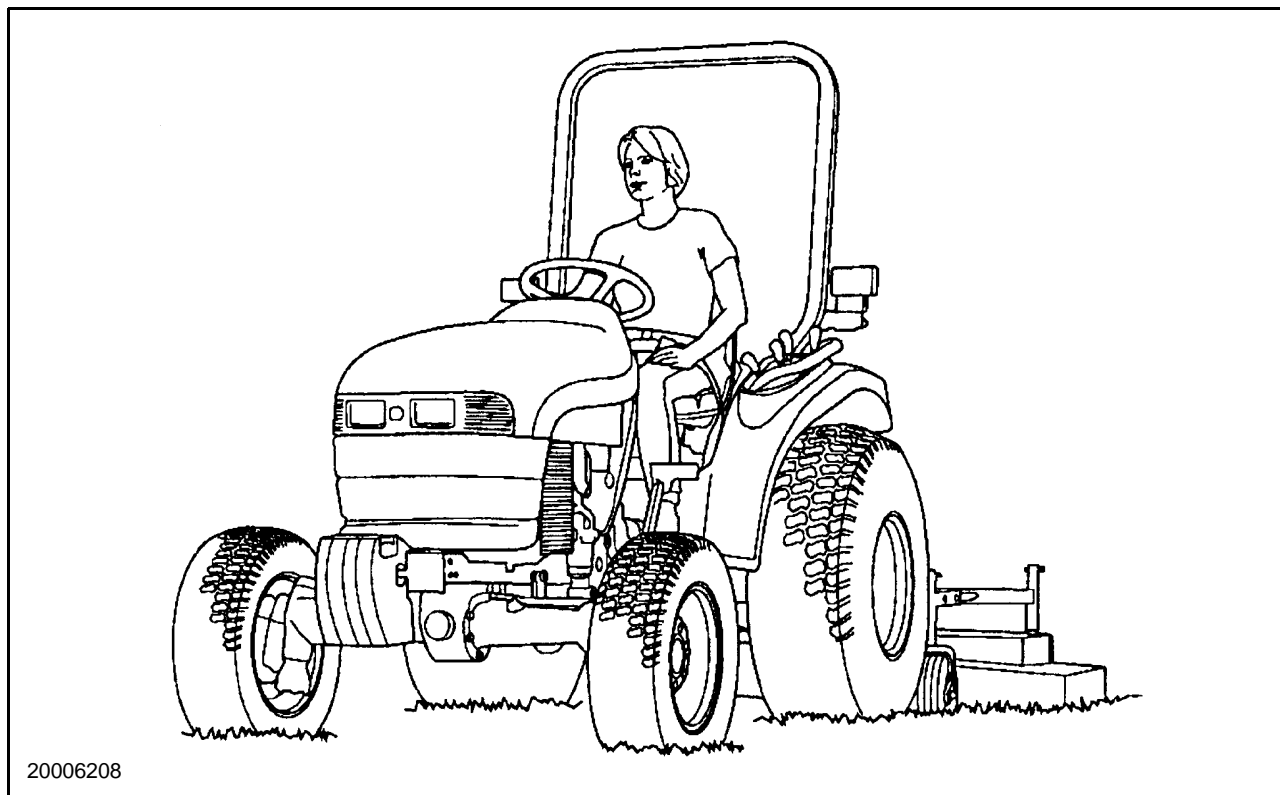
Product Manual

86618777



D25-D29-D33

COMPACT TRACTORS



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PRODUCT STORY

D25-D29-D33

PART OF THE CASE IH FAMILY OF COMPACT TRACTORS

Who says you should leave well enough alone?

Case IH engineers just couldn't leave well enough alone, they've taken the hugely successful Case IH Family of compact tractors and made them even better. How did the Case IH team know what to improve upon and what to leave alone? ---*Simple*--- they asked Case IH and competitive customers. After all from the beginning Case IH has represented the best in customer driven design. List in hand the team set out to satisfy those "**customer wants**". The result, **6 new models** designed to offer customers even more choice, value and dependability.

The two faces of value.

Value, Team Case IH realizes that it means different things to different customers. To some, value represents getting the most horsepower for their dollar, to others; features designed to make their operating experience more productive and enjoyable. The models D25, D29 and D33 are the perfect choice for those "no frills, bang-for-their-buck

customers". These value filled models are economically priced while still offering those features customers has come to expect; modern styling, powerful engines, superior operator comfort, proven reliability, and best in class serviceability. These tractors allow customers to do more work. Whether mowing, loading, hauling, snowblowing or any of dozens of other jobs.

Tested Tough.

Extensive testing was conducted to ensure that the D25, D29 and D33 would live up to customer expectations for durability and reliability. Testing sights throughout the United States put it through varying climates and conditions, cold, heat, dry, wet, you name it, it encountered it.

D25-D29-D33....Part of Case IH's compact Family of tractors.

MODEL	CYLINDERS	CU.IN.	Gross HP	P.T.O. HP
D25	3	81.2	25.0	21.7
D29	3	81.2	29.0	25.1
D33	3	91.3	33.0	28.6

FEATURE & BENEFIT

- **21ST CENTURY STYLING...**

With their sloping hoods and comfortable, convenient operator area, there is no doubt the D25, D29 and D33 are part of Case IH's innovative line of tractors. Like the Magnum, Maxxum, C and CX Series before them, these compact tractors prove that form adds to function.

- **LARGE DISPLACEMENT 3 CYLINDER ENGINES**

are powerful and economical. Refinements to the indirect fuel injection system have resulted in quieter operation; greater fuel efficiency and improved torque backup all without sacrificing the reliability power plants are known for.

- **VERSATILE TRANSMISSION**

The 9x3, sliding gear transmissions

offer a wide selection of working speeds. Straight forward design and the use of premium components help assure a lifetime of productive service.

- **DURABLE PTO DRIVELINE**

Dependable 540 RPM, rear, transmission-type PTO is standard on all three models. Live-type PTO is optional on the model D29 and provides the ability to stop tractor motion without interrupting PTO function.

- **RUGGED AXLES**

All models are available with 2WD or traction enhancing FWD axles. Both axles feature high load ratings and time tested design for years of dependable service.

- **POWER STEERING**

is standard on the models D25, D29 and D33. A dedicated 3.5 GPM pump provides ample flow for precise, low effort steering.

- **DIFFERENTIAL LOCK**

is standard on all three models. It allows the operator to lock both rear axles together for superior traction in slippery conditions.

- **POWERFUL BRAKES**

All three models are equipped with internal wet disc brakes for sure stopping, improved durability and long life.

- **OPERATOR DECK**

with controls for RANGES, PTO, FWD and 3-PT located conveniently on the units contoured fenders.

- **CONTOURED, HIGH BACK, COMFORT SEAT**

with spring suspension is standard on models. Generous fore/aft adjustment on an incline, sliding track helps keep the operator in proper relationship to the controls, for comfortable, safe operation.

- **Cat. I 3-PT HITCH**

has easy to adjust telescoping stabilizers and over 1600 lb. lift capacity to handle a wide variety of attachments. A Deluxe 3-PT package with flexible link ends and crank-type leveling box is available as a factory or dealer installed option.

- **PRODUCTIVE HYDRAULICS**

Externally mounted, 6.1 OR 6.6 GPM, gear-type hydraulic pump provides plenty of flow to power up attachments.

- **FLIP-UP HOOD**

gives the compacts best in class serviceability.

STANDARD EQUIPMENT

D25

DIESEL ENGINE

3 Cylinders
81.2 cu. in. (1.33L) Displacement
25.0 Gross hp @ 2600 rpm
23.7 Net hp @ 2600 rpm
21.7 PTO hp @ 2600 rpm
Under Hood Muffler
Dual Element Air Cleaner
Full-flow, Spin-on Oil Filter
7.3 Gallon (26.7 L) Fuel Tank
Single Fuel Filter
Pressurized Cooling System with
Thermostat and Antifreeze
Glow Plug Starting Aid

INSTRUMENTS

Tachometer w/ Hour Meter
Fuel Gauge
Engine Oil Pressure Light
Alternator Warning Light
Glow Plug Indicator Light
Temperature Light

HYDRAULIC SYSTEM

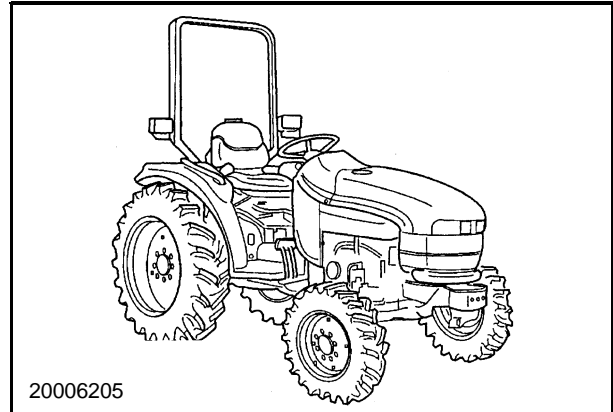
6.1 GPM (23.1L) Hydraulic Pump
Live Hydraulics with Hydraulic
Position Control
Mid-mounted Hydraulic Ports
Cat.I 3-pt. Hitch
Lift Capacity @ 24 in. 1635 lb.
Telescoping Stabilizers
Turnbuckle Type Leveling Mech.

ROPS

2-Post Fixed w/Seat Belt

ELECTRICAL

Battery, 12-volt/ 40 amp hr.
40 Amp Alternator
Safety Starter System
Key Start/ Fuel Shutoff
Voltage Regulator



2

LIGHTS

Two Headlights
One Taillight
Two Red Reflectors
Two Flashing Safety Lights

TRANSMISSION

9x3

PTO

540 rpm (Transmission-Type)
Flip Up Safety Shield
Screw-on Cap

FIXED DRAWBAR

FOOT THROTTLE

DIFFERENTIAL LOCK

CUSHION SEAT

Spring Suspension
Sliding-Fore/Aft Adjustment
Height Adjustment via Incline
Track

STEERING

Hydrostatic Power Steering
Dedicated 3.5 GPM (13.2 LPM)
Pump
Fixed Steering Column

BRAKES

Wet Disc

2WD FRONT AXLE

Fixed Axle
Wheels Reversible -
40.0 inch to 42.6 inch Tread
Tire Dependent

FWD FRONT AXLE

Fixed Front Wheel Drive Axle
43.4 inch & 45.3 inch Tread
Tire Dependent

REAR WHEELS

Reversible
42.8 inch & 47.9 inch Tread

SMV EMBLEM

WARRANTY

Case IH Standard Warranty

STANDARD EQUIPMENT

D29

DIESEL ENGINE

3 Cylinders
81.2 cu. in. (1.33L) Displacement
29.0 Gross hp @ 2800 rpm
27.4 Net hp @ 2800 rpm
25.1 PTO hp @ 2800 rpm
Under Hood Muffler
Dual Element Air Cleaner
Full-flow, Spin-on Oil Filter
7.3 Gallon (26.7 L) Fuel Tank
Single Fuel Filter
Pressurized Cooling System with
Thermostat and Antifreeze
Glow Plug Starting Aid

INSTRUMENTS

Tachometer w/ Hour Meter
Fuel Gauge
Engine Oil Pressure Light
Alternator Warning Light
Glow Plug Indicator Light
Temperature Light

HYDRAULIC SYSTEM

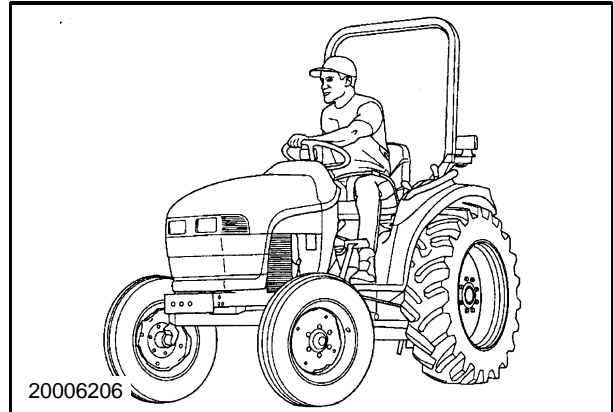
6.6 GPM (25L) Hydraulic Pump
Live Hydraulics with Hydraulic
Position Control
Mid-mounted Hydraulic Ports
Cat.I 3-pt. Hitch
Lift Capacity @ 24 in. 1635 lb.
Telescoping Stabilizers
Turnbuckle Type Leveling Mech.

ROPS

2-Post Fixed w/Seat Belt

ELECTRICAL

Battery, 12-volt/ 40 amp hr.
40 Amp Alternator
Safety Starter System
Key Start/ Fuel Shutoff
Voltage Regulator
Voltage Regulator



3

LIGHTS

Two Headlights
One Taillight
Two Red Reflectors
Two Flashing Safety Lights

TRANSMISSION

9x3

PTO

540 rpm (Transmission-Type)
(Live-type Optional)
Flip Up Safety Shield
Screw-on Cap

FIXED DRAWBAR

FOOT THROTTLE

DIFFERENTIAL LOCK

CUSHION SEAT

Spring Suspension
Sliding-Fore/Aft Adjustment
Height Adjustment via Incline
Track

STEERING

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2WD FRONT AXLE

Fixed Axle
Wheels Reversible -
40.0 inch to 42.6 inch Tread
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Fixed Front Wheel Drive Axle
43.4 inch & 45.3 inch Tread
Tire Dependent

REAR WHEELS

Reversible
42.8 inch & 47.9 inch Tread

SMV EMBLEM

WARRANTY

Case IH Standard Warranty

STANDARD EQUIPMENT

D33

DIESEL ENGINE

3 Cylinders
91.3 cu. in. (1.5L) Displacement
33.0 Gross hp @ 2800 rpm
31.3 Net hp @ 2800 rpm
28.6 PTO hp @ 2800 rpm
Under Hood Muffler
Dual Element Air Cleaner
Full-flow, Spin-on Oil Filter
7.3 Gallon (26.7 L) Fuel Tank
Single Fuel Filter
Pressurized Cooling System with
Thermostat and Antifreeze
Glow Plug Starting Aid

INSTRUMENTS

Tachometer w/ Hour Meter
Fuel Gauge
Engine Oil Pressure Light
Alternator Warning Light
Glow Plug Indicator Light
Temperature Light

HYDRAULIC SYSTEM

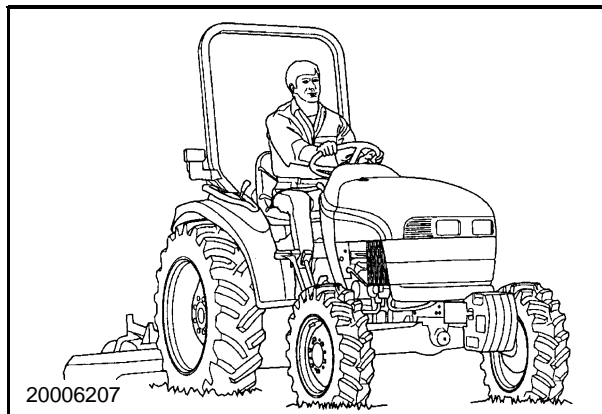
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Live Hydraulics with Hydraulic
Position Control
Mid-mounted Hydraulic Ports
Cat.I 3-pt. Hitch
Lift Capacity @ 24 in. 1635 lb.
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Turnbuckle Type Leveling Mech.

ROPS

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ELECTRICAL

Battery, 12-volt/ 40 amp hr.
40 Amp Alternator
Safety Starter System
Key Start/ Fuel Shutoff
Voltage Regulator



4

LIGHTS

Two Headlights
One Taillight
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9x3

PTO

540 rpm (Transmission-Type)
Flip Up Safety Shield
Screw-on Cap

FIXED DRAWBAR

FOOT THROTTLE

DIFFERENTIAL LOCK

CUSHION SEAT

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Sliding-Fore/Aft Adjustment
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Fixed Axle
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Fixed Front Wheel Drive Axle
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REAR WHEELS

Reversible
42.8 inch & 47.9 inch Tread

SMV EMBLEM

WARRANTY

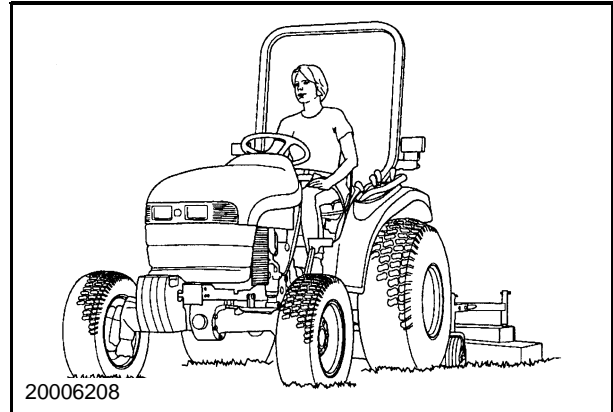
Case IH Standard Warranty

D25, D29, D33 TRACTORS

NOTES:

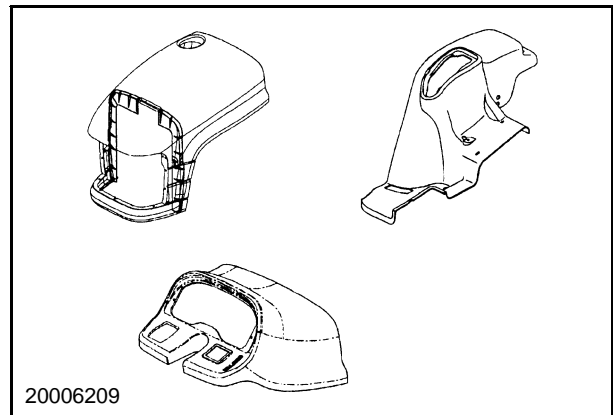
STYLING - THE LOOK

Style and comfort that works. Let's face it, not every customer needs, wants or can afford a Rolls Royce. That's not to say they don't need a car, they just don't need a fancy one. The same can be said of compact tractors. To some, a compact tractor is simply a powered tool that is used to complete a task. Team Case IH says, if your going to by a tool why not get the ultimate power tool. One that proves simplicity and durability do not have to equal discomfort and bland styling. That is uncompromising reliability and durability in an attractive, comfort-enhancing package.



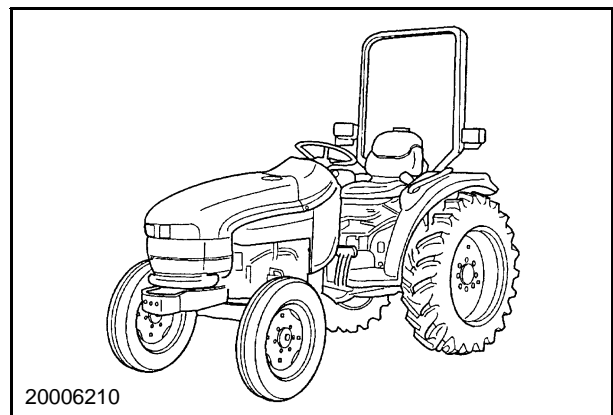
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Lasting beauty. Contoured hood, deck and fenders are molded from fiberglass-reinforced plastic (FRP) that can't rust or corrosion. In addition, the fiberglass reinforcement makes the body parts as tough as nails, allowing them to stand up to farm or work sight hazards like falling debris (loader work) or the occasional misdirected bale of hay. The bottom line is that it will look just as good down the road as when it rolled out of the assembly plant.



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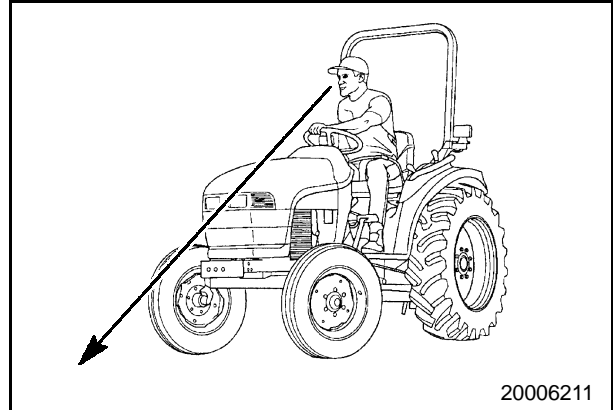
Fit and finished. By using molded body parts Case IH engineers were able to raise the fit and finish standards to new levels. Gone are the jagged edges and unsightly seams of old, replaced with smooth flowing lines. A clean appearance is only part of the story. The solid feel of the entry grab handles and lack of platform flex during entry speaks volumes about the quality construction.



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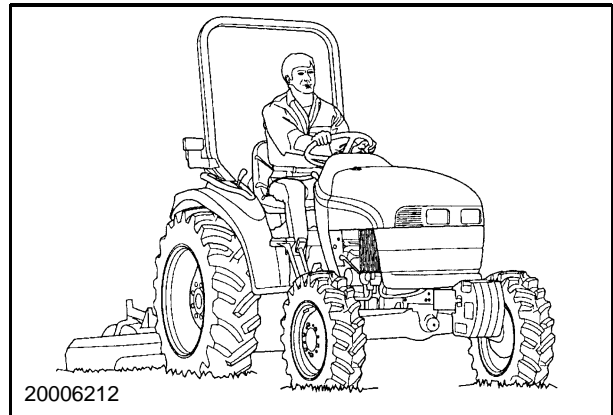
STYLING - GREAT FOR TODAY & TOMORROW

Visibly better. Sloping, contoured hood affords an operator outstanding forward visibility. Better visibility equates to safer operation, an important consideration for both experienced and novice operators.



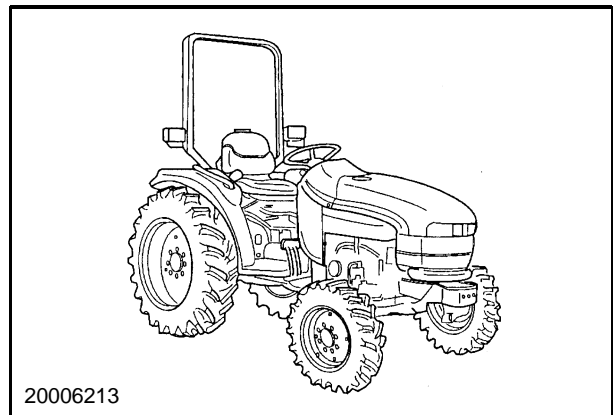
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Fitting in. It is at home on the farm or job sight. Beneath its sculpted body lies the simplicity and reliability. Seasoned operators will appreciate the tried and true 9x3 transmission. They know that gear units provide the highest levels of efficiency, providing more power for their dollar. Whether mowing a pasture, grading a driveway or cleaning out a barn, it is as reliable as the four seasons in a stylish package that won't frighten the livestock.



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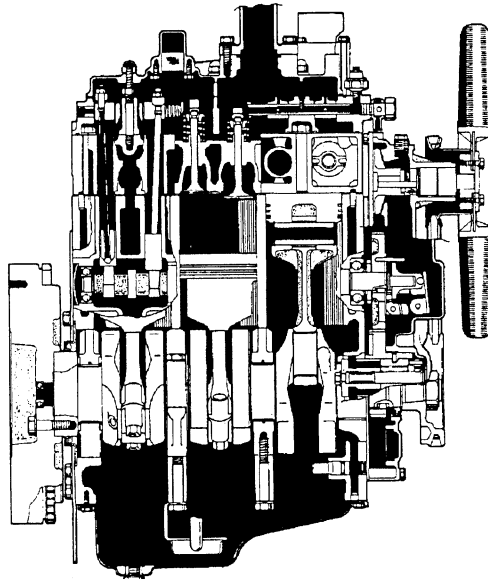
Age defying beauty. Sculpted appearance looks modern today and will for years to come. It bucks the trend of boxy "70's" tractor styling in favor of contemporary 21-century beauty. **Its modern appearance will give it an edge when it comes to resale value** (*in the unlikely event an owner would ever wish to part with it*).



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ENGINES

HIGHLIGHTS



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11

HIGHLIGHTS

- **Reduced noise and smoke levels.** During class II clinics customers told the Case IH team members that they were more than satisfied with the power, efficiency and durability of the competitive units, but, that they would like to see improvements to sound quality and smoke levels made. Emphasis was placed on these areas during development. Team Case IH delivered! Not only are the D25, D29 and D33 quieter (at least 2db less than prior models), they have fewer smoke emissions, better torque backup and are more fuel-efficient.
- **More horsepower choices!** Three for two—case IH now offers three horsepower levels of economy Class II compacts, giving customers more choice, allowing them to select the compact that best suites their needs. The D25, D29 and D33 (21.7 to 28.6 PTO HP) replace the models 1725 and 1925.
- **Proven-Parent Bore Design.** The engines used in the D25, D29 and D33 are of Parent-Bore design (*the same design used for almost all automobiles engines*), where the cylinders are cast as an integral part of the engine block. Known for its strength and rigidity, Parent-Bore design engines have proven their durability with decades of reliable service in Case IH tractors.

D25, D29, D33 TRACTORS

ENGINE & ELECTRICAL SPECIFICATIONS:

	D25	D29	D33
ENGINE	J843	J843	N843
Cylinders	3	3	3
Displacement	81.2 CI (1.33 L)	81.2 CI (1.33 L)	91.3 CI (1.5 L)
Bore x Stroke	3.31x3.15 (84x80)	3.31x3.15 (84x80)	3.31x3.54 (84x90)
in inches (mm)			
Compression Ratio	23:1	23:1	22.5:1
Aspiration	Normally	Normally	Normally
Gross HP (kW)	25.0 (18.7)	29.0 (21.6)	33.0 (24.6)
Rated Speed (RPM)	2600	2800	2800
Max Torque	61.0@1950 RPM	64.0@1975 RPM	72.5@1900 RPM
in ft-lbs. (Nm))	(82.7@1950 RPM)	(86.9@1975 RPM)	(98.3@1900 RPM)
PTO HP (kW)	21.7 (16.2)	25.1 (18.7)	28.6 (21.7)
Engine Torque Rise %	18.6	17.3	16.9
COOLING SYSTEM			
Capacity in qts. (L)	8.0 (8.5)	8.0 (8.5)	8.0 (8.5)
Fan Diameter	13.4 (340)	13.4 (340)	13.4 (340)
in inches (mm)			
Drive Type	Fixed	Fixed	Fixed
FUEL /AIR/ OIL SYSTEM			
Fuel-Injection Type	Indirect	Indirect	Indirect
Injection Pump Type	Bosch-type/In-Line	Bosch-type/In-Line	Bosch-type/In-Line
Fuel Filter	Single Element	Single Element	Single Element
Fuel Capacity	7.3 (27.6)	7.3 (27.6)	7.3 (27.6)
in Gallons (Liter)			
Air Filter Type	Dry/ Dual Elements	Dry/ Dual Elements	Dry/ Dual Elements
Crankcase Capacity	4.2 (4.4)	4.2 (4.4)	4.2 (4.4)
With Filter in qts. (L)			
EXHAUST SYSTEM			
Muffler	Under Hood	Under Hood	Under Hood
Exhaust Outlet	Horizontal	Horizontal	Horizontal
ELECTRICAL			
System voltage	12	12	12
Alternator (amps)	40	40	40
Battery			
Amp hrs	40	40	40
CCA	420	420	420
Cold Start Aid	Glow Plug	Glow Plug	Glow Plug

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