

International[®] 786 Tractor

QUENTIN CURRIE

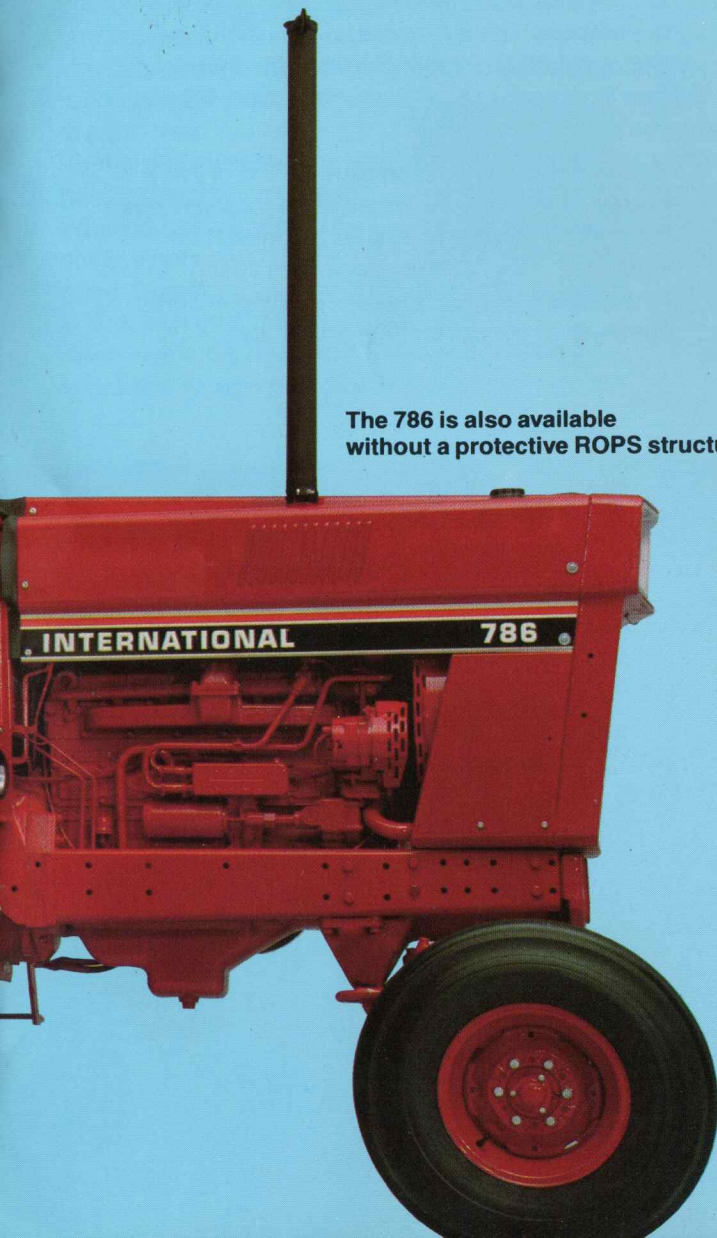


786

INTERNATIONAL

International 786 tractor equipped with 4-post rollover protective structure (ROPS). Includes sound-insulated, padded canopy and flashing warning lights.





The 786 is also available without a protective ROPS structure.

The new International 786 Diesel: A powerful blend of big-tractor features and small-tractor nimbleness.

And a lower investment at the same time!

The new 786 tractor meets the pressing demand of farmers everywhere for an 80 horsepower tractor that delivers top performance, along with economy and reliability. In the 786, IH has succeeded on all counts by bringing you a tractor that piles on the power, has big tractor features and excellent maneuverability...yet is an industry leader in the "best buy" category.

As part of the well-known IH Series 86 fleet, the 786 is powered by an IH-built diesel that is famed for lugging ability, durability, reliability. This naturally aspirated, 6-cylinder engine, time proved over hundreds of thousands of acres, has a big displacement of 358 cubic inches and generates 80 PTO horsepower with a hefty 70 horsepower at the drawbar. Best of all, it hangs in there when the going's toughest.

The rest of the power team is "big-tractor" tough as well. The 786 has a hydraulic-powered Dyna-Life® clutch plus a heavy-duty Torque Amplifier transmission. This transmission provides 16 speeds forward and eight reverse. At the touch of a lever, you

can shift up or down to give you exactly the work speeds you need in the field, feedlot or over the road.

What we've been describing is standard equipment on the 786. And that's not all! The list goes on with a dual free-turning PTO shaft for easier hookups, hydraulic brakes, power steering, 50 gallon fuel tank, draft control 3-point hitch, telescoping steering wheel, and advanced space-age electronics for monitoring vital tractor functions. All big tractor features. All standard on the 786.

See your IH dealer for all the facts on why the new 786 is one of the best deals in the field.

786 Quick Facts: 80 PTO hp**, 70 drawbar hp**, 6-cylinder diesel, 358 cu. in. displacement. Speeds: 16F/4R with Torque Amplifier. 540/1000 RPM PTO. Category II 3-point hitch. 4-post protective frame is standard.

**Manufacturer's estimate

786

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Outsize performance that starts with a deep power reserve.

From its high-torque engine to rugged final drives, the 786 works a class ahead of itself to help put a profit in your pocket.

We've emphasized the 6-cylinder, naturally aspirated diesel in the 786 and we're going to keep right on stressing it. Here's why: The IH-built D-358 has been proven reliable over the years in thousands of down to earth applications. It has been successfully used in tractors rated at 10 horsepower *more* than the 80 PTO hp of the 786.

That's mighty important to you. You know you've got a winner with a powerhouse that's shown its superiority over and over again. You'll realize how true this is when you compare the 786 with any other in the same power class.

Superior torque-rise characteristics. You can expect more "pull through" ability from the 786's engine than from other makes. This power reserve is what takes you through hard going without stalling or requiring frequent shift-down. And that means more production every hour you're in the field.

Exclusive fuel injection pump. One of the reasons for an IH diesel's superior torque rise is the injection pump. It assures balanced fuel injection to all cylinders at optimum timing throughout the speed range, resulting in better combustion control for high efficiency.

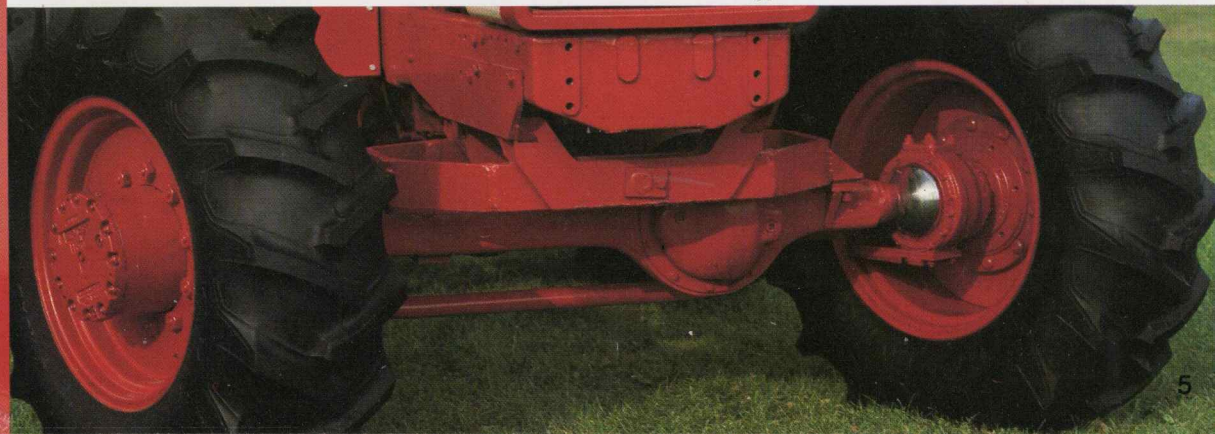
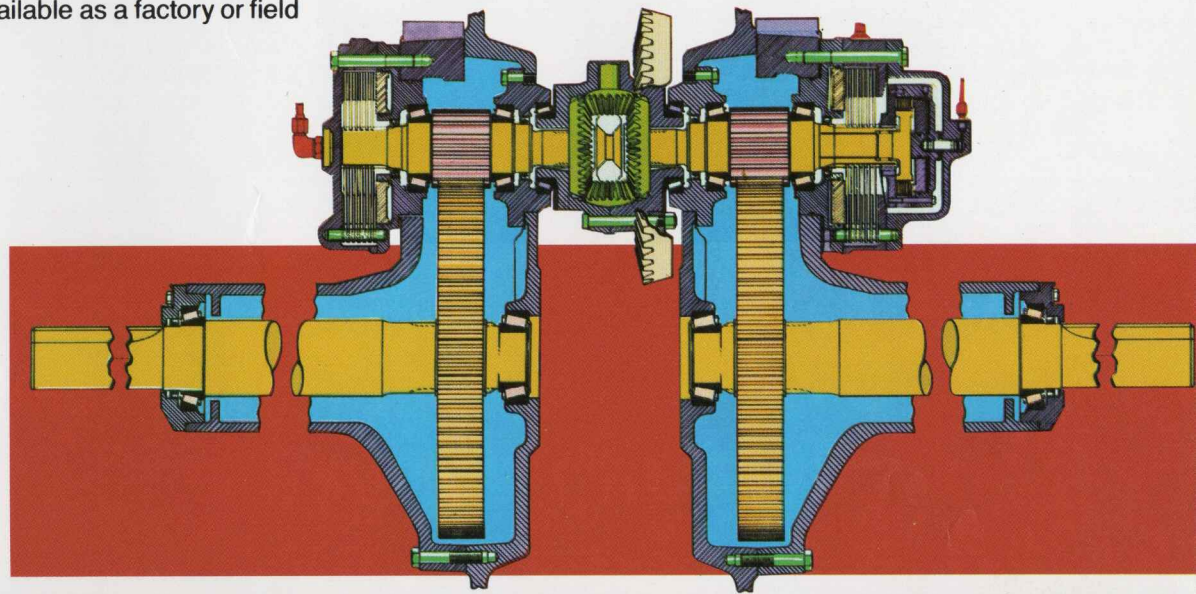


Heavy-duty Torque Amplifier transmission gives you speed selections spaced for maximum productivity. The Torque Amplifier with Hi-Lo range provides 16 speeds forward and 8 reverse. You can be sure of just the right field, chore or road speed to match the job at hand. And you have on-the-go power shifting with no guesswork or fumbling. With the basic transmission, shifting between adjacent gears is straight through and in line, with gear changes made smoothly and easily with levers located immediately to the left of your seat.



All-wheel drive attachment for the 786 provides more pull power, more traction when the going's tough. It's a versatile attachment that can be engaged or disengaged to match particular ground conditions right from the tractor seat. You'll be able to work in soil and field conditions normally off limits to conventional 2-wheel drive tractors—get going earlier in the spring and keep right on going later in the fall. The all-wheel drive attachment is available as a factory or field installed option.

Rugged drive components convert big engine power into bigger workpower. Because of the high torque developed by the 786 diesel, all components within the final drive system are extra rugged. There's a separate bull gear and pinion for each drive wheel. Massive rear axles assure plenty of carrying strength. Radial tires are available as an option. Official tests show radials can increase pull substantially.

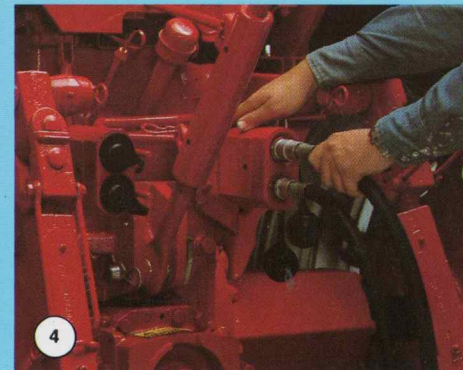
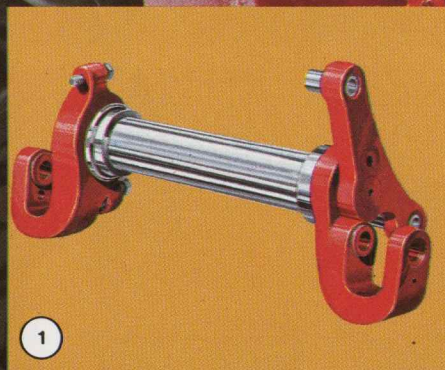


786

INTERNATIONAL

Here's all the hydraulic muscle you'll ever need.

Simple torsion-bar hitch and remote control system give you convenience, speed, capacity.



The International 2-pump hydraulic system powers various components with constant, dependable delivery—yet provides variable pressures as required. Each 12-GPM gear driven hydraulic pump is independent of the other, each works only on demand, and is consistently able to provide the capacity needed. Fluid in a common reservoir is protected by full-flow, suction line filtering.

- 1. Draft control hitch** features torsion-bar lower-link sensing, the fastest acting, most accurate of all 3-point hitch systems. The hitch can sense load changes as often as three times a second for smooth, fraction-of-an-inch control of implement operating depth. Lower links are extendible for hitching ease.
- 2. Simple, 2-lever hitch control** is console mounted at your right hand. One lever sets draft and load control; the other raises or lowers the implement. A built-in retarder valve controls rate of implement drop, regardless of weight.
- 3. Built-in diagonal float** lets you set lift links for working with wide tool bars and implements.
- 4. Remote cylinder flexibility** is provided by two standard auxiliary valves with automatic hydraulic unlatch feature for handling single or double-acting cylinders. Hydraulic couplers can be coupled or uncoupled without oil mess. Built-in breakaway included.

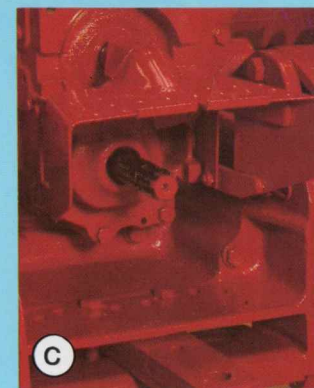
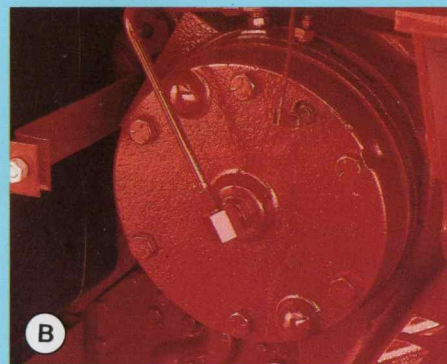
Easy rider.

The right mix of power, convenience and maintenance ease makes the 786 more than a good investment.

A. Mid-mount design puts you far ahead of the rear axle for a smoother ride. You sit comfortably in an adjustable seat with flip-up arm rests. You maneuver easier with armchair controls located at your fingertips for power shift and hydraulics. You have hydrostatic steering. A telescoping steering wheel. Ahead of you an instrument panel with glare-free lighting and all the vital gauges and warning lights tell you how fast, how long, how much and even if your brakes are wearing. In fact, you have it made for extra production that will pay dividends right now. And years later, when you're ready to trade.



- B. Wet power brakes** for fast, smooth stops; tight turns. Multiple-disc 8-inch brakes are externally mounted for quick inspection and maintenance.
- C. Independent 540/1000 RPM PTO** has a free-turning shaft which makes it easier to align the shaft with the implement power-shaft—prevents bruised knuckles.



786 SPECIFICATIONS

HORSEPOWER:

PTO 80 hp** (59.7 kW)
 Drawbar 70 hp** (52.2 kW)

ENGINE:

Make & model IH, D-358 N.A. Diesel
 Number of cylinders 6
 Speed, rated full load 2400
 Governed speed range 900-2400
 Bore and stroke 3.875 x 5.060 in.
 (98.43 mm x 128.52 mm)
 Piston displacement 358 cu. in. (5.9 l)

CAPACITIES:

Fuel tank 50 gal. (189 l)
 Cooling system 24 qt. (23 l)
 Engine lube oil, incl. filter 12 qt. (11 l)
 Rear frame (trans. & hyd. system) 90 qt. (85 l)

DIMENSIONS:

(With 9.5L-15 front, and 18.4-34 rear tires)
 Wheelbase 105 in. (2.67 m)
 Length overall, w/3-point hitch 167 in. (4.24 m)
 Width overall, minimum tread 102 in. (2.59 m)
 Height, ROPS 112 in. (2.84 m)
 Ground clearance under frame 13 in. (0.33 m)
 Turning radius:
 No braking 13.5 ft. (4.11 m)
 With brakes 11.6 ft. (3.54 m)
 Drawbar:
 Height above ground 17 in. (0.43 m)
 Lateral swing (total) 16 in. (0.41 m)

WEIGHT: Approx. shipping weight of tractor with ROPS, 540-1000 PTO, adjustable wide front axle, std. rear axle, 3-point hitch, swinging drawbar, TA, two auxiliary hydraulic valves, 9.5L-15 6-ply rated front tires, 18.4-34 6-ply rated rear tires with clamp type wheels 10,000 lb. (4540 kg)

**Manufacturer's estimate



**INTERNATIONAL®
 AGRICULTURAL
 EQUIPMENT**

AD-34045-J 9/80

LITHOGRAPHED IN UNITED STATES OF AMERICA

GROUND SPEEDS

w/18.4-34 tires (No allowance for tire slippage)

		FOR RANGE OF 900-2400 RPM ENGINE SPEED				AT 2100 RPM ENGINE SPEED FOR STD. PTO SPEED			
RANGE	GEAR	DIRECT		TA		DIRECT		TA	
		(mph)	(km/h)	(mph)	(km/h)	(mph)	(km/h)	(mph)	(km/h)
LOW	1	0.7-1.8	1.1-2.9	0.5-1.4	0.8-2.3	1.6	2.6	1.2	1.9
	2	0.9-2.4	1.4-3.9	0.7-1.8	1.1-2.9	2.1	3.4	1.6	2.6
	3	1.5-4.1	2.4-6.6	1.2-3.2	1.9-5.1	3.6	5.8	2.8	4.5
	4	2.1-5.5	3.4-8.9	1.6-4.3	2.6-6.9	4.8	7.7	3.7	6.0
HIGH	1	2.3-6.2	3.7-10.0	1.8-4.8	2.9-7.7	5.4	8.7	4.2	6.8
	2	3.1-8.3	5.0-13.4	2.4-6.4	3.9-10.3	7.2	11.6	5.6	9.0
	3	5.4-14.3	8.6-23.0	4.2-11.2	6.8-18.0	12.5	20.1	9.8	15.8
	4	7.1-19.1	11.5-30.7	5.6-14.9	9.0-24.0	16.7	26.9	13.0	20.9
REV	1	1.1-3.1	1.8-5.0	0.9-2.4	1.4-3.9	2.7	4.3	2.1	3.4
	2	1.5-4.1	2.4-6.6	1.2-3.2	1.9-5.1	3.6	5.8	2.8	4.5
	3	2.6-7.0	4.2-11.3	2.1-5.5	3.4-8.9	6.2	10.0	4.8	7.7
	4	3.5-9.4	5.7-15.1	2.7-7.3	4.3-11.7	8.2	13.2	6.4	10.3

Standard Equipment

Adjustable front axle w/60 to 84-in. (1.5 to 2.1 m) tread
 Rear axle w/104-in. (2.6 m) tread
 Antifreeze
 Dry-type, dual-stage air filter w/air filter service indicator
 Electrical system (12v) w/alternator, voltmeter, maintenance-free batteries
 Ether starting aid
 Engine block heater
 Horn
 Hydraulic wet brakes w/dual-pedal safety lock, parking lock
 Hydraulic-powered Dyna-Life clutch
 Hydrostatic power steering w/telescoping steering wheel
 Instrument panel including glare-free lighting, dimmer switch
 Speedometer-tachometer, mechanical w/hourmeter
 Gauges: engine temp., fuel, engine oil pressure, voltmeter
 Warning lights: transmission oil pressure, air cleaner indicator, low coolant
 Brake wear warning light
 Muffler, underhood w/vertical stack

Two remote control valves w/rear outlets, breakaway couplings
 Rear-mounted fuel tank, 50 gal. (190 l)
 SMV emblem
 Two 12-GPM gear-driven hydraulic pumps
 4-post protective frame
 Fenders
 Vinyl upholstered seat w/backrest, flip-up arm rest, mechanical position linkage, seat belt
 3-point hitch w/swinging drawbar
 Torque Amplifier transmission w/16 speeds forward, 8 reverse
 Independent PTO w/hydraulic power shift
 7-prong rear-mounted electrical connector
Attachments, Optional Equipment
 All-wheel drive attachment
 Alternating check valve
 Differential lock electrically actuated
 15-GPM hydraulic pump
 Third remote control valve
 Tool box
 Spark arrestor
 Front-end and rear wheel weights

Specifications, descriptions and illustrative material herein are as accurate as known at time of publication, but are subject to change without notice. Illustrations may include optional equipment and accessories and may not include all standard equipment.