

**C-SERIES HYDRAULIC EXCAVATORS
CX145C SR**

CASE
CONSTRUCTION



**COMPACT
PERFORMANCE**

www.casece.com

**EXPERTS FOR THE REAL WORLD
SINCE 1842**

MAIN REASONS TO CHOOSE THE C-SERIES



BEST IN CLASS PRECISION AND CONTROLLABILITY

A very smooth control to get the job done easily and in total safety



HIGH EFFICIENCY

CASE Intelligent Hydraulic System (CIHS), in combination with the powerful TIER 4 Interim diesel engine, leads to fuel savings of up to 9% compared to the previous model



HIGH RELIABILITY

Robust design, high quality components and durable materials



GREAT VERSATILITY

- 3 available power modes to match customers needs (A, H, SP)
- Auto Power boost job-sensing hydraulic pressure increase



FULL SPECIFICATION EXCAVATORS

- Short Radius design, ideal for any jobsite where space is limited
- Wide offering of auxiliary hydraulics (multi-function and low flow)
- Undercarriage equipped with the blade as standard
- Standard/Offset boom to fulfill any customer need



COMFORTABLE AND SAFE CAB

- Certified ROPS and FOPS level 2 cab
- Larger cab with multi-adjustable suspension seat and increased foot space
- Improved air conditioning system
- Wide glazed area for an outstanding visibility



FAST CYCLES

Pump Torque Variable Control provides perfect control of the engine and hydraulic system, further boosting productivity



SAFE OPERATION AND MAINTENANCE

- All filters grouped together for an easy and safe access from the ground
- Standard EMS bushing cut greasing intervals to every 1,000 hours

C-SERIES HYDRAULIC EXCAVATORS



SHORT SWING RADIUS

The new CX145C SR is the perfect machine for road construction, bridges projects and urban construction sites, any jobsite where space is limited without the risk of machines damage.

ROBUST QUALITY

The short radius machines continue a Case tradition of robust design and high quality build. By bringing together the highest quality components and materials in a machine that has been designed to work productively, Case has further improved reliability and durability, reducing ownership costs and cutting downtime for the customer.

OPTIONAL OFFSET BOOM

The optional Offset boom allows the operator to enlarge the working range staying in the same position, improving the capability to work in narrow and restricted spaces and along the walls.



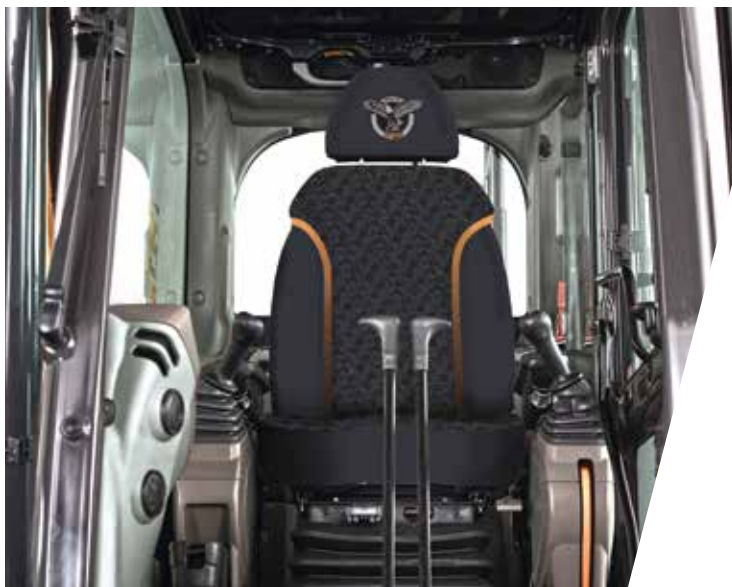


PERFORMANCE AND EFFICIENCY

The Case Intelligent Hydraulic System (CIHS) incorporates a host of energy saving, performance enhancing functions to boost efficiency and machine output. A simple operating mode dial delivers three working modes with Super Power set to provide maximum horsepower and hydraulic output. A Powerboost function provides an 8 second boost for maximum digging performance. 5 Energy saving functions allow to optimize performances reducing the fuel consumption depending on the working conditions.

OPERATOR COMFORT AND SAFETY

ROPS and FOPS Level 2 cab delivers an almost automotive noise level. Efficient air conditioning system, multi-adjustable suspension seating, increased foot space, cup holder and storage compartments deliver the most productive working environment possible. The new full-colour Multifunction Display provides access to on-board diagnostics, reducing downtime for service and maintenance. An ECO gauge provides a constant real-time recording of fuel consumption.



SIMPLIFIED MAINTENANCE

A redesigned upper structure provides access to all service points from ground level, with large side opening access doors. All filters are grouped together for easy access, reducing service time. A synthetic filter extends hydraulic oil service intervals to 5,000 hours while engine oil change intervals are set at a competitive 500 working hours. In addition remote greasing points and standard EMS bushings cut greasing intervals to every 1,000 hours. Side-by-side coolers and radiators are easily accessed for cleaning and maintenance.

When the unexpected occurs, you need to know your equipment is protected.
At Case Construction we understand the importance of your machinery being in good working order when it counts.

ProCover is designed to help keep your equipment working well beyond the manufacturer's base warranty period while taking away the concerns of the cost and inconvenience of mechanical failure.

WHAT ARE THE ADVANTAGES OF PROCOVER?

PEACE OF MIND

Provides protection beyond the Manufacturer's Base Warranty Period.

FLEXIBLE OPTIONS

Plans can be customised to meet individual needs.

DEPENDABLE SERVICE

Eligible repairs completed by an authorised Case Construction Dealership and their trained service technician's using genuine OEM parts & lubricants.

TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge

COVERAGE

- **STANDARD PROTECTION PLAN** **3 Years / 5000 Hours**
Additional years/hours can be purchased.
Please contact your local Case Construction dealer for further information.



STANDARD PROCOVER PLUS PROTECTION PLAN

CONSTRUCTION EQUIPMENT MASTER PARTS SCHEDULE

This plan provides coverage for the components listed below when a failure occurs due to a defect in material or workmanship, and may provide coverage for additional components not listed when the damage is caused by or resulting from a covered failure of a listed component.

PREMIER COMPONENTS COVERED

ENGINE AND ALL INTERNAL LUBRICATED COMPONENTS WITHIN	TRANSMISSIONS/AXLES/HYDROSTATICS	ELECTRICAL	HYDRAULICS
Accessory Gears	Axle Housing	Alternator	Accumulator And Related Relief Valve
Air Intake Hose	Axle Shaft	Gauges	Brake Accumulator
Camshaft	Clutch Discs (Wet Only)	Horn	Brake Pressure Sensor
Camshaft Bearings	Clutch Plates (Wet Only)	Indicators	Brake Pump, Brake Valve
Camshaft Drive Gear	Control Rods	Instruments	Differential Lock Valve
Catalytic Converter	Counter Shaft Clutch	Electronic Joysticks	Fan Pumps And Motors
Charge Air Cooler	Differential Housing	Electric Motors	Hydraulic Cylinders
Cold Start Enrichment Systems	Differential Pinion Gear / Ring Gear	Factory Installed Telematics	Hydraulic Hoses and Piping
Connecting Rods & Bearings	Drive Axle Hub	Sensors	Hydraulic Motors
Crankshaft Bearings & Gear	Drive Shaft Support Bearing	Solenoid Valves	Hydraulic Oil Coolers
Crankshaft Including Front And Rear Crankshaft Seals	Drive Shaft with Universal Joints	Starter And Starter Solenoid	Hydraulic Pumps
Cylinder Heads/ Head Gaskets	Electronic Transmission Controller and Valve	Switches	Hydraulic Reservoir
Cylinder Liners	Enclosed Oil Immersed Chains and Sprockets	Traction Control System	Hydraulic Valves
Diesel Exhaust Fluid Tank and Dispensing System	External Oil Lines	Voltage Regulator	Internal O-Rings and Bonded Washers
Diesel Particulate Filter	Filler Tubes (Transmission)	Wiring Harnesses	Pilot Control
EGR System Manifold	Final Drive Pinion	Wiring Harnesses Exclusions	Pressure Reducing Valves
Electronic Engine Control Module	Final Drive Planetary Gears	Rubbing, Chafing, Loose Or Corroded Connections	Unloading Valves
Engine Block	Front Wheel Drive Sensors	FACTORY INSTALLED HEAT AND AIR CONDITIONING	STRUCTURAL
Engine Mounts And Supports	Hydraulic Drive / Travel Motor	Accumulator	Backhoe Booms
Engine Oil Cooler	Hydraulic Drive Pump	Clutch	Backhoe/Excavator Dipper Sticks
Engine Speed Controls, Linkages, and Cables	Hydraulic Transmission-Control Valve	Compressor	C Frame
Exhaust Manifold and Muffler	Hydrostatic Motor	Condenser	Car Body
Fan And Fan Drive	Hydrostatic Transmission Charge Pump	Dryer	Chassis
Filter Mount	Hydrostatic Transmission Pump	Evaporator	Circle Frame
Flywheel, Ring Gear	Hydrostatic/Hydraulic Pump Drives	Expansion Valve	Engine Frame
Front And Rear Engine Covers And Seals	Internal Lubricated Clutch Housings	Heater Core	Equipment Frame
Front Damper	Internal Transmission Control Linkage	Hoses	Excavator Booms
Fuel Lines	Internal Wet Service Brakes	Pulley	Falling Object Protection Structure (FOPS)
Fuel Tank	MFWD Axle/Differential Assembly including Driveshaft and U Joint	Seals & Gaskets	Forklift Masts
Fuel Transfer Pump & Gasket	Planetary Gear Carrier	Temperature Control Programmers and Valves	Inner and Outer Dipper Arms of the Extendable Boom (Backhoe Loader)
Injection Pump	Pneumatic Valves	OPERATOR AREA	Main Frame
Injectors	Rotary Hydraulic Manifold	Covers and Panels	Rollover Protection Structure (ROPS)
Intake and Exhaust Manifold And Gaskets	Splitter Drive/Drop Box	Exterior/Interior Door/Panel Latches, Hinges & Struts	Swing Frame
Oil Filler Tube	Steering Clutches (Wet)	Exterior/Interior Moldings	Swing Tower Castings (Backhoe Loader)
Oil Lines	Swing Motor And Swing Gear Box	Knobs for Switches and Handles	Track Frame
Oil Pan And Gasket	Torque Converter	Mirrors	Wheel Loader/Skid steer Loader Arms
Oil Pump	Torque Converter Pump	Seat Frame & Suspension	
Pistons & Rings	Transfer Drive		
Pre-Cleaner/Air Cleaner Housing	Transmission Case		
Pressure/Temperature Sensors & Sending Units	Transmission Gears, Bearings, & Shafts		
Pulleys	Transmission Pump		
Radiator	Travel & Swing Sections (only) Of Main Control Valve		
Rocker Arm Assembly	Travel Control Valve		
Selective Catalytic Reduction System	Turntable Bearing		
Thermostats	Undercarriage Roller And Idler Seals And Bearings		
Timing Gears	Undercarriage Tensioners		
Turbocharger And Gasket	UNDERCARRIAGE EXCLUSIONS:		
Valve Cover And Gasket	Sprocket, Tracks, Pads, Bolts, Chains, Or Any Failure Due To Wear, Or Breakage Caused By Wear		
Water Piping			
Water Pumps			

C-SERIES HYDRAULIC EXCAVATORS

ENGINE

Model _____ Tier 4 interim certified ISUZU AM-4JJ1X
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line,
 High pressure common rail system (electric control), Turbocharger with air
 cooled intercooler, DPD system
 Number of cylinders _____ 4
 Bore/Stroke _____ 95.4 x 104.9 mm
 Horsepower ISO 9249 _____ 74.9 kW at 2000 min-1
 Maximum torque ISO 9249 _____ 359 Nm at 1600 min-1

HYDRAULIC SYSTEM

Max oil flow _____ 2 x 129 l/min @ 2000 min-1
 2 variable displacement axial piston pumps with regulating system
 Working circuit pressure _____
 Boom/Arm/Bucket _____ 34.3 MPa
 Boom/Arm/Bucket (with auto power up) _____ 36.3 MPa
 Swing circuit _____ 28.0 MPa
 Travel circuit _____ 34.3 MPa
 Auxiliary hydraulic flow and pressure for attachments _____ 34.3 MPa

SWING

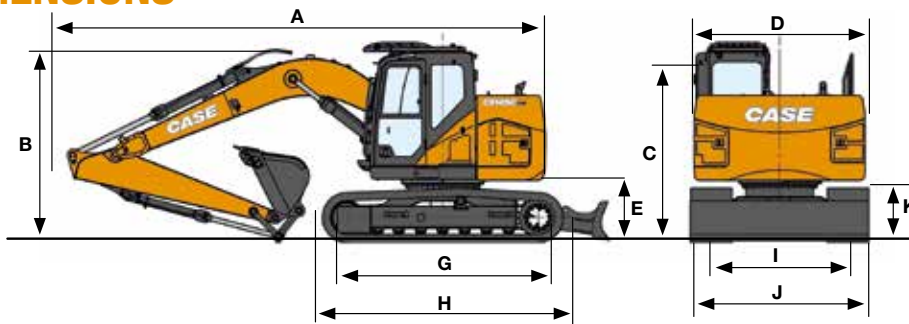
Maximum swing speed _____ 10.6 min-1

WEIGHT

With 2,50 m Arm, 0.5 m³ bucket, operator, lubricant,
 coolant and full fuel tank and top guard OPG level 2

CX145C SR BLADE WITH STD BOOM	WEIGHT (KG)
500 mm grouser shoe	15,000

GENERAL DIMENSIONS



		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
CX235C SR	Overall length (without attachment)	mm	4160	4160
A	Overall length (with attachment)	mm	7880	7620
B	Overall height (with attachment)	mm	2900	2900
C	Cab height	mm	2900	2900
D	Upper structure overall width	mm	2490	2490
	Swing (rear end) radius	mm	1490	1490
E	Clearance height under upper structure	mm	880	880
F	Minimum ground clearance	mm	440	440
G	Wheel base (Center to center of wheels)	mm	2790	2790
H	Crawler overall length	mm	3500	3500
I	Track gauge	mm	1990	1990
J	Undercarriage overall width (with 500 mm shoes)	mm	2490	2490
K	Crawler tracks height	mm	790	790

BLADE DIMENSIONS AND RANGE

CX145C SR BLADE / OFFSET BOOM	
Blade dimensions (width x height)	2490 x 570 mm
Blade range (up/down)	510 x 520 mm

TRAVEL

Travel motor _____ Fixed displacement axial piston motor
 Max travel speed _____ 5.6 km/h (Automatic travel speed shifting)
 Low travel speed _____ 3.4 km/h
 Gradeability _____ 70% (35°)
 Drawbar pull _____ 116 kN

ELECTRICAL SYSTEM

Circuit _____ 24 V
 Alternator _____ 50 Amp

UNDERCARRIAGE

Number of carriers rollers (each side) _____ 1
 Number of track rollers (each side) _____ 7
 Number of shoes (each side) _____ 43
 Type of shoe _____ Triple grouser shoe

CAPACITIES

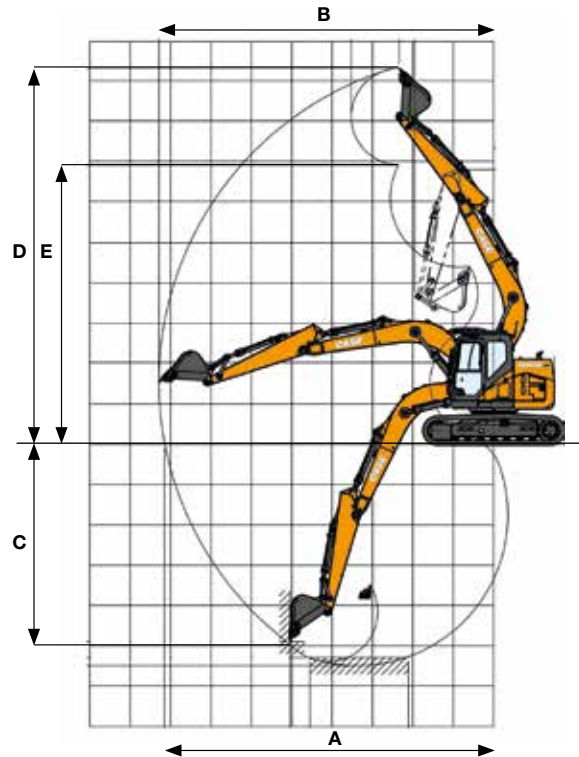
Fuel tank _____ 320 ltr
 Hydraulic system _____ 252ltr
 Cooling system _____ 15.3 ltr
 Noise level inside cab _____ 73 dB(A)

With 2,11 m Arm, 0.45 m³ bucket, operator, lubricant,
 coolant and full fuel tank and top guard OPG level 2

CX145C SR BLADE WITH OFFSET BOOM	WEIGHT (kg)
500 mm grouser shoe	15,700

SPECIFICATIONS

CX145C SR



CX145C SR BLADE		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
Boom length	mm	4630	4500	4500
Bucket radius	mm	1200	1200	1200
Bucket wrist action	°	178	178	178
A Maximum reach at GPR	mm	8140	7430	7690
B Maximum reach	mm	8290	7590	7840
C Max. digging depth	mm	5510	4910	5210
D Max digging height	mm	9340	8630	8810
E Max. dumping height	mm	6940	6250	6430

DIGGING FORCE

ISO 6015

CX145C SR BLADE		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
Arm digging force	kN	62	59.5	54.4
- with auto power	kN	66		
bucket digging force	kN	90	89.3	89.3
- with auto power up	kN	95		

LIFTING CAPACITY

Front 360°	REACH											
	0 m	1.5 m	3.0 m	4.5 m	6.0 m	7.5 m	At max reach			m		

CX145C SR. Blade Down. Standard arm. 2.50 m arm length, 0.50 m³ bucket, 500G shoes, max reach 8.29 m

7.5 m							2360*	2360*				1290*	1290*	5.24					
6.0 m							2950*	2950*	2320*	2320*		1090*	1090*	6.7					
4.5 m							3680*	3680*	2930*	2320	1090*	1090*	1030*	1030*	7.52				
3.0 m							7190*	6990	5210*	3580	3860*	2200	2300*	1460	1030*	1030*	7.92		
1.5 m							9690*	6280	6250*	3300	4660*	2070	2760*	1400	1100*	1100*	8		
0 m							2760*	2760*	8330*	5780	6640*	3070	4790*	1960	2470*	1350	1230*	1230	7.77
-1.5 m							5160*	5160*	9610*	5730	6420*	2970	4560*	1910			1490*	1430	7.22
-3.0 m							8080*	8080*	7820*	5850	5360*	3030	3430*	1980			2040*	1820	6.26
-4.5 m							4370*	4370*	2560*	2560							2110*	2110*	4.69

CX145C SR. BLADE DOWN. Offset boom, 2.11 m arm length, 0.45 m³ bucket, 500G shoes, max reach 7.59 m

7.5 m																	1790*	1790*	3.95
6.0 m																	2430*	2430*	5.82
4.5 m																	3290*	3290*	6.76
3.0 m																	6540*	6540*	7.22
1.5 m																	8500*	5860	7.31
0 m																	7240*	5300	7.06
-1.5 m																	4940*	4940*	6.44
-3.0 m																	7040*	7040*	5.34

CX145C SR. BLADE DOWN. Offset boom, 2.41 m arm length, 0.37 m³ bucket, 500G shoes, max reach 7.84 m

7.5 m																			1690*	1690*	4.45
6.0 m																			2370*	2370*	6.15
4.5 m																			2720*	2720*	7.04
3.0 m																			6050*	6050*	7.47
1.5 m																			8140*	6040	7.56
0 m																			7660*	5360	7.31
-1.5 m																			4580*	4580*	6.72
-3.0 m																			6940*	6940*	5.68
-4.5 m																			4400*	4400*	3.91

CX145C SR. BLADE UP. Standard boom. 2.50 m arm length, 0.50 m³ bucket, 500G shoes, max reach 8.29 m

7.5 m																			1290*	1290*	5.24
6.0 m																			2950*	2950*	6.7
4.5 m																			3680*	3680*	7.52
3.0 m																			7190*	6990	7.92
1.5 m																			9690*	6280	8
0 m																			2760*	2760*	7.77
-1.5 m																			5160*	5160*	7.22
-3.0 m																			8080*	8080*	6.26
-4.5 m																			4370*	4370*	4.69

CX145C SR. BLADE UP. Offset boom, 2.11 m arm length, 0.45 m³ bucket, 500G shoes, max reach 7.59 m

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3.0 m																			6550*	6550*	7.22
1.5 m																			8490	5550	7.31
0 m																			7270*	5000	7.06
-1.5 m																			5060*	5060*	6.44
-3.0 m																			7090*	7090*	5.34

CX145C SR. BLADE UP. Offset boom, 2.41 m arm length, 0.37 m³ bucket, 500G shoes, max reach 7.84 m

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STANDARD

ENGINE

Isuzu 4-cylinder turbodiesel in line
Certified Tier 4 interim
Electronic fuel injection
High pressure common rail system
Variable geometry turbo charger
Cooled Exhaust Gas Recirculation (CEGR)
Diesel Particulate Diffuser (DPD)
Neutral safety start
Auto-engine warm up, emergency stop
Glow-plug pre-heat
Idle System:
Auto-idle
One-touch idle
Idle shut-down
EPF (Engine Protection Feature)
Dual-stage fuel filtration
Dual element air filter
Remote oil filter
Green plug oil drain
500-hour engine oil change interval
Refuelling Pump

HYDRAULICS

Auto power boost
Auto swing priority
Auto travel speed change
Selectable work modes
Overload warning device
SWC - SWING RELIEF CONTROL
SSC - SPOOL STROKE CONTROL
BEC - BOOM ECONOMY CONTROL
AEC - AUTO ECONOMY CONTROL
SEC - SWING ECONOMY CONTROL

ISO pattern controls
Pre-set auxiliary pump settings
Switch controlled auxiliary selection
Auxiliary valve
Auxiliary pipe brackets
5,000 hour hydraulic oil change interval
1,000 hour hydraulic filter change interval
Hydraulic track adjustment
SAHR brake

UPPERSTRUCTURE

Common key vandal locks
Swivel guard belly pan
Rear view safety camera
Isolation mounted cab (fluid and spring)

ATTACHMENT

Boom mounted work light (70 watt)
Auxiliary pipe brackets
Centralized lube bank
Attachment cushion valve
Arm and boom regeneration
Standard boom 4.63 m
Arm 2.50 m
Arm and boom hose burst check valves
EMS bushings
Safety valves on boom and arm cylinders with overload warning device

OPERATOR STATION

ROPS/FOPS level 2 cab
Pressurized cab
Tempered safety glass
One-touch lock front window
Sun visor & rain deflector

AC/heat/defrost w/ auto climate control
Cup holder & ashtray
Interior dome light
Cloth covered air-suspension seat
Seat-belt
Adjustable armrests
Low-effort controls (short)
Radio mute switch on control lever
Controls pre-wired for auxiliary
Auxiliary select system
Straight travel
Aux-in port for personal electronics
Multifunction color monitor
Rear-view camera
Anti-theft system (start code system)
Rubber floor mat
12-volt electric socket
24-volt cigarette lighter
One-piece right hand window
2 internal & 3 external view mirrors
2 working lights (boom & upperstructure)
2 cab top working lights
Windshield wiper / washer
Clear (Lexan) roof window w/sunshade
Storage compartments
On-board diagnostic system

UNDERCARRIAGE

500 mm steel shoes, triple semigrouser strutted and sealed link
Full overlap turntable bearing tub
Single track guide

Standard and optional equipment shown can vary by country.

www.casece.com

EXPERTS FOR THE REAL WORLD
SINCE 1842

CASE

CONSTRUCTION



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NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.