John Deere 860-B Scraper

Technical Manual





JD860-B Scraper

Technical Manual TM-1171

SECTIONAL CONTENTS OF THIS MANUAL

Section I - General Information	İ
Section 1 - Wheels	1
Section 2 - Axles and Suspension System	2
Section 3 - Transmission	3
Section 4 - Engine	4
Section 5 - Engine Auxiliary Systems.	5
Section 6 - Torque Converter	6
Section 7 - Traction (Engine) Clutch	NOT USED 7
Section 8 - Transfer Drive	NOT USED 8
Section 9 - Steering Systems	9
Section 10 - Service Brakes	10
Section 11 - Parking - Emergency Brakes	11
Section 13 - Miscellaneous Vehicle	NOT USED 13
Section 15 - Equipment Attaching	NOT USED 15

Continued on page 3

Copyright© 1977 DEERE & COMPANY Moline, Illinois All Rights Reserved Thanks very much for your reading,

Want to get more information,

Please click here, Then get the complete
manual



NOTE:

If there is no response to click on the link above, please download the PDF document first, and then click on it.

Have any questions please write to me: admin@servicemanualperfect.com

SECTIONAL CONTENTS (Continued)

Section 16 - Electrical Systems	16
Section 17 - Frame, Chassis or Supporting Structure	17
Section 18 - Operator's Station	18
Section 19 - Sheet Metal and Styling	19
Section 20 - Safety, Convenience and Miscellaneous	20
Section 21 - Main Hydraulic System	21
Section 22 - Pneumatic Systems	NOT USED 22
Section 30 - Winch	NOT USED 30
Section 31 - Loader	NOT USED 31
Section 32 - Bulldozer	NOT USED 32
Section 33 - Backhoe and Excavator	NOT USED 33
Section 34 - Grading Device	NOT USED 34
Section 35 - Scraper and Haulage Device	35
Section 36 - Conveyor and Elevating Device	36
Section 37 - Arch or Boom, or Cranes	NOT USED 37
Section 38 - Grapple	NOT USED 38
Section 39 - Shear	NOT USED 39

SECTIONAL CONTENTS (Continued)

Section 40 - PTO or Winch Drive		NOT USED	40
Section 41 - Misc. Function Mechanical Drive		NOT USED	41
Section 42 - Ground Conditioning Tool		NOT USED	42
Section 43 - Swing, Rotation or Pivoting System		NOT USED	43
Section 44 - Cutting Mechanism	···	NOT USED	44
Section 45 - Forklifts		NOT USED	45
Section 46 - Automatic Control		NOT USED	46
Section 90 - System Testing			90

The specifications and design information contained in this manual were correct at the time it was printed. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

- COMOTILO ATIO II

SECTION AND GROUP CONTENTS OF THIS MANUAL

SECTION I - GENERAL INFORMATION

GROUP I - Contents, Index and Page List

GROUP II - Introduction and Safety Information

GROUP III - General Specifications

GROUP IV - Predelivery, Delivery and After-Sale Services

GROUP V - Lubrication

SECTION 1 - WHEELS

GROUP 0110 - Powered Wheels and Fastenings

GROUP 0120 - Non-Powered Wheels and Fastenings

GROUP 0199 - Specifications and Special Tools

SECTION 2 - AXLES AND SUSPENSION SYSTEM

GROUP 0201 - Drive Axle Housing and Support

GROUP 0210 - Differential or Bevel Drive

GROUP 0225 - Input Drive Shafts and U-joints

GROUP 0230 - Non-Powered Wheel Axles

GROUP 0250 - Axle Shaft, Bearings, Reduction Gears

GROUP 0299 - Specifications and Special Tools

SECTION 3 - TRANSMISSION

GROUP 0325 - Input Drive Shafts and U-joints

GROUP 0341 - Housings and Covers

GROUP 0350 - Gears, Shafts, Bearings and Power Shift Clutch

GROUP 0360 - Hydraulic System

GROUP 0399 - Specifications and Special Tools

SECTION 4 - ENGINE

GROUP 0400 - Engine Removal and Installation

GROUP 0401 - Crankshaft and Main Bearings

GROUP 0402 - Camshaft and Valve Actuating Means

GROUP 0403 - Connecting Rods and Pistons

GROUP 0404 - Cylinder Block

GROUP 0407 - Oiling System

GROUP 0408 - Ventilating System

GROUP 0409 - Cylinder Head and Valves

GROUP 0410 - Exhaust Manifold

GROUP 0413 - Fuel Injection System

GROUP 0414 - Intake Manifold

GROUP 0416 - Turbocharger

GROUP 0417 - Water Pump

GROUP 0418 - Thermostats, Housing and Water Piping

GROUP 0419 - Oil Cooler

GROUP 0420 - Fuel Filter

GROUP 0421 - Fuel Transfer Pump

GROUP 0422 - Starting System

SECTION 4 - ENGINE (Continued)

GROUP 0423 - Alternator and Generator Mounting

GROUP 0429 - Fan Drive

GROUP 0433 - Flywheel, Housing and

Fastenings

GROUP 0499 - Specifications and Special Tools

SECTION 5 - ENGINE AUXILIARY SYSTEMS

GROUP 0505 - Cold Weather Starting Aids

GROUP 0510 - Cooling Systems

GROUP 0515 - Speed Controls

GROUP 0520 - Intake System

GROUP 0530 - External Exhaust Systems

GROUP 0540 - Mounting Frame

GROUP 0560 - External Fuel Supply Systems

GROUP 0599 - Specifications and Special Tools

SECTION 6 - TORQUE CONVERTER

GROUP 0641 - Housing and Cover

GROUP 0651 - Turbines, Gears, Shafts, Etc.

GROUP 0660 - Hydraulic System

GROUP 0699 - Specifications and Special Tools

SECTION 9 - STEERING SYSTEM

GROUP 0960 - Hydraulic System

GROUP 0999 - Specifications and Special Tools

SECTION 10 - SERVICE BRAKES

GROUP 1011 - Active Elements

GROUP 1015 - Controls Linkage

GROUP 1060 - Hydraulic System

GROUP 1099 - Specifications and Special Tools

SECTION 11 - PARKING-EMERGENCY BRAKES

GROUP 1111 - Active Elements

GROUP 1115 - Controls Linkage

GROUP 1199 - Specifications and Special Tools

SECTION 16 - ELECTRICAL SYSTEM

GROUP 1671 - Batteries, Supports and Cables

GROUP 1672 - Alternator, Regulator and Charging System Wiring

GROUP 1673 - Lighting System

GROUP 1674 - Wiring Harness and Switches

GROUP 1675 - System Controls

GROUP 1676 - Instruments and Indicators

GROUP 1699 - Specifications and Special Tools

SECTION 17 - FRAME, CHASSIS OR SUPPORTING STRUCTURE

GROUP 1740 - Frame Installation

GROUP 1746 - Frame Bottom Guards

GROUP 1799 - Specifications and Special Tools

SECTION AND GROUP CONTENTS OF THIS MANUAL (Continued)

SECTION 18 - OPERATOR'S STATION

GROUP 1810 - Operator Enclosure

GROUP 1821 - Seat and Seat Belt

GROUP 1830 - Heating and Air Conditioning

GROUP 1899 - Specifications and Special Tools

SECTION 19 - SHEET METAL AND STYLING

GROUP 1910 - Hood or Engine Enclosure

GROUP 1913 - Miscellaneous Shields

GROUP 1921 - Grille and Grille Housing

GROUP 1927 - Fenders

SECTION 20 - SAFETY, CONVENIENCE AND MISCELLANEOUS

GROUP 2004 - Horn

GROUP 2006 - Cigar Lighter

SECTION 21 - MAIN HYDRAULIC SYSTEM

GROUP 2160 - Hydraulic System

GROUP 2199 - Specifications and Special Tools

SECTION 35 - SCRAPER AND HAULAGE DEVICE

GROUP 3501 - Blades or Cutting Edges

GROUP 3515 - Controls Linkage

GROUP 3540 - Frames

GROUP 3560 - Hydraulic System

GROUP 3599 - Specifications and Special Tools

SECTION 36 - CONVEYOR AND ELEVATING DEVICE

GROUP 3612 - Conveyor or Mast

GROUP 3640 - Conveyor and Elevating Device Frame

GROUP 3650 - Gear Box

GROUP 3660 - Hydraulic System

GROUP 3699 - Specifications and Special Tools

SECTION 90 - SYSTEM TESTING

GROUP 9005 - General Information - Seven

Basic Steps of Testing and

Diagnosis

GROUP 9010 - Engine

GROUP 9015 - Electrical

GROUP 9020 - Power Train

GROUP 9025 - Hydraulic System (Flow Meter)

GROUP 9030 - Miscellaneous Components

GROUP 9031 - Heating and Air Conditioning

GROUP 9035 - Specifications and Special Tools

ALPHABETICAL INDEX

A	Air conditioning system
Accelerator pedal	Blower motor
Accessory relay	Compressor
Accumulator, brake	Compressor relief valve
Accumulator, brake and	Condenser
differential lock	Evaporator
Adjusting idler 3612-10	Expansion valve
After-sale inspection I-IV-19	High pressure switch
Accumulator action I-IV-30	Receiver-dryer
Air cleaner I-IV-19	Thermal fuse and superheat
Air conditioner I-IV-32	shut-off switch 1830-25
Air intake hoses I-IV-19	Thermostatic temperature
Axle housing mounting nuts I-IV-36	control switch
Batteries I-IV-19	Air conditioning system testing 9031-1
Belt tension	Adding Refrigerant-12 to system 9031-16
Cab equipmentI-IV-33	Charging system 9031-14
Crankcase oil level and filter I-IV-21	Component location 9031-2
Differential housing oil level I-IV-35	Diagnosing malfunctions 9031-6
Differential lock I-IV-28	Discharging system 9031-12
Drive axle oil levelI-IV-35	Electrical testing
Elevator gearbox I-IV-35	Evacuating system 9031-13
Engine coolant conditioner filter I-IV-22	Flushing system components 9031-18
Engine speeds I-IV-29	Inspecting refrigerant hoses
Fluid leakage I-IV-16	and tubing
Fuel filters I-1V-22	Isolating compressor from
Gauges, switches and indicator	system
lights I-IV-25	Leak testing 9031-17
Grease fittings I-IV-37	Operational test 9031-12
Hardware torque values I-IV-40	Operational theory 9031-1
Hydraulic reservoir oil and filters I-IV-20	Safety precautions 9031-9
Hydraulic system cycle times I-IV-32	Schematic
Lights I-IV-40	System service - pressure
Oscillation hitch pivot cap screws I-IV-36	gauges9031-10
Parking brake I-IV-32	Visual checks
Power steering pump oil level I-IV-25	Air filter restriction indicator
Radiator	Alternator and generator mounting 0423-1
Seat I-IV-28	Alternator indicator light
Service brakes I-IV-30	Alternator, regulator and charging
Sliding floor rail bracket cap	system wiring
screws	Axle shaft, bearings, reduction
Steering links and steering	gears 0250-1
cylinder pin cap screws I-IV-37	Axles and suspension system:
Tire pressure I-IV-35	Axle shaft, bearings, reduction
Transmission oil and filter I-IV-12	gears 0250-1
Transmission shifting 1-IV-28	Differential or bevel gear 0210-1
Upper elevator sprocket cap	Drive axle housing and support 0201-3
screws	Input drive shafts and U-joints 0225-1
Wheel retaining cap screws I-IV-36	Non-powered wheel axles 0230-1
Air cleaner assembly	
	В
	Batteries, supports and cables 1671-3
	Battery testing 9015-16

Belly pan, frame	Crankshaft and main bearings 0401-1
Belly pan, transmission	Cutting edge adjustment 9030-1
Block, cylinder 0404-1	Cutting edge assembly 3501-3
Blower motor	Cylinder block
Bowl and elevator control valve	Cylinder, bowl lift
linkage 3515-1	Cylinder, ejector gate
Bowl control valve	Cylinder, follow-up
Bowl lift cylinders	Cylinder head and valves 0409-1
Brake accumulator	Cylinder, sliding floor
Brake accumulator and differential	Cylinder, steering
lock	, ,
Brake, parking:	D
Active elements 1111-3	Delivery service I-IV-18
Controls linkage 1115-1	Diagnosing malfunctions:
Brake pressure indicator light 1676-6	Air conditioning system 9031-6
Brake pump	Electrical system 9015-10
Brake valve	Engine system 9010-5
Brakes, service:	Hydraulic system (flow meter) 9025-26
Active elements	Power train system 9020-17
Controls linkage 1015-1	Diagnosis and testing 9005-3
Hydraulic system 1060-1	Differential or bevel gear 0210-1
Accumulator	Accumulator, brake
Brake pump 1060-4	Differential
Brake system filters 1060-12	Differential lock control valve 0210-13
Brake valve 1060-1	Downshift inhibitor
Low pressure warning	Draft frame
switch	Drive axle housing and support 0201-3
Unloading valve	Drive shaft, transmission
Unloading valve	Drive shaft, transmission
С	Drive shaft, transmission
C Camshaft and valve actuating	Drive shaft, transmission 0325-3 E Ejector gate 3540-5
C Camshaft and valve actuating means	Drive shaft, transmission
C Camshaft and valve actuating means	Drive shaft, transmission 0325-3 E Ejector gate 3540-5 Ejector gate cylinders 3560-8 Electrical indicators 1676-6
C Camshaft and valve actuating means	Drive shaft, transmission 0325-3 E Ejector gate 3540-5 Ejector gate cylinders 3560-8 Electrical indicators 1676-6 Electrical instrument panel
C Camshaft and valve actuating means 0402-1 Canopy with roof and side panels 1810-4 Central lube system 3540-7 Chain, elevator 3612-7	Drive shaft, transmission 0325-3 E Ejector gate 3540-5 Ejector gate cylinders 3560-8 Electrical indicators 1676-6 Electrical instrument panel switches 1674-4
C Camshaft and valve actuating means 0402-1 Canopy with roof and side panels 1810-4 Central lube system 3540-7 Chain, elevator 3612-7 Charging circuit testing 9015-20	E Ejector gate
C Camshaft and valve actuating means 0402-1 Canopy with roof and side panels 1810-4 Central lube system 3540-7 Chain, elevator 3612-7 Charging circuit testing 9015-20 Check valve, elevator 3660-8	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate
C Camshaft and valve actuating means	E Ejector gate

Elevator:	Fan, engine cooling
Conveyor or mast 3612-	
Frame 3640-	
Gearbox	Filter, engine coolant conditioner 0510-4
Hydraulic system	1 Filter, fuel, engine 0420-1
Elevator, bowl and gate control	Flywheel, housing and fastenings0433-1
levers and linkage	1 Follow-up cylinders
Engine:	Frame bottom guards 1746-1
Alternator and generator mounting 0423-	1 Frame cover, rear
Camshaft and valve actuating	Frame, draft 1740-7
means 0402-	1 Frame, elevator
Connecting rods and pistons 0403-	
Crankshaft and main bearings 0401-	
Cylinder block 0404-	
Cylinder head and valves 0409-	
Exhaust manifold	
Fan drive 0429-	
Flywheel, housing and fastenings 0433-	
Fuel filter	
Fuel injection system 0413-	
Fuel transfer pump 0421-	
Intake manifold 0414	
Oil cooler	_
Oiling system 0407-	
Removal and installation	
Starting motor and fastenings 0420-	- · · · · · · · · · · · · · · · · · · ·
	Gauge, transmission oil pressure
Thermostats, housings and	
water piping 0418-	
Turbocharger 0416	
Ventilating system	
Water pump 0417	
Engine auxiliary systems:	transmission)
Cold weather starting aids 0505	
Cooling systems	
External exhaust systems 0530	
External fuel supply systems 0560	
Intake system 0520	
Mounting frame 0540	
Speed controls 0515	
Engine coolant conditioner filter 0510	
Engine coolant heater	
Engine coolant temperature gauge 1676	
Engine oil pressure gauge 1676	
Engine removal and installation 0400	
Engine stop cable	-3 Hydraulics, brake 1060-1
Engine system testing 9010	
Evaporator	
Exhaust manifold 0410	
Exhaust system, engine 0530	-1 Hydraulics, steering system 0960-3
Expansion valve 1830-2	
	See transmission hydraulics 0360-1
F	Hydraulics, transmission
Fan drive	-1
Fan drive support 0429	
• •	

1	N
Idler, adjusting	Non-powered wheels and
Idler, lower	fastenings
Idler, upper 3612-3	Nozzle, fuel injection
Input drive shafts and U-joints,	
axle system	0
Input drive shafts and U-joints,	Oil cooler, engine0419-1
transmission 0325-3	Oil cooler, transmission
Instrument panel switches	Oil lines, transmission
Instruments and indicators 1676-1	Oil pump, transmission
Instruments and indicators	Oiling system, engine 0407-1
circuit testing	Oils
Intake manifold	Oscillation hitch 1740-5
Intake system, engine	Р
Intercooler 0414-1	-
K	Parking brake: Active elements
Key switch	Controls linkage
	Periodic service chart
Light, alternator indicator 1676-6	Pistons and connecting rods
Light, brake pressure indicator	Power shift clutch
Light, parking brake indicator	(See transmission)
Light, turn indicator	Power train system testing 9020-1
Lighter, cigar	Powered wheels and fastenings
Lighting circuit testing 9015-24	Predelivery service
Lighting system	Accumulator action I-IV-9
Liner, cylinder 0404-1	Air cleaner
Lockup clutch valve	Air conditioner
Low pressure warning switch 1060-11	Air intake hoses I-IV-2
Lower idler	Batteries I-IV-2
Lubrication I-V-1	Belt tension I-IV-4
·	Bleeding fuel system I-IV-3
M	Cab equipment
Main frame 1740-3	Crankcase oil level I-IV-3
Main hydraulic system 2160-1	Differential housing oil level I-IV-12
Malfunctions, diagnosing:	Differential lock I-IV-9
Air conditioning system	Elevator gearbox oil level I-IV-13
testing	Engine speeds I-IV-9
Electrical system 9015-10	Final check I-IV-17
Engine system 9010-5	Fluid leakage I-IV-16
Hydraulic system (flow	Fuel filters
• meter) 9025-26	Fuel tank I-IV-5
Power train system	Gauges, switches and
Manifold, exhaust	indicator lights I-IV-5 Grease fitting check I-IV-14
Manifold, intake	Hydraulic reservoir oil level
Manifold, water	Hydraulic system cycle times I-IV-11
	Lights I-IV-17
Mechanical sensing gauges	Oscillation hitch pivot cap
Motor, elevator	screws I-IV-13
Motor, starting	Parking brake I-IV-10
Mounting, alternator and generator	Power steering pump oil level I-IV-5
Mounting, are major and generator	Radiator I-IV-4
Muffler 0530-1	Tiddiator
Widillot	

Predelivery service - Continued	Special tools:
Seat I-IV-8	Air conditioning system 1899-4
Service brakes I-IV-10	Alternator, regulator and
Tire pressure I-IV-13	charging system wiring 1699-7
Torque values, accessible	Batteries, supports and cables 1699-6
hardware I-IV-17	Camshaft and valve actuating
Transmission oil level I-IV-12	means 0499-28
Transmission shifting I-IV-9	Connecting rods and pistons 0499-30
Wheel retaining cap screws I-IV-13	Conveyor and elevating device
Pressure regulator valve	frames
Primary steering pump	Conveyor and elevating device
Pump, brake 1060-4	hydraulic system 3699-1
Pump, elevator hydraulic	Crankshaft and main bearings 0499-2
Pump, fuel injection 0413-1	Cylinder block
Pump, fuel transfer 0421-1	Cylinder head and valves 0499-33
Pump, oil, engine	Differential or bevel drive 0299-6
Pump, primary steering	Electrical system testing 9035-
Pump, secondary steering and	Elevator frames
brake 0960-5	Elevator hydraulic system
Pump, transmission oil	Engine removal and installation 0499-2
Pump, transmission tandem	Engine system testing 9035-
Pump, water, engine 0417-1	Frame installation
amp, water, original control control control	Main frame
R	Oscillation hitch and steering
Radiator and fan shroud 0510-1	link pins
Rail brackets	Fuel injection system
Range selector circuit testing 9015-34	Heating and air conditioning
Range selector control valve	system testing
Range selector system	Hydraulic system (flow meter)
Receiver-dryer	testing
Regulator and alternator	Hydraulics, scraper
Relays	Powered wheels and fastenings 0199-
Reservoir, hydraulic	Scraper hydraulics
•	Service brakes hydraulic
Reverse warning horn	-
Rocker arm assembly	system
0409-1, 0409-4	Steering system hydraulics
S	Torque converter turbine,
	gears, shaft, etc
Safety information	Transmission gears, shafts
Seat	and bearings
Seat adjustment 9030-3	Turbocharger 0499-3
Secondary steering and brake	Water pump 0499-3
pump 0960-5	Wheels, powered 0199-
Service brakes:	Specifications and torque values:
Active elements 1011-3	Air conditioning system 1899-
Controls linkage 1015-1	Alternator and generator
Hydraulic system	mounting
Service door 1910-7	Alternator, regulator and
Servo valve 0960-11	charging system wiring 1699-
Shields	Axle shaft, bearings,
Sliding floor	reduction gears 0299-
Sliding floor cylinder 3560-8	Batteries, supports and cables 1699-
Sod pan	Brake active elements 1199-

0 - 25 - 25 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	6 W
Specifications and torque values - Continued	Specifications and torque values - Continued
Camshaft and valve actuating	General - Continued
means 0499-5	Tractor oscillationI-III-1
Cold weather starting aids 0599-1	Transmission
Connecting rods and pistons 0499-7	Weight distribution
Conveyor and elevating device	Heating and air conditioning
frames	system testing 9035-14
Conveyor and elevating device	Hydraulic system (flow meter)
gearbox	testing 9035-11
Conveyor and elevating device	Hydraulics, scraper
hydraulic system	Input drive shafts and U-joints 0299-5
Cooling systems, engine 0599-1	Intake manifold 0499-17
Crankshaft and main bearings 0499-3	Lighting system 1699-4
Cylinder block	Non-powered wheel axles 0299-5
Cylinder head and valves 0499-12	Oil cooler0499-20
Differential or bevel drive 0299-2	Oiling system, engine 0499-11
Drive axle housing and support 0299-1	Power train system testing 9035-10
Electrical system testing 9035-6	Powered wheels and fastenings 0199-1
Elevator frames	Scraper frames
Elevator gearbox	Scraper hydraulics
Elevator hydraulic system 3699-7	Seat and seat belt
Engine break-in 0499-1	Service brakes active elements 1099-1
Engine removal and installation 0499-2	Service brakes controls linkage 1099-1
Engine system testing 9035-1	Service brakes hydraulic
Exhaust manifold 0499-15	system
External fuel supply systems 0599-2	Speed controls, engine 0599-2
Fan drive	Starting motor and fastenings0499-39
Flywheel, housing and fastenings 0499-25	Steering system hydraulics
Frame installation	System controls
Oscillation hitch and	Thermostats, housings and
steering link pins 1799-1	water piping
Frames, scraper	Torque converter housing and cover 0699-1
Fuel filter 0499-21	Torque converter turbine,
Fuel injection system 0499-16	gears, shaft, etc
Fuel transfer pump	Transmission gears, shafts
Gearbox	and bearings
General	Transmission hydraulic system
Bowl	Transmission input drive
Brakes	shafts and U-joints
Capacities I-III-2	Turbocharger
Capacity (SAE heaped)	Water pump
Cutting edge	Wheels, powered
Differential lock	Wiring harness and switches 1699-5
Drive axle	Speed controls, engine
Elevator I-III-2	Speedometer
Engine	Start aid switch
Hydraulic cylinders	Start aid testing 9015-32
Hydraulic system	Start circuit relay
Power	Start switch
Power steeringI-III-1	Starting aids, cold weather 0505-3
Scraper dimensions	Starting motor and fastenings
Special equipmentI-III-2	Steering arms
Standard equipment	Steering system hydraulics 0960-3
Tires	Steering control valve 0960-13 - 0960-14

Storage of scraper I-IV-1	Transmission oil pressure gauge 1676-2
Suspension seat	Transmission oil temperature gauge
Switch, high pressure	Turbocharger
Switch, key	Turn indicator lights
Switch, low pressure warning 1060-11	rain indicator agrics
Switch, solenoid	U
Switch, start	Unloading valve, brake
Switch, start aid	Upper idler assembly
Switch, superheat shut-off	Opper idier assembly
Switch, thermostatic temperature	V
control	Valve, bowl control
	Valve, bow control
Switch, wiper	·
Т	Valve, brake unloading
-	Valve, compressor relief
Tachometer	Valve, differential lock
Tandem pump, transmission	control
Tank, fuel	Valve, elevator control
Tests and adjustments;	Valve, expansion
Air conditioning system 9031-10	Valve, lockup clutch
Alternator	Valve, pressure regulator 0360-5
Batteries	Valve, range selector control
Compressor	Valve, servo 0960-11
Cutting edge adjustment	Valve, steering
Differential	Valve, steering control 0960-13
Electrical system 9015-15	Ventilating system, engine 0408-1
Engine system 9010-10	Ventilator outlet tube assembly 0408-1
Hydraulic system (flow meter) 9025-30 - 9025-45	
Miscellaneous components 9030-1	W
Power train 9020-21	Water manifold 0418-1
Range selector solenoid 1675-4	Water pump, engine 0417-1
Starting motor solenoid tests0422-3 - 0422-4	Wheel axles 0230-1
Turbocharger 0416-2	Wheels and fastenings 0110-3
Windshield wiper adjustment 9030-2	Windshield wiper 1810-3
Thermal fuse and superheat	Windshield wiper adjustment 9030-2
shut-off switch 1830-25	Wiper switch 1674-5
Thermostatic temperature control	Wiper testing
switch1830-22	Wiring harness and switches 1674-1
Thermostats, housings and	
water piping 0418-1	
Torque converter:	
Housing and cover 0641-3	
Hydraulic system - See	
transmission hydraulics,	
page 0360-1 - 0360-15	
Turbine, gears, shaft, etc 0651-1	
Transmission:	
Gears, shafts, bearings and	
power shift clutch 0350-1	
Housings and covers	
Hydraulic system	
Input drive shafts and U-joints 0325-3	
Input drive shafts and U-joints	
Input drive shafts and U-joints 0325-3	

COMPLETE PAGE LISTING WITH LATEST DATE LINES

I-I-12			WITH LATEST	DATE LINES		
I-I-5.6	I-I-1,2	(Dec-77)	2-0210-3,4	(Dec-77)	3-0399-11,12	(Dec-77)
I-I-7,8	I-I-3,4	(Dec-77)	2-0210-5,6	(Dec-77)	3-0399-13,14	(Dec-77)
I-I-7,8	I-I-5,6	(Dec-77)	2-0210-7,8	(Jun-79)	1 4 0400 1 0	(lum 70)
I-I-9, 10	I-I-7,8	(Jun-79)	2-0210-9,10	(Jun-79)	·	
	I-I- 9 ,10	(Jun-79)	2-0210-11,12	(Jun-79)		
I-I-15,14	I-I-11,12	(Jun-79)	2-0210-13,14			,
I-I-17,18 Jun-79 2-0225-1,2 Dec-77 4-0401-3,4 Jun-79 I-I-17,18 Jun-79 2-0225-1,2 Dec-77 4-0401-3,4 Jun-79 I-I-19,20 Jun-79 2-0230-1,2 Dec-77 4-0401-5,6 Jun-79 I-I-21,22* Dec-77 2-0250-3,4 Jun-79 4-0401-5,6 Jun-79 I-I-25,26* Dec-77 2-0250-3,4 Jun-79 4-0402-3,4 Jun-79 I-I-25,26* Dec-77 2-0299-1,2 Dec-77 4-0402-3,4 Jun-79 I-I-25,26* Dec-77 2-0299-1,2 Dec-77 4-0402-3,4 Jun-79 I-I-29,30* Dec-77 2-0299-5,6 Jun-79 4-0402-5,6 Jun-79 I-I-3,32* Dec-77 2-0299-7,8 Jun-79 4-0403-1,2 Jun-79 I-I-3,4 Jun-79 3-0325-1,2 Dec-77 4-0403-3,4 Jun-79 I-II-3,4 Jun-79 3-0325-3,4 Jun-79 4-0403-7,8 Jun-79 I-III-3,4 Jun-79 3-0325-3,4 Jun-79 4-0403-7,8 Jun-79 I-IV-1,2 Jun-79 3-0341-3,4 Jun-79 4-0403-4,4 Jun-79 I-IV-3,4 Jun-79 3-0341-3,4 Jun-79 4-0404-4,4 Jun-79 I-IV-3,4 Jun-79 3-0350-1,2 Dec-77 4-0404-3,4 Jun-79 I-IV-5,6 Jun-79 3-0350-3,4 Dec-77 4-0404-7,8 Jun-79 I-IV-7,8 Jun-79 3-0350-7,8 Dec-77 4-0404-7,8 Jun-79 I-IV-7,8 Jun-79 3-0350-7,8 Dec-77 4-0404-7,8 Jun-79 I-IV-1,14 Jun-79 3-0350-7,8 Dec-77 4-0404-7,4 Jun-79 I-IV-1,16 Jun-79 3-0350-7,8 Dec-77 4-0409-1,2 Jun-79 I-IV-1,16 Jun-79 3-0350-1,12 Dec-77 4-0409-1,2 Jun-79 I-IV-1,16 Jun-79 3-0350-1,112 Dec-77 4-0409-3,4 Jun-79 I-IV-1,18 Jun-79 3-0350-1,112 Dec-77 4-0409-3,4 Jun-79 I-IV-1,18 Jun-79 3-0350-1,18 Jun-79 3-0350-1,18 Jun-79 I-IV-3,14 Jun-79 3-0350-1,19 Dec-77 4-0409-3,4 Jun-79 I-IV-1,18 Jun-79 3-0350-1,18 Jun-79 3-0350-1,18 Jun-79 3-0350-1,18 Jun-79 3-0350-1,19 Dec-77 4-0409-5,6 Jun-79 I-IV-3,32 Jun-79 3-0350-3,34 Dec-77 4-0409-5,6 Jun-79 I-IV-3,33 Jun-79 3-0350-3,34 Dec-77 4-0413-1,2 Jun-79 I-IV-3,33 Jun-79 3-0350-2,28 Dec-77 4-0413-1,3 Jun-79 I-IV-3,33 Jun-79 3-0350-3,34 Dec-77 4-0413-1,4 Jun-79 3-0350-3,34 De	I-I-13,14	(Jun-79)	2-0210-15,16	(Jun-79)		
I-I-I-1, Is	I-I-15,16	(Jun-79)	2-0210-17,18	(Jun-79)		
I-I-21,22* (Dec-77) 2-0230-3,4 (Jun-79) 4-0401-5,6 (Jun-79) I-I-23,24* (Dec-77) 2-0250-1,2 (Dec-77) 4-0402-1,2 (Jun-79) I-I-25,26* (Dec-77) 2-0250-3,4 (Jun-79) 4-0402-1,2 (Jun-79) I-I-25,26* (Dec-77) 2-0299-1,2 (Dec-77) 4-0402-5,6 (Jun-79) I-I-29,30* (Dec-77) 2-0299-3,4 (Jun-79) 4-0403-1,2 (Jun-79) I-I-31,32* (Dec-77) 2-0299-5,6 (Jun-79) 4-0403-1,2 (Jun-79) I-II-3,4 (Jun-79) 3-0325-1,2 (Dec-77) 4-0403-5,6 (Jun-79) I-III-3,4 (Jun-79) 3-0325-3,4 (Jun-79) 4-0403-5,6 (Jun-79) I-III-3,4 (Jun-79) 3-0325-3,4 (Jun-79) 4-0403-7,8 (Jun-79) I-III-3,4 (Jun-79) 3-0341-1,2 (Dec-77) 4-0404-3,4 (Jun-79) I-IIV-1,2 (Jun-79) 3-0341-3,4 (Jun-79) 4-0404-3,4 (Jun-79) I-IV-3,4 (Jun-79) 3-0341-3,4 (Jun-79) 4-0404-3,4 (Jun-79) I-IV-3,6 (Jun-79) 3-0350-3,4 (Dec-77) 4-0404-7,8 (Jun-79) I-IV-7,8 (Jun-79) 3-0350-3,4 (Dec-77) 4-0404-9,10 (Jun-79) I-IV-1,112 (Jun-79) 3-0350-5,6 (Dec-77) 4-0404-9,10 (Jun-79) I-IV-1,114 (Jun-79) 3-0350-5,11,12 (Dec-77) 4-0408-1,2 (Jun-79) I-IV-1,13,14 (Jun-79) 3-0350-1,1,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,18 (Jun-79) 3-0350-1,1,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,18 (Jun-79) 3-0350-1,1,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,18 (Jun-79) 3-0350-1,18 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,18 (Jun-79) 3-0350-1,18 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,18 (Jun-79) 3-0350-1,18 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-2,22 (Jun-79) 3-0350-1,18 (Dec-77) 4-0413-1,2 (Jun-79) I-IV-3,34 (Jun-79) 3-0350-2,22 (Dec-77) 4-0413-1,2 (Jun-79) I-IV-3,34 (Jun-79) 3-0350-2,22 (Dec-77) 4-0413-1,2 (Jun-79) I-IV-3,34 (Jun-79) 3-0350-2,32 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,36 (Jun-79) 3-0350-2,30 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,36 (Jun-79) 3-0350-2,30 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,36 (Jun-79) 3-	I-I-17,18	(Jun-79)	2-0225-1,2	(Dec-77)		
I-I-21,22*	l e		2-0230-1,2			
I-P25,264 (DeC-77) 2-0250-1,2 (DeC-77) 4-0402-1,2 (Jun-79) I-P27,28* (DeC-77) 2-0299-1,2 (DeC-77) 4-0402-5,6 (Jun-79) I-P29,30* (DeC-77) 2-0299-3,4 (Jun-79) 4-0403-1,2 (Jun-79) I-P29,30* (DeC-77) 2-0299-5,6 (Jun-79) 4-0403-1,2 (Jun-79) I-P31,32* (DeC-77) 2-0299-7,8 (Jun-79) 4-0403-3,4 (Jun-79) I-P31,34 (Jun-79) 3-0325-1,2 (DeC-77) 4-0403-5,6 (Jun-79) I-P31,34 (Jun-79) 3-0325-1,2 (DeC-77) 4-0403-7,8 (Jun-79) I-P31,4 (Jun-79) 3-0325-3,4 (Jun-79) 4-0404-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0341-1,2 (DeC-77) 4-0404-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-1,2 (DeC-77) 4-0404-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-1,2 (DeC-77) 4-0404-7,8 (Jun-79) I-P31,4 (Jun-79) 3-0350-1,2 (DeC-77) 4-0404-7,8 (Jun-79) I-P31,4 (Jun-79) 3-0350-7,8 (DeC-77) 4-0407-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-7,8 (DeC-77) 4-0407-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-7,8 (DeC-77) 4-0408-1,2 (Jun-79) I-P31,4 (Jun-79) 3-0350-13,14 (DeC-77) 4-0409-1,2 (Jun-79) I-P31,4 (Jun-79) 3-0350-13,14 (DeC-77) 4-0409-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-13,14 (DeC-77) 4-0409-3,4 (Jun-79) I-P31,4 (Jun-79) 3-0350-15,16 (DeC-77) 4-0413-1,2 (Jun-79) I-P31,4 (Jun-79) 3-0350-25,26 (DeC-77) 4-0413-1,2 (Jun-79) I-P31,4 (Jun-79) 3-0350-25,26 (DeC-77) 4-0413-1,10 (Jun-79) I-	I-I-21,22*		2-0230-3,4	(Jun-79)	1	
I-I-25,26* (Dec-77) 2-0250-3,4 (Jun-79) 4-0402-3,4 (Jun-79) I-I-27,28* (Dec-77) 2-0299-1,2 (Dec-77) 4-0402-3,6 (Jun-79) 4-0402-3,6 (Jun-79) 4-0402-3,6 (Jun-79) 4-0403-1,2 (Jun-79) I-I-31,32* (Dec-77) 2-0299-5,6 (Jun-79) 4-0403-3,4 (Jun-79) I-II-1,2 (Jun-79) 3-0325-1,2 (Dec-77) 4-0403-5,6 (Jun-79) I-III-3,4 (Jun-79) 3-0325-3,4 (Jun-79) 4-0404-1,2 (Jun-79) I-III-3,4 (Jun-79) 3-0325-3,4 (Jun-79) 4-0404-1,2 (Jun-79) I-III-3,4 (Jun-79) 3-0341-1,2 (Dec-77) 4-0404-3,4 (Jun-79) I-IV-1,2 (Jun-79) 3-0350-1,2 (Dec-77) 4-0404-7,8 (Jun-79) I-IV-3,4 (Jun-79) 3-0350-1,2 (Dec-77) 4-0404-7,8 (Jun-79) I-IV-7,8 (Jun-79) 3-0350-5,6 (Dec-77) 4-0404-9,10 (Jun-79) I-IV-7,8 (Jun-79) 3-0350-5,6 (Dec-77) 4-0404-9,10 (Jun-79) I-IV-1,112 (Jun-79) 3-0350-7,8 (Dec-77) 4-0407-1,2 (Jun-79) I-IV-1,114 (Jun-79) 3-0350-1,112 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,114 (Jun-79) 3-0350-1,11,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,118 (Jun-79) 3-0350-1,1,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,118 (Jun-79) 3-0350-1,1,14 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,118 (Jun-79) 3-0350-1,1,16 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-1,2,2 (Jun-79) 3-0350-1,1,16 (Dec-77) 4-0409-3,4 (Jun-79) I-IV-2,2,22 (Jun-79) 3-0350-1,1,16 (Dec-77) 4-0409-3,4 (Jun-79) I-IV-2,2,22 (Jun-79) 3-0350-1,1,16 (Dec-77) 4-0409-3,4 (Jun-79) I-IV-3,3,24 (Jun-79) 3-0350-1,2 (Dec-77) 4-0413-1,2 (Jun-79) I-IV-3,3,34 (Jun-79) 3-0350-2,2,24 (Jun-79) 4-0413-1,2 (Jun-79) I-IV-3,3,34 (Jun-79) 3-0350-3,34 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,3,34 (Jun-79) 3-0350-3,34 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,3,36 (Jun-79) 3-0350-3,34 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,3,36 (Jun-79) 3-0350-3,30 (Dec-77) 4-0413-1,3 (Jun-79) I-IV-3,3,36 (Jun-79) 3-0360-5,6 (Jun-79) 4-0413-1,7 (Jun-79)		• • •	2-0250-1,2			
I-I-27,28*	1	(Dec-77)	2-0250-3,4			
I-1-29,30* Dec-77 2-0299-3.4 Jun-79 4-0403-1.2 Jun-79 I-1-31,32* (Dec-77) 2-0299-5.6 Jun-79 4-0403-1.2 Jun-79 I-1-31,32* (Jun-79) 2-0299-7.8 Jun-79 4-0403-3.4 Jun-79 I-11-3.4 Jun-79 3-0325-1.2 (Dec-77) 4-0403-7.8 Jun-79 I-11-3.4 Jun-79 3-0325-3.4 Jun-79 4-0404-7.8 Jun-79 I-11-3.4 Jun-79 3-0325-3.4 Jun-79 4-0404-1.2 Jun-79 I-11-3.4 Jun-79 3-0341-1.2 (Dec-77) 4-0404-3.4 Jun-79 I-11-3.4 Jun-79 3-0341-3.4 Jun-79 4-0404-5.6 Jun-79 I-11-3.4 Jun-79 3-0341-3.4 Jun-79 4-0404-5.6 Jun-79 I-11-3.4 Jun-79 3-0350-3.4 (Dec-77) 4-0404-7.8 Jun-79 I-11-3.4 Jun-79 3-0350-3.4 (Dec-77) 4-0404-7.8 Jun-79 I-11-3.1 Jun-79 3-0350-5.6 (Dec-77) 4-0404-7.2 Jun-79 I-11-3.1 Jun-79 3-0350-5.6 (Dec-77) 4-0407-3.4 Jun-79 I-11-3.1 Jun-79 3-0350-7.8 (Dec-77) 4-0407-3.4 Jun-79 I-11-3.1 Jun-79 3-0350-11.12 (Dec-77) 4-0409-1.2 Jun-79 I-11-13.1 Jun-79 3-0350-11.12 (Dec-77) 4-0409-3.4 Jun-79 I-11-13.1 Jun-79 3-0350-15.16 (Dec-77) 4-0409-3.4 Jun-79 I-11-12.2 Jun-79 3-0350-15.16 (Dec-77) 4-0409-3.4 Jun-79 I-11-3.2 Jun-79 3-0350-17.18 Jun-79 4-0413-1.2 Jun-79 I-11-2.2 Jun-79 3-0350-17.2 (Dec-77) 4-0413-1.2 Jun-79 I-11-2.2 Jun-79 3-0350-13.24 Jun-79 4-0413-1.8 Jun-79 I-11-2.2 Jun-79 3-0350-21.22 (Dec-77) 4-0413-7.8 Jun-79 I-11-2.3 Jun-79 3-0350-22.24 (Dec-77) 4-0413-7.8 Jun-79 I-11-3.3 Jun-79 3-0350-22.24 (Dec-77) 4-0413-7.8 Jun-79 I-11-3.3 Jun-79 3-0350-23.24 Jun-79 4-0413-7.8 Jun-79 Jun-79 3-0350-23.3 Jun-79 4-0413-7.8 Jun-79 Jun-79 3-0350-23.3 Jun-79 3-0350-33.3 Jun-79 4-0413-13.14 Jun-79 Jun-79 3-0350-33.3 Jun-79 3-0350-33.3 Jun-79 3-0350-33.3 Jun-79 3-0350-34 Dec-77 4-0413-13.14 Jun-79 Jun-79 3-0360-7.8 (Dec-77) 4-0413-15.6 Jun-	1		•		•	
I-I-31,32* CDec-77	1		· ·		· ·	
I-II-1,2	1	-			•	
I-II-3.4	l .	•	1			
I-III-1,2	1		•	,		
	t '			•		
I-IV-1,2		The state of the s				
I-IV-3,4	ł · · · · · · · · · · · · · · · · · · ·			· ·		
I-IV-5,6 (Jun-79) 3-0350-1,2 (Dec-77) 4-0404-9,10 (Jun-79) I-IV-9,10 (Jun-79) 3-0350-5,6 (Dec-77) 4-0407-1,2 (Jun-79) I-IV-9,10 (Jun-79) 3-0350-7,8 (Dec-77) 4-0407-3,4 (Jun-79) I-IV-11,12 (Jun-79) 3-0350-9,10 (Jun-79) 4-0408-1,2 (Jun-79) I-IV-13,14 (Jun-79) 3-0350-9,10 (Jun-79) 4-0409-1,2 (Jun-79) I-IV-15,16 (Jun-79) 3-0350-11,12 (Dec-77) 4-0409-1,2 (Jun-79) I-IV-17,18 (Jun-79) 3-0350-13,14 (Dec-77) 4-0409-3,4 (Jun-79) I-IV-19,20 (Jun-79) 3-0350-15,16 (Dec-77) 4-0409-5,6 (Jun-79) I-IV-19,22 (Jun-79) 3-0350-17,18 (Jun-79) 4-0410-1,2 (Jun-79) I-IV-23,24 (Jun-79) 3-0350-19,20 (Dec-77) 4-0413-1,2 (Jun-79) I-IV-25,26 (Jun-79) 3-0350-21,22 (Dec-77) 4-0413-3,4 (Jun-79) I-IV-29,30 (Jun-79) 3-0350-23,24 (Jun-79) 4-0413-5,6 (Jun-79) I-IV-29,30 (Jun-79) 3-0350-25,26 (Dec-77) 4-0413-7,8 (Jun-79) I-IV-33,34 (Jun-79) 3-0350-29,30 (Dec-77) 4-0413-9,10 (Jun-79) I-IV-33,34 (Jun-79) 3-0350-33,132 (Jun-79) 4-0413-11,12 (Jun-79) I-IV-37,38 (Jun-79) 3-0350-33,34 (Dec-77) 4-0413-15,16 (Jun-79) I-IV-37,38 (Jun-79) 3-0350-33,34 (Dec-77) 4-0413-15,16 (Jun-79) I-IV-37,38 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-15,16 (Jun-79) I-IV-33,4 (Jun-79) 3-0360-5,6 (Jun-79) 4-0413-17,18 (Jun-79) I-IV-34,4 (Jun-79) 3-0360-7,8 (Dec-77) 4-0414-3,4 (Jun-79) I-IV-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,6 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-3,						
I-IV-7,8	1 '		3-0350-1,2	(Dec-77)		
I-IV-9,10			•		4-0404-9,10	
I-IV-11,12	1		3-0350-5,6	(Dec-77)	4-0407-1,2	(Jun-79)
I-IV-13,14			3-0350-7,8	(Dec-77)	4-0407-3,4	(Jun-79)
I-IV-15,16	k .		3-0350-9,10	(Jun-79)	4-0408-1,2	(Jun-79)
I-IV-17,18		·	3-0350-11,12	(Dec-77)	4-0409-1,2	(Jun-79)
I-IV-19,20	1		3-0350-13,14	(Dec-77)	4-0409-3,4	(Jun-79)
I-IV-21,22			3-0350-15,16	(Dec-77)	4-0409-5,6	(Jun-79)
I-IV-23,24			3-0350-17,18	(Jun-79)	4-0410-1,2	(Jun-79)
I-IV-25,26			3-0350-19,20	(Dec-77)	4-0413-1,2	(Jun-79)
I-IV-27,28 (Jun-79) 3-0350-23,24 (Jun-79) 4-0413-5,6 (Jun-79) I-IV-29,30 (Jun-79) 3-0350-25,26 (Dec-77) 4-0413-7,8 (Jun-79) I-IV-31,32 (Jun-79) 3-0350-27,28 (Dec-77) 4-0413-9,10 (Jun-79) I-IV-33,34 (Jun-79) 3-0350-29,30 (Dec-77) 4-0413-11,12 (Jun-79) I-IV-35,36 (Jun-79) 3-0350-31,32 (Jun-79) 4-0413-13,14 (Jun-79) I-IV-37,38 (Jun-79) 3-0350-33,34 (Dec-77) 4-0413-15,16 (Jun-79) I-IV-39,40 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-17,18 (Jun-79) I-IV-41,42 (Jun-79) 3-0360-3,4 (Dec-77) 4-0413-19,20 (Jun-79) I-IV-41,42 (Jun-79) 3-0360-5,6 (Jun-79) 4-0414-1,2 (Jun-79) I-V-3,4 (Jun-79) 3-0360-7,8 (Dec-77) 4-0414-3,4 (Jun-79) I-V-3,4 (Jun-79) 3-0360-9,10 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-5,6 (Jun-79) 1-0199-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 4-0419-1,2 (Jun-79) 4-0419-1,2 (Jun-79) 4-0419-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 4-0419-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 4-0419-1,2 (Jun-79) 3-			3-0350-21,22	(Dec-77)	4-0413-3,4	(Jun-79)
I-IV-27,28	· ·		3-0350-23,24	(Jun-79)	4-0413-5,6	(Jun-79)
I-IV-31,32 (Jun-79) 3-0350-27,28 (Dec-77) 4-0413-11,12 (Jun-79) I-IV-33,34 (Jun-79) 3-0350-29,30 (Dec-77) 4-0413-13,14 (Jun-79) I-IV-37,38 (Jun-79) 3-0350-33,34 (Dec-77) 4-0413-15,16 (Jun-79) I-IV-39,40 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-19,20 (Jun-79) I-IV-41,42 (Jun-79) I-IV-41,42 (Jun-79) 3-0360-5,6 (Jun-79) I-IV-3,4 (Jun-79) 3-0360-7,8 (Dec-77) 4-0414-3,4 (Jun-79) I-IV-3,4 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-1,2 (Jun-79) I-0110-1,2 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-3,4 (Jun-79) I-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) I-0199-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) I-0199-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) I-0199-1,2 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) I-0201-3,4 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) I-0201-3,4 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) I-0201-3,4 (Jun-79) I-0399-7,8 (Dec-77) I-0201-3,4 (Jun-79) I-0399-7,8 (Dec-77) I-04019-1,2 (Jun-79) I-0201-3,4 (Jun-79) I-0399-7,8 (Dec-77) I-04019-1,2 (Jun-79) I-0201-3,4 (Jun-79) I-0399-7,8 (Dec-77) I-04019-1,2 (Jun-79) I-0201-3,4 (Jun-79) I-0201-		-	3-0350-25,26	(Dec-77)	4-0413-7,8	(Jun-79)
I-IV-33,34 (Jun-79)	1		3-0350-27,28	(Dec-77)	4-0413-9,10	(Jun-79)
I-IV-35,36 (Jun-79) 3-0350-31,32 (Jun-79) 4-0413-15,14 (Jun-79) I-IV-37,38 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-17,18 (Jun-79) I-IV-41,42 (Jun-79) 3-0360-5,6 (Jun-79) 4-0414-1,2 (Jun-79) I-V-1,2 (Jun-79) 3-0360-7,8 (Dec-77) 4-0414-3,4 (Jun-79) I-0110-1,2 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-1,2 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-3,4 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 1-0199-1,2 (Jun-7			3-0350-29,30	(Dec-77)	4-0413-11,12	(Jun-79)
I-IV-37,38 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-17,18 (Jun-79) I-IV-41,42 (Jun-79) 3-0360-5,6 (Jun-79) 4-0414-1,2 (Jun-79) I-V-1,2 (Jun-79) 3-0360-7,8 (Dec-77) 4-0416-1,2 (Jun-79) I-0110-1,2 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-3,4 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 1	1		3-0350-31,32	(Jun-79)	4-0413-13,14	(Jun-79)
I-IV-39,40 (Jun-79) 3-0360-1,2 (Dec-77) 4-0413-17,18 (Jun-79) I-IV-41,42 (Jun-79) 1-V-1,2 (Jun-79) 3-0360-5,6 (Jun-79) 4-0414-1,2 (Jun-79) I-V-3,4 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-1,2 (Jun-79) 1-0110-1,2 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 13-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 1-0199-1,2 (Jun-79) 13-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 13-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 13-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 13-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 13-0399-3,4 (Dec-77) 14-0418-1,2 (Jun-79) 14-0418-1,		1	3-0350-33,34	(Dec-77)	4-0413-15,16	(Jun-79)
1-1V-39,40	1	•	3-0360-1,2	(Dec-77)	4-0413-17,18	(Jun-79)
I-IV-41,42 (Jun-79)	1		3-0360-3,4		4-0413-19,20	(Jun-79)
I-V-1,2	1					
1-V-3,4 (Jun-79) 3-0360-9,10 (Dec-77) 4-0416-1,2 (Jun-79) 1-0110-1,2 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 13-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0418-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)	1	·	•		1	
1-0110-1,2 (Jun-79) 3-0360-11,12 (Dec-77) 4-0416-3,4 (Jun-79) 1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 13-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0418-1,2 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)	1-7-3,4	(Jun-79)		1 1		
1-0110-3,4 (Jun-79) 3-0360-13,14 (Dec-77) 4-0416-5,6 (Jun-79) 1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)	1-0110-1.2	(Jun-79)				
1-0120-1,2 (Jun-79) 3-0360-15,16 (Dec-77) 4-0416-7,8 (Jun-79) 1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)			•	· · · · · · · · · · · · · · · · · · ·	· ·	
1-0199-1,2 (Jun-79) 3-0399-1,2 (Jun-79) 4-0417-1,2 (Jun-79) 2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 4-0418-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)	1	• • • • • • • • • • • • • • • • • • • •	•	, ,	· · · · · · · · · · · · · · · · · · ·	•
2-0201-1,2 (Jun-79) 3-0399-3,4 (Dec-77) 4-0417-3,4 (Jun-79) 2-0201-3,4 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)	1	, ,		, ,		
2-0201-1,2 (Jun-79) 3-0399-5,6 (Dec-77) 4-0418-1,2 (Jun-79) 3-0399-7,8 (Dec-77) 4-0419-1,2 (Jun-79)		•				
2-0201-3,4 (Jun-79) 3-0399-7.8 (Dec-77) 4-0419-1.2 (Jun-79)	1	•			· · · · · · · · · · · · · · · · · · ·	
	1	•	3-0399-7,8	(Dec-77)	4-0419-1,2	(Jun-79)
2-0201-5,6 (Jun-79) 1 3-0309-9 10 (Jun-79) 4-0420-1 2 (Jun-79)	2-0201-5,6	(Jun-79)				
2-0210-1,2 (Jun-79) (Gun-79) (Gun-79) (Gun-79)	•	•	1 0 0000 0,10	(0411 70)	1 1 0 120 1,2	(3411 13)

Vertical lines indicate pages included in this revision.

^{*}Remove and discard.