



TIER II CERTIFIED 440 **Skid Steer**

ENGINE

Model Case Family III
445T/M2 diesel, Tier II certified
Type 4-stroke, turbocharged
Cylinders 4
Bore/Stroke 4.1" x 5.2"
(104 x 132 mm)
Displacement 274 in³ (4.5 L)
Fuel injection Direct
Fuel #2 Diesel
Fuel filter In-line strainer
Air intake Cross-flow
Cooling Liquid
Engine speeds (rpm)
High idle - no load 2480±50
Rated - full load 2300
Low idle 1050
Horsepower per SAE J1349
Gross 89 (66 kW) @ 2300 rpm
Net 82 (61.1 kW) @ 2300 rpm
Peak torque
@ 1400 rpm 263 lb-ft (357 N-m)

ENGINE COOLING

Radiator
Core type Square wave
serpentine
Core size area 450 in² (290 m²)
Rows of tubes 3
Cap pressure 13.0 psi (89.6 kPa)
Fan
Diameter 17.7" (450 mm)
Ratio 1.1:1
Water pump
Style Integral
Flow 48 gpm (182 L/min)
Engine lubrication
Pump Deep sump with plate
cooler and pressurized
under-piston nozzles
Pump operating angle ratings
Side-to-side Rated 35°
Fore and aft Rated 35°
Oil filtration Replaceable,
full-flow cartridge

POWERTRAIN

Drive pump Tandem, axial piston
hydrostatic transmission
w/integral charge pump driven
directly off engine flywheel
Pump to engine ratio 1:1
Displacement 0 to 2.81 in³ (46 cc)
Pump flow @ rated rpm 29.8 gpm
(113 L/min)
Flow Bi-directional
Charge pressure 360 psi (24.8 bar)
System relief 4350 psi
(300 bar)
Controls Servo
Drive motors Fixed displacement
radial piston
Maximum displacement 28.7 in³
(470 cc)
Speed @ rated engine rpm
@ max displacement 238 rpm
Optional high speed 397 rpm
Torque @ max displacement
and relief pressure 5,920 lb-ft
(8027 N-m)
Travel speed mph (km/h)
Low range 7.3 (11.8)
High range (optional) 11.9 (19.2)
Final drive Single-reduction
chain drive
Drive chain
Size ASA #100HV
Tensile strength 30,000 lb
(133,447 N)
Axles One-piece, forged
induction-hardened
high carbon steel
Torque @ rated rpm 4,633 lb-ft
(6014 N-m)
Diameter 2.0" (51 mm)
Length 14.61" (371 mm)
Parking brakes Spring applied,
hydraulic release disc
Engagement Depress on/off
brake button, raise seat bar,
get off seat, or stop engine

HYDRAULIC SYSTEM

Standard equipment
Pump Gear pump
Displacement 2.2 in³/rev (36 cc)
Pump flow @ rated engine rpm
Total 21.0 gpm (79.4 L/min)
Optional high flow @
rated engine rpm
..... 31 gpm (117 L/min)
Loader control valve 3-spool
open-center series with
power beyond port
Relief pressure 3000 psi (207 bar)
Port relief pressures
#1B Raise 3350 psi (230 bar)
Hydraulic lines
Tubing 3/4" JIC Flare
Loop hoses SAE 100 R12
Hydraulic oil cooler
Core type Two row in-line
Hydraulic filter 6 micron spin-on
replacable element
on the return line with
warning indicator

Case 440 Transmission Service Manual

Carl Munroe



Case 440 Transmission Service Manual:

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 repair replacement and adjustment for popular American cars in production from 1940 1953 *Chilton's Auto Repair*
Manual ,1940 *Torqueflite A-727 Transmission Handbook HP1399* Carl Munroe,2003-08-05 This book provides step by
 step instructions for how to modify Chrysler s 904 Torqueflite automatic transmission for drag racing road racing and circle
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 Turner,1981 **Chilton's Auto Repair Manual, 1991** Chilton Book Company,1990

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