

T659 Chassis No. 470328

Model	: T659		
Wheelbase	: 5500 mm		
Bumper to Front Axle	: 1230 mm		
Fr Axle to Back of Cab	: 3120 mm		
Cab to Rear Axle	: 2380 mm		
Rear Frame Cutoff	: 1370 mm	Cab to End of Frame :	3750
Total Frame Length	: 7764 mm		
Total Tare	: 9798 Kg	(inc. dealer add-ons	Kg)

T659 Includes radiator, silicon

radiator/heater hoses, front axle
shock absorbers, PVC covered chassis
wiring, grab handles for cab access &
at rear of cab/sleeper, fuel tank
steps, front tow hitch/hook, rear axle
park brakes, colour coded polyester
nylon cab & chassis airlines,

SINGLE STEER + TANDEM DRIVE (6 X 4)

Intended Service: Farm Produce

Commodity Hauled: Grain/Fertilizer

Body Type: Fixed hoist - front

**PRIME MOVER WITH B-DOUBLE TRAILERS. 2
TRAILERS, EACH CONNECTED VIA 5TH WHEEL
ON BACK OF TRUCK OR TRAILER. UP TO 26.
0M OVERALL LENGTH.**

**DRUM TRAILER BRAKES WITH ABS/EBSS ON
TRAILER**

ADR COMPLIANT

Main Routes: Interstate (East Coast of Australia)

AUSTRALIA

SPEED LIMITER - 100KM/HR

B-Double compliant

**HIGH RATE GCM (INDICATE GCM + % ANNUAL
DIST.) USED TO OVER-RIDE THE NORMAL
GCM LIMITS. SELECTION OF THIS OPTION
ACKNOWLEDGES THAT APPLICATIONS
ENGINEERING APPROVAL HAS BEEN OBTAINED.
(ATTACH NARRATIVE)**

No fuel haul kit

Standard Service kit

**CUMMINS X15 EURO V 550HP / 1850LBFT.
578HP @ 1800 RPM, 1850LBFT TORQUE @
1200 RPM. 15.0 LITRE DISPLACEMENT.
ADR80/03. SIX CYLINDER IN-LINE
TURBOCHARGED AIR-TO-AIR AFTERCOOLED,
ALUMINIUM FLYWHEEL HOUSING. FLEETGUARD
COMBINATION FULL FLOW & BY-PASS OIL
FILTERS & INTEGRAL OIL COOLER.
INCLUDES 2000RPM MAX, CUMMINS ROAD
SPEED LIMITER, KW SPIN ON WATER FILTER.**

: WARRANTY

**X15 EURO V ENGINE WARRANTY - 5 YR OR 1,
000,000KM OR 15,000 HOURS OR 500,000L
FUEL BURN COVERAGE**

**EGP MTD IN CHASSIS, DUAL SIDE OF CAB
EXHAUST - IN CHASSIS EGP MOUNTED RHS.**

Dual SS exhaust shield (no letters) -
Polished shield.

**DUAL DELIVERY TAILPIPES - FOR TRAVEL
TO DEALERSHIP (DEALER TO SUPPLY AND
FIT FINAL TAILPIPE FOR DELIVERY TO
CUSTOMER)**

FUEL PRO FILTER/WATER SEPARATOR

CUMMINS 17.6 L/S (37.4 CFM) COMPRESSOR

12V starter with key switch

PACCAR 15^ SS air cleaners -
integrated caps (Stainless Steel cowl
mtd air cleaners)

**LUPO - 170A NON ISOLATED ALTERNATOR
(X15)**

12 volt cab/chassis electrics
Urea metering device to suit SCR engine

Cummins engine brake, steering wheel

**HORTON 1 SPEED FAN CLUTCH WITH SEVERE
OUTBACK KIT**

**BUTTON TYPE FRONT ENGINE MOUNTS
BUTTON TYPE REAR ENGINE MOUNTS**

**EATON FULLER RTLO22918B TRANSMISSION
2250LBFT TORQUE, 18 SPEED OVERDRIVE**

**2250LBFT EZY PEDAL ADVANTAGE 3 - VCT+
CLUTCH (MANUAL ADJUST)**

**RPL25 MAIN DRIVELINE & 1 C/BEARING
(MERITOR SERIES)**

**RPL20 INTERAXLE DRIVELINE - TANDEM
(MERITOR SERIES)**

T

**EXTENDED GREASE LINE TO CLUTCH BEARING
EXTENDED GREASE LINE TO CLUTCH SHAFT**

Isolated gearshift lever (T9 includes
stainless steel gearshift surround)

Transmission oil cooler

**AFTERMARKET TRANS PTO WITH FACTORY
SWITCH - USE WITH A SHIFTABLE TRANS
PTO. DOES NOT INCLUDE PARK BRAKE
INTERLOCK - IF AN INTERLOCK IS
REQUIRED, PLEASE RAISE AN NPO IN THE
CAB AIR & ELECTRICAL SECTION (64599000).**

REMOTE TRANSMISSION BREATHER

**MERITOR MFS73 (7.3T CAPACITY) (SINGLE
STEER) INCLUDES STANDARD WARRANTY: 24
MONTHS/UNLIMITED KMS (EXCLUDING WHEEL
END EQUIPMENT).**

**MERITOR 16.5X6 LA(Q+) FRONT DRUM
BRAKES (SINGLE) ON MERITOR MFS73 AND
FL941 FRONT AXLES**

**FRONT SPRINGS, 7.2T TAPER LEAF (> 9"
SUSP)**

**2 HD STEEL PILOTED FRONT HUBS & DRUMS -
285PCD (FL/MFS73/D2000F)**

TRW Ross TAS 85 power steering

AUTOMATIC SLACK ADJUSTERS (SINGLE STEER)

**MERITOR RT46-160GP - DUAL DIFF LOCKS
20.9T GAW (TANDEM). CROSS WHEEL DIFF
LOCKS APPLIED TO BOTH DRIVE AXLES.
INCLUDES STANDARD WARRANTY: GCM <110T,
24 MONTHS/UNLIMITED KMS (EXCLUDING
WHEEL END EQUIPMENT).
REAR AXLE RATIO-4.10**

16,5" x 7" Meritor Q+ rear drum brakes
(tandem)

**AIRGLIDE 460 10.5", 20.9T GAWR
(TANDEM) 2 STEEL PEDESTALS, 10.5" RIDE
HEIGHT**

Rear Axle spacing 1321mm NOTE - axles
are located by suspension components
which may move longitudinally with
variances of vertical load or
installation angles.

4 Aluminium piloted rear hubs & drums -
285PCD (R-series)

Interaxle diff lock

**AUTOMATIC SLACK ADJUSTERS - TANDEM
REAR AXLE
TIMKEN NP PINION BEARINGS FITTED TO
FORWARD REAR AXLE CARRIER**

REMOTE MOUNTED DIFF BREATHER(S)

**KONI HD SHOCK ABSORBERS (AG ONLY) -
TANDEM**

BRIDGESTONE 385/65 R22.5 R249 - 2 STEER

**BRIDGESTONE 11R22.5 M749 ECOPIA - 313
RPK**

**ALCOA 12.25X22.5 285PCD - 2 STEER HUB
PILOT (INCLUDES CHROME HUB COVERS WITH**

Alcoa 8,25x22,5 285PCD hub pilot –
superseded to Alcoa ULTRA ONE (Gen 2)
8.25x22.5 285PCD for trucks offline
from 25 January 2021

**2 DURA-BRIGHT POLISHED WHEELS - SINGLE
STEER (ONLY REQUIRED WITH ALCOA STEER
WHEELS/RIMS)**

**4 DURA-BRIGHT POLISHED, 4 CLEAN BUFF
FINISHES - REAR (ONLY REQUIRED WITH
ALCOA DRIVE WHEELS/RIMS)**

**273MM X 89MM X 9.5MM RAILS UP TO
11420MM (0.0621KG/MM/PAIR OF RAILS)**

**EXTENDED REAR SUSPENSION INSERT - FROM
REAR OF FRAME TO FORWARD SUSPENSION
CROSSMEMBER.**

TAPER CUT-OFF / DOLLY TOWING CROSSMEMBER

**SEALANT BETWEEN CHASSIS RAIL &
SUSPENSION INSERT**

**TEMPORARY FUPS DEVICE
AFTERMARKET FUPS BUMPER TO BE FITTED**

SLIDE TRAY B/BOX LH UND CAB ABOVE TANK

**LUPO - 4 X HEAVY DUTY MAINTENANCE FREE
BATTERIES**

>

Tool box RHS under cab above tank
(note:for a C509 sound attenuation
shields are NOT included with this
option)

**CAB POWER SUPPLY DISCONNECT SWITCH -
NOT FUEL HAUL COMPLIANT**

REVERSING ALARM

IS

FRONT WHEEL ARCH EXTENSION RUBBERS

**TEMPORARY CANVACON DELIVERY GUARDS
MANDATORY WITH TRI-AXLE COMBINATIONS,
HAS461 SUSPENSION (CAR CARRIER), OR
305/70 DRIVE TYRES.**

Thermoflex mudflaps - front (single
steer)

Thermoflex mudflaps - rear

ANGLE

**100W (50MM EVENS) FIFTH WHEEL ANGLES
GCM LIMITED TO 200T.**

**JOST JSK 37 CZW-185/MP0118 (D-VALUE
190KN) CAST STEEL 50MM 'GREASELESS'
FIFTH WHEEL WITH LUBETRONIC, 201MM
OVERALL HEIGHT, LARGE RUBBER MOUNTING
CUSHIONS ON 16MM BASE PLATE**

IG

5TH WHEEL SETTING POSITIVE 50MM

**KW REAR SLEEPER SUSPENSION (4 AIRBAGS
& 4 SHOCKS) - MOUNTED INBOARD AND
OUTBOARD OF CHASSIS (4 SHOCKS & 4
AIRBAGS) FOR 50" INTEGRATED SLEEPERS
ON T609, T659 & T909.**

**T659 CAB, INTEGRATED SLEEPER
HUCKBOLTED STEEL & ALUMINIUM CAB FRAME,
STEEL, ALUMINIUM AND FIBREGLASS CAB
CONSTRUCTION USING AEROSPACE
TECHNOLOGY. ALUMINIUM BULKHEAD TYPE
DOORS WITH CONTINUOUS PIANO-TYPE
HINGES. LED WARNING LIGHT CLUSTER
LOCATED IN DASH, LOW AIR WARNING
BUZZER, ENGINE WATER TEMPERATURE GAUGE,
ENGINE OIL PRESSURE GAUGE, VOLTMETER,
FUEL LEVEL GAUGE, SPEEDOMETER,
TACHOMETER, AIR SYSTEM PRESSURE GAUGES,
MANUAL RESET CIRCUIT BREAKERS ON
ESSENTIAL CIRCUITS WITH FUSES ON NON-
ESSENTIAL CIRCUITS, INTERIOR SUNVISORS,
CAB INTERIOR LIGHT, DOOR COURTESY
LIGHTS, POCKET HOLDER IN DRIVERS DOOR,
SEAT MOUNTED INERTIA-REEL SEAT BELTS
TO DRIVER & RIDER SEATS,
DIRECTIONAL/HAZARD LIGHTS FRONT & REAR,
FRONT OUTLINE LED MARKER LIGHTS ON
MIRRORS, VINYL FLOOR MATS, DUAL
ELECTRIC HORNS.**

Traditional hood, T659, external air

CHARCOAL CAB TRIM, HD DIAMOND PLEAT VINYL (6611) WITH BLACK HARD TRIM AS STANDARD

**ISRI 6860/870 PRO AIR SUSP DRIVER'S SEAT, CHARCOAL WITH PREMIUM SEAT CUSHION, INTEGRATED HORIZONTAL ISOLATOR AND L & R ARM RESTS (LH ARM REST ONLY ON COE).
FIXED RIDER'S SEAT - CHARCOAL WITH NO ARM RESTS.**

Drivers black lap/sash seat belt
Riders black lap/sash seat belt

Provision for 2 CB style radios
(unless CB and/or UHF radio/s are factory fitted)

**FM/AM RADIO & CD, 4 SPEAKERS, 2 TWEETERS. CD PLAYER OBSOLETE, TRUCKS OFFLINE FROM 3RD APRIL 2023 WILL BE FITTED WITH FM/AM RADIO ONLY.
FM/AM RADIO AERIAL - RH MIRROR BRKT MTD UHF LEAD TO RHS WITH BASE & AERIAL**

2

Kenworth integral heater/airconditioner

TWO PIECE SAFE-T-SCREEN CURVED WINDSCREEN - TINTED, HIGH IMPACT RESISTANT GLASS WITH DUAL ELECTRIC VARIABLE SPEED WINDSCREEN WIPERS

Daylite II door with electric lift window to LHS
Daylite II door with electric lift window to RHS

DUAL AIRHORNS, BOTH 572MM, MOUNTED ON ROOF

FLAT MIRRORS-HEATED WITH MOTO MIRROR LHS & RHS

3

SPOTTER MIRRORS BELOW MAIN(2)

Dual port USB power supply
Two spare switches in main switch panel (where space permits)

**PTO SWITCH - FOR LATER FITMENT OF A
PTO (SWITCH ONLY).
POWER PLUG IN DRIVER'S SEAT RISER
POWER PLUG IN RIDER'S SEAT BASE
UPO 192888 - Relocate Dual port USB
power supply - preferably located in
the lower console next to switches on
the far RHS**

Cigarette lighter and ashtray (Note:
The cigarette lighter will be replaced
with a 12V power socket for C509, C510,
T659 and T909 models offline from
25th March, 2022 per FYI 2723)

**LUPU - JW SPEAKER LED HEADLIGHTS, LED
HI BEAM, FUNCTIONING DRL**

**WIRING & SWITCH - LATER FITMENT OF
DRIVING LIGHTS WITH A MAXIMUM CURRENT
DRAW OF 20A
LED MIRROR MOUNTED REAR FACING
FLOODLIGHTS - WITH GLARE SHIELD
Door courtesy lights
LED stop/tail lights (incl. reverse
lights)
DUAL LED BEACON LIGHTS TO CAB ROOF
HELLA 7000 SERIES (MOUNTED ON
PEDESTALS WITH 2.1M CABS)
LED FLOODLIGHT BAR ON THE BACK OF THE
CAB/SLEEPER**

5 LED marker lights (subject to
Kenworth Engineering approval)

EXTERIOR SUNVISOR - STAINLESS STEEL

**OIL TEMPERATURE GAUGE - ENGINE
OIL TEMPERATURE GAUGE - TRANSMISSION
OIL TEMPERATURE GAUGES (2) - TANDEM
AXLES
SCR fluid gauge
80MM PYROMETER
Tachometer with integrated engine
hourmeter
TURBO BOOST GAUGE
AIR SUSPENSION PRESSURE GAUGES (2)
AMBIENT TEMPERATURE GAUGE - BLACK
BEZEL (NOT AVAILABLE IN GOLD BEZEL)
Engine coolant temperature gauge
Engine oil pressure gauge
Low transmission oil pressure warning
light (w/neutral interlock)
GOLD BEZEL GAUGES
MURPHY LOW COOLANT LEVEL**

INDICATOR/BUZZER

**UPO 192881 - LHS console to have 3
gauges only (top row)**

Cummins cruise control, steering wheel
mounted sw

**ADJUSTABLE STEER COLUMN WITH SMART
WHEEL 460MM SOFT TOUCH**

20t hydraulic jack & wheelbrace

Integral two cup drink holder in dash
Back of cab grab handles (non-painted)
Radiator mounted condensor

**SEVEN HOOD GRILLE BARS - IN LIEU OF
THREE GRILLE BARS (EURO 5 COMPLIANT
ENGINES ONLY)**

Perforated S/Steel grille, externally
mounted
Central Locking
Black interior grab handles fitted to
A-pillar

Dual hood hooks

**AERO ROOF 50° INTEGRATED SLEEPER, FLAT
REAR PANEL. ACCESS DOOR WITH STEP
(WHERE APPLICABLE) & GRAB HANDLE TO
LHS. TWO SECTION TOOL COMPARTMENT WITH
EXTERNAL DOORS. 790MM X 1880MM INNER-
SPRING MATTRESS, SLEEPER RESTRAINT
BELTS. DIGITAL CLOCK. VISTA ROOF
WINDOWS. SHELVES WITH HANGING SPACE &
SLEEPER CURTAIN.**

**FLYWIRE SCREEN ON LH SLEEPER DOOR
STAINLESS STEEL SLEEPER VENTS X 4 FOR
50° / 1270MM / 1400MM AERO SLEEPERS
TOOLBOX DOOR IN REAR OF SLEEPER
SLEEPER FAN - SINGLE
UPPER BUNK FOR 50 / 1270MM AERO
SLEEPERS WITH 610MM X 1980MM FOAM
MATTRESS (600MM X 1960MM INNER SPRING
MATTRESS FITTED FROM 30/3/22)**

**STAINLESS STEEL VANITY SKIRTS TO
SLEEPER INCLUDING STEPS WHERE
APPLICABLE.**

Kenworth driver's information pack
with driver's handbook

Kenworth custom maintenance manual -
USB drive

**COMBINED TRAILER KIT, MOUNTED AT REAR
OF CAB / SLEEPER AND AT REAR OF FRAME.**

PBR air line couplings

Semi trailer fixed coiled air lines
**FULL TRUCK AIR COUPLINGS, PLUGGED -
COMBINED KIT**

**SEMI TRAILER FIXED LIGHT LINE - AS
4735 PLUG STRAIGHT LIGHT LINE (ALSO
CONFORMS WITH SAE J560)
FULL TRUCK ELECTRICAL CONNECTION - AS
4735 SOCKET MOUNTED AT REAR OF FRAME
(ALSO CONFORMS WITH SAE J560)**

Hosetenna right hand side - fixed

Manual air tank drain valves
**LUPO - SINGLE DRAIN POINT LOCATION FOR
MANUAL AIR TANK DRAIN VALVES**

**DUAL CHICAGO RAWHIDE TURBO 2000 AIR
DRYERS REQUIRED WITH TWIN COMPRESSOR,
OPTIONAL WITH SINGLE COMPRESSOR.**

TRAILER RELEASE VALVE

3
Electronic Braking Safety System (ABS
+ ATC + DTC) (Antilock Braking System
+ Automatic Traction Control + Drag
Torque Control)
**ESP (PRIME MOVER) - ELECTRONIC
STABILITY PROGRAM
TRM (24 VOLT) - TRAILER RESPONSE MODULE**

TS
Semi trailer ABS - socket only (for
use with Semi Trailer kit or Combined
kit)
**NO FULL TRUCK ABS TRAILER CONNECTION
(FOR USE WITH COMBINED KIT ONLY)**

Aluminium Note: each fuel tank
specified is filled with 200L fuel
when it leaves the KW factory. Tanks
with capacity less than 200L will be
filled

Polished finish – Aluminium tanks only

450L 625mm dia fuel tank LHF (rpl)

450L 625MM DIA FUEL TANK RHF (ADD)

450L 625MM DIA FUEL TANK LHR (ADD)

**220L 625MM DIA OIL TANK RHRR C/W
BREATHER & 1.25 BSP IN/OUTLETS.
AFTERMARKET FITTINGS AND HOSES FOR THE
OIL TANK MAY NEED UP TO 150MM OF
ADDITIONAL RAIL SPACE.**

**170L 625MM DIAM ADBLUE TANK RHR
(STAINLESS STEEL) FOR ISXE5 (60L
ADBLUE SUPPLIED AT FACTORY)**

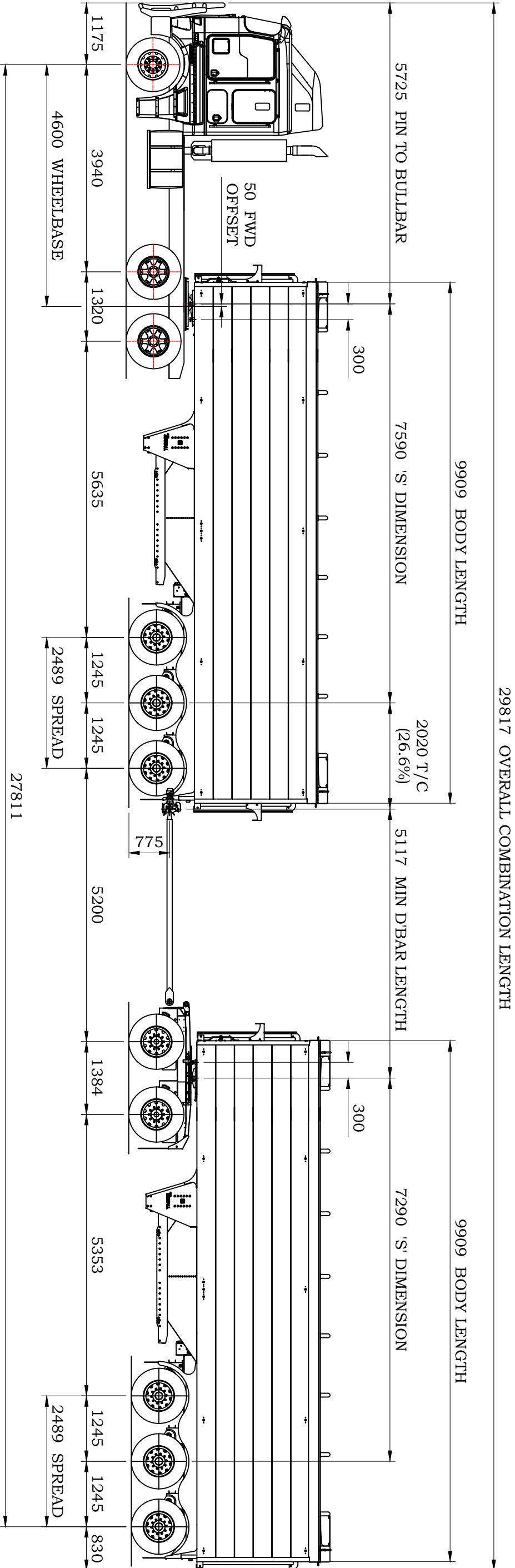
**SINGLE FUEL PICKUP & RETURN WITH FUEL
COOLER**

**OPT
HYDRAULIC PTO RETROFIT TO U`SIDE OF
TRANS. LOCATE AIR TANKS, AIRLINES,
FUEL LINES AND ELECTRICAL HARNESSSES
CLEAR FROM UNDERSIDE OF CLUTCH HOUSING
TO OUTPUT YOKE. (NOT WITH ALLISON
TRANSMISSION), (SUBJECT TO KENWORTH
ENGINEERING APPROVAL)
AIR TANKS NOT TO BE LOCATED AT EOF
(BELOW TAIL LIGHT BAR)**

PAINT CAB STOCK ICE WHITE (419KEA.KMV2)

PAINT INTEGRATED SLEEPER 1 COLOUR

CHASSIS PAINTED 1 COLOUR



KENWORTH K200
6X4 PRIME MOVER

NOTES:

- TRAILER & DOLLY TYRES 11R22.5".

REV	DATE	ISSUED FOR REVIEW	REVISION	BY	CHK
0	05/11/2021			BD	
6					



3RD ANGLE
PROJECTION

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CLIENT: BRE STANDARD DRAWING		SCALE: NTS	SHT SIZE: A3
TITAN BELLY DUMPER COMBINATION		JOB No:	SHEET:
TRI AXLE TRAILERS, TANDEM AXLE DOLLY			1 of 1
A-DOUBLE		DRAWING No:	REV: 0
SHEET TITLE: GENERAL ARRANGEMENT		TGR TRANS A-DOUBLE 211105	